



The City of Moscow Mills

Supplemental Actuarial Valuation of Alternate
LAGERS Benefits
February 28, 2021



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July 27, 2021

The City of Moscow Mills
Moscow Mills, Missouri

Ladies and Gentlemen:

Submitted in this report are the results of an actuarial valuation prepared to determine the employer contribution rates required to support, for your employees, certain 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 changes in LAGERS benefits by a political subdivision (Sections 105.660 - 105.685 RSMo).

The contribution requirement for benefits likely to accrue as a result of the future service of your employees is described in this report as the normal cost rate plus the casualty rate. This contribution rate, expressed as a percent of active employee payroll, will depend on the benefit plan adopted.

The contribution requirement to pay for benefits likely to result from service rendered by your employees prior to the valuation date, the liability for which is not covered by present employer account balances, is described in this report as the prior service cost rate. The prior service cost rate is the rate of contribution designed to pay for any unfunded actuarial accrued liability.

Section 70.730 of the Revised Statutes of Missouri requires participating employers to contribute the normal cost rate, casualty rate, and prior service cost rate for the benefit plan in effect. These contributions are mandatory.

The actuarial assumptions and methods used to determine the stated costs are described in Appendix I 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, 2021. Annual actuarial valuation results for the political subdivision and information pertaining to those results may be found in the political subdivision's annual actuarial valuation report as of February 28, 2021.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

The computed contribution rates 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. Summary provisions of the law as well as benefit illustrations can be found in Appendices II and III.

In accordance with 105.675 RSMo, 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 adopt an alternate benefit plan. 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. The statement of cost must also be provided to the Joint Committee on Public Employee Retirement. The statement can be mailed to the State Capitol, Room 219-A, Jefferson City, MO 65101 or e-mailed to JCPER@senate.mo.gov.

The valuation was based on the same data as was used in your February 28, 2021 annual actuarial valuation. If you have any questions concerning this report or LAGERS in general, please contact the LAGERS office in Jefferson City.

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

Respectfully submitted,



Mita D. Drazilov, ASA, FCA, MAAA



Alternate Plan Provisions Affecting Employer Contribution Rates

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

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

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

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

In total this allows for 144 different combinations of benefit plans, giving employers considerable latitude in designing the retirement program that 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 II of this report.

The City of Moscow Mills

Computed Employer Contribution Rates - General Employees

As of February 28, 2021

Benefit Plan Information

| <u>Benefit Plans</u> | <u>Present Plan</u> | <u>Alternate Plan</u> |
|---------------------------|---------------------|-----------------------|
| # Benefit Program: | L-3 | L-7 |
| Final Average Salary: | 5 years | 5 years |
| Member Contribution Rate: | 4% | 4% |
| Retirement Eligibility: | Regular | Regular |

Actuarial Information

Employer Contribution Rates (as a percent of payroll)

| | <u>Present Plan</u> | <u>Alternate Plan</u> |
|--|---------------------|--------------------------|
| Normal Cost Rate | 3.5% | 4.8% |
| Casualty Rate | 0.3 | 0.3 |
| Prior Service Cost Rate ¹ | <u>7.3</u> | <u>13.4</u> |
| Total Employer Contribution Rate | 11.1% | 18.5% |
| Increase in Employer Contribution Rate for Alternate Plan as a percent of payroll | | 7.4% ² |
| Increase in Actuarial Accrued Liability ¹ | | \$79,829 |

Employer contribution rates shown above are for the fiscal year beginning in 2022. If the alternate plan is adopted prior to the fiscal year beginning in 2022, 7.4% would be added to the employer contribution rate currently in effect.

Change in provisions from present plan.

¹ The increase in the actuarial accrued liability due to adoption of the alternate plan was amortized over a 20 year period to compute the increase in the Prior Service Cost Rate.

² The increase of 7.4% as shown above, includes the estimated cost (value) of the change in benefit provisions equal to 3.7% of payroll and 3.7% of payroll due to the capped contribution rate of this group as of February 28, 2021.

If you have any questions, please call the LAGERS office at 1-800-447-4334.



The City of Moscow Mills

Projected Estimated Employer Contribution Rates - General Employees

As of February 28, 2021

| Valuation Date Feb. 28/29 | Estimated Projected Payroll | Present Plan | | | Alternate Plan | | | Change Due to Proposed Provisions | | |
|------------------------------|-----------------------------|---------------------------------|----------------|----------------------|---------------------------------|----------------|----------------------|-----------------------------------|----------------|----------------------|
| | | Estimated Employer Contribution | | Estimated Difference | Estimated Employer Contribution | | Estimated Difference | Estimated Employer Contribution | | Estimated Difference |
| | | As a % of Payroll | Annual Dollars | Between AAL and AVA | As a % of Payroll | Annual Dollars | Between AAL and AVA | As a % of Payroll | Annual Dollars | Between AAL and AVA |
| 2021 | \$247,889 | 11.1% | \$27,516 | \$426,134 | 18.5% | \$45,859 | \$505,963 | 7.4% | \$18,343 | \$79,829 |
| 2022 | 254,706 | 12.1 | 30,819 | 436,830 | 18.5 | 47,121 | 506,966 | 6.4 | 16,302 | 70,136 |
| 2023 | 261,710 | 13.1 | 34,284 | 445,110 | 18.5 | 48,416 | 507,094 | 5.4 | 14,132 | 61,984 |
| 2024 | 268,907 | 14.1 | 37,916 | 450,811 | 18.5 | 49,748 | 506,257 | 4.4 | 11,832 | 55,446 |
| 2025 | 276,302 | 15.1 | 41,722 | 453,498 | 18.5 | 51,116 | 504,363 | 3.4 | 9,394 | 50,865 |
| 2026 | 283,900 | 15.8 | 44,856 | 452,716 | 18.5 | 52,522 | 501,310 | 2.7 | 7,666 | 48,594 |
| 2027 | 291,707 | 15.8 | 46,090 | 449,126 | 18.5 | 53,966 | 496,988 | 2.7 | 7,876 | 47,862 |
| 2028 | 299,729 | 15.8 | 47,357 | 444,314 | 18.5 | 55,450 | 491,278 | 2.7 | 8,093 | 46,964 |
| 2029 | 307,972 | 15.8 | 48,660 | 438,170 | 18.5 | 56,975 | 484,055 | 2.7 | 8,315 | 45,885 |
| 2030 | 316,441 | 15.8 | 49,998 | 430,572 | 18.5 | 58,542 | 475,184 | 2.7 | 8,544 | 44,612 |

