



The Initial Valuation For  
**Perry County Soil and Water  
Conservation District**  
as of December 31, 2018



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June 19, 2019

Perry County Soil and Water Conservation District  
Perryville, Missouri

Ladies and Gentlemen:

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

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

The contribution requirement for benefits likely to accrue as a result of the future service of your employees is described on pages 4 thru 11 as the current cost plus the disability cost. 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 11 as the prior service cost. 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 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 current cost, disability cost, and prior service cost (the total employer cost as shown on pages 4 thru 11). These contributions are mandatory after official action has been taken to join the System.

The total annual dollar costs shown on pages 12 and 13 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, 2018.

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, 2018. The valuation was based on data furnished from your records concerning individual employees (see Appendix V).

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

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

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

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

The signing actuary is independent of the plan sponsor.

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, MAAA



## Alternate Plan Provisions Affecting Employer Contribution Rates

The law governing LAGERS provides for either a contributory plan or a non-contributory plan, with benefits based on either a 5 year or 3 year Final Average Salary (FAS).

**Contributory Plan.** Under the contributory plan, each covered member contributes 4% 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.

**Non-Contributory Plan.** Under the non-contributory 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.

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 72 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.

# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Contributory Plan - 5 Year FAS) (4% member contributions are additional)

### Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.10%	2.10%	0.20%	2.40%
L-3	General	0.20	3.10	0.30	3.60
LT-4(65)	General	0.20	2.60	0.20	3.00
LT-5(65)	General	0.20	3.50	0.30	4.00
L-7	General	0.20	4.20	0.30	4.70
LT-8(65)	General	0.30	4.40	0.30	5.00
L-12	General	0.30	5.30	0.40	6.00
LT-14(65)	General	0.30	5.40	0.40	6.10
L-6	General	0.40	6.30	0.50	7.20

\* Prior service credit was given for vesting purposes only.

# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Contributory Plan - 3 Year FAS) (4% member contributions are additional)

### Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.10%	2.30%	0.20%	2.60%
L-3	General	0.20	3.30	0.30	3.80
LT-4(65)	General	0.20	2.80	0.20	3.20
LT-5(65)	General	0.20	3.70	0.30	4.20
L-7	General	0.30	4.40	0.30	5.00
LT-8(65)	General	0.30	4.70	0.30	5.30
L-12	General	0.30	5.60	0.40	6.30
LT-14(65)	General	0.30	5.70	0.40	6.40
L-6	General	0.40	6.80	0.50	7.70

\* Prior service credit was given for vesting purposes only.

# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS) (No member contributions)

### Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.20%	5.60%	0.20%	6.00%
L-3	General	0.30	6.70	0.30	7.30
LT-4(65)	General	0.30	6.10	0.20	6.60
LT-5(65)	General	0.30	7.10	0.30	7.70
L-7	General	0.30	7.90	0.30	8.50
LT-8(65)	General	0.40	8.20	0.30	8.90
L-12	General	0.40	9.10	0.40	9.90
LT-14(65)	General	0.40	9.20	0.40	10.00
L-6	General	0.40	10.20	0.50	11.10

\* Prior service credit was given for vesting purposes only.



# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS) (No member contributions)

### Regular Retirement Eligibility

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.20%	5.70%	0.20%	6.10%
L-3	General	0.30	7.00	0.30	7.60
LT-4(65)	General	0.30	6.30	0.20	6.80
LT-5(65)	General	0.30	7.40	0.30	8.00
L-7	General	0.30	8.20	0.30	8.80
LT-8(65)	General	0.40	8.40	0.30	9.10
L-12	General	0.40	9.40	0.40	10.20
LT-14(65)	General	0.40	9.50	0.40	10.30
L-6	General	0.50	10.60	0.50	11.60

\* Prior service credit was given for vesting purposes only.

# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Contributory Plan - 5 Year FAS) (4% member contributions are additional)

### Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.20%	2.90%	0.20%	3.30%
L-3	General	0.20	4.10	0.30	4.60
LT-4(65)	General	0.20	4.40	0.20	4.80
LT-5(65)	General	0.30	5.20	0.30	5.80
L-7	General	0.30	5.40	0.30	6.00
LT-8(65)	General	0.30	6.10	0.30	6.70
L-12	General	0.40	6.60	0.40	7.40
LT-14(65)	General	0.40	7.00	0.40	7.80
L-6	General	0.40	8.00	0.50	8.90

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

\* Prior service credit was given for vesting purposes only.

# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Contributory Plan - 3 Year FAS) (4% member contributions are additional)

### Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.20%	3.10%	0.20%	3.50%
L-3	General	0.20	4.40	0.30	4.90
LT-4(65)	General	0.30	4.60	0.20	5.10
LT-5(65)	General	0.30	5.50	0.30	6.10
L-7	General	0.30	5.60	0.30	6.20
LT-8(65)	General	0.30	6.40	0.30	7.00
L-12	General	0.40	7.00	0.40	7.80
LT-14(65)	General	0.40	7.40	0.40	8.20
L-6	General	0.40	8.40	0.50	9.30

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

\* Prior service credit was given for vesting purposes only.

# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS) (No member contributions)

### Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.30%	6.30%	0.20%	6.80%
L-3	General	0.30	7.70	0.30	8.30
LT-4(65)	General	0.30	7.80	0.20	8.30
LT-5(65)	General	0.40	8.80	0.30	9.50
L-7	General	0.40	9.00	0.30	9.70
LT-8(65)	General	0.40	9.80	0.30	10.50
L-12	General	0.40	10.40	0.40	11.20
LT-14(65)	General	0.50	10.80	0.40	11.70
L-6	General	0.50	11.80	0.50	12.80

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

\* Prior service credit was given for vesting purposes only.

# Perry County Soil and Water Conservation District

## Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS) (No member contributions)

### Rule of 80 Retirement Eligibility#

Benefit Program	Employee Groups	Percents of Active Member Payroll			
		Prior Service Cost *	Current Cost	Disability Cost	Total Employer Contribution Rate
L-1	General	0.30%	6.50%	0.20%	7.00%
L-3	General	0.30	8.00	0.30	8.60
LT-4(65)	General	0.30	8.10	0.20	8.60
LT-5(65)	General	0.40	9.10	0.30	9.80
L-7	General	0.40	9.40	0.30	10.10
LT-8(65)	General	0.40	10.10	0.30	10.80
L-12	General	0.50	10.80	0.40	11.70
LT-14(65)	General	0.50	11.20	0.40	12.10
L-6	General	0.50	12.20	0.50	13.20

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

\* Prior service credit was given for vesting purposes only.

