

Confidential Via E-mail

Mr. Timothy Blair Executive Secretary State Employees' Retirement System of Illinois 2101 S. Veterans Parkway Springfield, Illinois 62794-9255 Mr. Jeff Houch Senior Public Service Administrator State Retirement Systems of Illinois 2101 S. Veterans Parkway Springfield, Illinois 62794-9255

Subject: Cost Analysis of Representative Martwick's Buyout Bill, Requested January 11, 2018

Dear Tim and Jeff:

At your request, we are providing our analysis of Representative Martwick's Buyout Bill on behalf of the State Employees' Retirement System of Illinois ("SERS" or "System"). This analysis was prepared at the request of, and is intended for use by SERS and those designated by the System only in its entirety and only with the permission of the System. The impact is measured as of June 30, 2017, with an effective date of July 1, 2018.

Summary of Changes

Pursuant to Representative Martwick's Buyout Bill, the following changes are made:

Benefit Changes

- Eligible Tier 1 members may irrevocably elect to have their automatic annual increases ("AAI") in retirement annuity calculated under the Tier 2 structure in exchange for an accelerated pension benefit payment paid as a lump sum at retirement ("buyout option").
 - Accelerated pension benefit payment is equal to 70 percent of the difference of (1) the present value of automatic annual increases to a Tier 1 member's retirement annuity using the Tier 1 AAI structure, and (2) the present value of automatic annual increases to a Tier 1 member's retirement annuity using the Tier 2 AAI structure.
 - In determining these present values, the AAI structure is applied to the member's retirement annuity and the survivor's retirement annuity.
 - Present values are determined using the System's actuarial assumptions in effect as of June 30, 2017.
 - The accelerated pension benefit is paid as a lump sum and must be rolled into another qualified retirement plan/account.
 - An eligible member:
 - Is a Tier 1 member;
 - Has submitted an application for retirement;
 - Meets the age and service requirements for receiving a retirement annuity;

Mr. Timothy Blair and Mr. Jeff Houch State Employees' Retirement System of Illinois Page 2

- Has not previously received a retirement annuity from the System; and
- Does not have a QILDRO in effect against them.
- Automatic annual increases under each structure:
 - o Tier 1
 - Annual increases of 3.0 percent of the current pension (i.e., increases are compounded).
 - Annual increases are granted to members effective each January 1 occurring on or after the first anniversary of the pension.
 - o Tier 2
 - Annual increases equal to the lesser of 3.0 percent or one-half of the annual increase in the consumer price index-u during the preceding 12-month calendar year and are not compounded.
 - Annual increases begin at the later of the first anniversary of retirement or age 67.

The remainder of this letter provides further descriptions of the changes, the impact of changes, and additional disclosure items.

We are providing the following three impact scenarios:

- **Baseline** Benefit provisions in effect as of the June 30, 2017, the most recent actuarial valuation date.
- Scenario 1 25 percent of eligible Tier 1 members elect the buyout option.
- Scenario 2 50 percent of eligible Tier 1 members elect the buyout option.
- Scenario 3 75 percent of eligible Tier 1 members elect the buyout option.

It should be noted that in the buyout option election scenarios, individual members were not selected to elect the buyout option, rather 25 percent/50 percent/75 percent of each eligible member was valued under the buyout option and 75 percent/50 percent/25 percent was valued under the standard Tier 1 option.

Summary of Results

The following table summarizes the State's contributions through 2045 under each scenario.

| | Total Cont. Through 2045 (\$ in millions) | Present Value of Total Cont. (\$ in millions) |
|------------|--|--|
| Baseline | \$93,834 | \$36,835 |
| Scenario 1 | \$83,812 | \$33,091 |
| Scenario 2 | \$86,071 | \$33,935 |
| Scenario 3 | \$88,328 | \$34,778 |



Cost (Savings) Breakout

The following table summarizes the cost (savings) attributable to each scenario when compared against the baseline, measured by State contributions.

