# TEACHERS' RETIREMENT SYSTEM OF LOUISIANA 

JUNE 30, 2022

## ACTUARIAL VALUATION

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October 6, 2022

Board of Trustees
Teachers' Retirement System of Louisiana
Post Office Box 94123, Capitol Station
Baton Rouge, Louisiana 70804-9123

Dear Board Members:
This report is prepared for the Board of Trustees of Teachers' Retirement System of Louisiana (TRSL) to present the results of the actuarial valuation of assets and liabilities and funding requirements, as of June 30, 2022. The primary purpose of the report is to provide a measure of the plan's liability and funding levels and to determine the actuarially required contribution for fiscal year ending 2023 and the projected actuarially required contribution rate for fiscal year ending 2024. Section IV provides disclosures of the Fiduciary Net Position and Net Pension Liabilities required by the Governmental Accounting Standards Board Statements 67/68. Results of the funding valuation and GASB valuations should not be relied upon for other purposes.

In preparing this valuation, we have relied upon the information provided by the System regarding plan provisions, plan membership, plan assets and other matters as detailed in this report. In particular, we have relied upon the Statements of Fiduciary Net Position and Changes in Fiduciary Net Position as audited by Hawthorne, Waymouth \& Carroll, LLP, Certified Public Accountants. We did not audit the data or plan assets but reviewed for reasonableness and consistency with prior year data. Our review concluded that the data is reasonable and consistent with the prior year's data.

The liabilities and normal costs shown herein have been estimated on the basis of the actuarial cost method specified in Louisiana Revised Statutes Title 11 Section 22(B)(13). All actuarial assumptions have been adopted by the Board of Trustees and are reasonable and appropriate for the purposes of this valuation, unless otherwise stated herein. However, other sets of assumptions and methods could also be reasonable and could produce materially different results. Actual results may vary from the assumptions used to prepare the valuation.

The funding percentages and unfunded accrued liability as measured based on the actuarial value of assets will differ from similar measures based on the market value of assets. These measures, as provided, are appropriate for determining the adequacy of future contributions, but may not be appropriate for the purpose of settling a portion
or all of its liabilities. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements and changes in plan provisions or applicable law. The scope of this report does not include an analysis of the range of such future measurements.

In performing the valuations, we used third-party software to model (calculate) the underlying liabilities and costs. These results are reviewed in the aggregate and for individual sample lives. The output from the software is either used directly or input into internally developed models that apply the funding and accounting rules to generate the costs. All internally developed models are reviewed as part of the valuation process. As a result of this review, we believe that the models have produced reasonable results. We do not believe there are any material inconsistencies among assumptions or unreasonable output produced due to the aggregation of assumptions.

Appendix D has been included to comply with the guidance provided by Actuarial Standard of Practice, No 51, applicable to valuations on or after November 1, 2018. This report has been prepared in accordance with actuarial standards of practice, and to the best of our knowledge, fairly reflects the actuarial present value of accrued benefits of the Teachers' Retirement System of Louisiana.

Shelley is an Associate in the Society of Actuaries and Pat is a Fellow in the Society of Actuaries. Shelley and Pat are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted,
FOSTER \& FOSTER INC.


Shelley R. Johnson, ASA, MAAA

D. Patrick McDonald, FSA, EA, MAAA, FCA

## TABLE OF CONTENTS

SECTION TITLE PAGE
LETTER OF CERTIFICATION
I PRESENTATION OF VALUATION RESULTS
Summary of Valuation Results ..... 1
Projected Contribution Rates by Plan ..... 2
Changes Since Prior Valuation ..... 2
Change in Funding Requirements ..... 2
Change in Unfunded Accrued Liability ..... 3
Plan Experience ..... 4
Actuarial Assets/Valuation Assets ..... 6
Legislative/Plan Changes ..... 6
Accelerated Reduction of OAB and EAAB ..... 6
Funded Status ..... 7
II ASSETS/FINANCIAL SUMMARY ..... $8-12$
III DEVELOPMENT OF COSTS, LIABILITIES \& CONTRIBUTIONS ..... 13-14
IV GASB STATEMENTS 67/68 REPORTING ..... 15-18
APPENDIX
A MEMBERSHIP DATA ..... 19-32
B SUMMARY OF PLAN PROVISIONS ..... 33-47
C FUNDING POLICY ..... 48
D DISCUSSION OF RISK ..... $49-53$
E ACTUARIAL COST METHODS AND ASSUMPTIONS ..... 54-60
F AMORTIZATION SCHEDULES
June 30, 2022 ..... 61
June 30, 2023 - Projected ..... 62
UAL Amortization Schedule Notes ..... 63
Table and Graph of UAL and Payment Schedule ..... 64
Components of Original Amortization Base ..... 65
GLOSSARY ..... 66-68
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# PRESENTATION OF VALUATION RESULTS 

## SUMMARY OF VALUATION RESULTS



The above funding requirements measure the cost of benefits that were in effect on June 30, 2022.
1 See page 7 for additional information regarding the funding percentage and UAL impact due to discount rate reductions and past actuarial method changes.
2 The assumed rate of return on investments is the discount rate plus 35 basis points for gain-sharing.
3 Reflects the restated aggregate employer contribution rate for the fiscal year following the valuation date.
4 The current year PRSAC approved employer contribution rate multiplied by restated current year projected payroll.
5 Reflects the projected aggregate employer contribution rate for fiscal year that begins one year after the valuation date.

## PROJECTED CONTRIBUTION RATES BY PLAN

Act 716 of 2012 requires the employer contribution rate to be individually determined for each plan type as defined within the Act beginning with Fiscal Year 2012/2013. The term "plan" refers to each employer group specified in the Act, rather than each plan referring to a separate plan of benefits. The normal cost portion of each plan's employer contribution rate varies based upon that plan's benefits, member demographics, actuarial assumptions and the rate contributed by employees. The shared UAL contribution rate is determined in aggregate for all plans. The UAL established for a specific plan or group of plans by specific legislation will be allocated entirely to that plan or those plans. The recommended employer rates by plan are as follows:

|  | Recommended Employer Rate for FY 2023/2024 |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> Normal <br> Cost <br> Rate | Aggregate <br> Employee <br> Normal <br> Cost Rate | Employer <br> Normal <br> Cost Rate | Administrative <br> Expense Rate | Shared <br> UAL <br> Rate | Total <br> Employer <br> Contribution <br> Rate |
| Regular Teachers, <br> Lunch A \& B | $11.6 \%$ | $7.9794 \%$ | $3.5748 \%$ | $0.37 \%$ | $20.16 \%$ | $24.1 \%$ |
| Higher Education | $10.8 \%$ | $8.0000 \%$ | $2.7880 \%$ | $0.37 \%$ | $20.16 \%$ | $23.3 \%$ |
| Aggregate Rate | $11.4 \%$ | $7.9830 \%$ | $3.4357 \%$ | $0.37 \%$ | $20.16 \%$ | $24.0 \%$ |

## CHANGES SINCE PRIOR VALUATION

The discount rate for the June 30, 2022 valuation was reduced from $7.40 \%$ to $7.25 \%$. This change was anticipated in the determination of the projected contribution requirements for Fiscal Year 2022/2023.

## CHANGE IN FUNDING REQUIREMENTS

The aggregate employer contribution rate established by the Public Retirement Systems' Actuarial Committee for the $2022 / 2023$ plan year was $24.7 \%$. The restated employer contribution rate determined by this valuation for the $2022 / 2023$ plan year is $24.2 \%$. Therefore, a contribution surplus of $0.5 \%$ is expected next year.

Changes in the required contribution are generally the result of gains or losses resulting from actual experience differing from expected plan experience, expected changes in the UAL payment due to statutory requirements, and changes in actuarial assumptions or methods. Changes in the employer contribution rate are impacted by both the change in the total dollar required contribution and by the total aggregate payroll for active members.

The projected aggregate employer contribution rate decreased from $24.7 \%$ for Fiscal Year 2022/2023 to $24.0 \%$ for Fiscal Year 2023/2024. The reasons for the change are detailed below. The total of the items contributing to the contribution rate change may not exactly equal the actual contribution rate change due to rounding, and since the items impacting the rate are not additive and may overlap.