AAL = Actuarial Accrued Liability
 AVA = Actuarial Value of Assets

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) For purposes of the above projections, it was assumed that all actuarial assumptions would be realized. In particular, it was assumed that the actuarial value of assets would earn 7.00% in each year.
- 3) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 4) 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.
- 5) Differences between fiscal end dates of the employer and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 6) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Other disclosures required by Section 105.665 of the Revised Statutes of Missouri (RSMo):

- 1) As of February 28, 2021, the actuarial value of assets is \$111,218; the estimated market value of assets is \$117,195; the actuarial accrued liability is \$537,352; and the funded ratio is 20.7%. These results are based on the assets and liabilities associated with the Employer Accumulation Fund and the Member Deposit Fund for this division.
- 2) Under Section 70.730 of the Revised Statutes of Missouri, the computed employer contribution rate shall not exceed the contribution rate for the immediately preceding fiscal year by more than one percent (not including the effects of any benefit changes). As of February 28, 2021, the uncapped employer contribution rate was computed to be 14.8% of payroll.



The City of Moscow Mills

Computed Employer Contribution Rates - Police Employees

As of February 28, 2021

Benefit Plan Information

| <u>Benefit Plans</u> | <u>Present Plan</u> | <u>Alternate Plan</u> |
|---------------------------|---------------------|-----------------------|
| # Benefit Program: | L-3 | L-7 |
| Final Average Salary: | 5 years | 5 years |
| Member Contribution Rate: | 4% | 4% |
| Retirement Eligibility: | Regular | Regular |

Actuarial Information

Employer Contribution Rates (as a percent of payroll)

| | <u>Present Plan</u> | <u>Alternate Plan</u> |
|--------------------------------------|---------------------|-----------------------|
| Normal Cost Rate | 4.3% | 5.8% |
| Casualty Rate | 0.5 | 0.6 |
| Prior Service Cost Rate ¹ | <u>4.9</u> | <u>6.1</u> |
| Total Employer Contribution Rate | 9.7% | 12.5% |

Increase in Employer Contribution Rate for Alternate Plan as a percent of payroll

2.8%

Increase in Actuarial Accrued Liability ¹

\$62,267

Employer contribution rates shown above are for the fiscal year beginning in 2022. If the alternate plan is adopted prior to the fiscal year beginning in 2022, 2.8% would be added to the employer contribution rate currently in effect.

Change in provisions from present plan.

¹ The increase in the actuarial accrued liability due to adoption of the alternate plan was amortized over a 20 year period to compute the increase in the Prior Service Cost Rate.

If you have any questions, please call the LAGERS office at 1-800-447-4334.

The City of Moscow Mills

Projected Estimated Employer Contribution Rates - Police Employees

As of February 28, 2021

| Valuation Date Feb. 28/29 | Estimated Projected Payroll | Present Plan | | | Alternate Plan | | | Change Due to Proposed Provisions | | |
|------------------------------|-----------------------------|---------------------------------|----------------|----------------------|---------------------------------|----------------|----------------------|-----------------------------------|----------------|----------------------|
| | | Estimated Employer Contribution | | Estimated Difference | Estimated Employer Contribution | | Estimated Difference | Estimated Employer Contribution | | Estimated Difference |
| | | As a % of Payroll | Annual Dollars | Between AAL and AVA | As a % of Payroll | Annual Dollars | Between AAL and AVA | As a % of Payroll | Annual Dollars | Between AAL and AVA |
| 2021 | \$392,851 | 9.7% | \$38,107 | \$231,645 | 12.5% | \$49,106 | \$293,912 | 2.8% | \$10,999 | \$62,267 |
| 2022 | 403,654 | 9.7 | 39,154 | 232,003 | 12.5 | 50,457 | 293,864 | 2.8 | 11,303 | 61,861 |
| 2023 | 414,754 | 9.7 | 40,231 | 231,950 | 12.5 | 51,844 | 293,246 | 2.8 | 11,613 | 61,296 |
| 2024 | 426,160 | 9.7 | 41,338 | 231,446 | 12.5 | 53,270 | 292,002 | 2.8 | 11,932 | 60,556 |
| 2025 | 437,879 | 9.7 | 42,474 | 230,447 | 12.5 | 54,735 | 290,073 | 2.8 | 12,261 | 59,626 |
| 2026 | 449,921 | 9.7 | 43,642 | 228,904 | 12.5 | 56,240 | 287,393 | 2.8 | 12,598 | 58,489 |
| 2027 | 462,294 | 9.7 | 44,843 | 226,767 | 12.5 | 57,787 | 283,894 | 2.8 | 12,944 | 57,127 |
| 2028 | 475,007 | 9.7 | 46,076 | 223,981 | 12.5 | 59,376 | 279,499 | 2.8 | 13,300 | 55,518 |
| 2029 | 488,070 | 9.7 | 47,343 | 220,487 | 12.5 | 61,009 | 274,131 | 2.8 | 13,666 | 53,644 |
| 2030 | 501,492 | 9.7 | 48,645 | 216,221 | 12.5 | 62,687 | 267,700 | 2.8 | 14,042 | 51,479 |