# Perry County Soil and Water Conservation District

## Employer Contribution Dollars Regular Retirement Eligibility

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:

### Contributory Plan

5 Year FAS	
Benefit Program	General
L-1	\$ 2,094
L-3	3,141
LT-4(65)	2,618
LT-5(65)	3,490
L-7	4,101
LT-8(65)	4,363
L-12	5,235
LT-14(65)	5,323
L-6	6,282

3 Year FAS	
Benefit Program	General
L-1	\$ 2,269
L-3	3,316
LT-4(65)	2,792
LT-5(65)	3,665
L-7	4,363
LT-8(65)	4,625
L-12	5,497
LT-14(65)	5,584
L-6	6,719

### Non-Contributory Plan

5 Year FAS	
Benefit Program	General
L-1	\$ 5,235
L-3	6,370
LT-4(65)	5,759
LT-5(65)	6,719
L-7	7,417
LT-8(65)	7,766
L-12	8,638
LT-14(65)	8,726
L-6	9,685

3 Year FAS	
Benefit Program	General
L-1	\$ 5,323
L-3	6,631
LT-4(65)	5,933
LT-5(65)	6,980
L-7	7,679
LT-8(65)	7,940
L-12	8,900
LT-14(65)	8,987
L-6	10,122

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.

# Perry County Soil and Water Conservation District

## Employer Contribution Dollars Rule of 80 Retirement Eligibility

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:

### Contributory Plan

5 Year FAS	
Benefit Program	General
L-1	\$ 2,879
L-3	4,014
LT-4(65)	4,188
LT-5(65)	5,061
L-7	5,235
LT-8(65)	5,846
L-12	6,457
LT-14(65)	6,806
L-6	7,766

3 Year FAS	
Benefit Program	General
L-1	\$ 3,054
L-3	4,276
LT-4(65)	4,450
LT-5(65)	5,323
L-7	5,410
LT-8(65)	6,108
L-12	6,806
LT-14(65)	7,155
L-6	8,115

### Non-Contributory Plan

5 Year FAS	
Benefit Program	General
L-1	\$ 5,933
L-3	7,242
LT-4(65)	7,242
LT-5(65)	8,289
L-7	8,464
LT-8(65)	9,162
L-12	9,773
LT-14(65)	10,209
L-6	11,169

3 Year FAS	
Benefit Program	General
L-1	\$ 6,108
L-3	7,504
LT-4(65)	7,504
LT-5(65)	8,551
L-7	8,813
LT-8(65)	9,424
L-12	10,209
LT-14(65)	10,558
L-6	11,518

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.

# Perry County Soil and Water Conservation District

## Employees and Payroll Included in the Valuation

	General
Number of Employees	3
Annual Payroll	\$ 87,256

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



## APPENDIX I

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### 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 11 as the "Prior Service Cost" 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:

### Perry County Soil and Water Conservation District

#### Regular Retirement Eligibility

Benefit Group	Employee Group	Contributory		Non-Contributory	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)	UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 2,088	\$ 2,223	\$ 3,463	\$ 3,602
L-3	General	2,960	3,114	4,327	4,484
LT-4(65)	General	2,573	2,712	3,930	4,087
LT-5(65)	General	3,332	3,486	4,691	4,845
L-7	General	3,814	3,966	5,199	5,369
LT-8(65)	General	4,059	4,204	5,433	5,619
L-12	General	4,602	4,806	6,057	6,283
LT-14(65)	General	4,708	4,944	6,181	6,419
L-6	General	5,407	5,640	6,908	7,167

# Perry County Soil and Water Conservation District

## Unfunded Actuarial Accrued Liability (UAAL)

### Rule of 80 Retirement Eligibility

Benefit Group	Employee Group	Contributory		Non-Contributory	
		UAAL (5 Year FAS)	UAAL (3 Year FAS)	UAAL (5 Year FAS)	UAAL (3 Year FAS)
L-1	General	\$ 2,597	\$ 2,723	\$ 3,937	\$ 4,091
L-3	General	3,575	3,754	4,933	5,106
LT-4(65)	General	3,732	3,904	5,077	5,256
LT-5(65)	General	4,430	4,631	5,784	5,985
L-7	General	4,541	4,750	5,912	6,122
LT-8(65)	General	5,105	5,341	6,465	6,721
L-12	General	5,432	5,696	6,908	7,152
LT-14(65)	General	5,714	5,999	7,187	7,444
L-6	General	6,376	6,631	7,895	8,160

## **APPENDIX II**

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### **SUMMARY OF FINANCIAL ASSUMPTIONS**

# Summary of Assumptions Used in Actuarial Valuations

## Assumptions Adopted by Board of Trustees After Consulting With Actuary

1. The investment return rate used in making the valuations was 7.25% per year, net of investment expenses, compounded annually. This rate of return is not the assumed real rate of return. The real rate of return is the rate of investment return in excess of the inflation rate. The price inflation rate used in making the valuations was 2.50% and the wage inflation rate used in making the valuations was 3.25%. The investment return rate translates to an assumed real rate of return over price inflation of 4.75% and over wage inflation of 4.00%. Adopted 2011 and 2016.
2. The healthy retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 Healthy Annuitant mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The disabled retiree mortality tables, for post-retirement mortality, used in evaluating allowances to be paid were the RP-2014 disabled mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. The pre-retirement mortality tables used were the RP-2014 employees mortality table for males and females, adjusted for mortality improvement back to the observation period base year of 2006. For both the post-retirement and pre-retirement tables, the base year for males was then established to be 2017. Mortality rates for a particular calendar year are determined by applying the MP-2015 mortality improvement scale to the above described tables. Adopted 2016.
3. The probabilities of withdrawal and disability from service, together with individual pay increase assumptions, are shown in Schedule 1. Adopted 2016.
4. The probabilities of retirement with an age and service allowance are shown in Schedule 2. Adopted 2016.
5. Post-retirement cost of living allowances are assumed to be 2.50% per year. Adopted 2016.
6. Total active member payroll is assumed to increase a year, which is the portion of the individual pay increase assumptions attributable to wage inflation. In effect, this assumes no change in the number of active members per employer. Adopted 2016.
7. An individual entry-age actuarial cost method of valuation was used in determining age and service allowance actuarial liabilities and normal cost. Adopted 1986.
8. The data about persons now covered was furnished by the political subdivision. Although examined for general reasonableness, the data was not audited by us.

## Schedule 1.

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

		Percent of Active Members Separating Within Next Year							
Sample Ages	Years of Service	General Members				Police		Fire	
		Men		Women		Disability	Withdrawal	Disability	Withdrawal
		Disability	Withdrawal	Disability	Withdrawal				
All	0		19.00%		22.00%		18.00%		10.00%
	1		17.00		20.00		17.00		8.00
	2		15.00		17.00		16.00		7.00
	3		13.00		14.00		13.00		6.00
	4		11.00		13.00		12.00		6.00
25	5 & Over	0.09%	7.30	0.02%	10.80	0.10%	9.80	0.06%	5.00
30		0.12	6.50	0.03	8.90	0.11	7.80	0.10	4.00
35		0.15	5.00	0.06	7.40	0.16	6.10	0.23	2.80
40		0.21	3.70	0.10	5.70	0.22	4.40	0.35	2.20
45		0.30	3.00	0.16	4.20	0.34	3.20	0.56	1.80
50		0.44	2.40	0.24	3.30	0.53	1.80	0.85	1.00
55		0.68	1.80	0.34	2.50	0.88	1.00	1.31	0.50
60		1.02	1.00	0.48	1.20		0.00		0.00
65			0.00		0.00		0.00		0.00

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

## Schedule 2.

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

#### Early Retirement

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

#### Normal Retirement

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

## Schedule 2. (Continued)

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

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



## **APPENDIX III**

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### **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, 2018

#### (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 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 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  $\frac{1}{2}$  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 4% of compensation beginning after completion of sufficient employment for 6 months of credited service.

