

The experience and dedication you deserve



Report on the Annual Valuation of the Supplemental Legislative Retirement Plan of Mississippi

Prepared as of June 30, 2021





The experience and dedication you deserve

December 8, 2021

Board of Trustees Public Employees' Retirement System of Mississippi 429 Mississippi Street Jackson, MS 39201-1005

Ladies and Gentlemen:

Presented in this report are the results of the <u>annual actuarial valuation</u> of the Supplemental Legislative Retirement Plan of Mississippi. The purpose of the valuation was to measure the Plan's funding progress and to determine the unfunded actuarial accrued liability amortization period beginning July 1, 2021. The results may not be applicable for other purposes.

The date of the valuation was June 30, 2021.

The valuation was based upon data, furnished by the Executive Director and the PERS staff, concerning active, inactive, and retired members along with pertinent financial information. While not verifying data at the source, the actuary performed tests for consistency and reasonableness. The complete cooperation of the PERS staff in furnishing materials requested is hereby acknowledged with appreciation.

<u>Your attention is directed particularly</u> to the presentation of results on page 1 and the comments on page 9.

Since the previous valuation, the Board adopted new actuarial assumptions based on the experience investigation for the four-year period ending June 30, 2020. The results of this study were presented to the Board in April, 2021 and the Board adopted the demographic assumption recommendations with regard to the rates of mortality, retirement, and withdrawal and adopted the economic assumption recommendations with regards to the investment return, price inflation, and wage inflation assumptions at its August, 2021 meeting. The complete list of new actuarial assumption changes is shown on page 2 of this report.

To the best of our knowledge, this report is complete and accurate. The valuation was performed by, and under the supervision of, independent actuaries who are members of the American Academy of Actuaries with experience in performing valuations for public retirement systems. The undersigned meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.



Board of Trustees December 8, 2021 Page 2

The valuation was prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board. We have reviewed the actuarial methods, including the asset valuation method, and continue to believe they are appropriate for the purpose of determining employer contribution levels.

Future actuarial results may differ significantly from the current results 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; 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. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

In order to prepare the results in this report we have utilized appropriate actuarial models that were developed for this purpose. These models use assumptions about future contingent events along with recognized actuarial approaches to develop the needed results.

We note that as we are preparing this report, the world is in the midst of a pandemic. We have considered available information, but do not believe that there is yet sufficient data to warrant the modification of any of our assumptions. We will continue to monitor the situation and advise the Board in the future of any adjustments that we believe would be appropriate due to the pandemic

This actuarial valuation was performed to determine the adequacy of statutory contributions to fund the plan. The asset values used to determine unfunded liabilities and funded ratios are not market values but less volatile market related values. A smoothing technique is applied to market values to determine the market related values. The unfunded liability amounts and funded ratios using the market value of assets would be different. The interest rate used for determining liabilities is based on the expected return on assets. Therefore, liability amounts in this report cannot be used to assess a settlement of the obligation.

The actuarial calculations were performed by qualified actuaries according to generally accepted actuarial procedures and methods. The calculations are based on the current provisions of the plan, and on actuarial assumptions that are, in the aggregate, internally consistent and reasonably based on the actual experience of the plan.

Respectfully submitted,

Edward J. Koebel, FCA, EA, MAAA

Edward J. Worbel

Chief Executive Officer

Ben D. Mobley, ASA, FCA, MAAA

Consulting Actuary



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1. This report, prepared as of June 30, 2021, presents the results of the annual actuarial valuation of the Plan. For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized below. The current valuation and reported benefits amount reflect any benefit increases granted to retirees as of July 1, 2021. Based on the funding policy adopted by the Board in 2012, the employer contribution rate is to be set at 7.40% of annual compensation and the amortization period calculated on an open basis.

| VALUATION DATE | | une 30, 2021 | Jı | June 30, 2020 | | |
|---|----|--------------|----|---------------|--|--|
| Investment Return Assumption | | 7.55% | | 7.75% | | |
| Active members included in valuation | | | | | | |
| Number | | 173 | | 171 | | |
| Annual compensation | \$ | 8,029,670 | \$ | 6,890,817 | | |
| Retirees | | | | | | |
| Number | | 233 | | 235 | | |
| Annual allowances | \$ | 1,596,810 | \$ | 1,565,656 | | |
| Assets | | | | | | |
| Market related actuarial value | \$ | 19,980,000 | \$ | 18,472,000 | | |
| Market value | \$ | 22,950,000 | \$ | 17,995,000 | | |
| Unfunded actuarial accrued liability (UAAL) | \$ | 5,422,264 | \$ | 5,012,818 | | |
| Funded Ratio | | 78.7% | | 78.7% | | |
| Employer contribution rate | | | | | | |
| Normal Cost* | | 2.85% | | 2.83% | | |
| Accrued liability | | 4.55 | | 4.57 | | |
| Total | | 7.40% | | 7.40% | | |
| Anticipated accrued liability payment period | | 25.1 years | | 27.7 years | | |
| Unfunded actuarial accrued liability based on | | | | | | |
| Market value of assets | \$ | 2,452,264 | \$ | 5,489,818 | | |
| Funded Ratio | | 90.3% | | 76.6% | | |
| Payment period | | 8.0 years | | 33.6 years | | |

^{*} Includes load for administrative expenses. See Section VI for more contribution rate detail.

2. The valuation balance sheet showing the results of the valuation is given in Section III.





- Comments on the valuation results are given in Section IV, comments on the experience and actuarial gains and losses during the valuation year are given in Section V and the rates of contribution payable by employers are given in Section VI.
- 4. Schedule A of this report presents the development of the actuarial value of assets. The estimated investment return for the plan year ending June 30, 2021 on an actuarial value of assets basis was 12.64%, compared to the assumed rate of return for the period of 7.75%.
- Since the previous valuation, various economic and demographic assumptions have been revised.
 The changes are summarized below and shown in more detail in Schedule B:
 - The expectation of retired life mortality was changed to the PubS.H-2010(B) Retiree Table with the following adjustments:
 - For males, 95% of male rates up to age 60, 110% for ages 61 to 75, and 101% for ages above 77.
 - o For females, 84% of female rates up to age 72 scaled up to 100% for ages above 76.
 - Projection scale MP-2020 will be used to project future improvements in life expectancy generationally.
 - The expectation of contingent life mortality was changed to the PubS.H-2010(B) Contingent Annuitant Table with the following adjustments:
 - For males, 97% of male rates for all ages.
 - o For females, 110% of female rates for all ages.
 - Projection scale MP-2020 will be used to project future improvements in life expectancy generationally.
 - The expectation of disabled mortality was changed to PubG.H-2010 Disabled Retiree Table for disabled retirees with the following adjustments:
 - For males, 134% of male rates at all ages.
 - o For females, 121% of female rates at all ages.
 - Projection scale MP-2020 will be used to project future improvements in life expectancy generationally.
 - The investment rate of return assumption was reduced from 7.75% to 7.55%.
 - The price inflation assumption was reduced from 2.75% to 2.40%.
 - The wage inflation assumption was reduced from 3.00% to 2.65%.
 - Withdrawal rates, pre-retirement mortality rates, and service retirement rates were also adjusted to reflect actual experience more closely.





- 6. Schedule C gives a summary of the benefit and contribution provisions of the plan. There have been no changes since the previous valuation.
- 7. The funding policy for the System was changed in 2012. Under the prior funding policy, the amortization payment for the UAAL was calculated based on a fixed employer contribution rate using a floating amortization period no greater than 30 years. For continuity and informational purposes, we have provided this calculation in Section VII.
- 8. The funded ratio shown in the Summary of Principal Results, is the ratio of actuarial value of assets to the actuarial accrued liability. The funded status would be different based on the market value of assets. The funding ratio is an indication of progress in funding the promised benefits. Since the ratio is less than 100%, there is a need for additional contributions toward the payment of the unfunded accrued liability. In addition, this funding ratio does not have any relationship to measuring the sufficiency if the plan had to settle its liabilities.
- 9. The table on page 4 provides a ten-year history of some pertinent figures.





Comparative Schedule

| | | Active Members | | | Retired Lives | | | | | luation Results \$ thousands) | ; |
|------------------------------|--------|---------------------------------|-------------------|-------------------------------|---------------|-----------------------------|--------------------------------------|--------------------------------|----------------------|----------------------------------|---------|
| Valuation Date June 30 | Number | Payroll (\$ in thousands) | Average Salary | % increase from previous year | Number | Active/ Retired Ratio | Annual Benefits (\$ thousands) | Benefits as % of Payroll | Accrued Liability | Valuation Assets | UAAL |
| 2012 | 175 | \$6,872 | \$39,267 | 0.3% | 173 | 1.0 | \$1,046.7 | 15.2% | \$19,537 | \$13,268 | \$6,269 |
| 2013 | 175 | 6,695 | 38,259 | (2.6) | 188 | 0.9 | 1,121.4 | 16.7 | 19,978 | 13,554 | 6,424 |
| 2014 | 175 | 6,918 | 39,531 | 3.3 | 187 | 0.9 | 1,139.5 | 16.5 | 20,240 | 14,899 | 5,341 |
| 2015 | 174 | 6,861 | 39,432 | (0.3) | 185 | 0.9 | 1,133.6 | 16.5 | 21,213 | 16,098 | 5,115 |
| 2016 | 171 | 6,862 | 40,130 | 1.8 | 207 | 0.8 | 1,277.8 | 18.6 | 21,259 | 16,447 | 4,812 |
| 2017 | 174 | 6,928 | 39,817 | (8.0) | 205 | 0.8 | 1,279.5 | 18.5 | 21,849 | 17,208 | 4,641 |
| 2018 | 174 | 6,833 | 39,270 | (1.4) | 207 | 0.8 | 1,304.5 | 19.1 | 22,319 | 17,945 | 4,374 |
| 2019 | 170 | 6,937 | 40,806 | 3.9 | 215 | 0.8 | 1,372.9 | 19.8 | 22,934 | 18,428 | 4,506 |
| 2020 | 171 | 6,891 | 40,297 | (1.2) | 235 | 0.7 | 1,565.7 | 22.7 | 23,485 | 18,472 | 5,013 |
| 2021 | 173 | 8,030* | 46,414 | 15.2 | 233 | 0.7 | 1,596.8 | 19.9 | 25,402 | 19,980 | 5,422 |

^{*} Payroll for the fiscal year ending June 30, 2021 was larger than past years due to a longer Legislative session.