| | Increase in Total Cont. Through 2045 (\$ in millions) | Increase in Present Value of Total Cont. (\$ in millions) |
|------------|---|---|
| Scenario 1 | (\$10,022) | (\$3,744) |
| Scenario 2 | (\$7,763) | (\$2,900) |
| Scenario 3 | (\$5,506) | (\$2,057) |

When compared against the baseline, the increase in total state contributions on a nominal and present value basis, diminishes as the buyout election percentages increase. This is mainly attributable to the increase in benefit payments caused by the accelerated pension benefit payment. Benefit payments are projected to be higher in the first eight years for Scenario 1, 10 years for Scenario 2 and 12 years for Scenario 3 when compared against the baseline.

At the end of this letter, we have presented the results of each scenario. The exhibits compare the State's contributions as a dollar amount, the State's contributions as a percent of pay, the unfunded accrued liability and the funded ratio between the baseline and each impact scenario.

Disclosures

- Plan design changes apply to all eligible Tier 1 members. Changes to benefits apply to all years of service. This is not an endorsement for or against changing benefits for current and future members. This is also not a comment on the contractual or constitutional implications of changing benefits for current and future members. It is for illustrative purposes only.
- This study does not purport to state whether the new plan design meets the requirements for a Social Security replacement plan.
- The results are compared against the baseline, where the baseline represents the June 30, 2017, actuarial valuation results.
- These scenarios illustrate the financial implications of certain scenarios. None necessarily represents a best estimate of potential choices or represents the option that may be in a member's best financial interest. We cannot assess the likelihood that a Tier 1 member will elect a buyout option.
- All present values are calculated using a discount rate of 7.00 percent.
- Unless stated otherwise above, these calculations are performed as of June 30, 2017, and are based on the same data, assumptions, and methods used in the June 30, 2017, actuarial valuation report and are subject to all disclosures found within the June 30, 2017, actuarial valuation report.



Mr. Timothy Blair and Mr. Jeff Houch State Employees' Retirement System of Illinois Page 4

This analysis is based upon the same information furnished by the SERS staff concerning System benefits, financial transactions, and active members, terminated members, retirees and beneficiaries that was used in the June 30, 2017, actuarial valuation report dated October 30, 2017. Please refer to that document for addition information pertaining to data, assumptions, methods, plan provisions, etc.

The results summarized in this report involve actuarial calculations that require assumptions about future events. The major actuarial assumptions used in this analysis were provided by and are the responsibility of SERS. We are unable to judge the reasonableness of some of these assumptions without performing a substantial amount of additional work beyond the scope of the assignment.

To the best of our knowledge, the information contained with this letter is accurate and fairly represents the actuarial position of the SERS as of June 30, 2017. All calculations have been made in conformity with generally accepted actuarial principles and practices as well as with the Actuarial Standards of Practice issued by the Actuarial Standards Board.

Future actuarial measurements may differ significantly from the current measurements presented in this letter 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.

This letter should not be relied on for any purpose other than the purpose stated.

The signing actuaries are independent of the plan sponsor.

Alex Rivera and Lance J. Weiss are Members of the American Academy of Actuaries (MAAA) as indicated, and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Please let us know if you have any questions, would like to discuss the results of this analysis or would like to see any additionial analysis.

Respectfully submitted,

Gabriel, Roeder, Smith & Company

alex Rivera

Alex Rivera, FSA, EA, MAAA, FCA Senior Consultant

Tanked.