## Employer Contribution Rate Reconciliation

| Normal Cost | $-0.07 \%$ |
| :--- | :---: |
| Demographic/Plan Shift $-0.07 \%$ <br> Normal Cost Total Change  <br> UAL Payment $-0.11 \%$ <br> Investment Experience Gain $0.08 \%$ <br> Experience Account Allocation $0.25 \%$ <br> Other Experience Loss $0.00 \%$ <br> Contribution Variance Payment Change $0.03 \%$ <br> Other $0.25 \%$ <br> Total UAL Payment Change $-0.93 \%$ <br> Payroll Change $0.01 \%$ <br> Administrative Expenses $-0.74 \%$ <br> Total $-0.70 \%$$\$ .$Actual Contribution Rate Change |  |

## CHANGE IN UNFUNDED ACCRUED LIABILITY

The plan's total unfunded accrued liability (UAL) decreased, mainly due to principal reduction from receipt of UAL payments, an investment experience gain, and a contribution variance surplus. This decrease was partially offset by increases resulting from an allocation of investment experience gains to the experience account and a decrease in the discount rate.

| Unfunded Liability - June 30, 2021 |  | $\$ 9,317,243,930$ |  |
| :--- | ---: | ---: | ---: |
| Interest on Unfunded Liability | $\$$ | $689,476,051$ |  |
| Employer Amortization Payment | $(1,043,897,591)$ |  |  |
| Act 170 of 2022 Appropriation | $(48,092,612)$ |  |  |
| Contribution Variance Surplus | $(144,147,469)$ |  |  |
| Investment Experience Gain | $(350,363,780)$ |  |  |
| Experience Account Allocation | $30,502,699$ |  |  |
| Other Experience Loss | $140,840,045$ |  |  |
| Act 657 of 2022 (2\% PBI) | $353,117,800$ |  |  |
| Experience Account Disbursement | $(353,117,800)$ |  |  |
| Discount Rate Change (7.4\% to 7.25\%) | $498,139,277$ |  |  |
| Total Change |  | $(227,543,380)$ |  |
| Unfunded Liability - June 30, 2022 |  | $\$ 9,089,700,550$ |  |

## PLAN EXPERIENCE

The actuarial assumptions represent the best estimate of future experience in order to properly fund benefits. The results of the actuarial valuation are dependent on the actuarial assumptions used. These assumptions, which are adopted by the Board of Trustees, are detailed in Appendix E of the valuation report. A gain or loss occurs if the actual experience differs from the prior year's projected plan measurements. The funding policy, in Appendix C, describes how investment and non-investment gains are amortized or allocated for other purposes.

## Demographic and Salary Assumption Experience

Demographic assumptions include rates of retirement/DROP, rates at which members become disabled, turnover rates, mortality rates, and several other assumptions. Salary assumptions anticipate future salary increases. During the 2021/2022 plan year, the system incurred an experience loss of $\$ 140,840,045$ from plan experience differing from that anticipated by the demographic and salary assumptions. The loss is amortized over 20 years with level payments.

A breakdown of the non-investment experience gain/(loss) is provided below:

|  |  | $\begin{array}{c}\text { \% of Total } \\ \text { Source of Gain/(Loss) }\end{array}$ | Gain/(Loss) |
| :--- | ---: | ---: | ---: |$)$| Liability |
| :--- |
| Active Member Decrements |
| Active Member Salaries |
|  |
| Inactive Mortality |

## Investment Assumption Experience

The market value of assets and actuarial value of assets include funds from the DROP accounts created for members eligible for DROP after January 1, 2004, which are invested in money market accounts. The rate of return on the actuarial value of assets is determined for trust assets net of these accounts.

|  | Actuarial Value of <br> Assets | Money Market <br> DROP Accounts | Net Actuarial Value <br> of Assets |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Beginning Assets | $\$ 24,114,655,748$ | $\$$ | $365,170,080$ | $\$$ | $23,749,485,668$ |
| Contributions | $1,739,467,961$ | $93,176,781$ | $1,646,291,180$ |  |  |
| Benefits Payments and Expenses | $(2,371,777,716)$ | $(109,415,760)$ | $(2,262,361,956)$ |  |  |
| Investment Income | $2,105,558,239$ | $6,849,685$ | $2,098,708,554$ |  |  |
| Ending Asset Value | $\$ 25,587,904,232$ | $\$$ | $355,780,786$ | $\$$ | $25,232,123,446$ |
| Net AVA Rate of Return |  |  |  |  | $8.96 \%$ |

For the plan year ending June 30, 2022, the System's actuarial rate of return of $8.96 \%$ was greater than the $7.40 \%$ discount rate, resulting in an investment experience gain of $\$ 350,363,780$. Investment experience losses are amortized over 20 years with level payments. Investment experience gains up to the threshold amounts, are allocated to the Original Amortization Base and Experience Account Allocation Base. The remaining gain is amortized over 20 years with level payments. One-half of the remaining gain is allocated to the experience account, up to the statutory cap, to be used to fund future permanent benefit increases, when granted by the legislature, and is amortized as a cost over ten years.

The development of investment gains/losses and any resulting allocations are shown below:

## Development of Investment Gain/(Loss)

| A. | Beginning Net Actuarial Value of Assets | $\$ 23,749,485,668$ |
| :--- | :--- | ---: |
| B. | Total Contributions | $1,646,291,180$ |
| C. | Benefits Payments and Expenses | $2,262,361,956$ |
| D. | Ending Net Actuarial Value of Assets | $25,232,123,446$ |
| E. | Investment Income (D - A - B + C) | $2,098,708,554$ |
|  | Investment Rate of Return | $8.96 \%$ |

F. Expected Investment Income 1,733,326,433

Expected Rate of Return $\quad 7.40 \%$
G. Investment Gain/(Loss) (E - F) 365,382,121
H. Gain allocated to Side Funds or DROP Accounts 15,018,341
I. Net Investmant Gain

Current Allocation of Gain Threshold to OAB/EAAB
J. $\$ 200,000,000$ Indexed by AVA Increase
\$ 289,358,382

## Allocation of Investment Gain

| K. | Original Amortization Base (OAB) Credit (J /2) | $\$$ | $144,679,191$ |
| :--- | :--- | ---: | ---: |
| L. | Experience Account Amortization Base (EAAB) Credit (J / 2) |  | $144,679,191$ |
| M. | Net Investment Gain (20-Year Amortization) (I -K - L) | $61,005,398$ |  |
| N. | Total Investment Gain | $350,363,780$ |  |
| O. | Experience Account Credit (10-year amortization) | $(30,502,699)$ |  |
| P. | Retained Investment Gain (N - O) | $\$ 319,861,081$ |  |

The historical geometric average rates of return on the total actuarial value of assets, net of investment expenses, for plan years ending June 30 are shown below. The discount rate reflects the expected return needed to fund regular plan benefits. The returns shown below are comparable to the discount rate plus returns expected to be allocated to the Experience Account.

|  | Actuarial Rate <br> of Return |  | Geometric <br> Average |  |
| :---: | :---: | :---: | ---: | :---: |
| 2017 | $9.15 \%$ |  | 5 Year | $9.05 \%$ |
| 2018 | $9.48 \%$ |  | 10 Year | $9.87 \%$ |
| 2019 | $7.48 \%$ |  | 15 Year | $6.63 \%$ |
| 2020 | $6.80 \%$ |  | 20 Year | $7.15 \%$ |
| 2021 | $12.65 \%$ |  | 25 Year | $7.48 \%$ |
| 2022 | $8.96 \%$ |  | 30 Year | $8.12 \%$ |

DROP accounts for members eligible for DROP prior to January 1, 2004 are credited with interest following termination of DROP at the System's actuarial rate of return less a $0.5 \%$ expense adjustment, but not below zero. The DROP interest rate for the period July 1, 2021 through June 30, 2022 after the expense adjustment is $8.46 \%$. DROP accounts for members eligible for DROP after January 1, 2004 are invested in money market accounts.