Section II: Membership Data

Data regarding the membership of the Plan for use as a basis for the valuation were furnished by the Plan's office. The following tables summarize the membership of the Plan as of June 30, 2021 upon which the valuation was based. Detailed tabulations of the data are given in Schedule D.

Active Members

| | | | | <u>Gro</u> | up Avera | <u>iges</u> |
|----------------|------------------------|--------|-----------------|------------|----------|---------------------|
| Employers | Number of Employers | Number | Payroll | Salary | Age | Benefit Service* |
| State Agencies | 5 | 173 | \$ 8,029,670 | \$46,414 | 55.6 | 9.7 |

^{*} Eligibility service is 14.8 years.

Of the 173 active members, 117 are vested and 56 are non-vested.

Retired Lives

| | | | Group Averages | | |
|-------------------------|-----|-----------------|----------------|------|--|
| Type of Benefit Payment | No. | Annual Benefits | Benefit | Age | |
| Retirement | 186 | \$1,242,055 | \$6,678 | 73.4 | |
| Disability | 1 | 8,646 | 8,646 | 66.5 | |
| Survivor | 46 | 346,109 | 7,524 | 74.8 | |
| Total in SLRP | 233 | \$1,596,810 | \$6,853 | 73.7 | |

Deferred Vested/Inactive Lives

| Type of Member | No. | Deferred Benefits | Outstanding Balance |
|------------------------------------|-----|-------------------|---------------------|
| Deferred Vested – Benefit Included | 33 | \$118,061 | N/A |
| Inactive | 29 | N/A | \$171,943 |
| Total in SLRP | 62 | \$118,061 | \$171,943 |

For the liability in this valuation, deferred vested participants with benefits provided are valued assuming a retirement age of 60 and for inactive members, account balances are multiplied by two to estimate liabilities and interest in the future.





Section III: Valuation Balance Sheet

The following valuation balance sheet shows the assets and liabilities of the retirement plan as of the current valuation date of June 30, 2021 and, for comparison purposes, as of the immediately preceding valuation date of June 30, 2020. The items shown in the balance sheet are present values actuarially determined as of the relevant valuation date. The development of the actuarial value of assets is presented in Schedule A.





Section III: Valuation Balance Sheet

VALUATION BALANCE SHEET SHOWING THE ASSETS AND LIABILITIES OF THE SUPPLEMENTAL LEGISLATIVE RETIREMENT PLAN OF MISSISSIPPI

| | J | JUNE 30, 2021 | | JNE 30, 2020 |
|---|----|---------------|----|--------------|
| ASSETS | | | | |
| Current actuarial value of assets: | | | | |
| Annuity Savings Account | \$ | 2,331,172 | \$ | 2,145,475 |
| Annuity Reserve | | 3,943,744 | | 3,923,992 |
| Employers' Accumulation Account | _ | 13,705,084 | | 12,402,533 |
| Total current assets | \$ | 19,980,000 | \$ | 18,472,000 |
| Future member contributions to Annuity Savings Account | \$ | 1,660,506 | \$ | 1,654,871 |
| Prospective contributions to Employer's Accumulation Account | | | | |
| Normal contributions | \$ | 1,422,500 | \$ | 1,423,189 |
| Unfunded actuarial accrued liability contributions | | 5,422,264 | | 5,012,818 |
| Total prospective contributions | \$ | 6,844,764 | \$ | 6,436,007 |
| Total assets | \$ | 28,485,270 | \$ | 26,562,878 |
| LIABILITIES | 6 | | | |
| Present value of benefits payable on account of present retired members and beneficiaries | \$ | 16,275,129 | \$ | 16,356,108 |
| Present value of benefits payable on account of inactive members for service rendered before the valuation date | | 1,331,692 | | 1,227,402 |
| Present value of benefits payable on account of active members | \$ | 10,878,449 | \$ | 8,979,368 |
| Total liabilities | \$ | 28,485,270 | \$ | 26,562,878 |





Section III: Valuation Balance Sheet

BREAKDOWN OF TOTAL AND ACCRUED LIABILITIES AS OF JUNE 30, 2021

| | Total Liability | | | Accrued Liability |
|--------------------------------------|--------------------|------------|----|----------------------|
| Active Members | | | | |
| Retirement | \$ | 8,816,112 | \$ | 6,879,499 |
| Death | | 525,450 | | 373,695 |
| Disability | | 263,538 | | 94,304 |
| Termination | | 1,273,349 | | 447,945 |
| Total | \$ | 10,878,449 | \$ | 7,795,443 |
| Retirees | | | | |
| Retirement | \$ | 13,307,540 | \$ | 13,307,540 |
| Survivor | | 2,893,319 | | 2,893,319 |
| Disability | | 74,270 | | 74,270 |
| Total | \$ | 16,275,129 | \$ | 16,275,129 |
| Deferred Vested Members | | 987,806 | | 987,806 |
| Inactive Members | | 343,886 | | 343,886 |
| Total Actuarial Values | \$ | 28,485,270 | \$ | 25,402,264 |
| Actuarial Value of Assets | | | | 19,980,000 |
| Unfunded Actuarial Accrued Liability | | | \$ | 5,422,264 |

The total liability is the present value of future benefits for all current members as of the valuation date. The accrued liability is the present value of benefits that have been accrued as of the valuation date. Since all inactive members and retirees have accrued their full benefits, the total liability and accrued liability are the same. For actives, the difference between the total liability and the accrued liability is the present value of all future accruals.





Section IV: Comments on Valuation

The valuation balance sheet gives the following information with respect to the funds of the Plan as of June 30, 2021.

Total Assets

The Annuity Savings Account is the fund to which are credited contributions made by members together with interest thereon. When a member retires, the amount of his or her accumulated contributions is transferred from the Annuity Savings Account to the Annuity Reserve. The Employer's Accumulation Account is the fund to which are credited employer contributions and investment income, and from which are paid all employer-provided benefits under the plan. The assets credited to the Annuity Savings Account as of the valuation date, which represent the accumulated contributions of members to that date, amounted to \$2,331,172. The assets credited to the Annuity Reserve were \$3,943,744 and the assets credited to the Employer's Accumulation Account totaled \$13,705,084. Current actuarial assets as of the valuation date equaled the sum of these three funds, \$19,980,000. Future member contributions to the Annuity Savings Account were valued to be \$1,660,506. Prospective contributions to the Employer's Accumulation Account were calculated to be \$6,844,764 of which \$1,422,500 is attributable to service rendered after the valuation date (normal contributions) and \$5,422,264 is attributable to service rendered before the valuation date (unfunded actuarial accrued liability contributions).

Therefore, the balance sheet shows the present value of current and future assets of the Plan to be \$28,485,270 as of June 30, 2021.

Total Liabilities

The present value of benefits payable on account of presently retired members and beneficiaries totaled \$16,275,129 as of the valuation date. The present value of future benefit payments on behalf of active members amounted to \$10,878,449. In addition, the present value of benefits for inactive members, due to service rendered before the valuation date, was calculated to be \$1,331,692.

Therefore, the balance sheet shows the present value for all prospective benefit payments under the Plan to be \$28,485,270 as of June 30, 2021.

Section 25-11-307(1) of State law requires that active members contribute 3.00% of annual compensation to the Plan.

Section 25-11-307(2) requires that the State contribute a certain percentage of the annual compensation of members to cover the normal contributions and a certain percentage to cover the accrued liability contributions of the Plan. These individual contribution percentages are established in accordance with an actuarial valuation. Based on the funding policy adopted by the Board in October 2012, the employer rate is set at 7.40% of annual compensation and the amortization period calculated on an open basis. Therefore, the amortization period for the June 30, 2021 valuation is 25.1 years, compared to 27.7 years for the previous valuation.

The primary reason for the decrease in the amortization period is the economic and demographic experience of the System, offset by the actuarial assumption changes. See Schedule E for a complete analysis of the Financial Experience.