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 non-contributory plan in which the full cost of LAGERS participation is paid by the employer. Adoption of the non-contributory provisions may be done at the time of membership or a later date; however, a change from contributory to non-contributory or vice-versa may not be made more frequently than every 2 years. Under the non-contributory provisions 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**

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**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 <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated	
			Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 525	\$ 889	\$1,414	94%
2,000	700	1,032	1,732	87%
2,500	875	1,175	2,050	82%
3,000	1,050	1,318	2,368	79%
3,500	1,225	1,462	2,687	77%
4,000	1,400	1,604	3,004	75%
25 Years of Service:				
\$1,500	\$ 375	\$ 889	\$1,264	84%
2,000	500	1,032	1,532	77%
2,500	625	1,175	1,800	72%
3,000	750	1,318	2,068	69%
3,500	875	1,462	2,337	67%
4,000	1,000	1,604	2,604	65%
15 Years of Service:				
\$1,500	\$225	\$ 889	\$1,114	74%
2,000	300	1,032	1,332	67%
2,500	375	1,175	1,550	62%
3,000	450	1,318	1,768	59%
3,500	525	1,462	1,987	57%
4,000	600	1,604	2,204	55%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> )

Final		Estimated	Estimated	
Average	LAGERS	Social	Monthly Total	
Salary (FAS) <sup>1</sup>	BENEFIT <sup>3</sup>	Security <sup>2</sup>	\$	% of FAS
35 Years of Service:				
\$1,500	\$ 656	\$ 889	\$1,545	103%
2,000	875	1,032	1,907	95%
2,500	1,094	1,175	2,269	91%
3,000	1,313	1,318	2,631	88%
3,500	1,531	1,462	2,993	86%
4,000	1,750	1,604	3,354	84%
25 Years of Service:				
\$1,500	\$ 469	\$ 889	\$1,358	91%
2,000	625	1,032	1,657	83%
2,500	781	1,175	1,956	78%
3,000	938	1,318	2,256	75%
3,500	1,094	1,462	2,556	73%
4,000	1,250	1,604	2,854	71%
15 Years of Service:				
\$1,500	\$281	\$ 889	\$1,170	78%
2,000	375	1,032	1,407	70%
2,500	469	1,175	1,644	66%
3,000	563	1,318	1,881	63%
3,500	656	1,462	2,118	61%
4,000	750	1,604	2,354	59%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> )

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

35 Years of Service:				
\$1,500	\$ 788	\$ 889	\$1,677	112%
2,000	1,050	1,032	2,082	104%
2,500	1,313	1,175	2,488	100%
3,000	1,575	1,318	2,893	96%
3,500	1,838	1,462	3,300	94%
4,000	2,100	1,604	3,704	93%
25 Years of Service:				
\$1,500	\$ 563	\$ 889	\$1,452	97%
2,000	750	1,032	1,782	89%
2,500	938	1,175	2,113	85%
3,000	1,125	1,318	2,443	81%
3,500	1,313	1,462	2,775	79%
4,000	1,500	1,604	3,104	78%
15 Years of Service:				
\$1,500	\$338	\$ 889	\$1,227	82%
2,000	450	1,032	1,482	74%
2,500	563	1,175	1,738	70%
3,000	675	1,318	1,993	66%
3,500	788	1,462	2,250	64%
4,000	900	1,604	2,504	63%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> )

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>	Estimated Social Security <sup>2</sup>	Estimated Monthly Total	
			\$	% of FAS
35 Years of Service:				
\$1,500	\$ 919	\$ 889	\$1,808	121%
2,000	1,225	1,032	2,257	113%
2,500	1,531	1,175	2,706	108%
3,000	1,838	1,318	3,156	105%
3,500	2,144	1,462	3,606	103%
4,000	2,450	1,604	4,054	101%
25 Years of Service:				
\$1,500	\$ 656	\$ 889	\$1,545	103%
2,000	875	1,032	1,907	95%
2,500	1,094	1,175	2,269	91%
3,000	1,313	1,318	2,631	88%
3,500	1,531	1,462	2,993	86%
4,000	1,750	1,604	3,354	84%
15 Years of Service:				
\$1,500	\$ 394	\$ 889	\$1,283	86%
2,000	525	1,032	1,557	78%
2,500	656	1,175	1,831	73%
3,000	788	1,318	2,106	70%
3,500	919	1,462	2,381	68%
4,000	1,050	1,604	2,654	66%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> )

Final		Estimated	Estimated	
Average	LAGERS	Social	Monthly Total	
Salary (FAS) <sup>1</sup>	BENEFIT <sup>3</sup>	Security <sup>2</sup>	\$	% of FAS
35 Years of Service:				
\$1,500	\$1,050	\$ 889	\$1,939	129%
2,000	1,400	1,032	2,432	122%
2,500	1,750	1,175	2,925	117%
3,000	2,100	1,318	3,418	114%
3,500	2,450	1,462	3,912	112%
4,000	2,800	1,604	4,404	110%
25 Years of Service:				
\$1,500	\$ 750	\$ 889	\$1,639	109%
2,000	1,000	1,032	2,032	102%
2,500	1,250	1,175	2,425	97%
3,000	1,500	1,318	2,818	94%
3,500	1,750	1,462	3,212	92%
4,000	2,000	1,604	3,604	90%
15 Years of Service:				
\$1,500	\$ 450	\$ 889	\$1,339	89%
2,000	600	1,032	1,632	82%
2,500	750	1,175	1,925	77%
3,000	900	1,318	2,218	74%
3,500	1,050	1,462	2,512	72%
4,000	1,200	1,604	2,804	70%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> to age 65)  
1.00% of FAS <sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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	\$ 889	\$1,050	\$1,414	70%	94%
2,000	1,400	700	1,032	1,400	1,732	70%	87%
2,500	1,750	875	1,175	1,750	2,050	70%	82%
3,000	2,100	1,050	1,318	2,100	2,368	70%	79%
3,500	2,450	1,225	1,462	2,450	2,687	70%	77%
4,000	2,800	1,400	1,604	2,800	3,004	70%	75%
25 Years of Service:							
\$1,500	\$ 750	\$ 375	\$ 889	\$ 750	\$1,264	50%	84%
2,000	1,000	500	1,032	1,000	1,532	50%	77%
2,500	1,250	625	1,175	1,250	1,800	50%	72%
3,000	1,500	750	1,318	1,500	2,068	50%	69%
3,500	1,750	875	1,462	1,750	2,337	50%	67%
4,000	2,000	1,000	1,604	2,000	2,604	50%	65%
15 Years of Service:							
\$1,500	\$ 450	\$225	\$ 889	\$ 450	\$1,114	30%	74%
2,000	600	300	1,032	600	1,332	30%	67%
2,500	750	375	1,175	750	1,550	30%	62%
3,000	900	450	1,318	900	1,768	30%	59%
3,500	1,050	525	1,462	1,050	1,987	30%	57%
4,000	1,200	600	1,604	1,200	2,204	30%	55%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> to age 65)  
1.25% of FAS <sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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	\$ 889	\$1,050	\$1,545	70%	103%
2,000	1,400	875	1,032	1,400	1,907	70%	95%
2,500	1,750	1,094	1,175	1,750	2,269	70%	91%
3,000	2,100	1,313	1,318	2,100	2,631	70%	88%
3,500	2,450	1,531	1,462	2,450	2,993	70%	86%
4,000	2,800	1,750	1,604	2,800	3,354	70%	84%