## ACTUARIAL ASSETS/VALUATION ASSETS

The gross actuarial value of assets, developed in Section II, are determined based on the market value of assets, with gradual recognition of gains and losses relative to the discount rate over a five-year period in order to smooth the effects of short-term market volatility. Valuation assets are determined as the gross actuarial value of assets less the assets held in side-fund accounts. Valuation assets are used to determine the employer contribution rate (see Section III).

The side-fund accounts excluded from valuation assets are as follows:
Employer Credit Account: This account, established by Act 588 of 2004, accumulates the excess contributions based on the statutory minimum employer contribution rate of $15.5 \%$ over the actuarially required employer contribution (ARC), as restated in the current valuation. The minimum rate is not currently applicable, and the account continues to have a zero balance.

LSU Agriculture and Extension Service Fund: Participants of the LSU Agriculture and Extension Service receive supplemental benefits from TRSL equal to the difference between the TRSL benefit formula and the Federal Civil Service formula. The funding is recorded separately in the side-fund with assets comingled with the TRSL assets. The current balance is $\$ 4,787,701$.

Experience Account Fund: The account is used to fund permanent benefit increases for retirees. Fifty percent of any excess return above the statutory threshold will be credited to the Experience Account, up the statutory maximum account balance, which is currently the expected cost of one permanent benefit increase. The account was credited with a $\$ 30,502,699$ from investment experience gains and interest on the current balance based on the System's actuarial return. The account was debited a total of $\$ 353,117,800$ to fund the Act 657 of 2022 permanent benefit increase. The current balance is $\$ 79,455,322$.

## LEGISLATIVE/PLAN CHANGES

The following legislative Acts impact this or future actuarial valuations:
Act 170 of 2022 provided a supplemental appropriation of $\$ 48,092,612$ to TRSL to be applied to the IUAL, which is a component of the Original Amortization Base.

Act 657 of 2022 grants a $2 \%$ permanent benefit increase, payable July 1, 2022, to eligible TRSL retirees, beneficiaries and survivors calculated on the first $\$ 68,396$ of their annual benefit.

Act 95 of 2016 provides that the net remaining liability of the OAB and EAAB shall be re-amortized after application of the hurdle payments in the Fiscal Year 2024/2025 and in every fifth fiscal year thereafter until the system is $80 \%$ funded.

## ACCELERATED REDUCTION OF OAB AND EAAB

Act 497 of 2009 established the OAB and EAAB and required the application of certain investment gains and contribution variance credits to these schedules. Act 399 of 2014 modified the provisions of Act 497 and specifies that until the System's funded ratio reaches $85 \%$, the funds applied to these schedules will be used to pay off the schedules early, rather than to reduce employer contributions. Since 2009, $\$ 755,260,743$ has been applied to the OAB and $\$ 1,416,192,808$ has been applied to the EAAB. Per Act 95 of 2016, the OAB and EAAB schedules were re-amortized to their original statutorily required pay-off dates in FY 2019/2020 and the OAB was re-amortized again on June 30, 2021 to 2029 with level payments. A projection of future UAL balances and UAL payments based on the projected amortization schedules is shown in Appendix F. This projection assumes that the actuarially determined contributions will be paid when due and all actuarial assumptions will be realized.

## FUNDED STATUS

The funded status measure is appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's obligations and for assessing the amount of future contributions. The current funded ratio is $73.7 \%$, as measured by the plan's valuation assets divided by the total actuarial accrued liability, which are based on the asset valuation method, actuarial cost method, and actuarial assumptions described in Appendix E. This measure would be different if the measure reflected the market value of assets rather than the actuarial value of assets. The financial crisis of 2008, and gradual recognition of the losses, resulted in a funded ratio of $54.4 \%$ in 2010 . The chart below shows the recovery to date as exhibited by the steady increase in the funded ratio through June 30, 2022.

If not for the reductions in the discount rate over this period and change to the Entry Age Normal cost method, the funded ratio would have increased to approximately $81.6 \%$. However, these changes have improved the financial stability of the plan by reducing the potential for future contribution rate increases.

If all actuarial assumptions are realized, the funded ratio is expected to steadily increase as unfunded liabilities are amortized in accordance with the plan's funding policy.


## ASSETS/FINANCIAL SUMMARY

## STATEMENT OF REVENUES AND EXPENSES

----- Prior Years -.---
June 30, 2022 June 30, 2021 June 30, 2020

## OPERATING REVENUES:

1. Contribution Income

| Member | $\$$ | $378,065,213$ | $\$$ | $361,684,671$ |
| :--- | ---: | ---: | ---: | ---: |

2. Investment Income

| Investments | $-1,998,554,534$ | $7,204,116,772$ | $209,737,077$ |
| :--- | ---: | ---: | ---: |
| Less Advisor Fees | $(42,390,847)$ | $(38,755,431)$ | $(35,726,244)$ |
| TOTAL INVESTMENT INCOME | $-2,040,945,381$ | $7,165,361,341$ | $174,010,833$ |
|  |  |  |  |
| Total Revenues | $-301,477,419$ | $8,830,597,676$ | $1,830,066,656$ |

## OPERATING EXPENSES:

| 1. General Administration | $14,554,420$ | $14,132,424$ | $14,418,013$ |
| :--- | ---: | ---: | ---: |
| Other Post-Employment Benefits | 632,234 | $(385,301)$ | $-540,170$ |
| GASB 68 Pension Expense | 758,208 | $1,870,195$ | $1,576,153$ |
| Depreciation Expense | 494,877 | 470,446 | 422,685 |
| TOTAL ADMIN. EXPENSE | $16,439,739$ | $16,087,764$ | $15,876,681$ |
| Benefits Paid |  |  |  |
| Pension Benefits | $2,303,868,400$ | $2,256,015,333$ | $2,193,873,471$ |
| LSU Ag Center Coop. Ext. | $1,739,624$ | $1,856,703$ | $1,987,638$ |
| Refund of Contributions | $49,729,953$ | $53,095,624$ | $50,225,236$ |
| TOTAL BENEFITS PAID | $2,355,337,977$ | $2,310,967,660$ | $2,246,086,345$ |
|  |  |  | $2,261,963,026$ |
| 3. | $2,371,777,716$ | $2,327,055,424$ | 2, |
| Total Expenses |  |  |  |
| MARKET VALUE CHANGE: | $\$(2,673,255,135)$ | $\$ 6,503,542,252$ | $\$(431,896,370)$ |

## COMPARATIVE SUMMARY OF REVENUES BY SOURCE AND EXPENSES BY TYPE

| Revenues by Source |  |  |  |  |
| :---: | :---: | :---: | ---: | :---: |
| Fiscal <br> Year | Members <br> Contribution | Employer <br> Contribution <br>  <br>  <br> 1,3 | Investment <br> Income | Total |
| 2013 | $327,767,936$ | $1,095,482,766$ | $1,754,983,691$ | $3,178,234,393$ |
| 2014 | $326,007,091$ | $1,218,017,295^{2}$ | $2,818,063,134$ | $4,362,087,520$ |
| 2015 | $324,920,644$ | $1,267,129,097$ | $445,160,167$ | $2,037,209,908$ |
| 2016 | $330,773,315$ | $1,197,925,446$ | $180,592,209$ | $1,709,290,970$ |
| 2017 | $328,541,240$ | $1,162,795,385$ | $2,615,507,755$ | $4,106,844,380$ |
| 2018 | $337,928,752$ | $1,251,838,141$ | $2,140,697,973$ | $3,730,464,866$ |
| 2019 | $341,398,896$ | $1,281,339,607$ | $1,213,922,169$ | $2,836,660,672$ |
| 2020 | $351,287,975$ | $1,304,767,848$ | $174,010,833$ | $1,830,066,656$ |
| 2021 | $361,684,671$ | $1,303,551,664$ | $7,165,361,341$ | $8,830,597,676$ |
| 2022 | $378,065,213$ | $1,361,402,749$ | $(2,040,945,381)$ | $(301,477,419)$ |


| Expenses by Type |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fiscal |  |  | Administrative |  |  |
| Year | Benefits ${ }^{3}$ |  | Refunds | Expenses | Total |
| 2013 | 1,800,166,804 |  | 59,152,481 | 17,661,969 | 1,876,981,254 |
| 2014 | 1,877,113,902 |  | 57,652,124 | 17,522,895 | 1,952,288,921 |
| 2015 | 1,956,857,437 |  | 51,545,762 | 19,265,221 | 2,027,668,420 |
| 2016 | 2,001,145,698 |  | 49,141,575 | 17,432,419 | 2,067,719,692 |
| 2017 | 2,063,449,370 |  | 49,805,920 | 18,194,370 | 2,131,449,660 |
| 2018 | 2,118,971,446 |  | 48,671,220 | 29,465,710 | 2,197,108,376 |
| 2019 | 2,165,760,383 |  | 50,301,709 | 14,818,373 | 2,230,880,465 |
| 2020 | 2,195,861,109 |  | 50,225,236 | 15,876,681 | 2,261,963,026 |
| 2021 | 2,257,872,036 | 4 | 53,095,624 | 16,087,764 | 2,327,055,424 |
| 2022 | 2,305,608,024 |  | 49,729,953 | 16,439,739 | 2,371,777,716 |