Section V: Derivation of Experience Gains & Losses

Actual experience will never (except by coincidence) coincide exactly with assumed experience. It is assumed that gains and losses will be in balance over a period of years, but sizable year to year fluctuations are common. Detail on the derivation of the experience gain/(loss) for the years ended June 30, 2021 and June 30, 2020 is shown below.

| | | 1 Valuation housands | 20 Valuation Thousands |
|------|---|-----------------------------|-------------------------------|
| (1) | UAAL* as of beginning of year | \$ 5,012.8 | \$ 4,505.9 |
| (2) | Total normal cost from last valuation | 413.8 | 421.2 |
| (3) | Total contributions | 849.0 | 719.0 |
| (4) | Interest accrual: [[(1) + (2)] x .0775] - [(3) x .03875] | 387.7 | 353.9 |
| (5) | Expected UAAL before changes: (1) + (2) - (3) + (4) | \$ 4,965.3 | \$ 4,562.0 |
| (6) | Change due to plan amendments | 0.0 | 0.0 |
| (7) | Change due to actuarial assumptions or methods | 364.7 | 0.0 |
| (8) | Expected UAAL after changes: (5) + (6) + (7) | \$ 5,330.0 | \$ 4,562.0 |
| (9) | Actual UAAL as of end of year | \$ 5,422.3 | \$ 5,012.8 |
| (10) | Gain/(loss): (8) - (9) | \$ (92.3) | \$ (450.8) |
| (11) | Gain/(loss) as percent of actuarial accrued liabilities at start of year. | (0.4)% | (2.0)% |

^{*}Unfunded actuarial accrued liability.

| Valuation Date June 30 | Actuarial Gain/(Loss) as a % of Beginning Accrued Liabilities |
|------------------------|--|
| 2016 | 1.7% |
| 2017 | 1.9 |
| 2018 | 1.4 |
| 2019 | (0.2) |
| 2020 | (2.0) |
| 2021 | (0.4) |





Section VI: Required Contribution Rates

The valuation balance sheet gives the basis for determining the percentage rates for contributions to be made by employers to the Retirement Plan. The following table shows the rates of contribution payable by employers as determined from the present valuation for the 2022/2023 fiscal year and a comparison to the previous valuation results.

| Contribution for | 2022/2023 Fiscal Year | 2021/2022 Fiscal Year |
|---|-----------------------|-----------------------|
| Normal Cost: | | |
| | 4.4007 | 4.050/ |
| Service retirement benefits | 4.12% | 4.25% |
| Disability benefits | 0.25 | 0.27 |
| Survivor benefits | 0.25 | 0.30 |
| Total | 4.62% | 4.82% |
| Member Contributions: | 3.00% | 3.00% |
| Less future refunds | (0.95) | (0.76) |
| Available for benefits | 2.05% | 2.24% |
| Employer Normal Cost | 2.57% | 2.58% |
| Administrative Expense Load | 0.28% | 0.25% |
| Unfunded Actuarial Accrued Liabilities (25.1 year level % of payroll amortization*) | 4.55% | 4.57% |
| Total Statutory Employer Contribution Rate | 7.40% | 7.40% |

^{*}Amortization period a year ago was 27.7 years.

The current funding policy has set the employer contribution rate to 7.40% of payroll and set the amortization period to open-ended. Thirty-year projections are completed after the valuation to determine if an increase or decrease in the employer contribution rate is warranted according to the triggers set forth in the funding policy. Please see Schedule F for the current funding policy.





Section VI: Required Contribution Rates

The components of the change in the computed unfunded actuarial accrued liability amortization period from 27.7 years to 25.1 years are as follows:

| Previously Reported Period | 27.7 years |
|----------------------------|------------|
| Change due to: | |
| Normal amortization | (1.0) |
| Actuarial experience | (6.0) |
| Assumption changes | 5.1 |
| Plan amendments | 0.0 |
| Contribution experience | (0.7) |
| Computed Period | 25.1 years |





1. The following supplemental disclosure information is provided for informational purposes only. One such item is a distribution of the number of employees by type of membership, as follows:

NUMBER OF ACTIVE AND RETIRED PARTICIPANTS AS OF JUNE 30, 2021

| GROUP | NUMBER |
|---|------------|
| Retired participants and beneficiaries currently receiving benefits | 233 |
| Terminated participants and beneficiaries entitled to benefits but not yet receiving benefits | 62 |
| Active Participants | <u>173</u> |
| Total | 468 |





2. Another such item is the schedule of funding progress as shown below. As can be seen in column 3 of the table below, the funded ratio remained level this year and remains at a healthy level. In addition, the UAAL as a percentage of payroll, shown in column 6, has decreased this valuation after increasing the past two years.

SCHEDULE OF FUNDING PROGRESS

| Plan Year Ended | (1) Actuarial Value of Assets | (2) Actuarial Accrued Liability (AAL) Entry Age | (3) Percent Funded (1)/(2) | (4) Unfunded AAL (2) – (1) | (5) Annual Covered Payroll | (6) Unfunded AAL as a Percentage of Covered Payroll (4)/(5) |
|--------------------|--|--|-------------------------------------|-------------------------------------|-------------------------------------|---|
| 06/30/2012 | \$13,268,000 | \$19,536,604 | 67.9% | \$6,268,604 | \$6,871,757 | 91.2% |
| 06/30/2013# | 13,554,000 | 19,977,584 | 67.8 | 6,423,584 | 6,695,359 | 95.9 |
| 06/30/2014 | 14,899,000 | 20,239,757 | 73.6 | 5,340,757 | 6,917,939 | 77.2 |
| 06/30/2015# | 16,098,000 | 21,213,446 | 75.9 | 5,115,446 | 6,861,166 | 74.6 |
| 06/30/2016 | 16,447,000 | 21,258,800 | 77.4 | 4,811,800 | 6,862,262 | 70.1 |
| 06/30/2017# | 17,208,000 | 21,848,868 | 78.8 | 4,640,868 | 6,928,085 | 67.0 |
| 06/30/2018 | 17,945,000 | 22,318,685 | 80.4 | 4,373,685 | 6,832,961 | 64.0 |
| 06/30/2019# | 18,428,000 | 22,933,853 | 80.4 | 4,505,853 | 6,937,075 | 65.0 |
| 06/30/2020 | 18,472,000 | 23,484,818 | 78.7 | 5,012,818 | 6,890,817 | 72.7 |
| 06/30/2021# | 19,980,000 | 25,402,264 | 78.7 | 5,422,264 | 8,029,670 | 67.5 |

[#] After change in actuarial assumptions.





3. Under the prior funding policy, the amortization payment of the unfunded actuarial accrued liability rate was calculated based on a fixed employer contribution rate using a floating amortization period no greater than 30 years. The calculation of this amount for the past two valuations is shown below for informational purposes only:

| Prior Funding Policy | | | | | | | | | |
|--|-------------|-------------|--|--|--|--|--|--|--|
| Valuation Date June 30 | 2021 | 2020 | | | | | | | |
| Employer contribution rate | | | | | | | | | |
| Normal Cost* | 2.85% | 2.83% | | | | | | | |
| Accrued liability | <u>4.17</u> | <u>4.39</u> | | | | | | | |
| Total | 7.02% | 7.22% | | | | | | | |
| Anticipated accrued liability payment period | 30 years | 30 years | | | | | | | |

^{*} Includes load for administrative expenses. See Section VI for more contribution rate detail.





Solvency Tests (\$ in Thousands)

| | Actuar | ial Accrued Liabilit | Portions of Accrued Liabilities Covered by Assets | | | | |
|-------------------|--|---|---|---|------|-------|------|
| Valuation Date | (1) Accumulated Employee Contributions Including Allocated Investment Earnings | (2) Retirees and Beneficiaries Currently Receiving Benefits | (3) Active and Inactive Members Employer Financed Portion | Net Assets Available for Benefits | (1) | (2) | (3) |
| 6/30/2012 | \$2,105 | \$11,428 | \$6,004 | \$13,268 | 100% | 97.7% | 0.0% |
| 6/30/2013 | 2,416 | 11,909 | 5,652 | 13,554 | 100 | 93.5 | 0.0 |
| 6/30/2014 | 2,638 | 11,920 | 5,682 | 14,899 | 100 | 100.0 | 6.0 |
| 6/30/2015 | 2,862 | 12,329 | 6,023 | 16,098 | 100 | 100.0 | 15.1 |
| 6/30/2016 | 2,485 | 13,758 | 5,016 | 16,447 | 100 | 100.0 | 4.1 |
| 6/30/2017 | 2,636 | 13,799 | 5,414 | 17,208 | 100 | 100.0 | 14.3 |
| 6/30/2018 | 2,693 | 13,840 | 5,786 | 17,945 | 100 | 100.0 | 24.4 |
| 6/30/2019 | 2,701 | 14,282 | 5,951 | 18,428 | 100 | 100.0 | 24.3 |
| 6/30/2020 | 2,145 | 16,356 | 4,984 | 18,472 | 100 | 99.8 | 0.0 |
| 6/30/2021 | 2,331 | 16,275 | 6,796 | 19,980 | 100 | 100.0 | 20.2 |

As can be seen from the table above, the SLRP plan assets currently covers 100% of the active member contribution account balances and 100% of the retiree liability as of the valuation date. However, the remaining assets only cover a small percentage of the employer financed active liabilities.





Schedule of Active Member Valuation Data

| | | | Active Me | mbers | |
|-------------------|------------------------|--------|----------------|--------------------------|------------------------------|
| Valuation Date | Number of Employers | Number | Annual Payroll | Annual Average Pay | % Increase in Average Pay |
| | | | | | |
| 2012 | 5 | 175 | \$6,871,757 | \$39,267 | 0.3% |
| 2013 | 5 | 175 | 6,695,359 | 38,259 | (2.6) |
| 2014 | 5 | 175 | 6,917,939 | 39,531 | 3.3 |
| 2015 | 5 | 174 | 6,861,166 | 39,432 | (0.3) |
| 2016 | 5 | 171 | 6,862,262 | 40,130 | 1.8 |
| 2017 | 5 | 174 | 6,928,085 | 39,817 | (8.0) |
| 2018 | 5 | 174 | 6,832,961 | 39,270 | (1.4) |
| 2019 | 5 | 170 | 6,937,075 | 40,806 | 3.9 |
| 2020 | 5 | 171 | 6,890,817 | 40,297 | (1.2) |
| 2021 | 5 | 173 | 8,029,670 | 46,414 | 15.2 |
| | | | | | |

Schedule of Number of Retirants Added To and Removed From Rolls Last Ten Fiscal Years

| | Fiscal Year Ended June 30 | | | | | | | | | |
|-------------------|---------------------------|------|------|------|------|------|------|------|------|------|
| Item | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
| | | | | | | | | | | |
| Beginning of Year | 147 | 173 | 188 | 187 | 185 | 207 | 205 | 207 | 215 | 235 |
| Added | 33 | 20 | 6 | 8 | 28 | 6 | 6 | 11 | 25 | 3 |
| Removed | (7) | (5) | (7) | (10) | (6) | (8) | (4) | (3) | (5) | (5) |
| | | | | | | | | | | |
| End of Year | 173 | 188 | 187 | 185 | 207 | 205 | 207 | 215 | 235 | 233 |

^{*}See Schedule D for a breakdown by type of retirement.