25 Years of Service:

\$1,500	\$ 750	\$ 469	\$ 889	\$ 750	\$1,358	50%	91%
2,000	1,000	625	1,032	1,000	1,657	50%	83%
2,500	1,250	781	1,175	1,250	1,956	50%	78%
3,000	1,500	938	1,318	1,500	2,256	50%	75%
3,500	1,750	1,094	1,462	1,750	2,556	50%	73%
4,000	2,000	1,250	1,604	2,000	2,854	50%	71%

15 Years of Service:

\$1,500	\$ 450	\$281	\$ 889	\$ 450	\$1,170	30%	78%
2,000	600	375	1,032	600	1,407	30%	70%
2,500	750	469	1,175	750	1,644	30%	66%
3,000	900	563	1,318	900	1,881	30%	63%
3,500	1,050	656	1,462	1,050	2,118	30%	61%
4,000	1,200	750	1,604	1,200	2,354	30%	59%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> to age 65)  
1.50% of FAS <sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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	\$ 889	\$1,050	\$1,677	70%	112%
2,000	1,400	1,050	1,032	1,400	2,082	70%	104%
2,500	1,750	1,313	1,175	1,750	2,488	70%	100%
3,000	2,100	1,575	1,318	2,100	2,893	70%	96%
3,500	2,450	1,838	1,462	2,450	3,300	70%	94%
4,000	2,800	2,100	1,604	2,800	3,704	70%	93%
25 Years of Service:							
\$1,500	\$ 750	\$ 563	\$ 889	\$ 750	\$1,452	50%	97%
2,000	1,000	750	1,032	1,000	1,782	50%	89%
2,500	1,250	938	1,175	1,250	2,113	50%	85%
3,000	1,500	1,125	1,318	1,500	2,443	50%	81%
3,500	1,750	1,313	1,462	1,750	2,775	50%	79%
4,000	2,000	1,500	1,604	2,000	3,104	50%	78%
15 Years of Service:							
\$1,500	\$ 450	\$338	\$ 889	\$ 450	\$1,227	30%	82%
2,000	600	450	1,032	600	1,482	30%	74%
2,500	750	563	1,175	750	1,738	30%	70%
3,000	900	675	1,318	900	1,993	30%	66%
3,500	1,050	788	1,462	1,050	2,250	30%	64%
4,000	1,200	900	1,604	1,200	2,504	30%	63%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

<sup>3</sup> 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 <sup>1</sup> to age 65)  
1.75% of FAS <sup>1</sup> at age 65)

Final Average Salary (FAS) <sup>1</sup>	LAGERS BENEFIT <sup>3</sup>		Estimated Social Security <sup>2</sup>	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	\$ 889	\$1,050	\$1,808	70%	121%
2,000	1,400	1,225	1,032	1,400	2,257	70%	113%
2,500	1,750	1,531	1,175	1,750	2,706	70%	108%
3,000	2,100	1,838	1,318	2,100	3,156	70%	105%
3,500	2,450	2,144	1,462	2,450	3,606	70%	103%
4,000	2,800	2,450	1,604	2,800	4,054	70%	101%

25 Years of Service:

\$1,500	\$ 750	\$ 656	\$ 889	\$ 750	\$1,545	50%	103%
2,000	1,000	875	1,032	1,000	1,907	50%	95%
2,500	1,250	1,094	1,175	1,250	2,269	50%	91%
3,000	1,500	1,313	1,318	1,500	2,631	50%	88%
3,500	1,750	1,531	1,462	1,750	2,993	50%	86%
4,000	2,000	1,750	1,604	2,000	3,354	50%	84%

15 Years of Service:

\$1,500	\$ 450	\$ 394	\$ 889	\$ 450	\$1,283	30%	86%
2,000	600	525	1,032	600	1,557	30%	78%
2,500	750	656	1,175	750	1,831	30%	73%
3,000	900	788	1,318	900	2,106	30%	70%
3,500	1,050	919	1,462	1,050	2,381	30%	68%
4,000	1,200	1,050	1,604	1,200	2,654	30%	66%

<sup>1</sup> "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.

<sup>2</sup> "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 2018 - it does not include any amounts which might be payable to an eligible spouse or children.

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

## **APPENDIX V**

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### **AGE AND SERVICE CHARACTERISTICS OF EMPLOYEES**

# Perry County Soil and Water Conservation District

December 31, 2018

## 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
<b>Under 20</b>									
20-24	2							2	\$ 55,120
25-29									
30-34	1							1	\$ 32,136
35-39									
40-44									
45-49									
50-54									
55-59									
60-64									
65-69									
70 & Over									
<b>Totals</b>	<b>3</b>							<b>3</b>	<b>\$ 87,256</b>

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

Age: 27.2 years.

Benefit Service: 0.0 years.

Annual Pay: \$29,085.



# APPENDIX VI

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## 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 11 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.

June 19, 2019 E-mail

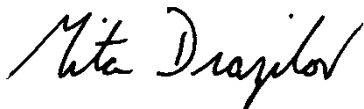
Mr. Robert Wilson, Executive Secretary  
Missouri Local Government  
Employees Retirement System  
P.O. Box 1665  
Jefferson City, Missouri 65102

Dear Bob:

Enclosed is the report of the December 31, 2018 Initial Actuarial Valuation of LAGERS benefits for the employees of

Perry County Soil and Water Conservation District

Sincerely,



Mita D. Drazilov, ASA, FCA, MAAA

MDD:wp

June 19, 2019

Perry County Soil and Water Conservation District  
Perryville, Missouri

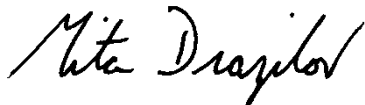
Ladies and Gentlemen:

This report contains projections needed to comply with Missouri state disclosure requirements (Section 105.660 of the RSMo) regarding the adoption of LAGERS benefits by a political subdivision. This report is intended to be a supplement to the December 31, 2018 Initial Valuation for the Perry County Soil and Water Conservation District dated June 19, 2019.

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, 2018.