Lance J. Weiss, EA, MAAA, FCA Senior Consultant

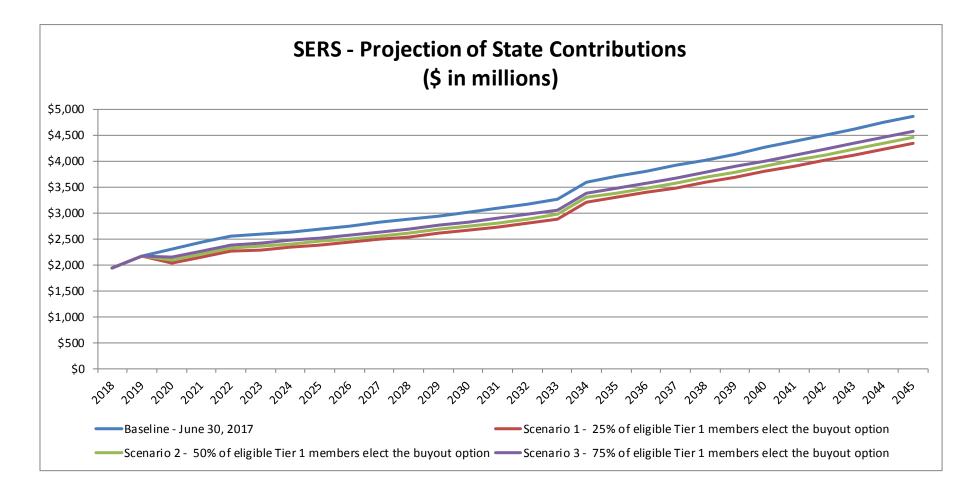


Mr. Ryan Gundersen, Gabriel, Roeder, Smith and Company

State Employees' Retirement System of Illinois Projection of State Contribution Dollars Based on Actuarial Valuation as of June 30, 2017

| | | Illinois SERS- Buyout Cost Im | npact | |
|------------------------------------|---|--|--|---|
| Scenario | Baseline - 6/30/2017 | Scenario 1 - 25% of Eligible Tier 1 Members Elect the Buyout Option | - | Scenario 3 - 75% of Eligible Tier 1 Members Elect the Buyout Option |
| Funding Policy | Contribution Rate Increases/Decreases Due to | 90% by 2045; Level Percentage of Capped Payroll; 5 Year Phase-In of Contribution Rate Increases/Decreases Due to Changes in Actuarial Assumptions | Contribution Rate Increases/Decreases Due to | 90% by 2045; Level Percentage of Capped Payroll; 5 Year Phase-In of Contribution Rate Increases/Decreases Due to Changes in Actuarial Assumptions |
| Actuarial Cost Method | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit |
| Components Included In Scenario | N/A | 25% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 50% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 75% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits |
| Fiscal Year | | Contribution Dollar A | mount (\$ in millions) | |
| 2018 | \$1,942 | \$1,942 | \$1,942 | \$1,942 |
| 2019 | 2,166 | 2,166 | 2,166 | 2,166 |
| 2020 | 2,311 | 2,032 | 2,094 | 2,157 |
| 2021 | 2,433 | 2,147 | 2,211 | 2,276 |
| 2022 | 2,552 | 2,261 | 2,326 | 2,392 |
| 2023 2024 | 2,593 | 2,294 | 2,362 | 2,429 |
| 2024 | 2,641 2,692 | 2,337 2,381 | 2,405 2,451 | 2,474 2,521 |
| 2025 | 2,752 | 2,331 | 2,506 | 2,577 |
| 2027 | 2,816 | 2,490 | 2,564 | 2,637 |
| 2028 | 2,879 | 2,545 | 2,621 | 2,696 |
| 2029 | 2,948 | 2,607 | 2,684 | 2,761 |
| 2030 | 3,018 | 2,667 | 2,746 | 2,825 |
| 2031 | 3,093 | 2,733 | 2,814 | 2,895 |
| 2032 | 3,176 | 2,807 | 2,890 | 2,973 |
| 2033 | 3,269 | 2,889 | 2,975 | 3,060 |
| 2034 2035 | 3,602 | 3,212 | 3,300 | 3,388 |
| 2035 | 3,702 3,805 | 3,302 3,393 | 3,392 3,486 | 3,482 3,579 |
| 2038 | 3,912 | 3,488 | 3,584 | 3,679 |
| 2038 | 4,024 | 3,588 | 3,686 | 3,784 |
| 2039 | 4,139 | 3,691 | 3,792 | 3,893 |
| 2040 | 4,258 | 3,797 | 3,901 | 4,005 |
| 2041 | 4,378 | 3,904 | 4,011 | 4,118 |
| 2042 | 4,499 | 4,012 | 4,122 | 4,232 |
| 2043 | 4,621 | 4,121 | 4,234 | 4,347 |
| 2044 | 4,745 | 4,231 | 4,347 | 4,462 |
| 2045 | 4,868 | 4,341 | 4,459 | 4,578 |
| Total Cont. Through 2045 | \$93,834 | \$83,812 | \$86,071 | \$88,328 |
| Present Value of Total Cont. | \$36,835 | \$33,091 | \$33,935 | \$34,778 |