1 Includes Miscellaneous Contribution/Income in addition to direct employer contributions.
2 Includes $\$ 5,578,791$ legislative appropriation from Act 55 of 2014.
3 Includes LSU Ag Center Employer Contributions and Benefits.
4 The value for 2021 Benefits changed from the amount provided in the 2021 report due to a correction.

## STATEMENT OF ASSETS

----Prior Years--June 30, 2022 June 30, 2021 June 30, 2020
ASSETS:

1. Short-term Assets

Cash and Cash Equivalents
Short Term Securities
2. Global Debt
3. Global Equities
4. Other Assets

| Alternative Investments | $11,794,416,139$ | $10,795,084,608$ | $7,725,680,541$ |
| :--- | ---: | ---: | ---: |
| Property and Equipment | $3,762,992$ | $3,756,028$ | $3,582,219$ |
| Receivables less Payables | $263,242,976$ | $(41,800,034)$ | $(337,194,283)$ |
| Deferred Outflows less Deferred Inflows | $2,633,626$ | $4,261,131$ | $(835,940)$ |
| TOTAL ASSETS - Market Value | $\$ 25,050,873,120$ | $\$ 27,724,128,255$ | $\$ 21,220,586,002$ |

Totals may not add due to rounding.

## ACTUARIAL VALUE OF ASSETS

The actuarial value of assets (AVA) is determined as the market value of assets (MVA) adjusted to gradually recognize investment gains and losses relative to the net assumed investment return, over a fiveyear period in 20\% increments. The actuarial value of assets is subject to Corridor Limits of $80 \%$ to $120 \%$ of the Market Value of Assets. The tables below show the development of the actuarial value of assets and the amount of deferred gains and losses to be recognized in future years.


Deferred Gain/(Loss) to be Recognized in Actuarial Value of Assets in Future Years

| Plan <br> Year | Deferred <br> Gain/(Loss) | $\mathbf{2 0 2 3}$ | $\mathbf{2 0 2 4}$ | $\mathbf{2 0 2 5}$ | $\mathbf{2 0 2 6}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 2019 | $(74,414,671)$ | $(74,414,671)$ |  |  |  |
| 2020 | $(574,595,915)$ | $(287,297,957)$ | $(287,297,958)$ |  |  |
| 2021 | $3,365,864,261$ | $1,121,954,754$ | $1,121,954,754$ | $1,121,954,753$ |  |
| 2022 | $(3,253,884,787)$ | $(813,471,197)$ | $(813,471,197)$ | $(813,471,197)$ | $(813,471,196)$ |
|  | $(537,031,112)$ | $(53,229,071)$ | $21,185,599$ | $308,483,556$ | $(813,471,196)$ |

## SIDE ACCOUNTS AND DEVELOPMENT OF VALUATION ASSETS

|  | June 30, 2022 |  | ---- Prior Years ---- |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | June 30, 2021 |  | June 30, 2020 |  |
| EMPLOYER CREDIT ACCOUNT ${ }^{\mathbf{1}}$ : |  |  |  |  |  |  |
| Prior Year Ending Balance | \$ | - | \$ | - | \$ | - |
| + Contributions |  | - |  | - |  |  |
| - Disbursements |  | - |  | - |  |  |
| + Accumulated Interest |  | - |  | - |  | - |
| Account Balance - Year End |  | - |  | - |  |  |
| LSU AG/EXT SERVICE: |  |  |  |  |  |  |
| Prior Year Ending Balance | \$ | 4,072,820 | \$ | 3,289,245 | \$ | 2,985,411 |
| + Contributions |  | 1,987,638 |  | 2,075,689 |  | 2,017,909 |
| - Benefit Disbursements |  | 1,739,624 |  | 1,856,703 |  | 1,987,638 |
| + Accumulated Interest |  | 466,867 |  | 564,589 |  | 273,563 |
| Account Balance - Year End |  | 4,787,701 |  | 4,072,820 |  | 3,289,245 |

EXPERIENCE ACCOUNT FUND:

|  | Prior Year Ending Balance | $\$$ | $369,000,000$ | $\$$ |
| :--- | ---: | ---: | ---: | ---: |
| + | Experience Account Allocation |  | $90,502,699$ |  |
| - | Benefit Disbursements | $265,864,686$ | $91,497,197$ |  |
| + | Accumulated Interest |  | $353,117,800$ |  |
| Fund Balance - Year End | $33,070,423$ | $12,357,251$ | - |  |

## DEVELOPMENT OF

VALUATION ASSETS:
Actuarial Value of Assets
\$ 25,587,904,232 \$ 24,114,655,748 \$ 22,072,044,244

- Employer Credit Account
- LSU Ag/Ext Service Account

4,787,701
4,072,820
3,289,245

- Experience Account Fund

79,455,322
25,503,661,209
23,741,582,928
97,714,607
Val Valuation Assets
2503,61,20
,71,582,928
21,971,040,392

1 The Employer Credit Account was created by ACT 588 of 2004.

## DEVELOPMENT OF COSTS, LIABILITIES AND CONTRIBUTIONS

Normal Costs and Accrued Liabilities are calculated in accordance with the Entry Age Normal cost method, based on the Provisions of the Plan as summarized in Appendix B and the Actuarial Methods and Assumptions outlined in Appendix E.

June 30, 2022
---- Prior Year ----
June 30, 2021

|  |  | r Amount | \% of Salary | Dollar Amount |  | \% of Salary |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Discount Rate | 7.25\% |  |  | 7.40\% |  |  |
| I. Normal Costs |  |  |  |  |  |  |
| Active Members |  |  |  |  |  |  |
| a) Retirement Benefits | \$ | 294,658,128 | 6.49\% | \$ | 275,442,967 | 6.35\% |
| b) Disability Benefits |  | 17,064,177 | 0.38\% |  | 15,952,286 | 0.37\% |
| c) Survivor Benefits |  | 6,774,747 | 0.15\% |  | 6,345,805 | 0.15\% |
| d) Voluntary Termination |  | 200,076,197 | 4.41\% |  | 184,749,636 | 4.26\% |
| e) Total |  | 518,573,249 | 11.42\% |  | 482,490,694 | 11.13\% |

II. Actuarial Accrued Liability
a) Active Members

1) Retirement Benefits
2) Disability Benefits
3) Survivor Benefits
\$ 8,848,522,959
\$ 8,374,588,534
4) Voluntary Termination

216,216,437
202,007,601
88,956,781
83,988,558
879,947,489
$755,906,098$
$9,416,490,791$
b) Retired and Inactive Members

1) Regular Retirees
2) Disability Benefits
3) Survivors
4) Vested Deferred ${ }^{1}$
5) Contributions Refunded ${ }^{2}$
6) DROP Deferred Benefits
7) DROP Account Balances
c) Total
\$ 19,065,031,049
486,394,793
1,433,699,979
537,084,048
153,664,375
$34,593,361,759$
\$ 18,305,744,624
475,820,491
1,338,227,031
478,670,699
136,698,682
$33,058,826,858$
1 Includes pending Retirement/DROP applications.
2 Includes terminated employee and rehired retiree contributions to be refunded.