Schedule of Benefit Payments Added To and Removed From Rolls Last Seven Fiscal Years

| Year Ending | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Beginning of Year | \$1,139,477 | \$1,133,588 | \$1,277,763 | \$1,279,471 | \$1,304,548 | \$1,372,878 | \$1,565,656 |
| Added | 58,303 | 177,207 | 31,300 | 34,983 | 72,406 | 216,379 | 14,393 |
| Removed | (95,910) | (57,546) | (64,321) | (42,480) | (43,651) | (64,124) | (26,951) |
| Benefit increase due to annual COLA | 31,718 | 24,514 | 34,729 | 32,574 | 39,575 | 40,523 | 43,712 |
| Benefit increase due to plan amendments | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| End of Year | \$1,133,588 | \$1,277,763 | \$1,279,471 | \$1,304,548 | \$1,372,878 | \$1,565,656 | \$1,596,810 |





Schedule of Average Benefit Payments

| | | | | Years | of Credited Ser | vice | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-----------------|-------------|----|-------------|-------------|
| | 0-9 | 10-14 | 15-19 | 20-24 | 25 | 26-29 | 30 | 31+ | TOTAL |
| July 1, 2020 to June 30, 2021 | | | | | | | | | |
| Average Monthly Benefit | \$192.21 | | | | | \$815.03 | | | \$399.82 |
| Average Final Salary | \$32,588.76 | | | | | \$44,865.25 | | | \$36,680.92 |
| Number of Active Retirants | 2 | | | | | 1 | | | 3 |
| July 1, 2019 to June 30, 2020 | | | | | | | | | |
| Average Monthly Benefit | \$244.53 | \$334.26 | \$551.15 | \$799.36 | | \$969.20 | | \$713.07 | \$657.06 |
| Average Final Salary | \$36,523.16 | \$40,009.26 | \$32,107.39 | \$39,043.63 | | \$34,675.32 | | \$42,094.84 | \$37,017.34 |
| Number of Active Retirants | 3 | 2 | 5 | 7 | | 4 | | 3 | 24 |
| July 1, 2018 to June 30, 2019 | | | | | | | | | |
| Average Monthly Benefit | \$169.43 | \$372.79 | \$636.97 | \$742.14 | | \$738.58 | | \$960.08 | \$548.53 |
| Average Final Salary | \$24,872.76 | \$42,782.28 | \$42,042.72 | \$42,479.52 | | \$40,654.56 | | \$44,126.04 | \$38,076.62 |
| Number of Active Retirants | 3 | 2 | 1 | 2 | | 1 | | 2 | 11 |
| July 1, 2017 to June 30, 2018 | | | | | | | | | |
| Average Monthly Benefit | \$33.20 | | \$538.18 | \$512.85 | | | | \$1,284.96 | \$485.87 |
| Average Final Salary | \$20,839.50 | | \$40,100.76 | \$41,549.28 | | | | \$41,618.04 | \$27,732.60 |
| Number of Active Retirants | 2 | | 1 | 2 | | | | 1 | 6 |
| July 1, 2016 to June 30, 2017 | | | | | | | | | |
| Average Monthly Benefit | \$180.95 | | \$609.42 | \$452.29 | \$732.45 | | | | \$434.72 |
| Average Final Salary | \$29,821.02 | | \$37,791.24 | \$28,377.72 | \$40,932.00 | | | | \$32,520.12 |
| Number of Active Retirants | 2 | | 1 | 2 | 1 | | | | 6 |





Schedule of Average Benefit Payments

| | | | | Years | of Credited Ser | vice | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-----------------|-------------|----|-------------|-------------|
| | 0-9 | 10-15 | 16-20 | 21-24 | 25 | 26-29 | 30 | 31+ | TOTAL |
| July 1, 2015 to June 30, 2016 | | | | | | | | | |
| Average Monthly Benefit | \$249.59 | \$349.70 | \$486.61 | \$654.27 | \$522.12 | | | \$1,200.33 | \$527.40 |
| Average Final Salary | \$36,599.58 | \$39,877.51 | \$35,210.67 | \$39,774.39 | \$41,482.12 | | | \$42,237.92 | \$38,850.14 |
| Number of Active Retirants | 6 | 6 | 4 | 7 | 2 | | | 3 | 28 |
| July 1, 2014 to June 30, 2015 | | | | | | | | | |
| Average Monthly Benefit | \$163.64 | \$739.53 | \$720.77 | | \$578.67 | | | \$1,032.05 | \$607.33 |
| Average Final Salary | \$18,636.25 | \$68,228.41 | \$37,911.50 | | \$34,790.50 | | | \$42,949.00 | \$40,911.48 |
| Number of Active Retirants | 2 | 2 | 2 | | 1 | | | 1 | 8 |
| July 1, 2013 to June 30, 2014 | | | | | | | | | |
| Average Monthly Benefit | | \$345.04 | \$490.81 | \$472.60 | | \$579.73 | | | \$454.01 |
| Average Final Salary | | \$34,404.37 | \$34,871.00 | \$39,300.75 | | \$43,164.50 | | | \$36,836.00 |
| Number of Active Retirants | | 2 | 2 | 1 | | 1 | | | 6 |
| July 1, 2012 to June 30, 2013 | | | | | | | | | • |
| Average Monthly Benefit | \$168.36 | \$182.74 | \$462.84 | \$550.22 | | \$730.99 | | | \$320.75 |
| Average Final Salary | \$27,924.79 | \$29,576.45 | \$36,139.50 | \$39,580.94 | | \$38,727.25 | | | \$32,325.08 |
| Number of Active Retirants | 6 | 7 | 1 | 4 | | 2 | | | 20 |
| July 1, 2011 to June 30, 2012 | | | | | | | | | |
| Average Monthly Benefit | \$193.84 | \$404.90 | \$429.73 | \$675.67 | | \$731.32 | | \$1,237.30 | \$582.26 |
| Average Final Salary | \$33,827.49 | \$43,765.24 | \$36,045.25 | \$38,900.81 | | \$38,644.58 | | \$57,275.51 | \$41,862.66 |
| Number of Active Retirants | 10 | 6 | 3 | 4 | | 3 | | 7 | 33 |





Section VIII: Risk Assessment

Measuring pension obligations and actuarially determined contributions requires the use of assumptions regarding future economic and demographic experience. Whenever assumptions are made about future events, there is risk that actual experience will differ from expected. Actuarial valuations include the risk that actual future measurements will deviate from expected future measurements due to actual experience that is different than the actuarial assumptions. The primary areas of risk in this actuarial valuation are:

- Investment Risk the potential that investment returns will be different than expected.
- Longevity and Other Demographic Risks the potential that mortality or other demographic experience will be different than expected.
- Interest Rate Risk To the extent market rates of interest affect the expected return on assets, there is a risk of change to the discount rate which determines the present value of liabilities and actuarial valuation results.
- Contribution Risk The potential that actual contributions are different than the actuarially determined contributions.

Annual actuarial valuations are performed for SLRP which re-measure the assets and liabilities and the adequacy of the contribution rate. Actuarial projections are also performed every year with sensitivity testing of several factors. SLRP also has experience studies performed every two years to analyze the discrepancies between actuarial assumptions and actual experience and determine if the actuarial assumptions need to be changed. Annual actuarial valuations and projections and periodic experience studies are practical ways to monitor and reassess risk. The annual projection report will assess many of the risks listed above.





Schedule A: Development of Actuarial Value of Assets

(\$ thousands)

| | Valuation Date June 30: | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|----|---|-------------|-------------|----------|---------|-------|------|
| A. | Actuarial Value Beginning of Year | \$18,428 | \$18,472 | | | | |
| В. | Market Value End of Year | 17,995 | 22,950 | | | | |
| C. | Market Value Beginning of Year | 18,609 | 17,995 | | | | |
| D. | Cash Flow | | | | | | |
| | D1. Contributions | 719 | 849 | | | | |
| | D2. Other Revenue | 0 | 0 | | | | |
| | D3. Benefit Payments | (1,858) | (1,608) | | | | |
| | D4. Refunds | (19) | (6) | | | | |
| | D5. Administrative Expenses | <u>(10)</u> | <u>(12)</u> | | | | |
| | D6. Net | (1,168) | (777) | | | | |
| E. | Investment Income | | | | | | |
| | E1. Market Total: BCD6. | 554 | 5,732 | | | | |
| | E2. Assumed Rate | 7.75% | 7.75% | | | | |
| | E3. Amount for Immediate Recognition | 1,397 | 1,365 | | | | |
| | E4. Amount for Phased-In Recognition | (843) | 4,367 | | | | |
| F. | Phased-In Recognition of Investment Income | | | | | | |
| | F1. Current Year: 0.20*E4. | (169) | 873 | | | | |
| | F2. First Prior Year | (17) | (169) | 873 | | | |
| | F3. Second Prior Year | 19 | (17) | (169) | 873 | | |
| | F4. Third Prior Year | 214 | 19 | (17) | (169) | 873 | |
| | F5. Fourth Prior Year | (232) | 214 | <u> </u> | (17) | (169) | 873 |
| | F6. Total Recognized Investment Gain | (185) | 920 | 706 | 687 | 704 | 873 |
| G. | Actuarial Value End of Year: A. + D6. + E3. + F6. | \$18,472 | \$19,980 | | | | |
| Н. | Difference Between Market & Actuarial Values | \$(477) | \$2,970 | \$2,264 | \$1,577 | \$873 | \$0 |

The Actuarial Valuation of Assets recognizes assumed investment income (line E3) fully each year. Differences between actual and assumed investment income (line E4) are phased in over a closed 5 year period. During periods when investment performance exceeds the assumed rate, Actuarial Value of Assets will tend to be less than market value. During periods when investment performance is less than the assumed rate, Actuarial Value of Assets will tend to be greater than market value. If assumed rates are exactly realized for 4 consecutive years, actuarial value will become equal to market value.