AAL = Actuarial Accrued Liability
 AVA = Actuarial Value of Assets

Notes regarding the above projections:

- 1) The purpose of the above projections is to comply with the requirements of Section 105.665 of the Revised Statutes of Missouri (RSMo). The projection results may not be applicable for other purposes.
- 2) For purposes of the above projections, it was assumed that all actuarial assumptions would be realized. In particular, it was assumed that the actuarial value of assets would earn 7.00% in each year.
- 3) Estimated projected payroll is based upon the valuation payroll, increased each future year by 2.75%.
- 4) 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.
- 5) Differences between fiscal end dates of the employer and the actuarial valuation date of February 28th have not been incorporated in the above results.
- 6) The actual employer contribution rates for future valuation dates will be based upon actual data as of the future valuation date.

Other disclosures required by Section 105.665 of the Revised Statutes of Missouri (RSMo):

- 1) As of February 28, 2021, the actuarial value of assets is \$100,440; the estimated market value of assets is \$105,838; the actuarial accrued liability is \$332,085; and the funded ratio is 30.2%. These results are based on the assets and liabilities associated with the Employer Accumulation Fund and the Member Deposit Fund for this division.
- 2) Under Section 70.730 of the Revised Statutes of Missouri, the computed employer contribution rate shall not exceed the contribution rate for the immediately preceding fiscal year by more than one percent (not including the effects of any benefit changes). As of February 28, 2021, there is no difference between the capped and uncapped employer contribution rate.



APPENDIX I

SUMMARY OF FINANCIAL ASSUMPTIONS

Summary of Assumptions Used in Actuarial Valuations

Assumptions Adopted by Board of Trustees after Consulting with Actuary

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

Schedule 1.

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

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

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

Schedule 2.

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

Early Retirement

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

Normal Retirement

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

Schedule 2. (Concluded)

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

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

APPENDIX II

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, 2021

(Section References are to RSMo)

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

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

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

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

| | |
|----------------------------|--------------------------------------|
| L-1 Benefit Program: | 1.00% for life |
| L-3 Benefit Program: | 1.25% for life |
| L-7 Benefit Program: | 1.50% for life |
| L-9 Benefit Program: | 1.60% for life |
| L-12 Benefit Program: | 1.75% for life |
| L-6 Benefit Program: | 2.00% for life |
| LT-4 Benefit Program: | 1.00% for life, plus 1.00% to age 62 |
| LT-5 Benefit Program: | 1.25% for life, plus 0.75% to age 62 |
| LT-8 Benefit Program: | 1.50% for life, plus 0.50% to age 62 |
| 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-10(65) Benefit Program: | 1.60% for life, plus 0.40% to age 65 |
| LT-14(65) Benefit Program: | 1.75% for life, plus 0.25% to age 65 |

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

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

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

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



Early Allowance. Section 70.670. A member may retire with an early allowance after both (i) completing 5 years of credited service, and (ii) attaining age 55 if a general employee or age 50 if a police, public safety or fire employee. The early allowance amount, payable monthly for life, is computed in the same manner as an age & service allowance, based upon the service and earnings record to time of early retirement, but reduced to reflect the fact that the age when payments begin is younger than the minimum service retirement age. The amount of the reduction is 1/2 of 1% (.005) for each month the age at retirement is younger than the minimum service retirement age.