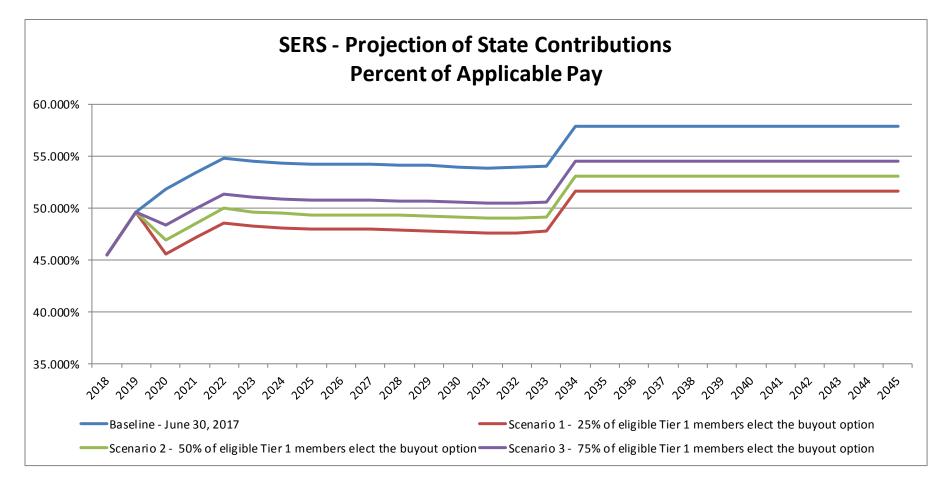


State Employees' Retirement System of Illinois Projection of State Contributions as a Percent of Applicable Payroll Based on the Actuarial Valuation as of June 30, 2017

| | | Illinois SERS- Buyout Cost Im | npact | |
|------------------------------------|---|--|--|---|
| Scenario | Baseline - 6/30/2017 | - | Scenario 2 - 50% of Eligible Tier 1 Members Elect the Buyout Option | - |
| Funding Policy | Contribution Rate Increases/Decreases Due to | 90% by 2045; Level Percentage of Capped Payroll; 5 Year Phase-In of Contribution Rate Increases/Decreases Due to Changes in Actuarial Assumptions | Contribution Rate Increases/Decreases Due to | 90% by 2045; Level Percentage of Capped Payroll; 5 Year Phase-In of Contribution Rate Increases/Decreases Due to Changes in Actuarial Assumptions |
| Actuarial Cost Method | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit |
| Components Included In Scenario | N/A | 25% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 50% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 75% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits |
| Fiscal Year | | Contribution as a Perce | nt of Applicable Payroll | |
| 2018 | 45.424% | 45.424% | 45.424% | 45.424% |
| 2019 | 49.593% | 49.593% | 49.593% | 49.593% |
| 2020 | 51.798% | 45.531% | 46.942% | 48.353% |
| 2021 | 53.354% | 47.087% | 48.498% | 49.910% |
| 2022 | 54.802% | 48.535% | 49.946% | 51.358% |
| 2023 | 54.498% | 48.231% | 49.641% | 51.053% |
| 2024 | 54.344% | 48.077% | 49.487% | 50.899% |
| 2025 | 54.214% | 47.948% | 49.358% | 50.770% |
| 2026 | 54.203% | 47.936% | 49.347% | 50.759% |
| 2027 | 54.205% | 47.938% | 49.349% | 50.760% |
| 2028 | 54.130% | 47.863% | 49.274% | 50.686% |
| 2029 | 54.079% | 47.813% | 49.223% | 50.635% |
| 2030 2031 | 53.963% 53.875% | 47.697% 47.608% | 49.107% 49.019% | 50.519% 50.431% |
| 2031 | 53.891% | 47.624% | 49.035% | 50.447% |
| 2032 | 54.000% | 47.733% | 49.144% | 50.556% |
| 2033 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2035 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2036 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2037 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2038 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2039 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2040 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2041 | 57.914% | 51.645% | 53.057% | 54.468% |
| 2042 | 57.914% | 51.645% | 53.057% | 54.468% |
| | 57.914% | 51.645% | 53.057% | 54.468% |
| 2043 | | | | |
| 2043 2044 | 57.914% | 51.645% | 53.057% | 54.468% |