Schedule A: Development of Actuarial Value of Assets

| | Asset Summary June 30, 2021 (\$ in Thousands) | | | | | |
|---|---|-----------------|--|--|--|--|
| | Market Value | Actuarial Value | | | | |
| (1) Assets as of June 30, 2020 | \$17,995 | \$18,472 | | | | |
| (2) Contributions and Misc. Revenue | 849 | 849 | | | | |
| (3) Investment Increment | 5,732 | 2,285 | | | | |
| (4) Benefit Payments | (1,608) | (1,608) | | | | |
| (5) Refunds | (6) | (6) | | | | |
| (6) Administrative Expenses | (12) | (12) | | | | |
| (7) Adjustment | 0 | 0 | | | | |
| (8) Assets as of June 30, 2021 (1)+(2)+(3)+(4)+(5)+(6)+(7) | \$22,950 | \$19,980 | | | | |
| (9) Net Investment Return [2 x (3)]/[(7) + (1) - (3)] | 32.56% | 12.64% | | | | |





Schedule B: Statement of Actuarial Assumptions & Methods

INTEREST RATE: 7.55% per annum, compounded annually (net of investment expenses only). The expected return on assets consists of 2.40% price inflation and 5.15% real rate of return.

SEPARATIONS FROM ACTIVE SERVICE: Representative values of the assumed rates of separation from active service are as follows:

| | Annual Rate of | | | | | | | | | |
|-----|----------------|---------|--------------|--|--|--|--|--|--|--|
| | Death* | | | | | | | | | |
| Age | Male | Female | Disability** | | | | | | | |
| | | | | | | | | | | |
| 20 | 0.0483% | 0.0126% | 0.04% | | | | | | | |
| 25 | 0.0567 | 0.0189 | 0.05 | | | | | | | |
| 30 | 0.0630 | 0.0259 | 0.07 | | | | | | | |
| 35 | 0.0714 | 0.0350 | 0.11 | | | | | | | |
| 40 | 0.0893 | 0.0483 | 0.17 | | | | | | | |
| 45 | 0.1218 | 0.0665 | 0.23 | | | | | | | |
| 50 | 0.1764 | 0.0917 | 0.30 | | | | | | | |
| 55 | 0.2594 | 0.1274 | 0.35 | | | | | | | |
| 60 | 0.3980 | 0.1757 | 0.40 | | | | | | | |
| 65 | 0.6353 | 0.2429 | 0.00 | | | | | | | |
| 70 | 1.1655 | 0.4739 | 0.00 | | | | | | | |
| 75 | 2.1389 | 0.9247 | 0.00 | | | | | | | |

 ^{*} Adjusted Base rates.

WITHDRAWAL AND VESTING: 15% in an election year, 2% in a non-election year.

SERVICE RETIREMENT: 30% in an election year, 2.5% in a non-election year. All members are assumed to retire no later than age 80.

It is assumed that a member will be granted 2.5 years of service credit for unused leave at termination of employment.

SALARY INCREASES: 2.65% per annum, for all ages.



^{** 93%} are presumed to be non-duty related, and 7% are assumed to be duty related.



Schedule B: Statement of Actuarial Assumptions & Methods

DEATH AFTER RETIREMENT:

Service Retirees*

Membership Table Adjustment to Rates Projection Scale

Male: 95% up to age 60, 110% for ages 61 to 75, and

PubS.H-2010(B) Retiree 101% for ages above 77 MP-2020

Female: 84% up to age 72, 100% for ages above 76

Contingent Annuitants*

Membership Table Adjustment to Rates Projection Scale

PubS.H-2010(B) Male: 97% for all ages
Contingent Annuitant Female: 110% for all ages

Disabled Retirees*

Membership Table Adjustment to Rates Projection Scale

PubG.H-2010 Disabled

Male: 134% for all ages

Female: 121% for all ages

MP-2020

^{*} Please note that none of the recommended tables have any setbacks or setforwards. Representative values of the assumed rates of death after retirement are as follows:

| | Rates of Death After Retirement* | | | | | | |
|-----|----------------------------------|----------|-----------------------|----------|-------------------|----------|--|
| | Service Retirees | | Contingent Annuitants | | Disabled Retirees | | |
| AGE | Male | Female | Male | Female | Male | Female | |
| 45 | 0.2983% | 0.0983% | 0.7692% | 0.5104% | 1.4660% | 1.1919% | |
| 50 | 0.4190% | 0.1638% | 0.8837% | 0.6556% | 2.2780% | 1.7956% | |
| 55 | 0.5197% | 0.2738% | 1.0156% | 0.7843% | 2.9855% | 2.1078% | |
| 60 | 0.7771% | 0.4578% | 1.2397% | 1.0131% | 3.6475% | 2.4684% | |
| 65 | 1.3211% | 0.7652% | 1.6286% | 1.4157% | 4.5426% | 2.9730% | |
| 70 | 2.1758% | 1.2785% | 2.4153% | 1.9998% | 5.8129% | 3.8127% | |
| 75 | 3.8566% | 2.3659% | 3.7209% | 3.0052% | 7.6661% | 5.2683% | |
| 80 | 6.2640% | 4.2530% | 5.7734% | 4.7289% | 10.8125% | 7.7779% | |
| 85 | 11.0605% | 7.3240% | 9.2228% | 7.8562% | 15.7785% | 11.9947% | |
| 90 | 17.6902% | 12.6470% | 14.6577% | 13.4530% | 22.7224% | 17.5353% | |

^{*}Adjusted Base Rates





Schedule B: Statement of Actuarial Assumptions & Methods

PAYROLL GROWTH: 2.65% per annum, compounded annually.

ADMINISTRATIVE EXPENSES: 0.28% of payroll.

TIMING OF DECREMENTS AND PAY INCREASES: Middle of Year.

ASSUMED INTEREST RATE ON EMPLOYEE CONTRIBUTIONS: 2.00%

MARRIAGE ASSUMPTION: 85% married with the husband three years older than his wife.

ASSET VALUATION METHOD: Actuarial value, as developed in Schedule A. The actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected market value of assets, based on the assumed valuation rate of return. The amount recognized each year is 20% of the difference between market value and expected market value.

MAXIMUM COVERED EARNINGS ASSUMPTION GROWTH: 2.65%

MODIFIED CASH REFUND: Benefits were valued with a six-year certain period for retirees and a five year certain period for active members to estimate the value of the modified cash refund feature.

VALUATION METHOD: The valuation is prepared on the projected benefit basis, which is used to determine the present value of each member's expected benefit payable at retirement, disability, or death. The calculations are based on the member's age, years of service, sex, compensation, expected future salary increases, and an assumed future interest earnings rate (currently 7.55%). The calculations consider the probability of a member's death or termination of employment prior to becoming eligible for a benefit and the probability of the member terminating with a service, disability, or survivor's benefit. The present value of the expected benefits payable to active members is added to the present value of the expected future payments to current benefit recipients to obtain the present value of all expected benefits payable to the present group of members and survivors.

The employer contributions required to support the benefits of SLRP are determined following a level funding approach and consist of a normal contribution and an accrued liability contribution.

The normal contribution is determined using the "entry age normal" method. Under this method, a calculation is made for pension benefits to determine the uniform and constant percentage rate of employer contribution which, if applied to the compensation of the average new member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his behalf.

The unfunded actuarial accrued liability is determined by subtracting the current assets and the present value of prospective employer normal contributions and member contributions from the present value of expected benefits to be paid from the SLRP. The accrued liability contribution amortizes the balance of the unfunded actuarial accrued liability over a period of years from the valuation date.





The following summary presents the main benefit and contribution provisions of the Plan in effect June 30, 2021 as interpreted in preparing the actuarial valuation.

DEFINITIONS

| Average Compensation | Average annual | covered earnings | of an | employee | during t | he four |
|----------------------|----------------|------------------|-------|----------|----------|---------|
|----------------------|----------------|------------------|-------|----------|----------|---------|

highest years of service. To determine your four highest years, PERS

considers these scenarios:

Four highest fiscal years of earned compensation;

Four highest calendar years of earned compensation;

 Combination of four highest fiscal and calendar years of earned compensation that do not overlap; or

Final 48 months of earned compensation prior to termination

of employment.

Covered Earnings Gross salary not in excess of the maximum amount on which

contributions were required.

Fiscal Year Year commencing on July 1 and ending June 30.

Eligibility Service Service while a contributing member of PERS plus additional

service as described below. (OLD: Eligibility service" is all service

in PERS, including that credited for SLRP service.)

Credited Service Service while a contributing member of SLRP plus additional

service as described below. (OLD: "Creditable service" includes

only SLRP service.)

Unused Sick and Vacation Leave Service credit is provided at no charge to members for unused

sick and vacation time that has accrued at the time of retirement. A payment of up to 240 hours of leave may be used the Average

Compensation definition.

Additional Service Additional service credit may be granted for service prior to

July 1, 1989, including active duty military service.