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

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX III

BENEFIT ILLUSTRATIONS

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts

For Sample Combinations of Service & Salary
(L-1 Benefit Program is Years of Credited Service
times: 1.00% of FAS ¹)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | Estimated Social Security ² | Estimated Monthly Total | |
|---|--------------------------------|--|----------------------------|----------|
| | | | \$ | % of FAS |
| 35 Years of Service: | | | | |
| \$1,500 | \$ 525 | \$ 916 | \$1,441 | 96% |
| 2,000 | 700 | 1,055 | 1,755 | 88% |
| 2,500 | 875 | 1,192 | 2,067 | 83% |
| 3,000 | 1,050 | 1,330 | 2,380 | 79% |
| 3,500 | 1,225 | 1,469 | 2,694 | 77% |
| 4,000 | 1,400 | 1,605 | 3,005 | 75% |
| 25 Years of Service: | | | | |
| \$1,500 | \$ 375 | \$ 916 | \$1,291 | 86% |
| 2,000 | 500 | 1,055 | 1,555 | 78% |
| 2,500 | 625 | 1,192 | 1,817 | 73% |
| 3,000 | 750 | 1,330 | 2,080 | 69% |
| 3,500 | 875 | 1,469 | 2,344 | 67% |
| 4,000 | 1,000 | 1,605 | 2,605 | 65% |
| 15 Years of Service: | | | | |
| \$1,500 | \$225 | \$ 916 | \$1,141 | 76% |
| 2,000 | 300 | 1,055 | 1,355 | 68% |
| 2,500 | 375 | 1,192 | 1,567 | 63% |
| 3,000 | 450 | 1,330 | 1,780 | 59% |
| 3,500 | 525 | 1,469 | 1,994 | 57% |
| 4,000 | 600 | 1,605 | 2,205 | 55% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-3 Benefit Program is Years of Credited Service
times: 1.25% of FAS ¹)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | Estimated Social Security ² | Estimated Monthly Total | |
|---|--------------------------------|--|----------------------------|----------|
| | | | \$ | % of FAS |
| 35 Years of Service: | | | | |
| \$1,500 | \$ 656 | \$ 916 | \$1,572 | 105% |
| 2,000 | 875 | 1,055 | 1,930 | 97% |
| 2,500 | 1,094 | 1,192 | 2,286 | 91% |
| 3,000 | 1,313 | 1,330 | 2,643 | 88% |
| 3,500 | 1,531 | 1,469 | 3,000 | 86% |
| 4,000 | 1,750 | 1,605 | 3,355 | 84% |
| 25 Years of Service: | | | | |
| \$1,500 | \$ 469 | \$ 916 | \$1,385 | 92% |
| 2,000 | 625 | 1,055 | 1,680 | 84% |
| 2,500 | 781 | 1,192 | 1,973 | 79% |
| 3,000 | 938 | 1,330 | 2,268 | 76% |
| 3,500 | 1,094 | 1,469 | 2,563 | 73% |
| 4,000 | 1,250 | 1,605 | 2,855 | 71% |
| 15 Years of Service: | | | | |
| \$1,500 | \$281 | \$ 916 | \$1,197 | 80% |
| 2,000 | 375 | 1,055 | 1,430 | 72% |
| 2,500 | 469 | 1,192 | 1,661 | 66% |
| 3,000 | 563 | 1,330 | 1,893 | 63% |
| 3,500 | 656 | 1,469 | 2,125 | 61% |
| 4,000 | 750 | 1,605 | 2,355 | 59% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary (L-7 Benefit Program is Years of Credited Service times: 1.50% of FAS ¹)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | Estimated Social Security ² | Estimated Monthly Total | |
|---|--------------------------------|--|----------------------------|----------|
| | | | \$ | % of FAS |
| 35 Years of Service: | | | | |
| \$1,500 | \$ 788 | \$ 916 | \$1,704 | 114% |
| 2,000 | 1,050 | 1,055 | 2,105 | 105% |
| 2,500 | 1,313 | 1,192 | 2,505 | 100% |
| 3,000 | 1,575 | 1,330 | 2,905 | 97% |
| 3,500 | 1,838 | 1,469 | 3,307 | 94% |
| 4,000 | 2,100 | 1,605 | 3,705 | 93% |
| 25 Years of Service: | | | | |
| \$1,500 | \$ 563 | \$ 916 | \$1,479 | 99% |
| 2,000 | 750 | 1,055 | 1,805 | 90% |
| 2,500 | 938 | 1,192 | 2,130 | 85% |
| 3,000 | 1,125 | 1,330 | 2,455 | 82% |
| 3,500 | 1,313 | 1,469 | 2,782 | 79% |
| 4,000 | 1,500 | 1,605 | 3,105 | 78% |
| 15 Years of Service: | | | | |
| \$1,500 | \$338 | \$ 916 | \$1,254 | 84% |
| 2,000 | 450 | 1,055 | 1,505 | 75% |
| 2,500 | 563 | 1,192 | 1,755 | 70% |
| 3,000 | 675 | 1,330 | 2,005 | 67% |
| 3,500 | 788 | 1,469 | 2,257 | 64% |
| 4,000 | 900 | 1,605 | 2,505 | 63% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-9 Benefit Program is Years of Credited Service
times: 1.60% of FAS ¹)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | Estimated Social Security ² | Estimated Monthly Total | |
|---|--------------------------------|--|----------------------------|----------|
| | | | \$ | % of FAS |
| 35 Years of Service: | | | | |
| \$1,500 | \$ 840 | \$ 916 | \$1,756 | 117% |
| 2,000 | 1,120 | 1,055 | 2,175 | 109% |
| 2,500 | 1,400 | 1,192 | 2,592 | 104% |
| 3,000 | 1,680 | 1,330 | 3,010 | 100% |
| 3,500 | 1,960 | 1,469 | 3,429 | 98% |