|  | June 30, 2022 | ---- Prior Year ---- |
| :---: | :---: | :---: |
| II. Actuarial Accrued Liability | 34,593,361,759 | 33,058,826,858 |
| Discount Rate | 7.25\% | 7.40\% |
| III. Valuation Assets | 25,503,661,209 | 23,741,582,928 |
| IV. Unfunded Actuarial Accrued Liabilitiy | 9,089,700,550 | 9,317,243,930 |
| a) Change over prior year | $(227,543,380)$ | $(1,052,753,991)$ |
| b) Funded Percentage | 73.7\% | 71.8\% |
| V. Employer Contributions |  |  |
| To Fund Current Plan Year ${ }^{1}$ |  |  |
| a) Employer Portion of Normal Cost | 157,245,549 | 137,467,163 |
| b) Administrative Expenses | 17,000,000 | 16,500,000 |
| c) Amortization Payments | 1,057,196,433 | 1,007,292,858 |
| d) Prior Contribution Variance | 0 | 0 |
| Total Required Contribution | 1,231,441,982 | 1,161,260,021 |
| Total Contribution Rate | 24.2\% | 23.9\% |
| PRSAC Approved rate ${ }^{1}$ | 24.7\% | 25.1\% |
| Aggregate Employer Normal Cost Rate | $3.4357 \%$ | 3.1473\% |
| VI. Projected Employer Contributions |  |  |
| Discount Rate | 7.25\% | 7.25\% |
| To Fund Next Plan Year ${ }^{1}$ |  |  |
| a) Employer Portion of Normal Cost | 159,348,458 | 155,302,581 |
| b) Administrative Expenses | 17,000,000 | 16,500,000 |
| c) Amortization Payments | 1,057,196,433 | 1,043,951,405 |
| c) Prior Contribution Variance | 0 | 0 |
| Total Required Contribution | 1,233,544,891 | 1,215,753,986 |
| Total Contribution Rate | 24.0\% | 24.7\% |
| Projected Aggregate Employer Normal Cost Rate | $3.4357 \%$ | 3.5104\% |
| VII. Current Payroll | 4,541,421,889 | 4,335,090,648 |
| Projected Payroll - Mid Year | 4,576,767,126 | 4,367,724,091 |
| Projected Payroll - Next Year | 4,637,974,093 | 4,424,019,346 |
| Optional Retirement Plan (ORP) Salary Adjustment Factor ${ }^{2}$ | 1.13089 | 1.13436 |

[^0]
## GASB STATEMENT NO. 67/68 REPORTING

The Governmental Accounting Standards Board Statements No. $67 / 68$ establish financial reporting standards for state and local governmental pension plans and their plan sponsors that are administered through trusts or equivalent arrangements. The required actuarial disclosures are illustrated below. The Plan Fiduciary Net Position is the Market Value of Assets used for the funding valuation, excluding assets held for the LSU Agriculture and Extension Service. The Total Pension Liability was developed using the Entry Age Normal cost method.

## SCHEDULE OF EMPLOYERS' NET PENSION LIABILITY

|  | June 30, 2022 |  | June 30, 2021 |  | June 30, 2020 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Pension Liability | \$ | 34,593,361,759 | \$ | 33,058,826,858 | \$ | 32,340,867,066 |
| Plan Fiduciary Net Position ${ }^{1}$ |  | 25,046,085,419 |  | 27,720,055,435 |  | 21,217,296,757 |
| Employers' Net Pension Liability | \$ | 9,547,276,340 | \$ | 5,338,771,423 | \$ | 11,123,570,309 |
| Plan Fiduciary Net Position as a percentage of Total Pension Liability |  | 72.4\% |  | 83.9\% |  | 65.6\% |
| Covered Employee Payroll | \$ | 4,541,421,889 | \$ | 4,335,090,648 | \$ | 4,229,620,981 |
| Net Pension Liability as a percentage of Covered Payroll |  | 210.2\% |  | 123.2\% |  | 263.0\% |

## SCHEDULE OF EMPLOYER CONTRIBUTIONS

| Fiscal Year | Actuarial <br> Determined <br> Contribution | Contributions in <br> Relation to <br> Actuarial <br> Determined <br> Contribution | Contribution Deficiency (Excess) ${ }^{2}$ | Covered Payroll | Contributions as a $\%$ of Covered Payroll |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2013 | 1,149,134,132 | 1,137,733,532 | 11,400,600 | 3,726,325,750 | 30.5\% |
| 2014 | 1,218,397,771 | 1,258,687,418 | $(40,289,647)$ | 3,764,954,727 | 33.4\% |
| 2015 | 1,212,285,929 | 1,303,570,582 | $(91,284,653)$ | 3,815,648,662 | 34.2\% |
| 2016 | 1,177,993,580 | 1,242,445,786 | $(64,452,206)$ | 3,869,730,024 | 32.1\% |
| 2017 | 1,188,962,275 | 1,204,634,319 | $(15,672,044)$ | 3,901,627,792 | 30.9\% |
| 2018 | 1,227,397,115 | 1,288,863,851 | (61,466,736) | 3,998,051,313 | 32.2\% |
| 2019 | 1,246,577,897 | 1,306,003,522 | $(59,425,625)$ | 4,071,754,355 | 32.1\% |
| 2020 | 1,221,266,156 | 1,313,932,563 | $(92,666,407)$ | 4,229,620,981 | 31.1\% |
| 2021 | 1,243,818,612 | 1,328,176,588 | (84,357,976) | 4,335,090,648 | 30.6\% |
| 2022 | 1,213,461,726 | 1,357,609,195 | $(144,147,469)$ | 4,541,421,889 | 29.9\% |

[^1]
## SCHEDULE OF CHANGES IN <br> EMPLOYERS' NET PENSION LIABILITY

|  | June 30, 2022 | June 30, 2021 | June 30, 2020 |
| :---: | :---: | :---: | :---: |
| Total Pension Liability |  |  |  |
| Service Cost | \$ 482,490,694 | \$ 468,547,375 | \$ 454,344,240 |
| Interest | 2,394,974,360 | 2,358,286,993 | 2,333,436,352 |
| Changes of Benefit Terms | 353,117,800 | 6,937,251 |  |
| Diff. Between Expected and Actual | 159,411,123 | 34,084,245 | $(2,565,994)$ |
| Changes of Assumptions | 498,139,277 | 159,214,885 | 225,604,318 |
| Retirement Benefits ${ }^{1}$ | (2,303,868,400) | (2,256,015,333) | (2,193,873,471) |
| Refunds/Transfers of Member Contributions | $(49,729,953)$ | $(53,095,624)$ | $(50,225,236)$ |
| Net Change in Total Pension Liability | 1,534,534,901 | 717,959,792 | 766,720,209 |
| Total Pension Liability - Beginning | 33,058,826,858 | 32,340,867,066 | 31,574,146,857 |
| Total Pension Liability - Ending (a) | \$ 34,593,361,759 | \$ 33,058,826,858 | \$ 32,340,867,066 |
| Plan Fiduciary Net Position |  |  |  |
| Employer Contributions ${ }^{1}$ | 1,266,088,182 | 1,239,712,158 | 1,222,809,468 |
| Non-Employer Contributions | 45,234,317 | 43,151,074 | 43,151,074 |
| Employee Contributions | 378,065,213 | 361,684,671 | 351,287,976 |
| Net Investment Income ${ }^{1}$ | $(2,043,179,975)$ | 7,163,605,200 | 170,755,803 |
| Other Income | 49,860,339 | 19,804,296 | 39,770,864 |
| Retirement Benefits ${ }^{1}$ | (2,303,868,400) | (2,256,015,333) | (2,193,873,471) |
| Refunds/Transfers of Member Contributions | $(49,729,953)$ | $(53,095,624)$ | $(50,225,236)$ |
| Administrative Expense | $(15,312,628)$ | $(16,002,619)$ | $(15,994,167)$ |
| Other Postemployment Benefit Expenses | $(632,234)$ | 385,301 | 540,170 |
| Depreciation and Amortization Expenses | $(494,877)$ | $(470,446)$ | $(422,685)$ |
| Net Change in Plan Fiduciary Net Position | (2,673,970,016) | 6,502,758,678 | (432,200,204) |
| Plan Fiduciary Net Position-Beginning | 27,720,055,435 | 21,217,296,757 | 21,649,496,961 |
| Plan Fiduciary Net Position - Ending (b) | \$ 25,046,085,419 | \$ 27,720,055,435 | \$ 21,217,296,757 |
| Net Pension Liability - Ending (a) - (b) | \$ 9,547,276,340 | \$ 5,338,771,423 | \$11,123,570,309 |
| Plan Fiduciary Net Position as a Percentage of the Total Pension Liability | 72.4\% | 83.9\% | 65.6\% |
| Covered Employee Payroll | \$ 4,541,421,889 | \$ 4,335,090,648 | \$ 4,229,620,981 |
| Net Pension Liability as a |  |  |  |
| Percentage of Covered Employee Payroll | 210.2\% | 123.2\% | 263.0\% |