State Employees' Retirement System of Illinois Projection of State Contributions as a Percent of Applicable Payroll Based on the Actuarial Valuation as of June 30, 2017

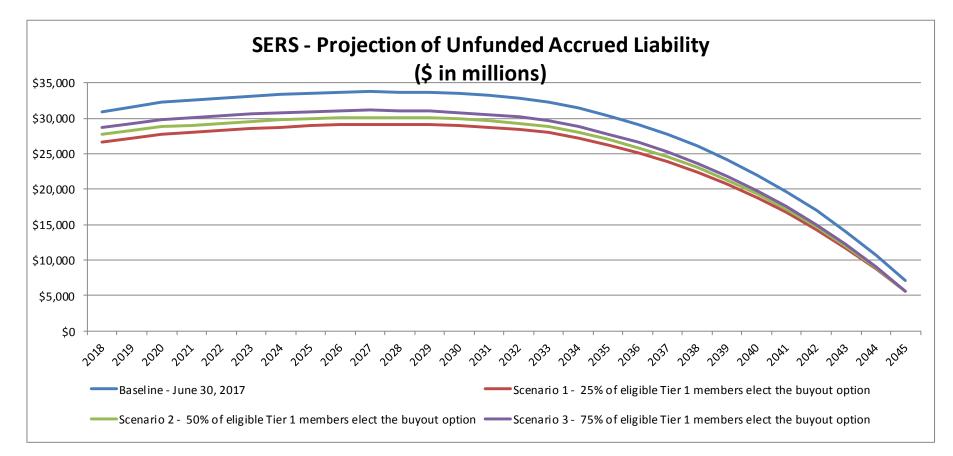




State Employees' Retirement System of Illinois Projection of Unfunded Accrued Liability Based on the Actuarial Valuation as of June 30, 2017