| 4,000 | 2,240 | 1,605 | 3,845 | 96% |
| 25 Years of Service: | | | | |
| \$1,500 | \$ 600 | \$ 916 | \$1,516 | 101% |
| 2,000 | 800 | 1,055 | 1,855 | 93% |
| 2,500 | 1,000 | 1,192 | 2,192 | 88% |
| 3,000 | 1,200 | 1,330 | 2,530 | 84% |
| 3,500 | 1,400 | 1,469 | 2,869 | 82% |
| 4,000 | 1,600 | 1,605 | 3,205 | 80% |
| 15 Years of Service: | | | | |
| \$1,500 | \$360 | \$ 916 | \$1,276 | 85% |
| 2,000 | 480 | 1,055 | 1,535 | 77% |
| 2,500 | 600 | 1,192 | 1,792 | 72% |
| 3,000 | 720 | 1,330 | 2,050 | 68% |
| 3,500 | 840 | 1,469 | 2,309 | 66% |
| 4,000 | 960 | 1,605 | 2,565 | 64% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-12 Benefit Program is Years of Credited Service
times: 1.75% of FAS ¹)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | Estimated Social Security ² | Estimated Monthly Total | |
|---|--------------------------------|--|----------------------------|----------|
| | | | \$ | % of FAS |
| 35 Years of Service: | | | | |
| \$1,500 | \$ 919 | \$ 916 | \$1,835 | 122% |
| 2,000 | 1,225 | 1,055 | 2,280 | 114% |
| 2,500 | 1,531 | 1,192 | 2,723 | 109% |
| 3,000 | 1,838 | 1,330 | 3,168 | 106% |
| 3,500 | 2,144 | 1,469 | 3,613 | 103% |
| 4,000 | 2,450 | 1,605 | 4,055 | 101% |
| 25 Years of Service: | | | | |
| \$1,500 | \$ 656 | \$ 916 | \$1,572 | 105% |
| 2,000 | 875 | 1,055 | 1,930 | 97% |
| 2,500 | 1,094 | 1,192 | 2,286 | 91% |
| 3,000 | 1,313 | 1,330 | 2,643 | 88% |
| 3,500 | 1,531 | 1,469 | 3,000 | 86% |
| 4,000 | 1,750 | 1,605 | 3,355 | 84% |
| 15 Years of Service: | | | | |
| \$1,500 | \$ 394 | \$ 916 | \$1,310 | 87% |
| 2,000 | 525 | 1,055 | 1,580 | 79% |
| 2,500 | 656 | 1,192 | 1,848 | 74% |
| 3,000 | 788 | 1,330 | 2,118 | 71% |
| 3,500 | 919 | 1,469 | 2,388 | 68% |
| 4,000 | 1,050 | 1,605 | 2,655 | 66% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary (L-6 Benefit Program is Years of Credited Service times: 2.00% of FAS ¹)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | Estimated Social Security ² | Estimated Monthly Total | |
|---|--------------------------------|--|----------------------------|----------|
| | | | \$ | % of FAS |
| 35 Years of Service: | | | | |
| \$1,500 | \$1,050 | \$ 916 | \$1,966 | 131% |
| 2,000 | 1,400 | 1,055 | 2,455 | 123% |
| 2,500 | 1,750 | 1,192 | 2,942 | 118% |
| 3,000 | 2,100 | 1,330 | 3,430 | 114% |
| 3,500 | 2,450 | 1,469 | 3,919 | 112% |
| 4,000 | 2,800 | 1,605 | 4,405 | 110% |
| 25 Years of Service: | | | | |
| \$1,500 | \$ 750 | \$ 916 | \$1,666 | 111% |
| 2,000 | 1,000 | 1,055 | 2,055 | 103% |
| 2,500 | 1,250 | 1,192 | 2,442 | 98% |
| 3,000 | 1,500 | 1,330 | 2,830 | 94% |
| 3,500 | 1,750 | 1,469 | 3,219 | 92% |
| 4,000 | 2,000 | 1,605 | 3,605 | 90% |
| 15 Years of Service: | | | | |
| \$1,500 | \$ 450 | \$ 916 | \$1,366 | 91% |
| 2,000 | 600 | 1,055 | 1,655 | 83% |
| 2,500 | 750 | 1,192 | 1,942 | 78% |
| 3,000 | 900 | 1,330 | 2,230 | 74% |
| 3,500 | 1,050 | 1,469 | 2,519 | 72% |
| 4,000 | 1,200 | 1,605 | 2,805 | 70% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(L-11 Benefit Program is Years of Credited Service
times: 2.50% of FAS ¹)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | Estimated Social Security ² | Estimated Monthly Total | |
|---|--------------------------------|--|----------------------------|----------|
| | | | \$ | % of FAS |
| 35 Years of Service: | | | | |
| \$1,500 | \$1,313 | | \$1,313 | 88% |
| 2,000 | 1,750 | | 1,750 | 88% |
| 2,500 | 2,188 | | 2,188 | 88% |
| 3,000 | 2,625 | | 2,625 | 88% |
| 3,500 | 3,063 | | 3,063 | 88% |
| 4,000 | 3,500 | | 3,500 | 88% |
| 25 Years of Service: | | | | |
| \$1,500 | \$ 938 | | \$ 938 | 63% |
| 2,000 | 1,250 | | 1,250 | 63% |
| 2,500 | 1,563 | | 1,563 | 63% |
| 3,000 | 1,875 | | 1,875 | 63% |
| 3,500 | 2,188 | | 2,188 | 63% |
| 4,000 | 2,500 | | 2,500 | 63% |
| 15 Years of Service: | | | | |
| \$1,500 | \$ 563 | | \$ 563 | 38% |
| 2,000 | 750 | | 750 | 38% |
| 2,500 | 938 | | 938 | 38% |
| 3,000 | 1,125 | | 1,125 | 38% |
| 3,500 | 1,313 | | 1,313 | 38% |
| 4,000 | 1,500 | | 1,500 | 38% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(LT-4(62) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 62)
1.00% of FAS ¹ at age 62)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 62 | At 62 | | To 62 | At 62 | To 62 | At 62 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 525 | \$ 745 | \$1,050 | \$1,270 | 70% | 85% |