Attribution Attribution period for the normal cost is based on entry into PERS

even for members who first participated in SLRP at a later age

than PERS.





The maximum covered earnings for employers and employees over the last ten years are as follows:

EMPLOYER AND EMPLOYEE RATES OF CONTRIBUTION AND MAXIMUM COVERED EARNINGS

| Fiscal Date From | Fiscal Date To | Employer Rate | Employee Rate | Maximum Covered Earnings |
|---------------------|-------------------|------------------|------------------|--------------------------------|
| | | | | |
| 7/1/2009 | 12/31/2011 | 6.65 | 3.00 | \$245,000 |
| 1/1/2012 | 6/30/2012 | 7.40 | 3.00 | \$245,000 |
| 7/1/2012 | 6/30/2013 | 7.40 | 3.00 | \$250,000 |
| 7/1/2013 | 6/30/2014 | 7.40 | 3.00 | \$255,000 |
| 7/1/2014 | 6/30/2015 | 7.40 | 3.00 | \$260,000 |
| 7/1/2015 | 6/30/2017 | 7.40 | 3.00 | \$265,000 |
| 7/1/2017 | 6/30/2018 | 7.40 | 3.00 | \$270,000 |
| 7/1/2018 | 6/30/2019 | 7.40 | 3.00 | \$275,000 |
| 7/1/2019 | 6/30/2020 | 7.40 | 3.00 | \$280,000 |
| 7/1/2020 | 6/30/2021 | 7.40 | 3.00 | \$285,000 |
| | | | | |





BENEFITS

Superannuation Retirement

Condition for Retirement

- (a) A retirement allowance is paid upon the request of any member who retires and has attained age 60 and completed at least eight years* of membership service under PERS. A retirement allowance may also be paid upon the completion of at least 25 years of creditable service under PERS for members hired prior to July 1, 2011, or upon the completion of 30 years of creditable service for members hired on or after July 1, 2011.
- (b) Any member who withdraws from service prior to his or her attainment of age 60 and who has completed at least eight years* of ,membership service under PERS is entitled to receive, in lieu of a refund of his or her accumulated contributions, a retirement allowance commencing at age 60.

Amount of Allowance

The annual retirement allowance payable to a member who retires under condition (a) above is equal to:

- 1. A member's annuity which is the actuarial equivalent of the member's accumulated contributions at the time of his or her retirement, plus
- An employer's annuity which, together with the member's annuity, is equal to 1% of his or her average compensation for each of the first 25 years of creditable service plus 1.25% for each year of creditable service over 25 years.

The minimum allowance is \$60 per year of creditable service.

Disability Retirement

Condition for Retirement

A retirement allowance is paid to a member who is totally and permanently disabled, as determined by the Board of Trustees, and has accumulated eight or more years* of membership service under PERS.

* four years for those who entered PERS before July 1, 2007.





Amount of Allowance

For those who were active members prior to July 1, 1992, and did not elect the benefit structure outlined below, the annual disability retirement allowance payable is equal to a superannuation retirement allowance if the member has attained age 60, otherwise it is equal to a superannuation retirement allowance calculated as follows:

- 1. A member's annuity equal to the actuarial equivalent of his or her accumulated contributions at the time of retirement, plus
- 2. An employer's annuity equal to the amount that would have been payable had the member continued in service to age 60.

For those who become active members after June 30, 1992, and for those who were active members prior to July 1, 1992, who so elected, the following benefits are payable:

 A temporary allowance equal to the greater of (a) 20% of average compensation plus 5% for each dependent child up to a maximum of 2, or (b) the member's accrued allowance. This temporary allowance is paid for a period of time based on the member's age at disability, as follows:

| Age at Disability | <u>Duration</u> |
|-------------------|-----------------|
| 60 and earlier | to age 65 |
| 61 | to age 66 |
| 62 | to age 66 |
| 63 | to age 67 |
| 64 | to age 67 |
| 65 | to age 68 |
| 66 | to age 68 |
| 67 | to age 69 |
| 68 | to age 70 |
| 69 and later | one year |

The minimum allowance is \$60 per year of service credit.

 A deferred allowance commencing when the temporary allowance ceases equal to the greater of (a) the allowance the member would have received based on service to the termination age of the temporary allowance, but not more than 20% of average compensation, or (b) the member's accrued allowance.

The minimum allowance is \$60 per year of service credit.





Effective July 1, 2004, a temporary benefit can be paid out of a member's accumulated contribution balance while the member is awaiting a determination for eligibility for disability benefits. Future disability payments, if any, would be offset by advanced payments made from the member's accumulated contributions.

Accidental Disability Retirement

Condition for Retirement A retirement allowance is paid to a member who is totally

and permanently disabled in the line of performance of

duty.

Amount of Allowance The annual accidental disability retirement allowance is equal to the allowance payable on disability retirement but

not less than 25% of average compensation. There is no

minimum benefit.

Accidental Death Benefit

Condition for Benefit A retirement allowance is paid to a spouse and/or

dependent children upon the death of an active member

in the line of performance of duty.

Amount of Allowance

The annual retirement allowance is equal to 25% of average compensation payable to the spouse and 12-1/2% of average compensation payable to one dependent child or 25% to two or more children until age

19 (23 if a full time student). There is no minimum benefit.

Ordinary Death Benefit

Condition for Benefit

Upon the death of a member who has completed at least eight years* of membership service, a benefit is payable, in lieu of a refund of the member's accumulated contributions, to his or her spouse, if said spouse has been married to the member for not less than one year.

* four years for those who entered the system before July 1, 2007.

Amount of Allowance

The annual retirement allowance payable to the lawful spouse of a vested member who dies is equal to the greater of (i) the allowance that would have been payable had the member retired and elected Option 2, reduced by an actuarially determined factor based on the number of years the member lacked in qualifying for unreduced benefits, or (ii) a lifetime benefit equal to 20% of the deceased member's average compensation, but not less than \$25 per month.





In addition, a benefit is payable to dependent children until age 19 (23 if a full time student). The benefit is equal to the greater of 5% of average compensation or \$25 per month for each dependent child up to 3.

Return of Contributions

Upon the withdrawal of a member without a retirement benefit, his or her contributions are returned to him or her, together with accumulated regular interest thereon.

Upon the death of a member before retirement, his or her contributions, together with the full accumulated regular interest thereon, are paid to his or her designated beneficiary, if any, otherwise, to his or her estate provided no other survivor benefits are payable.

Effective July 1, 2016, the interest rate on employee contributions shall be calculated based on the money market rate as published by the Wall Street Journal on December 31 of each preceding year with a minimum rate of one percent and a maximum rate of five percent.

Normal Form of Benefit

The normal form of benefit is an allowance payable during the life of the member with the provision that upon his or her death the excess of his or her total contributions at the time of retirement over the total retirement annuity paid to him or her will be paid to his or her designated beneficiary.

Optional Benefits

A member upon retirement may elect to receive his or her allowance in one of the following forms which are computed to be actuarially equivalent to the applicable retirement allowance.

Option 1. Reduced allowance with the provision that if the pensioner dies before he receives the value of the member's annuity as it was at the time of retirement, the balance shall be paid to his or her beneficiary.

Option 2. Upon his or her death, his or her reduced retirement allowance shall be continued throughout the life of, and paid to, his or her beneficiary.

Option 3. Upon his or her death, 50% of his or her reduced retirement allowance shall be continued throughout the life of, and paid to, a designated beneficiary and the other 50% of his or her reduced retirement allowance to some other designated beneficiary.

Option 4. Upon his or her death, 75% of his or her reduced retirement allowance shall be continued throughout the life of, and paid to, a designated beneficiary.





Schedule C: Summary of Main Benefit & Contribution Provisions

Option 4A. Upon his or her death, 50% of his or her reduced retirement allowance shall be continued throughout the life of, and paid to, a designated beneficiary.

Option 4B. A reduced retirement allowance shall be continued throughout the life of the pensioner, but with the further guarantee of payment to the pensioner or his or her beneficiary for a specified number of years certain.

Option 4C. A member may elect any option with the added provision that the member shall receive, so far as possible, the same total amount annually (considering both SLRP and Social Security benefits) before and after the earliest age at which the member becomes eligible for a Social Security benefit. This option was only available to those who retired prior to July 1, 2004.

A member who elects Option 2, Option 4 or Option 4A at retirement may revert to the normal form of benefit if the designated beneficiary predeceases the retired member or if the member divorces the designated beneficiary.

A member who elects the normal form of benefit or Option 1 at retirement may select Option 2, Option 4 or Option 4A to provide beneficiary protection to a new spouse if married at retirement.

A member who has at least 28 years of creditable service* under PERS can select a partial lump-sum option at retirement. Under this option, the retiree has the option of taking a partial lump-sum distribution equal to either 12, 24, or 36 times the base maximum monthly benefit. With each lump-sum amount, the base maximum monthly benefit will be actuarially reduced. A member selecting the partial lump-sum option may also select any of the regular options except Option 1, the prorated single-life annuity, and Option 4-C, the Social Security leveling provision. The benefit is then calculated using the new reduced maximum benefit as a starting point in applying the appropriate option factors for the reduction.

*or at least age 63 with four years of membership service for those who entered PERS before July 1, 2007.

Post-Retirement Adjustments In Allowances

The allowances of retired members are adjusted annually by an amount equal to (a) 3% of the annual retirement allowance for each full fiscal year of retirement prior to the year in which the member reaches age 55, plus (b) 3% compounded for each year thereafter beginning with the fiscal year in which the member turns age 55.





Schedule C: Summary of Main Benefit & Contribution Provisions

A prorated portion of the annual adjustment will be paid to the member, beneficiary, or estate of any member or beneficiary who is receiving the annual adjustment in a lump sum, but whose benefits are terminated between July 1 and December 1.