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,



Mita D. Drazilov, ASA, FCA, MAAA

# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	2.4%	\$2,094	\$ 2,088	3.6%	\$3,141	\$ 2,960	3.0%	\$2,618	\$ 2,573
2019	90,092	2.4	2,162	2,117	3.6	3,243	3,001	3.0	2,703	2,608
2020	93,020	2.4	2,232	2,144	3.6	3,349	3,039	3.0	2,791	2,641
2021	96,043	2.4	2,305	2,169	3.6	3,458	3,074	3.0	2,881	2,671
2022	99,164	2.4	2,380	2,191	3.6	3,570	3,105	3.0	2,975	2,698
2023	102,387	2.4	2,457	2,210	3.6	3,686	3,132	3.0	3,072	2,722
2024	105,715	2.4	2,537	2,226	3.6	3,806	3,155	3.0	3,171	2,742
2025	109,151	2.4	2,620	2,239	3.6	3,929	3,173	3.0	3,275	2,757
2026	112,698	2.4	2,705	2,248	3.6	4,057	3,185	3.0	3,381	2,768
2027	116,361	2.4	2,793	2,252	3.6	4,189	3,191	3.0	3,491	2,773

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	4.0%	\$3,490	\$ 3,332	4.7%	\$4,101	\$ 3,814	5.0%	\$4,363	\$ 4,059
2019	90,092	4.0	3,604	3,378	4.7	4,234	3,866	5.0	4,505	4,115
2020	93,020	4.0	3,721	3,421	4.7	4,372	3,915	5.0	4,651	4,167
2021	96,043	4.0	3,842	3,460	4.7	4,514	3,960	5.0	4,802	4,215
2022	99,164	4.0	3,967	3,495	4.7	4,661	4,000	5.0	4,958	4,258
2023	102,387	4.0	4,095	3,526	4.7	4,812	4,035	5.0	5,119	4,295
2024	105,715	4.0	4,229	3,552	4.7	4,969	4,064	5.0	5,286	4,326
2025	109,151	4.0	4,366	3,572	4.7	5,130	4,087	5.0	5,458	4,350
2026	112,698	4.0	4,508	3,586	4.7	5,297	4,103	5.0	5,635	4,367
2027	116,361	4.0	4,654	3,593	4.7	5,469	4,111	5.0	5,818	4,375

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	6.0%	\$5,235	\$ 4,602	6.1%	\$5,323	\$ 4,708	7.2%	\$6,282	\$ 5,407
2019	90,092	6.0	5,406	4,665	6.1	5,496	4,772	7.2	6,487	5,481
2020	93,020	6.0	5,581	4,724	6.1	5,674	4,832	7.2	6,697	5,550
2021	96,043	6.0	5,763	4,778	6.1	5,859	4,887	7.2	6,915	5,613
2022	99,164	6.0	5,950	4,827	6.1	6,049	4,937	7.2	7,140	5,670
2023	102,387	6.0	6,143	4,869	6.1	6,246	4,980	7.2	7,372	5,720
2024	105,715	6.0	6,343	4,904	6.1	6,449	5,016	7.2	7,611	5,762
2025	109,151	6.0	6,549	4,932	6.1	6,658	5,044	7.2	7,859	5,795
2026	112,698	6.0	6,762	4,951	6.1	6,875	5,064	7.2	8,114	5,817
2027	116,361	6.0	6,982	4,960	6.1	7,098	5,074	7.2	8,378	5,828

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.

# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	2.6%	\$2,269	\$ 2,223	3.8%	\$3,316	\$ 3,114	3.2%	\$2,792	\$ 2,712
2019	90,092	2.6	2,342	2,253	3.8	3,423	3,157	3.2	2,883	2,749
2020	93,020	2.6	2,419	2,281	3.8	3,535	3,197	3.2	2,977	2,784
2021	96,043	2.6	2,497	2,307	3.8	3,650	3,234	3.2	3,073	2,816
2022	99,164	2.6	2,578	2,330	3.8	3,768	3,267	3.2	3,173	2,845
2023	102,387	2.6	2,662	2,350	3.8	3,891	3,296	3.2	3,276	2,870
2024	105,715	2.6	2,749	2,367	3.8	4,017	3,320	3.2	3,383	2,891
2025	109,151	2.6	2,838	2,380	3.8	4,148	3,339	3.2	3,493	2,907
2026	112,698	2.6	2,930	2,389	3.8	4,283	3,352	3.2	3,606	2,918
2027	116,361	2.6	3,025	2,394	3.8	4,422	3,358	3.2	3,724	2,924

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	4.2%	\$3,665	\$ 3,486	5.0%	\$4,363	\$ 3,966	5.3%	\$4,625	\$ 4,204
2019	90,092	4.2	3,784	3,534	5.0	4,505	4,020	5.3	4,775	4,262
2020	93,020	4.2	3,907	3,579	5.0	4,651	4,071	5.3	4,930	4,316
2021	96,043	4.2	4,034	3,620	5.0	4,802	4,118	5.3	5,090	4,365
2022	99,164	4.2	4,165	3,657	5.0	4,958	4,160	5.3	5,256	4,409
2023	102,387	4.2	4,300	3,689	5.0	5,119	4,197	5.3	5,427	4,448
2024	105,715	4.2	4,440	3,716	5.0	5,286	4,228	5.3	5,603	4,480
2025	109,151	4.2	4,584	3,737	5.0	5,458	4,252	5.3	5,785	4,505
2026	112,698	4.2	4,733	3,751	5.0	5,635	4,268	5.3	5,973	4,522
2027	116,361	4.2	4,887	3,758	5.0	5,818	4,276	5.3	6,167	4,531

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	6.3%	\$5,497	\$ 4,806	6.4%	\$5,584	\$ 4,944	7.7%	\$6,719	\$ 5,640
2019	90,092	6.3	5,676	4,872	6.4	5,766	5,012	7.7	6,937	5,717
2020	93,020	6.3	5,860	4,933	6.4	5,953	5,075	7.7	7,163	5,789
2021	96,043	6.3	6,051	4,989	6.4	6,147	5,133	7.7	7,395	5,855
2022	99,164	6.3	6,247	5,040	6.4	6,346	5,185	7.7	7,636	5,914
2023	102,387	6.3	6,450	5,084	6.4	6,553	5,231	7.7	7,884	5,966
2024	105,715	6.3	6,660	5,121	6.4	6,766	5,269	7.7	8,140	6,009
2025	109,151	6.3	6,877	5,150	6.4	6,986	5,299	7.7	8,405	6,043
2026	112,698	6.3	7,100	5,170	6.4	7,213	5,319	7.7	8,678	6,066
2027	116,361	6.3	7,331	5,180	6.4	7,447	5,329	7.7	8,960	6,078

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.

# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	6.0%	\$5,235	\$ 3,463	7.3%	\$6,370	\$ 4,327	6.6%	\$5,759	\$ 3,930
2019	90,092	6.0	5,406	3,510	7.3	6,577	4,386	6.6	5,946	3,984
2020	93,020	6.0	5,581	3,554	7.3	6,790	4,441	6.6	6,139	4,034
2021	96,043	6.0	5,763	3,595	7.3	7,011	4,492	6.6	6,339	4,080
2022	99,164	6.0	5,950	3,632	7.3	7,239	4,538	6.6	6,545	4,121
2023	102,387	6.0	6,143	3,664	7.3	7,474	4,578	6.6	6,758	4,157
2024	105,715	6.0	6,343	3,691	7.3	7,717	4,611	6.6	6,977	4,187
2025	109,151	6.0	6,549	3,712	7.3	7,968	4,637	6.6	7,204	4,211
2026	112,698	6.0	6,762	3,726	7.3	8,227	4,655	6.6	7,438	4,227
2027	116,361	6.0	6,982	3,733	7.3	8,494	4,664	6.6	7,680	4,235

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	7.7%	\$6,719	\$ 4,691	8.5%	\$7,417	\$ 5,199	8.9%	\$7,766	\$ 5,433
2019	90,092	7.7	6,937	4,755	8.5	7,658	5,270	8.9	8,018	5,507
2020	93,020	7.7	7,163	4,815	8.5	7,907	5,336	8.9	8,279	5,576
2021	96,043	7.7	7,395	4,870	8.5	8,164	5,397	8.9	8,548	5,640
2022	99,164	7.7	7,636	4,919	8.5	8,429	5,452	8.9	8,826	5,697
2023	102,387	7.7	7,884	4,962	8.5	8,703	5,500	8.9	9,112	5,747
2024	105,715	7.7	8,140	4,998	8.5	8,986	5,540	8.9	9,409	5,789
2025	109,151	7.7	8,405	5,026	8.5	9,278	5,571	8.9	9,714	5,822
2026	112,698	7.7	8,678	5,045	8.5	9,579	5,593	8.9	10,030	5,845
2027	116,361	7.7	8,960	5,055	8.5	9,891	5,604	8.9	10,356	5,856

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	9.9%	\$8,638	\$ 6,057	10.0%	\$8,726	\$ 6,181	11.1%	\$9,685	\$ 6,908
2019	90,092	9.9	8,919	6,140	10.0	9,009	6,266	11.1	10,000	7,003
2020	93,020	9.9	9,209	6,217	10.0	9,302	6,345	11.1	10,325	7,091
2021	96,043	9.9	9,508	6,288	10.0	9,604	6,418	11.1	10,661	7,172
2022	99,164	9.9	9,817	6,352	10.0	9,916	6,483	11.1	11,007	7,245
2023	102,387	9.9	10,136	6,408	10.0	10,239	6,540	11.1	11,365	7,309
2024	105,715	9.9	10,466	6,455	10.0	10,572	6,588	11.1	11,734	7,362
2025	109,151	9.9	10,806	6,491	10.0	10,915	6,625	11.1	12,116	7,404
2026	112,698	9.9	11,157	6,516	10.0	11,270	6,651	11.1	12,509	7,433
2027	116,361	9.9	11,520	6,528	10.0	11,636	6,664	11.1	12,916	7,447

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.



# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% member contributions are additional)

### Regular Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	6.1%	\$5,323	\$ 3,602	7.6%	\$6,631	\$ 4,484	6.8%	\$5,933	\$ 4,087
2019	90,092	6.1	5,496	3,651	7.6	6,847	4,545	6.8	6,126	4,143
2020	93,020	6.1	5,674	3,697	7.6	7,070	4,602	6.8	6,325	4,195
2021	96,043	6.1	5,859	3,739	7.6	7,299	4,655	6.8	6,531	4,243
2022	99,164	6.1	6,049	3,777	7.6	7,536	4,702	6.8	6,743	4,286
2023	102,387	6.1	6,246	3,810	7.6	7,781	4,743	6.8	6,962	4,324
2024	105,715	6.1	6,449	3,838	7.6	8,034	4,778	6.8	7,189	4,355
2025	109,151	6.1	6,658	3,860	7.6	8,295	4,805	6.8	7,422	4,380
2026	112,698	6.1	6,875	3,875	7.6	8,565	4,824	6.8	7,663	4,397
2027	116,361	6.1	7,098	3,882	7.6	8,843	4,833	6.8	7,913	4,405

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	8.0%	\$6,980	\$ 4,845	8.8%	\$7,679	\$ 5,369	9.1%	\$7,940	\$ 5,619
2019	90,092	8.0	7,207	4,911	8.8	7,928	5,443	9.1	8,198	5,696
2020	93,020	8.0	7,442	4,973	8.8	8,186	5,512	9.1	8,465	5,768
2021	96,043	8.0	7,683	5,030	8.8	8,452	5,575	9.1	8,740	5,834
2022	99,164	8.0	7,933	5,081	8.8	8,726	5,632	9.1	9,024	5,893
2023	102,387	8.0	8,191	5,126	8.8	9,010	5,681	9.1	9,317	5,945
2024	105,715	8.0	8,457	5,163	8.8	9,303	5,722	9.1	9,620	5,988
2025	109,151	8.0	8,732	5,192	8.8	9,605	5,754	9.1	9,933	6,022
2026	112,698	8.0	9,016	5,212	8.8	9,917	5,776	9.1	10,256	6,045
2027	116,361	8.0	9,309	5,222	8.8	10,240	5,787	9.1	10,589	6,057

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	10.2%	\$8,900	\$ 6,283	10.3%	\$8,987	\$ 6,419	11.6%	\$10,122	\$ 7,167
2019	90,092	10.2	9,189	6,369	10.3	9,279	6,507	11.6	10,451	7,265
2020	93,020	10.2	9,488	6,449	10.3	9,581	6,589	11.6	10,790	7,357
2021	96,043	10.2	9,796	6,523	10.3	9,892	6,664	11.6	11,141	7,441
2022	99,164	10.2	10,115	6,589	10.3	10,214	6,732	11.6	11,503	7,517
2023	102,387	10.2	10,443	6,647	10.3	10,546	6,791	11.6	11,877	7,583
2024	105,715	10.2	10,783	6,695	10.3	10,889	6,840	11.6	12,263	7,638
2025	109,151	10.2	11,133	6,733	10.3	11,243	6,879	11.6	12,662	7,681
2026	112,698	10.2	11,495	6,759	10.3	11,608	6,906	11.6	13,073	7,711
2027	116,361	10.2	11,869	6,772	10.3	11,985	6,919	11.6	13,498	7,726

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.

# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Contributory Plan - 5 Year FAS)

(4% member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	3.3%	\$2,879	\$ 2,597	4.6%	\$4,014	\$ 3,575	4.8%	\$4,188	\$ 3,732
2019	90,092	3.3	2,973	2,633	4.6	4,144	3,624	4.8	4,324	3,783
2020	93,020	3.3	3,070	2,666	4.6	4,279	3,670	4.8	4,465	3,831
2021	96,043	3.3	3,169	2,696	4.6	4,418	3,712	4.8	4,610	3,875
2022	99,164	3.3	3,272	2,723	4.6	4,562	3,750	4.8	4,760	3,914
2023	102,387	3.3	3,379	2,747	4.6	4,710	3,783	4.8	4,915	3,948
2024	105,715	3.3	3,489	2,767	4.6	4,863	3,811	4.8	5,074	3,977
2025	109,151	3.3	3,602	2,783	4.6	5,021	3,833	4.8	5,239	3,999
2026	112,698	3.3	3,719	2,794	4.6	5,184	3,848	4.8	5,410	4,014
2027	116,361	3.3	3,840	2,799	4.6	5,353	3,855	4.8	5,585	4,022

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	5.8%	\$5,061	\$ 4,430	6.0%	\$5,235	\$ 4,541	6.7%	\$5,846	\$ 5,105
2019	90,092	5.8	5,225	4,491	6.0	5,406	4,603	6.7	6,036	5,175
2020	93,020	5.8	5,395	4,548	6.0	5,581	4,661	6.7	6,232	5,240
2021	96,043	5.8	5,570	4,600	6.0	5,763	4,714	6.7	6,435	5,300
2022	99,164	5.8	5,752	4,647	6.0	5,950	4,762	6.7	6,644	5,354
2023	102,387	5.8	5,938	4,688	6.0	6,143	4,804	6.7	6,860	5,401
2024	105,715	5.8	6,131	4,722	6.0	6,343	4,839	6.7	7,083	5,440
2025	109,151	5.8	6,331	4,749	6.0	6,549	4,866	6.7	7,313	5,471
2026	112,698	5.8	6,536	4,767	6.0	6,762	4,885	6.7	7,551	5,492
2027	116,361	5.8	6,749	4,776	6.0	6,982	4,894	6.7	7,796	5,502

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	7.4%	\$6,457	\$ 5,432	7.8%	\$6,806	\$ 5,714	8.9%	\$7,766	\$ 6,376
2019	90,092	7.4	6,667	5,506	7.8	7,027	5,792	8.9	8,018	6,463
2020	93,020	7.4	6,883	5,575	7.8	7,256	5,865	8.9	8,279	6,544
2021	96,043	7.4	7,107	5,639	7.8	7,491	5,932	8.9	8,548	6,619
2022	99,164	7.4	7,338	5,696	7.8	7,735	5,992	8.9	8,826	6,686
2023	102,387	7.4	7,577	5,746	7.8	7,986	6,045	8.9	9,112	6,745
2024	105,715	7.4	7,823	5,788	7.8	8,246	6,089	8.9	9,409	6,794
2025	109,151	7.4	8,077	5,821	7.8	8,514	6,123	8.9	9,714	6,832
2026	112,698	7.4	8,340	5,844	7.8	8,790	6,147	8.9	10,030	6,858
2027	116,361	7.4	8,611	5,855	7.8	9,076	6,159	8.9	10,356	6,871

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.

# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Contributory Plan - 3 Year FAS)

(4% member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	3.5%	\$3,054	\$ 2,723	4.9%	\$4,276	\$ 3,754	5.1%	\$4,450	\$ 3,904
2019	90,092	3.5	3,153	2,760	4.9	4,415	3,805	5.1	4,595	3,957
2020	93,020	3.5	3,256	2,795	4.9	4,558	3,853	5.1	4,744	4,007
2021	96,043	3.5	3,362	2,827	4.9	4,706	3,897	5.1	4,898	4,053
2022	99,164	3.5	3,471	2,856	4.9	4,859	3,937	5.1	5,057	4,094
2023	102,387	3.5	3,584	2,881	4.9	5,017	3,972	5.1	5,222	4,130
2024	105,715	3.5	3,700	2,902	4.9	5,180	4,001	5.1	5,391	4,160
2025	109,151	3.5	3,820	2,918	4.9	5,348	4,024	5.1	5,567	4,184
2026	112,698	3.5	3,944	2,929	4.9	5,522	4,040	5.1	5,748	4,200
2027	116,361	3.5	4,073	2,935	4.9	5,702	4,048	5.1	5,934	4,208

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	6.1%	\$5,323	\$ 4,631	6.2%	\$5,410	\$ 4,750	7.0%	\$6,108	\$ 5,341
2019	90,092	6.1	5,496	4,694	6.2	5,586	4,815	7.0	6,306	5,414
2020	93,020	6.1	5,674	4,753	6.2	5,767	4,876	7.0	6,511	5,482
2021	96,043	6.1	5,859	4,807	6.2	5,955	4,932	7.0	6,723	5,545
2022	99,164	6.1	6,049	4,856	6.2	6,148	4,982	7.0	6,941	5,601
2023	102,387	6.1	6,246	4,899	6.2	6,348	5,026	7.0	7,167	5,650
2024	105,715	6.1	6,449	4,935	6.2	6,554	5,063	7.0	7,400	5,691
2025	109,151	6.1	6,658	4,963	6.2	6,767	5,092	7.0	7,641	5,723
2026	112,698	6.1	6,875	4,982	6.2	6,987	5,112	7.0	7,889	5,745
2027	116,361	6.1	7,098	4,992	6.2	7,214	5,122	7.0	8,145	5,756

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	7.8%	\$6,806	\$ 5,696	8.2%	\$7,155	\$ 5,999	9.3%	\$8,115	\$ 6,631
2019	90,092	7.8	7,027	5,774	8.2	7,388	6,081	9.3	8,379	6,722
2020	93,020	7.8	7,256	5,847	8.2	7,628	6,158	9.3	8,651	6,807
2021	96,043	7.8	7,491	5,914	8.2	7,876	6,228	9.3	8,932	6,885
2022	99,164	7.8	7,735	5,974	8.2	8,131	6,291	9.3	9,222	6,955
2023	102,387	7.8	7,986	6,026	8.2	8,396	6,346	9.3	9,522	7,016
2024	105,715	7.8	8,246	6,070	8.2	8,669	6,392	9.3	9,831	7,067
2025	109,151	7.8	8,514	6,104	8.2	8,950	6,428	9.3	10,151	7,107
2026	112,698	7.8	8,790	6,128	8.2	9,241	6,453	9.3	10,481	7,134
2027	116,361	7.8	9,076	6,140	8.2	9,542	6,465	9.3	10,822	7,148

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.

# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Non-Contributory Plan - 5 Year FAS)

(0% member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	6.8%	\$5,933	\$ 3,937	8.3%	\$7,242	\$ 4,933	8.3%	\$7,242	\$ 5,077
2019	90,092	6.8	6,126	3,991	8.3	7,478	5,001	8.3	7,478	5,147
2020	93,020	6.8	6,325	4,041	8.3	7,721	5,064	8.3	7,721	5,212
2021	96,043	6.8	6,531	4,087	8.3	7,972	5,122	8.3	7,972	5,272
2022	99,164	6.8	6,743	4,129	8.3	8,231	5,174	8.3	8,231	5,326
2023	102,387	6.8	6,962	4,165	8.3	8,498	5,219	8.3	8,498	5,373
2024	105,715	6.8	7,189	4,195	8.3	8,774	5,257	8.3	8,774	5,412
2025	109,151	6.8	7,422	4,219	8.3	9,060	5,287	8.3	9,060	5,443
2026	112,698	6.8	7,663	4,235	8.3	9,354	5,307	8.3	9,354	5,464
2027	116,361	6.8	7,913	4,243	8.3	9,658	5,317	8.3	9,658	5,474