## Actuarial Assumptions:

All assumptions used for purposes of GASB Statement $67 / 68$ reporting requirements are described in Appendix D. Administrative expenses will be directly reflected in the employer pension expense in the year incurred in the Statement $67 / 68$ reporting, rather than with an explicit reduction in the discount rate. A description of the discount rate used for GASB Statement 67/68 reporting is provided below.

## Discount Rate:

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage, and by adding expected inflation and an adjustment for the effect of rebalancing/ diversification. The resulting long-term geometric nominal expected return is $8.32 \%$. Best estimates of longterm real rates of return for each major asset class included in the pension plan's target asset allocation as of June 30,2022 , are summarized in the following table:

| Asset Class | Long Term Expected <br> Real Rate of Return |
| :--- | :---: |
| Domestic Equity | $4.15 \%$ |
| International Equity | $5.16 \%$ |
| Domestic Fixed Income | $0.85 \%$ |
| International Fixed Income | $-0.10 \%$ |
| Private Equity | $8.15 \%$ |
| Other Private Assets | $3.72 \%$ |

The discount rate used to measure the total pension liability is 7.25 percent.
The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

## Sensitivity of the Net Pension Liability to Changes in the Discount Rate:

The following presents the net pension liability calculated using the discount rate of $7.25 \%$, and what the net pension liability would be if it were calculated using a discount rate that is $1 \%$ lower or $1 \%$ higher.

|  | $1 \%$ Decrease | Current Discount Rate | $1 \%$ Increase |
| :--- | :---: | :---: | :---: |
| Employers | $6.25 \%$ | $7.25 \%$ | $8.25 \%$ |
| Net Pension Liability | $\$ 13,111,690,284$ | $\$ 9,547,276,340$ | $\$ 6,310,697,462$ |

The Schedule of Pension Amounts, that follows, provides employers with amounts to be recognized in the financial statements and note disclosures for GASB 68 reporting. In accordance with GASB Statement 68, changes in total pension liability due to differences between actual and expected experience and changes in assumptions are amortized over a period equal to the average of the expected remaining service lives of all employees that are provided with pensions through the pension plan (active and inactive employees) determined as of the beginning of the measurement period. The current average remaining service life, when rounded up to the next higher whole number, remains at 5 years. Differences between projected and actual investment returns are amortized over a closed 5-year period.

## SCHEDULE OF PENSION AMOUNTS

## Beginning balance

## Total Pension Liability Factors:

Service cost
Interest
Changes in benefit terms
Differences between expected and actual experience
Amortization of current year
Amortization of prior years
Changes in assumptions
Amortization of current year
Amortization of prior years
Benefit payments
Refunds/Transfers of Member Contributions

## Net Change in Total Pension Liability

## Plan Fiduciary Net Position:

Contributions - Employer
Contributions - Non-Empl. Contributing Entities
Contributions - Employees
Expected earnings on pension plan investments
Diff. between projected and actual investment earnings Amortization of current year
Amortization of prior years
Retirement Benefits
Administrative Expense
Refunds/Transfers of Member Contributions
Adjusting Entry
Other
Net Change in Plan Fiduciary Net Position
Ending Balance

| Net Pension Liability | Deferred Inflows | Deferred Outflows | Pension <br> Expense |
| :---: | :---: | :---: | :---: |
| (5,338,771,423) | $(4,699,135,145)$ | 1,561,541,115 |  |
| $(482,490,694)$ |  |  | 482,490,694 |
| (2,394,974,360) |  |  | 2,394,974,360 |
| $(353,117,800)$ |  |  | 353,117,800 |
| (159,411,123) | - | 159,411,123 |  |
|  | - | $(31,882,225)$ | 31,882,225 |
|  | 53,192,028 | $(6,816,849)$ | $(46,375,179)$ |
| $(498,139,277)$ | - | 498,139,277 |  |
|  | - | $(99,627,855)$ | 99,627,855 |
|  | - | $(274,241,466)$ | 274,241,466 |
| 2,303,868,400 |  |  |  |
| 49,729,953 |  |  |  |
| (1,534,534,901) | 53,192,028 | 244,982,005 | 3,589,959,221 |



## MEMBERSHIP DATA

TRSL provides the data for individual members of the system as of the valuation date. The validity of the results of any actuarial valuation is dependent upon the accuracy of the data provided. Our review of submitted data is limited to validation of reasonableness and consistency in several areas, such as age, service, salary, and current benefits. Our review includes checks for duplicate records and a comparison of the current year records to those submitted in prior years. Records identified as containing suspicious data were assigned values based on information from similar records or based on historical averages for similarly situated members. Suspicious data are not necessarily errors, but data which fall outside the normal parameters. Notwithstanding our efforts to review both census and financial data for apparent errors, we must rely upon the system's administrative staff and accountants to provide accurate information.

The data contained in this valuation is summarized on the following pages. The data summarized in the tables that follow serve as the basis for determining costs and liabilities. Salary data contained in the profiles and valuation report exceed the amount reported by internal audit for members with less than one year of service. In the valuation process, salaries are annualized for members with fractional service in the first year of employment. Disability retirees who have reached normal retirement eligibility requirements are considered regular retirees by TRSL but are classified as disability retirees for purposes of the actuarial valuation. Liabilities are calculated accordingly.

| Active Members | 2022 |  | 2021 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Members | Avg. Salary | Members | Avg. Salary |
| Regular Teachers | 71,856 | \$ 50,210 | 71,724 | \$ 48,223 |
| Higher Education | 11,543 | 68,381 | 11,127 | 65,916 |
| Lunch Plan A | 1 | 32,340 | 1 | 35,585 |
| Lunch Plan B | 1,059 | 23,677 | 1,097 | 22,366 |
| Subtotal Actives | 84,459 | 52,361 | 83,949 | 50,230 |
| Post DROP | 1,905 | 59,893 | 2,031 | 57,117 |
| Total Active | 86,364 | 52,527 | 85,980 | 50,393 |
|  | 2022 |  | 2021 |  |
| Retired and Inactive Members | Members |  | Members |  |
| Regular Retirees | 70,075 |  | 69,297 |  |
| Disability Retirees | 3,982 |  | 4,060 |  |
| Survivors | 8,543 |  | 8,263 |  |
| DROP Participants | 2,172 |  | 2,227 |  |
| Terminated Vested | 9,245 |  | 8,409 |  |
| Inactive Non-Vested (Due Refunds) | 27,722 |  | 25,641 |  |
| Total Retired and Inactive | 121,739 |  | 117,897 |  |
| Total Members | 208,103 |  | 203,877 |  |
| Less Inactive Non-Vested (Due Refunds) | -27,722 |  | -25,641 |  |
| Total Active and Vested Inactive | 180,381 |  | 178,236 |  |

## ACTIVE MEMBERS

|  | Pre-DROP | Post-DROP | Total |
| :--- | ---: | ---: | :---: |
| Non-Vested | 29,050 |  | 29,050 |
| Vested | 55,409 | 1,905 | 57,314 |
|  | 84,459 | 1,905 | 86,364 |