| | | Illinois SERS- Buyout Cost Im | npact | |
|------------------------------------|---|--|--|---|
| Scenario | Baseline - 6/30/2017 | - | Scenario 2 - 50% of Eligible Tier 1 Members Elect the Buyout Option | Scenario 3 - 75% of Eligible Tier 1 Members Elect the Buyout Option |
| Funding Policy | Contribution Rate Increases/Decreases Due to | 90% by 2045; Level Percentage of Capped Payroll; 5 Year Phase-In of Contribution Rate Increases/Decreases Due to Changes in Actuarial Assumptions | Contribution Rate Increases/Decreases Due to | 90% by 2045; Level Percentage of Capped Payroll; 5 Year Phase-In of Contribution Rate Increases/Decreases Due to Changes in Actuarial Assumptions |
| Actuarial Cost Method | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit |
| Components Included In Scenario | N/A | 25% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 50% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 75% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits |
| Fiscal Year | | Unfunded Accrued Li | iability (\$ in millions) | |
| 2018 | \$30,862 | \$26,709 | \$27,710 | \$28,713 |
| 2019 | 31,647 | 27,190 | 28,248 | 29,309 |
| 2020 | 32,247 | 27,754 | 28,809 | 29,865 |
| 2021 | 32,507 | 27,982 | 29,033 | 30,084 |
| 2022 2023 | 32,819 33,102 | 28,268 28,529 | 29,312 29,566 | 30,357 30,604 |
| 2023 | 33,343 | 28,754 | 29,781 | 30,810 |
| 2025 | 33,536 | 28,938 | 29,955 | 30,972 |
| 2026 | 33,666 | 29,067 | 30,071 | 31,077 |
| 2027 | 33,728 | 29,135 | 30,124 | 31,117 |
| 2028 | 33,720 | 29,142 | 30,115 | 31,089 |
| 2029 | 33,631 | 29,078 | 30,032 | 30,988 |
| 2030 | 33,458 | 28,941 | 29,874 | 30,808 |
| 2031 | 33,191 | 28,723 | 29,630 | 30,539 |
| 2032 2033 | 32,812 32,308 | 28,408 27,982 | 29,287 28,829 | 30,167 29,677 |
| 2033 | 31,420 | 27,190 | 28,001 | 29,877 |
| 2035 | 30,364 | 26,249 | 27,018 | 27,790 |
| 2036 | 29,125 | 25,144 | 25,868 | 26,593 |
| 2037 | 27,689 | 23,864 | 24,537 | 25,211 |
| 2038 | 26,039 | 22,395 | 23,010 | 23,628 |
| 2039 | 24,160 | 20,722 | 21,274 | 21,828 |
| 2040 | 22,034 | 18,831 | 19,313 | 19,797 |
| 2041 | 19,646 | 16,707 | 17,110 | 17,516 |
| 2042 | 16,978 | 14,335 | 14,654 | 14,973 |
| 2043 | 14,012 | 11,701 | 11,924 | 12,148 |
| 2044 | 10,728 | 8,786 | 8,904 | 9,024 |
| 2045 | 7,105 | 5,571 | 5,575 | 5,579 |







State Employees' Retirement System of Illinois Projection of Funded Ratio Based on the Actuarial Valuation as of June 30, 2017