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	9.5%	\$8,289	\$ 5,784	9.7%	\$8,464	\$ 5,912	10.5%	\$9,162	\$ 6,465
2019	90,092	9.5	8,559	5,863	9.7	8,739	5,993	10.5	9,460	6,554
2020	93,020	9.5	8,837	5,937	9.7	9,023	6,069	10.5	9,767	6,637
2021	96,043	9.5	9,124	6,005	9.7	9,316	6,138	10.5	10,085	6,713
2022	99,164	9.5	9,421	6,066	9.7	9,619	6,200	10.5	10,412	6,781
2023	102,387	9.5	9,727	6,119	9.7	9,932	6,254	10.5	10,751	6,841
2024	105,715	9.5	10,043	6,164	9.7	10,254	6,300	10.5	11,100	6,891
2025	109,151	9.5	10,369	6,199	9.7	10,588	6,336	10.5	11,461	6,930
2026	112,698	9.5	10,706	6,223	9.7	10,932	6,361	10.5	11,833	6,957
2027	116,361	9.5	11,054	6,235	9.7	11,287	6,373	10.5	12,218	6,970

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	11.2%	\$9,773	\$ 6,908	11.7%	\$10,209	\$ 7,187	12.8%	\$11,169	\$ 7,895
2019	90,092	11.2	10,090	7,003	11.7	10,541	7,285	12.8	11,532	8,003
2020	93,020	11.2	10,418	7,091	11.7	10,883	7,377	12.8	11,907	8,104
2021	96,043	11.2	10,757	7,172	11.7	11,237	7,461	12.8	12,294	8,197
2022	99,164	11.2	11,106	7,245	11.7	11,602	7,537	12.8	12,693	8,280
2023	102,387	11.2	11,467	7,309	11.7	11,979	7,603	12.8	13,106	8,353
2024	105,715	11.2	11,840	7,362	11.7	12,369	7,658	12.8	13,532	8,414
2025	109,151	11.2	12,225	7,404	11.7	12,771	7,701	12.8	13,971	8,462
2026	112,698	11.2	12,622	7,433	11.7	13,186	7,731	12.8	14,425	8,495
2027	116,361	11.2	13,032	7,447	11.7	13,614	7,746	12.8	14,894	8,511

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.

# Perry County Soil and Water Conservation District - General

## Employer Contribution Rates (Non-Contributory Plan - 3 Year FAS)

(0% member contributions are additional)

### Rule of 80 Retirement Eligibility

Valuation Year	Estimated Projected Payroll	L-1 Benefit Program			L-3 Benefit Program			LT-4(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a %	Annual	Accrued	As a %	Annual	Accrued	As a %	Annual	Accrued
		of Payroll	Dollars	Liability	of Payroll	Dollars	Liability	of Payroll	Dollars	Liability
2018	\$ 87,256	7.0%	\$6,108	\$ 4,091	8.6%	\$7,504	\$ 5,106	8.6%	\$7,504	\$ 5,256
2019	90,092	7.0	6,306	4,147	8.6	7,748	5,176	8.6	7,748	5,328
2020	93,020	7.0	6,511	4,199	8.6	8,000	5,241	8.6	8,000	5,395
2021	96,043	7.0	6,723	4,247	8.6	8,260	5,301	8.6	8,260	5,457
2022	99,164	7.0	6,941	4,290	8.6	8,528	5,355	8.6	8,528	5,512
2023	102,387	7.0	7,167	4,328	8.6	8,805	5,402	8.6	8,805	5,560
2024	105,715	7.0	7,400	4,360	8.6	9,091	5,441	8.6	9,091	5,601
2025	109,151	7.0	7,641	4,385	8.6	9,387	5,472	8.6	9,387	5,633
2026	112,698	7.0	7,889	4,402	8.6	9,692	5,493	8.6	9,692	5,655
2027	116,361	7.0	8,145	4,410	8.6	10,007	5,503	8.6	10,007	5,666

Valuation Year	Estimated Projected Payroll	LT-5(65) Benefit Program			L-7 Benefit Program			LT-8(65) Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	9.8%	\$8,551	\$ 5,985	10.1%	\$8,813	\$ 6,122	10.8%	\$9,424	\$ 6,721
2019	90,092	9.8	8,829	6,067	10.1	9,099	6,206	10.8	9,730	6,813
2020	93,020	9.8	9,116	6,144	10.1	9,395	6,284	10.8	10,046	6,899
2021	96,043	9.8	9,412	6,214	10.1	9,700	6,356	10.8	10,373	6,978
2022	99,164	9.8	9,718	6,277	10.1	10,016	6,421	10.8	10,710	7,049
2023	102,387	9.8	10,034	6,332	10.1	10,341	6,477	10.8	11,058	7,111
2024	105,715	9.8	10,360	6,378	10.1	10,677	6,524	10.8	11,417	7,163
2025	109,151	9.8	10,697	6,414	10.1	11,024	6,561	10.8	11,788	7,203
2026	112,698	9.8	11,044	6,439	10.1	11,382	6,586	10.8	12,171	7,231
2027	116,361	9.8	11,403	6,451	10.1	11,752	6,599	10.8	12,567	7,245

Valuation Year	Estimated Projected Payroll	L-12 Benefit Program			LT-14(65) Benefit Program			L-6 Benefit Program		
		Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial	Estimated Employer Contribution		Unfunded Actuarial
		As a % of	Annual	Accrued	As a % of	Annual	Accrued	As a % of	Annual	Accrued
		Payroll	Dollars	Liability	Payroll	Dollars	Liability	Payroll	Dollars	Liability
2018	\$ 87,256	11.7%	\$10,209	\$ 7,152	12.1%	\$10,558	\$ 7,444	13.2%	\$11,518	\$ 8,160
2019	90,092	11.7	10,541	7,250	12.1	10,901	7,546	13.2	11,892	8,272
2020	93,020	11.7	10,883	7,341	12.1	11,255	7,641	13.2	12,279	8,376
2021	96,043	11.7	11,237	7,425	12.1	11,621	7,728	13.2	12,678	8,472
2022	99,164	11.7	11,602	7,500	12.1	11,999	7,807	13.2	13,090	8,558
2023	102,387	11.7	11,979	7,566	12.1	12,389	7,876	13.2	13,515	8,633
2024	105,715	11.7	12,369	7,621	12.1	12,792	7,933	13.2	13,954	8,696
2025	109,151	11.7	12,771	7,664	12.1	13,207	7,978	13.2	14,408	8,745
2026	112,698	11.7	13,186	7,694	12.1	13,636	8,009	13.2	14,876	8,779
2027	116,361	11.7	13,614	7,709	12.1	14,080	8,024	13.2	15,360	8,796

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.660 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) Estimated projected payroll is based upon the valuation payroll, increased each future year by 3.25%.
- 3) Due to the estimated nature of the above projections, certain but not all aspects of the Missouri LAGERS funding policy have been incorporated in the above projections.
- 4) Differences between the date of the initial valuation and the actuarial valuation date of February 28<sup>th</sup> 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.