## MEMBER RECONCILIATION

|  | Active (PreDROP) | Active after DROP | Terminated Vested | $\begin{gathered} \text { In } \\ \text { DROP } \end{gathered}$ | Retired, <br> Disabled, Survivor | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| June 20, 2021 | 83,949 | 2,031 | 8,409 | 2,227 | 81,620 | 178,236 |
| Additions to Census |  |  |  |  |  |  |
| Newly Hired Members | 9,615 |  |  |  |  | 9,615 |
| Change in Status |  |  |  |  |  |  |
| New Regular Retirees <br> New Disability Retirees <br> New Survivors <br> Active to Terminated Vested <br> Active to DROP <br> Terminated Vested to Active <br> Terminated Vested to Ret/Srv <br> Disability to Active/TV <br> DROP to Active After DROP <br> Act aft DROP to Ret/Srv <br> Terminated Vested to DROP <br> DROP to Ret/Srv | $\begin{array}{r} (1,722) \\ (93) \\ (36) \\ (2,022) \\ (823) \\ 525 \\ 3 \end{array}$ | $\begin{gathered} 346 \\ (469) \end{gathered}$ | $\begin{gathered} 2,022 \\ \\ (525) \\ (263) \\ 1 \end{gathered}$ (3) | $\begin{array}{r} 823 \\ \\ (346) \\ 3 \\ (523) \\ \hline \end{array}$ | 1,722 <br> 93 <br> 36 <br> 263 <br> (4) <br> 469 <br> 523 | 0 0 0 0 0 0 0 0 0 0 0 0 |
| Eliminated from Census |  |  |  |  |  |  |
| Refunded or Due Refund Deceased | $\begin{array}{r} (4,866) \\ (47) \\ \hline \end{array}$ | (7) | $\begin{array}{r} (387) \\ (32) \\ \hline \end{array}$ | (5) | $\begin{array}{r} (1) \\ (2,209) \\ \hline \end{array}$ | $\begin{aligned} & (5,254) \\ & (2,300) \end{aligned}$ |
| Data Revisions | (24) | 4 | 23 | (7) | 88 | 84 |
| June 20, 2022 | 84,459 | 1,905 | 9,245 | 2,172 | 82,600 | 180,381 |

## TRSL MEMBERSHIP PROFILE ALL ACTIVE MEMBERS (PRE-DROP)

MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/2022

| Age/Years | <1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<25$ | $\begin{array}{r} 1,028 \\ \$ 46,524,965 \end{array}$ | $\begin{array}{r} 1,181 \\ \$ 52,545,664 \end{array}$ | $\begin{array}{r} 4 \\ \$ 106,840 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 2,213 \\ \$ 99,177,469 \end{array}$ |
| 25-29 | $\begin{array}{r} 1,395 \\ \$ 64,260,528 \end{array}$ | $\begin{array}{r} 4,766 \\ \$ 221,588,093 \\ \hline \end{array}$ | $\begin{array}{r} 1,188 \\ \$ 60,407,090 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 7,349 \\ \$ 346,255,711 \end{array}$ |
| 30-34 | $\begin{array}{r} 1,095 \\ \$ 50,139,849 \\ \hline \end{array}$ | $\begin{array}{r} 3,665 \\ \$ 167,402,361 \\ \hline \end{array}$ | $\begin{array}{r} 4,195 \\ \$ 219,139,498 \\ \hline \end{array}$ | $\begin{array}{r} 747 \\ \$ 41,911,135 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 9,702 \\ \$ 478,592,843 \\ \hline \end{array}$ |
| 35-39 | $\begin{array}{r} 1,012 \\ \$ 47,164,257 \end{array}$ | $\begin{array}{r} \hline 3,270 \\ \$ 150,143,857 \\ \hline \end{array}$ | $\begin{array}{r} \hline 3,311 \\ \$ 172,807,086 \\ \hline \end{array}$ | $\begin{array}{r} 3,101 \\ \$ 180,261,019 \end{array}$ | $\begin{array}{r} 987 \\ \$ 60,527,751 \end{array}$ |  |  |  |  | $\begin{array}{r} 11,681 \\ \$ 610,903,970 \\ \hline \end{array}$ |
| 40-44 | $\begin{array}{r} 782 \\ \$ 37,495,705 \end{array}$ | $\begin{array}{r} \hline 2,737 \\ \$ 122,539,326 \end{array}$ | $\begin{array}{r} 2,789 \\ \$ 142,296,589 \end{array}$ | $\begin{array}{r} 2,357 \\ \$ 134,723,201 \\ \hline \end{array}$ | $\begin{array}{r} 3,392 \\ \$ 208,911,245 \\ \hline \end{array}$ | $\begin{array}{r} 944 \\ \$ 61,488,312 \end{array}$ | $\begin{array}{r} 2 \\ \$ 64,498 \end{array}$ |  |  | $\begin{array}{r} \hline 13,003 \\ \$ 707,518,876 \end{array}$ |
| 45-49 | $\begin{array}{r} 548 \\ \$ 26,624,927 \end{array}$ | $\begin{array}{r} 2,065 \\ \$ 93,005,553 \end{array}$ | $\begin{array}{r} \hline 2,187 \\ \$ 109,337,183 \end{array}$ | $\begin{array}{r} 1,805 \\ \$ 101,113,091 \\ \hline \end{array}$ | $\begin{array}{r} 2,268 \\ \$ 133,931,379 \end{array}$ | $\begin{array}{r} \hline 2,798 \\ \$ 186,494,279 \\ \hline \end{array}$ | $\begin{array}{r} 678 \\ \$ 46,904,707 \end{array}$ |  |  | $\begin{array}{r} 12,349 \\ \$ 697,411,119 \end{array}$ |
| 50-54 | $\begin{array}{r} 521 \\ \$ 24,957,263 \end{array}$ | $\begin{array}{r} 1,639 \\ \$ 75,296,369 \end{array}$ | $\begin{array}{r} 1,756 \\ \$ 83,584,576 \end{array}$ | $\begin{array}{r} 1,651 \\ \$ 84,867,074 \end{array}$ | $\begin{array}{r} 1,953 \\ \$ 106,188,172 \end{array}$ | $\begin{array}{r} 2,006 \\ \$ 124,202,483 \end{array}$ | $\begin{array}{r} 2,341 \\ \$ 161,651,414 \end{array}$ | $\begin{array}{r} 102 \\ \$ 8,599,281 \end{array}$ |  | $\begin{array}{r} \hline 11,969 \\ \$ 669,346,632 \end{array}$ |
| 55-59 | $\begin{array}{r} 343 \\ \$ 14,422,185 \end{array}$ | $\begin{array}{r} 1,310 \\ \$ 57,121,170 \end{array}$ | $\begin{array}{r} 1,323 \\ \$ 59,677,542 \end{array}$ | $\begin{array}{r} 1,253 \\ \$ 62,944,790 \end{array}$ | $\begin{array}{r} 1,611 \\ \$ 80,265,646 \end{array}$ | $\begin{array}{r} 1,439 \\ \$ 77,808,958 \end{array}$ | $\begin{array}{r} 372 \\ \$ 22,926,646 \end{array}$ | $\begin{array}{r} 141 \\ \$ 10,902,144 \end{array}$ | $\begin{array}{r} 28 \\ \$ 2,069,892 \end{array}$ | $\begin{array}{r} 7,820 \\ \$ 388,138,973 \end{array}$ |
| 60-64 | $\begin{array}{r} 226 \\ \$ 10,144,418 \end{array}$ | $\begin{array}{r} 834 \\ \$ 36,215,170 \end{array}$ | $\begin{array}{r} 887 \\ \$ 40,779,449 \\ \hline \end{array}$ | $\begin{array}{r} 736 \\ \$ 37,035,314 \\ \hline \end{array}$ | $\begin{array}{r} 872 \\ \$ 42,611,265 \end{array}$ | $\begin{array}{r} 912 \\ \$ 47,456,693 \end{array}$ | $\begin{array}{r} 367 \\ \$ 19,341,095 \end{array}$ | $\begin{array}{r} 105 \\ \$ 6,481,334 \end{array}$ | $\begin{array}{r} 63 \\ \$ 4,735,479 \\ \hline \end{array}$ | $\begin{array}{r} 5,002 \\ \$ 244,800,217 \\ \hline \end{array}$ |
| 65-69 | $\begin{array}{r} 88 \\ \$ 3,945,485 \\ \hline \end{array}$ | $\begin{array}{r} 332 \\ \$ 16,062,023 \end{array}$ | $\begin{array}{r} 360 \\ \$ 17,407,716 \\ \hline \end{array}$ | $\begin{array}{r} 310 \\ \$ 15,682,777 \end{array}$ | $\begin{array}{r} 391 \\ \$ 21,035,793 \end{array}$ | $\begin{array}{r} 307 \\ \$ 15,338,750 \end{array}$ | $\begin{array}{r} 270 \\ \$ 14,209,712 \end{array}$ | $\begin{array}{r} 108 \\ \$ 6,375,197 \\ \hline \end{array}$ | $\begin{array}{r} 76 \\ \$ 7,320,794 \\ \hline \end{array}$ | $\begin{array}{r} 2,242 \\ \$ 117,378,247 \end{array}$ |
| 70+ | $\begin{array}{r} 46 \\ \$ 1,701,558 \\ \hline \end{array}$ | $\begin{array}{r} 167 \\ \$ 6,732,331 \\ \hline \end{array}$ | $\begin{array}{r} 159 \\ \$ 7,560,956 \\ \hline \end{array}$ | $\begin{array}{r} 157 \\ \$ 8,041,868 \\ \hline \end{array}$ | $\begin{array}{r} 175 \\ \$ 9,648,357 \\ \hline \end{array}$ | $\begin{array}{r} 115 \\ \$ 6,782,959 \\ \hline \end{array}$ | $\begin{array}{r} 102 \\ \$ 5,553,293 \\ \hline \end{array}$ | $\begin{array}{r} 74 \\ \$ 4,445,481 \\ \hline \end{array}$ | $\begin{array}{r} 134 \\ \$ 12,337,707 \\ \hline \end{array}$ | $\begin{array}{r} 1,129 \\ \$ 62,804,510 \end{array}$ |
| Total | $\begin{array}{r} 7,084 \\ \$ 327,381,139 \\ \hline \end{array}$ | $\begin{array}{r} 21,966 \\ \$ 998,651,917 \\ \hline \end{array}$ | $\begin{array}{r} 18,159 \\ \$ 913,104,525 \\ \hline \end{array}$ | $\begin{array}{r} 12,117 \\ \$ 666,580,269 \\ \hline \end{array}$ | $\begin{array}{r} 11,649 \\ \$ 663,119,608 \\ \hline \end{array}$ | $\begin{array}{r} 8,521 \\ \$ 519,572,434 \\ \hline \end{array}$ | $\begin{array}{r} 4,132 \\ \$ 270,651,365 \\ \hline \end{array}$ | $\begin{array}{r} 530 \\ \$ 36,803,437 \\ \hline \end{array}$ | $\begin{array}{r} 301 \\ \$ 26,463,872 \end{array}$ | 84,459 $\$ 4,422,328,566$ |