CONTRIBUTIONS

Members currently contribute 3.00% of covered earnings. The employer contributes 7.40% of covered earnings.





RECONCILIATION OF DATA RECEIVED FROM PERS

| Reconciliation of | | Active File | | | | | |
|---|------------|-------------|--------------------|----------|-----------|-----------|-------------|
| Data received from PERS | Active | Inactive | Deferred Vested | Retirees | Disableds | Survivors | Total |
| From PERS | 178 | 29 | 33 | 193 | 1 | 48 | 482 |
| Refunded Deceased Certain Period End Inactive | (1) | | | (8) | | (2) | (1) (10) |
| Duplicate* Retired | (3) (1) | | | 1 | | | (3) |
| For Valuation | 173 | 29 | 33 | 186 | 1 | 46 | 468 |

^{*}Also included in Pensioner File

STATUS RECONCILIATION FROM 2020 TO 2021

| | Actives | Retirees | Disableds | Survivors | Deferred Vested | Inactive | Total |
|---|------------|----------|-----------|-----------|--------------------|----------|------------|
| As of June 30, 2020 | 171 | 191 | 1 | 43 | 29 | 33 | 468 |
| Retirement Disabled Death with Survivor | (1) | 3 (5) | | 5 | (2) | | |
| Terminated Def Vest Terminated NonVest Rehired | (1) (2) | (6) | | | 10 (4) | (9) 6 | |
| Refunded Death No Survivor Benefit Ended Removed/Cleanup | | (3) | | (2) | | (1) | (1) (5) |
| New | 6 | | | | | | 6 |
| As of June 30, 2021 | 173 | 186 | 1 | 46 | 33 | 29 | 468 |





Retirants & Beneficiaries as of June 30, 2021

Tabulated by Year of Retirement

| Valuation Year of Retirement Ending June 30 | No. | Total Annual Benefits, excluding COLA | COLA | Total Annual Benefits | Average Monthly Total Benefit |
|---|-----|---|-----------|--------------------------|-------------------------------------|
| 2021 | 5 | \$27,933 | \$0 | \$27,933 | \$466 |
| 2020 | 26 | 210,112 | 3,932 | 214,044 | 686 |
| 2019 | 7 | 41,467 | 1,469 | 42,936 | 511 |
| 2018 | 6 | 30,647 | 2,365 | 33,012 | 459 |
| 2017 | 7 | 37,149 | 3,992 | 41,141 | 490 |
| 2016 | 23 | 152,794 | 18,936 | 171,730 | 622 |
| 2015 | 4 | 35,146 | 5,644 | 40,790 | 850 |
| 2014 | 5 | 21,980 | 4,718 | 26,698 | 445 |
| 2013 | 16 | 62,958 | 14,422 | 77,380 | 403 |
| 2012 | 29 | 179,630 | 46,735 | 226,365 | 650 |
| 2011 | 3 | 5,193 | 1,686 | 6,879 | 191 |
| 2010 | 4 | 18,656 | 6,367 | 25,023 | 521 |
| 2009 | 5 | 25,467 | 9,785 | 35,252 | 588 |
| 2008 | 15 | 67,656 | 28,401 | 96,057 | 534 |
| 2007 | 1 | 4,417 | 2,070 | 6,487 | 541 |
| 2006 | 6 | 21,944 | 11,505 | 33,449 | 465 |
| 2005 | 5 | 15,970 | 8,803 | 24,773 | 413 |
| 2004 | 16 | 77,865 | 47,782 | 125,647 | 654 |
| 2003 | 0 | 0 | 0 | 0 | 0 |
| 2002 | 3 | 9,092 | 6,057 | 15,149 | 421 |
| 2001 | 8 | 23,099 | 17,987 | 41,086 | 428 |
| 2000 | 9 | 40,042 | 31,651 | 71,693 | 664 |
| 1999 | 5 | 25,692 | 21,744 | 47,436 | 791 |
| 1998 | 2 | 4,590 | 3,951 | 8,541 | 356 |
| 1997 | 3 | 9,560 | 8,728 | 18,288 | 508 |
| 1996 | 4 | 8,061 | 8,325 | 16,386 | 341 |
| 1995 | 1 | 1,058 | 1,158 | 2,216 | 185 |
| 1994 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 6 | 19,383 | 22,597 | 41,980 | 583 |
| 1992 | 8 | 32,308 | 40,784 | 73,092 | 761 |
| 1991 | 0 | 0 | 0 | 0 | 0 |
| 1990 | 1 | 2,203 | 3,144 | 5,347 | 446 |
| TOTAL | 233 | \$1,212,072 | \$384,738 | \$1,596,810 | \$571 |





Schedule of Retired Members by Type of Retirement

Benefits Payable June 30, 2021

| Amount of Original Monthly Benefit | Number of Rets. | Ret Type 1* | Ret Type 2* | Ret Type 3* |
|--|-----------------|----------------|----------------|----------------|
| \$1 – \$100 | 15 | 14 | | 1 |
| 101 – 200 | 33 | 28 | | 5 |
| 201 – 300 | 38 | 34 | | 4 |
| 301 – 400 | 46 | 34 | | 12 |
| 401 – 500 | 28 | 17 | 1 | 10 |
| 501 – 600 | 15 | 8 | | 7 |
| 601 – 700 | 19 | 17 | | 2 |
| 701 – 800 | 11 | 9 | | 2 |
| 801 – 900 | 9 | 8 | | 1 |
| 901 – 1,000 | 8 | 8 | | |
| Over 1,000 | 11 | 9 | | 2 |
| Totals | 233 | 186 | 1 | 46 |

*Type of Retirement

- 1 Retirement for Age & Service
- 2 Disability Retirement
- 3 Survivor Payment





Schedule of Retired Members by Type of Option Benefits Payable June 30, 2021

| Amount of Original Monthly Benefit | Number of Rets. | Life | Option 1 | Option 2 | Option 3 | Option 4 | Option 4A | Option 4B | Option 4C* | PLSO* 1 Year | PLSO* 2 Years | PLSO* 3 Years |
|--|-----------------|------|-------------|-------------|-------------|-------------|--------------|--------------|---------------|-----------------|------------------|------------------|
| \$1 – \$100 | 15 | 6 | | 6 | | | | 3 | 1 | | | 1 |
| 101 – 200 | 33 | 14 | 1 | 16 | | 1 | | 1 | | | | 5 |
| 201 – 300 | 38 | 15 | 1 | 14 | 2 | 1 | 3 | 2 | | 1 | | 2 |
| 301 – 400 | 46 | 24 | 1 | 11 | | | 3 | 7 | | 2 | | 8 |
| 401 – 500 | 28 | 13 | 1 | 8 | 2 | | 1 | 3 | | 1 | 2 | 6 |
| 501 – 600 | 15 | 5 | | 4 | 3 | | 1 | 2 | | | 1 | 6 |
| 601 – 700 | 19 | 9 | | 8 | | | 1 | 1 | | | 2 | 2 |
| 701 – 800 | 11 | 5 | | 5 | | 1 | | | | 1 | 1 | 2 |
| 801 – 900 | 9 | 5 | | 2 | | 1 | 1 | | | | | 3 |
| 901 – 1,000 | 8 | 2 | 1 | 3 | | | | 2 | | | 1 | 2 |
| Over 1,000 | 11 | 6 | | 2 | | 1 | 1 | 1 | | 2 | 1 | 3 |
| Totals | 233 | 104 | 5 | 79 | 7 | 5 | 11 | 22 | 1 | 7 | 8 | 40 |

Option Selected

Life - Return of Contributions

Opt. 1 - Return of Member's Annuity

Opt. 2 - 100% Survivorship

Opt. 3 - 50%/50% Dual Survivorship

Opt. 4 - 75% Survivorship
Opt. 4A - 50% Survivorship
Opt. 4B - Years Certain & Life
Opt. 4C - Social Security Leveling*

Opt. 5 - Pop-Up

PLSO - Partial Lump Sum* (Reflects reduced monthly benefit)



^{*}Included in other options



Retirant and Beneficiary Information June 30, 2021

| Attained | | Service Retirement | | Retirement | | vors and eficiaries | Total | | |
|--------------------|-----|--------------------|-----|--------------------|-----|------------------------|-------|--------------------|--|
| Age | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | No. | Annual Benefits | |
| Under 20 | | | | | | | | | |
| | | | | | | | | | |
| 20 – 24 | | | | | | | | | |
| 25 – 29 | | | | | | | | | |
| 30 – 34 | | | | | | | | | |
| 35 – 39 | | | | | | | | | |
| | | | | | | | | | |
| 40 – 44 | | | | | | | | | |
| 45 – 49 | | | | | | | | | |
| 50 – 54 | 1 | \$9,072 | | | 4 | \$27,537 | 5 | \$36,609 | |
| 55 – 59 | 8 | \$65,895 | | | 3 | \$30,505 | 11 | \$96,400 | |
| | | | | | | | | | |
| 60 – 64 | 17 | \$92,126 | | | 3 | \$27,209 | 20 | \$119,335 | |
| 65 – 69 | 43 | \$273,049 | 1 | \$8,646 | 3 | \$17,781 | 47 | \$299,476 | |
| 70 – 74 | 43 | \$281,726 | | | 8 | \$58,658 | 51 | \$340,384 | |
| 75 – 79 | 34 | \$236,228 | | | 8 | \$68,211 | 42 | \$304,439 | |
| 80 – 84 | | • | | | _ | | | | |
| 80 – 84 85 – 89 | 23 | \$146,276 | | | 8 | \$50,461 | 31 | \$196,737 | |
| 85 – 89 90 – 94 | 12 | \$91,086 | | | 7 | \$52,537 | 19 | \$143,623 | |
| 90 – 94 | 4 | \$38,301 | | | 2 | \$13,210 | 6 | \$51,511 | |
| 95 | | | | | | | | | |
| 96 | | | | | | | | | |
| 97 | | | | | | | | | |
| 98 | | | | | | | | | |
| 99 | | | | | | | | | |
| | | | | | | | | | |
| 100 & Over | 1 | \$8,296 | | | | | 1 | \$8,296 | |
| Totals | 400 | Ф4 242 055 | 4 | CO.C.40 | 40 | #240.400 | 222 | ¢4 500 040 | |
| Totals | 186 | \$1,242,055 | 1 | \$8,646 | 46 | \$346,109 | 233 | \$1,596,810 | |