| 2,000 | 1,400 | 700 | 858 | 1,400 | 1,558 | 70% | 78% |
| 2,500 | 1,750 | 875 | 969 | 1,750 | 1,844 | 70% | 74% |
| 3,000 | 2,100 | 1,050 | 1,080 | 2,100 | 2,130 | 70% | 71% |
| 3,500 | 2,450 | 1,225 | 1,193 | 2,450 | 2,418 | 70% | 69% |
| 4,000 | 2,800 | 1,400 | 1,303 | 2,800 | 2,703 | 70% | 68% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$ 750 | \$ 375 | \$ 745 | \$ 750 | \$1,120 | 50% | 75% |
| 2,000 | 1,000 | 500 | 858 | 1,000 | 1,358 | 50% | 68% |
| 2,500 | 1,250 | 625 | 969 | 1,250 | 1,594 | 50% | 64% |
| 3,000 | 1,500 | 750 | 1,080 | 1,500 | 1,830 | 50% | 61% |
| 3,500 | 1,750 | 875 | 1,193 | 1,750 | 2,068 | 50% | 59% |
| 4,000 | 2,000 | 1,000 | 1,303 | 2,000 | 2,303 | 50% | 58% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$225 | \$ 745 | \$ 450 | \$ 970 | 30% | 65% |
| 2,000 | 600 | 300 | 858 | 600 | 1,158 | 30% | 58% |
| 2,500 | 750 | 375 | 969 | 750 | 1,344 | 30% | 54% |
| 3,000 | 900 | 450 | 1,080 | 900 | 1,530 | 30% | 51% |
| 3,500 | 1,050 | 525 | 1,193 | 1,050 | 1,718 | 30% | 49% |
| 4,000 | 1,200 | 600 | 1,303 | 1,200 | 1,903 | 30% | 48% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 62 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary (LT-4(65) Benefit Program is Years of Credited Service times: 2.00% of FAS¹ to age 65) 1.00% of FAS¹ at age 65)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 65 | At 65 | | To 65 | At 65 | To 65 | At 65 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 525 | \$ 916 | \$1,050 | \$1,441 | 70% | 96% |
| 2,000 | 1,400 | 700 | 1,055 | 1,400 | 1,755 | 70% | 88% |
| 2,500 | 1,750 | 875 | 1,192 | 1,750 | 2,067 | 70% | 83% |
| 3,000 | 2,100 | 1,050 | 1,330 | 2,100 | 2,380 | 70% | 79% |
| 3,500 | 2,450 | 1,225 | 1,469 | 2,450 | 2,694 | 70% | 77% |
| 4,000 | 2,800 | 1,400 | 1,605 | 2,800 | 3,005 | 70% | 75% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$ 750 | \$ 375 | \$ 916 | \$ 750 | \$1,291 | 50% | 86% |
| 2,000 | 1,000 | 500 | 1,055 | 1,000 | 1,555 | 50% | 78% |
| 2,500 | 1,250 | 625 | 1,192 | 1,250 | 1,817 | 50% | 73% |
| 3,000 | 1,500 | 750 | 1,330 | 1,500 | 2,080 | 50% | 69% |
| 3,500 | 1,750 | 875 | 1,469 | 1,750 | 2,344 | 50% | 67% |
| 4,000 | 2,000 | 1,000 | 1,605 | 2,000 | 2,605 | 50% | 65% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$225 | \$ 916 | \$ 450 | \$1,141 | 30% | 76% |
| 2,000 | 600 | 300 | 1,055 | 600 | 1,355 | 30% | 68% |
| 2,500 | 750 | 375 | 1,192 | 750 | 1,567 | 30% | 63% |
| 3,000 | 900 | 450 | 1,330 | 900 | 1,780 | 30% | 59% |
| 3,500 | 1,050 | 525 | 1,469 | 1,050 | 1,994 | 30% | 57% |
| 4,000 | 1,200 | 600 | 1,605 | 1,200 | 2,205 | 30% | 55% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary (LT-5(62) Benefit Program is Years of Credited Service times: 2.00% of FAS ¹ to age 62) 1.25% of FAS ¹ at age 62)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 62 | At 62 | | To 62 | At 62 | To 62 | At 62 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 656 | \$ 745 | \$1,050 | \$1,401 | 70% | 93% |
| 2,000 | 1,400 | 875 | 858 | 1,400 | 1,733 | 70% | 87% |
| 2,500 | 1,750 | 1,094 | 969 | 1,750 | 2,063 | 70% | 83% |
| 3,000 | 2,100 | 1,313 | 1,080 | 2,100 | 2,393 | 70% | 80% |
| 3,500 | 2,450 | 1,531 | 1,193 | 2,450 | 2,724 | 70% | 78% |
| 4,000 | 2,800 | 1,750 | 1,303 | 2,800 | 3,053 | 70% | 76% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$ 750 | \$ 469 | \$ 745 | \$ 750 | \$1,214 | 50% | 81% |
| 2,000 | 1,000 | 625 | 858 | 1,000 | 1,483 | 50% | 74% |
| 2,500 | 1,250 | 781 | 969 | 1,250 | 1,750 | 50% | 70% |
| 3,000 | 1,500 | 938 | 1,080 | 1,500 | 2,018 | 50% | 67% |
| 3,500 | 1,750 | 1,094 | 1,193 | 1,750 | 2,287 | 50% | 65% |
| 4,000 | 2,000 | 1,250 | 1,303 | 2,000 | 2,553 | 50% | 64% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$281 | \$ 745 | \$ 450 | \$1,026 | 30% | 68% |
| 2,000 | 600 | 375 | 858 | 600 | 1,233 | 30% | 62% |
| 2,500 | 750 | 469 | 969 | 750 | 1,438 | 30% | 58% |
| 3,000 | 900 | 563 | 1,080 | 900 | 1,643 | 30% | 55% |
| 3,500 | 1,050 | 656 | 1,193 | 1,050 | 1,849 | 30% | 53% |
| 4,000 | 1,200 | 750 | 1,303 | 1,200 | 2,053 | 30% | 51% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 62 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary

(LT-5(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS¹ to age 65)
1.25% of FAS¹ at age 65)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 65 | At 65 | | To 65 | At 65 | To 65 | At 65 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 656 | \$ 916 | \$1,050 | \$1,572 | 70% | 105% |
| 2,000 | 1,400 | 875 | 1,055 | 1,400 | 1,930 | 70% | 97% |
| 2,500 | 1,750 | 1,094 | 1,192 | 1,750 | 2,286 | 70% | 91% |
| 3,000 | 2,100 | 1,313 | 1,330 | 2,100 | 2,643 | 70% | 88% |
| 3,500 | 2,450 | 1,531 | 1,469 | 2,450 | 3,000 | 70% | 86% |
| 4,000 | 2,800 | 1,750 | 1,605 | 2,800 | 3,355 | 70% | 84% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$ 750 | \$ 469 | \$ 916 | \$ 750 | \$1,385 | 50% | 92% |
| 2,000 | 1,000 | 625 | 1,055 | 1,000 | 1,680 | 50% | 84% |
| 2,500 | 1,250 | 781 | 1,192 | 1,250 | 1,973 | 50% | 79% |
| 3,000 | 1,500 | 938 | 1,330 | 1,500 | 2,268 | 50% | 76% |
| 3,500 | 1,750 | 1,094 | 1,469 | 1,750 | 2,563 | 50% | 73% |
| 4,000 | 2,000 | 1,250 | 1,605 | 2,000 | 2,855 | 50% | 71% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$281 | \$ 916 | \$ 450 | \$1,197 | 30% | 80% |
| 2,000 | 600 | 375 | 1,055 | 600 | 1,430 | 30% | 72% |
| 2,500 | 750 | 469 | 1,192 | 750 | 1,661 | 30% | 66% |
| 3,000 | 900 | 563 | 1,330 | 900 | 1,893 | 30% | 63% |
| 3,500 | 1,050 | 656 | 1,469 | 1,050 | 2,125 | 30% | 61% |
| 4,000 | 1,200 | 750 | 1,605 | 1,200 | 2,355 | 30% | 59% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary (LT-8(62) Benefit Program is Years of Credited Service times: 2.00% of FAS ¹ to age 62) 1.50% of FAS ¹ at age 62)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 62 | At 62 | | To 62 | At 62 | To 62 | At 62 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 788 | \$ 745 | \$1,050 | \$1,533 | 70% | 102% |
| 2,000 | 1,400 | 1,050 | 858 | 1,400 | 1,908 | 70% | 95% |
| 2,500 | 1,750 | 1,313 | 969 | 1,750 | 2,282 | 70% | 91% |
| 3,000 | 2,100 | 1,575 | 1,080 | 2,100 | 2,655 | 70% | 89% |
| 3,500 | 2,450 | 1,838 | 1,193 | 2,450 | 3,031 | 70% | 87% |
| 4,000 | 2,800 | 2,100 | 1,303 | 2,800 | 3,403 | 70% | 85% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$ 750 | \$ 563 | \$ 745 | \$ 750 | \$1,308 | 50% | 87% |
| 2,000 | 1,000 | 750 | 858 | 1,000 | 1,608 | 50% | 80% |
| 2,500 | 1,250 | 938 | 969 | 1,250 | 1,907 | 50% | 76% |
| 3,000 | 1,500 | 1,125 | 1,080 | 1,500 | 2,205 | 50% | 74% |
| 3,500 | 1,750 | 1,313 | 1,193 | 1,750 | 2,506 | 50% | 72% |
| 4,000 | 2,000 | 1,500 | 1,303 | 2,000 | 2,803 | 50% | 70% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$338 | \$ 745 | \$ 450 | \$1,083 | 30% | 72% |
| 2,000 | 600 | 450 | 858 | 600 | 1,308 | 30% | 65% |
| 2,500 | 750 | 563 | 969 | 750 | 1,532 | 30% | 61% |
| 3,000 | 900 | 675 | 1,080 | 900 | 1,755 | 30% | 59% |
| 3,500 | 1,050 | 788 | 1,193 | 1,050 | 1,981 | 30% | 57% |
| 4,000 | 1,200 | 900 | 1,303 | 1,200 | 2,203 | 30% | 55% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 62 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS
Illustrations of Age and Service Allowance Amounts
For Sample Combinations of Service & Salary
(LT-8(65) Benefit Program is Years of Credited Service
times: 2.00% of FAS ¹ to age 65)
1.50% of FAS ¹ at age 65)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 65 | At 65 | | To 65 | At 65 | To 65 | At 65 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 788 | \$ 916 | \$1,050 | \$1,704 | 70% | 114% |
| 2,000 | 1,400 | 1,050 | 1,055 | 1,400 | 2,105 | 70% | 105% |
| 2,500 | 1,750 | 1,313 | 1,192 | 1,750 | 2,505 | 70% | 100% |
| 3,000 | 2,100 | 1,575 | 1,330 | 2,100 | 2,905 | 70% | 97% |
| 3,500 | 2,450 | 1,838 | 1,469 | 2,450 | 3,307 | 70% | 94% |
| 4,000 | 2,800 | 2,100 | 1,605 | 2,800 | 3,705 | 70% | 93% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$ 750 | \$ 563 | \$ 916 | \$ 750 | \$1,479 | 50% | 99% |
| 2,000 | 1,000 | 750 | 1,055 | 1,000 | 1,805 | 50% | 90% |
| 2,500 | 1,250 | 938 | 1,192 | 1,250 | 2,130 | 50% | 85% |
| 3,000 | 1,500 | 1,125 | 1,330 | 1,500 | 2,455 | 50% | 82% |
| 3,500 | 1,750 | 1,313 | 1,469 | 1,750 | 2,782 | 50% | 79% |
| 4,000 | 2,000 | 1,500 | 1,605 | 2,000 | 3,105 | 50% | 78% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$338 | \$ 916 | \$ 450 | \$1,254 | 30% | 84% |
| 2,000 | 600 | 450 | 1,055 | 600 | 1,505 | 30% | 75% |
| 2,500 | 750 | 563 | 1,192 | 750 | 1,755 | 30% | 70% |
| 3,000 | 900 | 675 | 1,330 | 900 | 2,005 | 30% | 67% |
| 3,500 | 1,050 | 788 | 1,469 | 1,050 | 2,257 | 30% | 64% |
| 4,000 | 1,200 | 900 | 1,605 | 1,200 | 2,505 | 30% | 63% |