| Illinois SERS- Buyout Cost Impact | | | | |
|--|--|--|--|---|
| Scenario | Baseline - 6/30/2017 | - | Scenario 2 - 50% of Eligible Tier 1 Members Elect the Buyout Option | - |
| Funding Policy | Contribution Rate Increases/Decreases Due to | 90% by 2045; Level Percentage of Capped Payroll; 5 Year Phase-In of Contribution Rate Increases/Decreases Due to Changes in Actuarial Assumptions | Contribution Rate Increases/Decreases Due to | Contribution Rate Increases/Decreases Due to |
| Actuarial Cost Method | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit | Projected Unit Credit |
| Components Included In Scenario | N/A | 25% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 50% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits | 75% of Eligible Tier 1 Active and Deferred Vested Population Chooses Tier 2 COLA Structure and Accelerated Pension Benefit Payment Equal to 70% of the PVB Difference between Tier 1 and Tier 2 Future Benefit Increases of their Retirement Benefits |
| Fiscal Year | | Funde | d Ratio | |
| 2018 | 36.17% | 39.45% | 38.45% | 37.49% |
| 2019 | 36.69% | 40.07% | 38.94% | 37.84% |
| 2020 | 37.51% | 40.41% | 39.28% | 38.19% |
| 2021 | 38.87% | 41.37% | 40.23% | 39.12% |
| 2022 | 40.01% | 42.08% | 40.93% | 39.81% |
| 2023 | 41.09% | 42.73% | 41.56% | 40.43% |
| 2024 2025 | 42.11% 43.10% | 43.33% 43.89% | 42.14% 42.69% | 40.99% 41.52% |
| 2025 | 44.07% | 44.44% | 43.23% | 41.32% |
| 2020 | 45.03% | 45.00% | 43.77% | 42.57% |
| 2028 | 46.01% | 45.58% | 44.35% | 43.15% |
| 2029 | 47.02% | 46.20% | 44.97% | 43.76% |
| 2030 | 48.07% | 46.87% | 45.65% | 44.45% |
| 2031 | 49.16% | 47.61% | 46.40% | 45.20% |
| 2032 | | | 47.050/ | 46.06% |
| | 50.34% | 48.45% | 47.25% | 40.00% |
| 2033 | 51.63% | 49.42% | 48.24% | 47.07% |
| 2033 2034 | 51.63% 53.40% | 49.42% 50.99% | 48.24% 49.83% | 47.07% 48.69% |
| 2033 2034 2035 | 51.63% 53.40% 55.34% | 49.42% 50.99% 52.77% | 48.24% 49.83% 51.64% | 47.07% 48.69% 50.52% |
| 2033 2034 2035 2036 | 51.63% 53.40% 55.34% 57.47% | 49.42% 50.99% 52.77% 54.79% | 48.24% 49.83% 51.64% 53.70% | 47.07% 48.69% 50.52% 52.62% |
| 2033 2034 2035 2036 2037 | 51.63% 53.40% 55.34% 57.47% 59.82% | 49.42% 50.99% 52.77% 54.79% 57.10% | 48.24% 49.83% 51.64% 53.70% 56.06% | 47.07% 48.69% 50.52% 52.62% 55.03% |
| 2033 2034 2035 2036 2037 2038 | 51.63% 53.40% 55.34% 57.47% 59.82% 62.41% | 49.42% 50.99% 52.77% 54.79% 57.10% 59.72% | 48.24% 49.83% 51.64% 53.70% 56.06% 58.75% | 47.07% 48.69% 50.52% 52.62% 55.03% 57.78% |
| 2033 2034 2035 2036 2037 2038 2039 | 51.63% 53.40% 55.34% 57.47% 59.82% 62.41% 65.29% | 49.42% 50.99% 52.77% 54.79% 57.10% 59.72% 62.71% | 48.24% 49.83% 51.64% 53.70% 56.06% 58.75% 61.82% | 47.07% 48.69% 50.52% 52.62% 55.03% 57.78% 60.93% |
| 2033 2034 2035 2036 2037 2038 2039 2040 | 51.63% 53.40% 55.34% 57.47% 59.82% 62.41% 65.29% 68.47% | 49.42% 50.99% 52.77% 54.79% 57.10% 59.72% 62.71% 66.09% | 48.24% 49.83% 51.64% 53.70% 56.06% 58.75% 61.82% 65.29% | 47.07% 48.69% 50.52% 52.62% 55.03% 57.78% 60.93% 64.51% |
| 2033 2034 2035 2036 2037 2038 2039 2040 2041 | 51.63% 53.40% 55.34% 57.47% 59.82% 62.41% 65.29% 68.47% 71.99% | 49.42% 50.99% 52.77% 54.79% 57.10% 59.72% 62.71% 66.09% 69.89% | 48.24% 49.83% 51.64% 53.70% 56.06% 58.75% 61.82% 65.29% 69.22% | 47.07% 48.69% 50.52% 52.62% 55.03% 57.78% 60.93% 64.51% 68.55% |
| 2033 2034 2035 2036 2037 2038 2039 2040 2041 2041 2042 | 51.63% 53.40% 55.34% 57.47% 59.82% 62.41% 65.29% 68.47% 71.99% 75.87% | 49.42% 50.99% 52.77% 54.79% 57.10% 59.72% 62.71% 66.09% 69.89% 74.16% | 48.24% 49.83% 51.64% 53.70% 56.06% 58.75% 61.82% 65.29% 69.22% 73.63% | 47.07% 48.69% 50.52% 52.62% 55.03% 57.78% 60.93% 64.51% 68.55% 73.09% |
| 2033 2034 2035 2036 2037 2038 2039 2040 2041 | 51.63% 53.40% 55.34% 57.47% 59.82% 62.41% 65.29% 68.47% 71.99% | 49.42% 50.99% 52.77% 54.79% 57.10% 59.72% 62.71% 66.09% 69.89% | 48.24% 49.83% 51.64% 53.70% 56.06% 58.75% 61.82% 65.29% 69.22% | 47.07% 48.69% 50.52% 52.62% 55.03% 57.78% 60.93% 64.51% 68.55% |