Average Age: 73.7 years Average Age at Retirement: 61.9 years





Total Active Member Data as of June 30, 2021 Tabulated by Attained Ages and Years of Service

| Attained | | | | | | | | | | | |
|-------------|----------------------------|--------|--------|----------|----------|----------|----------|----------|-----------|-----|--------------|
| Age | Completed Years of Service | | | | | | | | | | Total |
| | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | 35 & Over | No. | Payroll |
| Under 25 | | | | | | | | | | | \$ - |
| 25 to 29 | | 2 | 1 | | | | | | | 3 | 136,908 |
| 30 to 34 | | 3 | 2 | | | | | | | 5 | 225,152 |
| 35 to 39 | | 4 | 2 | | | | | | | 6 | 264,676 |
| 40 to 44 | 2 | 12 | 8 | 2 | 1 | | | | | 25 | 1,103,895 |
| 45 to 49 | | 7 | 9 | 1 | 2 | 1 | | | | 20 | 927,326 |
| 50 to 54 | 1 | 4 | 16 | 4 | | | | | | 25 | 1,140,852 |
| 55 to 59 | 1 | 8 | 15 | 2 | 2 | 2 | | | | 30 | 1,442,726 |
| 60 to 64 | 1 | 4 | 7 | 3 | 3 | 1 | 2 | | | 21 | 980,825 |
| 65 to 69 | 1 | 1 | 5 | 1 | 2 | | 2 | | 2 | 14 | 648,981 |
| 70 & Over | | 3 | 3 | 6 | 2 | | 6 | | 4 | 24 | 1,158,329 |
| Total Count | 6 | 48 | 68 | 19 | 12 | 4 | 10 | | 6 | 173 | \$ 8,029,670 |

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

Age: 55.6 years
Benefit Service: 9.7 years
Eligibility Service: 14.8 years
Annual Pay: \$46,414





Schedule E: Analysis of Financial Experience

Gains & Losses in Accrued Liabilities Resulting from Difference Between Assumed Experience & Actual Experience (\$ Thousands)

| Type of Activity | \$ Gain (or Loss) For Year Ending 6/30/2021 | \$ Gain (or Loss) For Year Ending 6/30/2020 |
|---|---|---|
| Age & Service Retirements. If members retire at older ages, there is a gain. If younger ages, a loss. | \$ 10.3 | \$ 117.0 |
| Disability Retirements. If disability claims are less than assumed, there is a gain. If more claims, a loss. | 12.8 | 13.3 |
| Death-in Service Benefits. If survivor claims are less than assumed, there is a gain. If more claims, there is a loss. | 10.6 | 12.1 |
| Withdrawal From Employment. If more liabilities are released by withdrawals than assumed, there is a gain. If smaller releases, a loss. | (186.5) | 42.1 |
| Pay Increases. If there are smaller pay increases than assumed, there is a gain. If greater increases, a loss. | (846.9) | 66.5 |
| New Members. Additional unfunded actuarial accrued liability will produce a loss. | (65.1) | (360.4) |
| Investment Income. If there is a greater investment income than assumed, there is a gain. If less income, a loss. | 884.0 | (171.0) |
| Death After Retirement. If retirants live longer than assumed, there is a loss. If not as long, a gain. | 63.1 | (47.1) |
| Other. Miscellaneous gains and losses resulting from data adjustments, timing of financial transactions, etc. | 25.4 | (123.3) |
| Gain (or Loss) During Year From Financial Experience | \$ (92.3) | \$ (450.8) |
| Non-Recurring Items. Adjustments for plan amendments, software changes, assumption changes, or method changes. | (364.7) | 0.0 |
| Composite Gain (or Loss) During Year | <u>\$ (457.0)</u> | <u>\$ (450.8)</u> |





Schedule F: Funding Policy of the SLRP Board of Trustees

The purpose of the funding policy is to state the overall funding goals for the System, the benchmarks that will be used to measure progress in achieving those goals, and the methods and assumptions that will be employed to develop the benchmarks. The policy refers to pension benefits and does not address retiree healthcare benefits that may be provided under statute in the future. In addition to periodic reviews of this policy, the Board will amend the policy if retiree healthcare benefits become payable.

I. Funding Goals

The objective in requiring employer and member contributions to the System is to accumulate sufficient assets during a member's employment to fully finance the benefits the member receives throughout retirement. In meeting this objective, the System will strive to meet the following funding goals:

- To maintain an increasing ratio of system assets to accrued liabilities and reach an 80 percent minimum funded ratio in 2042;
- To maintain adequate asset levels to finance the benefits promised to members;
- To develop a pattern of stable contribution rates when expressed as a percentage of member payroll as measured by valuations prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board, with a minimum employer contribution equal to the normal cost determined under the Entry Age Normal funding method;
- To provide intergenerational equity for taxpayers with respect to system costs; and
- To fund benefit improvements through increases in contribution rates in accordance with Article 14, § 272A, of the Mississippi Constitution.

II. Benchmarks

To track progress in achieving the previously outlined funding goals, the following benchmarks will be measured annually as of the actuarial valuation date (with due recognition that a single year's results may not be indicative of long-term trends):

- Funded ratio The funded ratio, defined as the actuarial value of system assets divided by the System's actuarial accrued liability, should be increasing over time, before adjustments for changes in benefits, actuarial methods, and/or actuarial assumptions, with a target of at least 80 percent in 2042. If the projected funded ratio is less than 75 percent in 2042, a contribution rate increase will be determined that is sufficient to generate a funded ratio of 85 percent in 2042. If a funded ratio of 100 percent or more is attained and is projected to remain above 100 percent for the ensuing 30 years, a reduced contribution pattern will be established provided the projected funded ratio remains at or above 100 percent in every future year.
- Contribution rate history Employer and member contribution rates should be level from year to year
 when expressed as a percent of active member payroll unless the projected funded ratio reaches a level
 that triggers a change in contribution rates. The initial employer contribution rates for the Supplemental
 Legislative Retirement Plan (SLRP) set under this policy as revised October 23, 2012, was 7.40 percent
 of active member payroll effective July 1, 2013.
- Unfunded Actuarial Accrued Liability (UAAL) amortization period The amortization period for the System's UAAL should be declining over time.





Schedule F: Funding Policy of the SLRP Board of Trustees

III. Methods and Assumptions

The actuarial funding method used to develop the benchmarks will be entry age normal. The method used to develop the actuarial value of assets will recognize the underlying market value of the assets by spreading each year's unanticipated investment income (gains and losses) over a five-year smoothing period (20 percent per year), as adopted by the Board.

The actuarial assumptions used will be those last adopted by the Board based upon the advice and recommendation of the System's actuary. The actuary shall conduct an investigation into the system's experience at least every two years on a rolling four year basis, and utilize the results of the investigation to form the basis for those recommendations.

The Board will have an audit of the System's actuarial valuation results conducted by an independent actuary at least every six years. The purpose of such a review is to provide a critique of the reasonableness of the actuarial methods and assumptions in use and the resulting actuarially computed liabilities and contribution rates.

IV. Funding Policy Review

The funding policy components and triggers will be reviewed annually following the annual actuarial valuation and in conjunction with the annual projection report and will be amended as necessary following each experience investigation conducted by the Board.





Schedule G: Glossary

<u>Actuarial Accrued Liability.</u> The difference between (i) the actuarial present value of future plan benefits, and (ii) the actuarial present value of future normal cost. Sometimes referred to as "accrued liability" or "past service liability".

<u>Accrued Service</u>. The service credited under the plan which was rendered before the date of the actuarial valuation.

Actuarial Assumptions. Estimates of future plan experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and salary increases. Decrement assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

<u>Actuarial Cost Method.</u> A mathematical budgeting procedure for allocating the dollar amount of the "actuarial present value of future plan benefits" between the actuarial present value of future normal cost and the actuarial accrued liability. Sometimes referred to as the "actuarial funding method".

<u>Actuarial Equivalent.</u> A series of payments is called on actuarial equivalent of another series of payments if the two series have the same actuarial present value.

<u>Actuarial Present Value.</u> The amount of funds presently required to provide a payment or series of payments in the future. It is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

<u>Amortization.</u> Paying off an interest-bearing liability by means of periodic payments of interest and principal, as opposed to paying it off with a lump sum payment.

<u>Experience Gain (Loss).</u> A measure of the difference between actual experience and that expected based upon a set of actuarial assumptions during the period between two actuarial valuation dates, in accordance with the actuarial cost method being used.

Normal Cost. The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. Sometimes referred to as "current service cost". Any payment toward the unfunded actuarial accrued liability is not part of the normal cost.

<u>Reserve Account.</u> An account used to indicate that funds have been set aside for a specific purpose and are not generally available for other uses.

<u>Unfunded Actuarial Accrued Liability.</u> The difference between the actuarial accrued liability and valuation assets.

<u>Valuation Assets.</u> The value of current plan assets recognized for valuation purposes. Generally based on book value plus a portion of unrealized appreciation or depreciation.