¹ "Final Average Salary" means the monthly average of an employee's compensation during the period of 60 consecutive months (or optionally, 36 consecutive months) when they were highest, contained within the last 120 months of Credited Service.

² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

Missouri LAGERS

Illustrations of Age and Service Allowance Amounts For Sample Combinations of Service & Salary (LT-10(65) Benefit Program is Years of Credited Service times: 2.00% of FAS ¹ to age 65) 1.60% of FAS ¹ at age 65)

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 65 | At 65 | | To 65 | At 65 | To 65 | At 65 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 840 | \$ 916 | \$1,050 | \$1,756 | 70% | 117% |
| 2,000 | 1,400 | 1,120 | 1,055 | 1,400 | 2,175 | 70% | 109% |
| 2,500 | 1,750 | 1,400 | 1,192 | 1,750 | 2,592 | 70% | 104% |
| 3,000 | 2,100 | 1,680 | 1,330 | 2,100 | 3,010 | 70% | 100% |
| 3,500 | 2,450 | 1,960 | 1,469 | 2,450 | 3,429 | 70% | 98% |
| 4,000 | 2,800 | 2,240 | 1,605 | 2,800 | 3,845 | 70% | 96% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$750 | \$ 600 | \$ 916 | \$ 750 | \$1,516 | 50% | 101% |
| 2,000 | 1,000 | 800 | 1,055 | 1,000 | 1,855 | 50% | 93% |
| 2,500 | 1,250 | 1,000 | 1,192 | 1,250 | 2,192 | 50% | 88% |
| 3,000 | 1,500 | 1,200 | 1,330 | 1,500 | 2,530 | 50% | 84% |
| 3,500 | 1,750 | 1,400 | 1,469 | 1,750 | 2,869 | 50% | 82% |
| 4,000 | 2,000 | 1,600 | 1,605 | 2,000 | 3,205 | 50% | 80% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$360 | \$ 916 | \$ 450 | \$1,276 | 30% | 85% |
| 2,000 | 600 | 480 | 1,055 | 600 | 1,535 | 30% | 77% |
| 2,500 | 750 | 600 | 1,192 | 750 | 1,792 | 30% | 72% |
| 3,000 | 900 | 720 | 1,330 | 900 | 2,050 | 30% | 68% |
| 3,500 | 1,050 | 840 | 1,469 | 1,050 | 2,309 | 30% | 66% |
| 4,000 | 1,200 | 960 | 1,605 | 1,200 | 2,565 | 30% | 64% |

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² "Estimated Social Security" means, for an employee covered by Social Security, an employee's estimated OASDI retirement benefit. The benefit is based upon an estimated "average indexed monthly earnings" for an employee retiring at age 65 in 2021 - it does not include any amounts which might be payable to an eligible spouse or children.

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

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

| Final Average Salary (FAS) ¹ | LAGERS BENEFIT ³ | | Estimated Social Security ² | Estimated Monthly Total | | Percent of FAS | |
|---|--------------------------------|--------|--|----------------------------|---------|-------------------|-------|
| | To 65 | At 65 | | To 65 | At 65 | To 65 | At 65 |
| 35 Years of Service: | | | | | | | |
| \$1,500 | \$1,050 | \$ 919 | \$ 916 | \$1,050 | \$1,835 | 70% | 122% |
| 2,000 | 1,400 | 1,225 | 1,055 | 1,400 | 2,280 | 70% | 114% |
| 2,500 | 1,750 | 1,531 | 1,192 | 1,750 | 2,723 | 70% | 109% |
| 3,000 | 2,100 | 1,838 | 1,330 | 2,100 | 3,168 | 70% | 106% |
| 3,500 | 2,450 | 2,144 | 1,469 | 2,450 | 3,613 | 70% | 103% |
| 4,000 | 2,800 | 2,450 | 1,605 | 2,800 | 4,055 | 70% | 101% |
| 25 Years of Service: | | | | | | | |
| \$1,500 | \$ 750 | \$ 656 | \$ 916 | \$ 750 | \$1,572 | 50% | 105% |
| 2,000 | 1,000 | 875 | 1,055 | 1,000 | 1,930 | 50% | 97% |
| 2,500 | 1,250 | 1,094 | 1,192 | 1,250 | 2,286 | 50% | 91% |
| 3,000 | 1,500 | 1,313 | 1,330 | 1,500 | 2,643 | 50% | 88% |
| 3,500 | 1,750 | 1,531 | 1,469 | 1,750 | 3,000 | 50% | 86% |
| 4,000 | 2,000 | 1,750 | 1,605 | 2,000 | 3,355 | 50% | 84% |
| 15 Years of Service: | | | | | | | |
| \$1,500 | \$ 450 | \$ 394 | \$ 916 | \$ 450 | \$1,310 | 30% | 87% |
| 2,000 | 600 | 525 | 1,055 | 600 | 1,580 | 30% | 79% |
| 2,500 | 750 | 656 | 1,192 | 750 | 1,848 | 30% | 74% |
| 3,000 | 900 | 788 | 1,330 | 900 | 2,118 | 30% | 71% |
| 3,500 | 1,050 | 919 | 1,469 | 1,050 | 2,388 | 30% | 68% |
| 4,000 | 1,200 | 1,050 | 1,605 | 1,200 | 2,655 | 30% | 66% |

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



July 27, 2021 E-mail

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

Dear Bob:

Enclosed is the report of the February 28, 2021 Supplemental Actuarial Valuation of LAGERS benefits for the employees of:

The City of Moscow Mills

Sincerely,

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

Mita D. Drazilov, ASA, FCA, MAAA

MDD:rmg
Enclosure