| AVERAGES | --- | Attained Age | 44.60 |
| :--- | :---: | :---: | :---: |
|  |  | Service Years | 10.46 |
|  | Active Salary | $\$ 52,361$ |  |

## TRSL MEMBERSHIP PROFILE

## ACTIVE - REGULAR K-12

MEMBER COUNT
TOTAL SALARY

VALUATION DATE 6/30/2022

| Age/Years | <1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<25$ | $\begin{array}{r} 791 \\ \$ 35,417,778 \end{array}$ | $\begin{array}{r} 1,077 \\ \$ 48,309,828 \end{array}$ | $\begin{array}{r} 4 \\ \$ 106,840 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 1,872 \\ \$ 83,834,446 \end{array}$ |
| 25-29 | $\begin{array}{r} 1,022 \\ \$ 44,887,546 \\ \hline \end{array}$ | $\begin{array}{r} 4,202 \\ \$ 196,634,255 \\ \hline \end{array}$ | $\begin{array}{r} 1,113 \\ \$ 56,708,809 \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 6,337 \\ \$ 298,230,610 \\ \hline \end{array}$ |
| 30-34 | $\begin{array}{r} 803 \\ \$ 33,096,203 \end{array}$ | $\begin{array}{r} 2,974 \\ \$ 129,299,704 \\ \hline \end{array}$ | $\begin{array}{r} 3,809 \\ \$ 197,165,228 \\ \hline \end{array}$ | $\begin{array}{r} 710 \\ \$ 39,643,176 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 8,296 \\ \$ 399,204,311 \\ \hline \end{array}$ |
| 35-39 | $\begin{array}{r} 755 \\ \$ 30,629,387 \end{array}$ | $\begin{array}{r} 2,580 \\ \$ 106,969,846 \\ \hline \end{array}$ | $\begin{array}{r} 2,780 \\ \$ 138,406,285 \\ \hline \end{array}$ | $\begin{array}{r} 2,847 \\ \$ 163,580,763 \\ \hline \end{array}$ | $\begin{array}{r} 944 \\ \$ 57,707,798 \end{array}$ |  |  |  |  | $\begin{array}{r} 9,906 \\ \$ 497,294,079 \\ \hline \end{array}$ |
| 40-44 | $\begin{array}{r} 594 \\ \$ 25,170,751 \end{array}$ | $\begin{array}{r} 2,146 \\ \$ 86,858,877 \end{array}$ | $\begin{array}{r} 2,315 \\ \$ 108,982,382 \end{array}$ | $\begin{array}{r} 2,025 \\ \$ 111,830,020 \end{array}$ | $\begin{array}{r} 3,141 \\ \$ 191,225,068 \\ \hline \end{array}$ | $\begin{array}{r} 911 \\ \$ 59,090,731 \end{array}$ | $\begin{array}{r} 2 \\ \$ 64,498 \end{array}$ |  |  | $\begin{array}{r} 11,134 \\ \$ 583,222,327 \\ \hline \end{array}$ |
| 45-49 | $\begin{array}{r} 400 \\ \$ 17,309,151 \end{array}$ | $\begin{array}{r} 1,656 \\ \$ 68,926,446 \end{array}$ | $\begin{array}{r} 1,822 \\ \$ 83,822,693 \end{array}$ | $\begin{array}{r} 1,569 \\ \$ 83,681,470 \end{array}$ | $\begin{array}{r} 2,022 \\ \$ 115,829,071 \\ \hline \end{array}$ | $\begin{array}{r} 2,692 \\ \$ 177,885,930 \\ \hline \end{array}$ | $\begin{array}{r} 665 \\ \$ 45,906,404 \end{array}$ |  |  | $\begin{array}{r} 10,826 \\ \$ 593,361,165 \\ \hline \end{array}$ |
| 50-54 | $\begin{array}{r} 377 \\ \$ 15,210,443 \end{array}$ | $\begin{array}{r} 1,298 \\ \$ 52,491,471 \end{array}$ | $\begin{array}{r} 1,468 \\ \$ 65,739,709 \end{array}$ | $\begin{array}{r} 1,417 \\ \$ 68,643,276 \end{array}$ | $\begin{array}{r} 1,719 \\ \$ 89,323,151 \end{array}$ | $\begin{array}{r} 1,872 \\ \$ 113,499,564 \\ \hline \end{array}$ | $\begin{array}{r} 2,246 \\ \$ 153,900,592 \end{array}$ | $\begin{array}{r} 93 \\ \$ 7,769,321 \\ \hline \end{array}$ |  | $\begin{array}{r} \hline 10,490 \\ \$ 566,577,527 \\ \hline \end{array}$ |
| 55-59 | $\begin{array}{r} 255 \\ \$ 9,493,656 \\ \hline \end{array}$ | $\begin{array}{r} 1,000 \\ \$ 37,563,553 \end{array}$ | $\begin{array}{r} 1,058 \\ \$ 43,138,196 \end{array}$ | $\begin{array}{r} 1,037 \\ \$ 47,954,898 \end{array}$ | $\begin{array}{r} 1,385 \\ \$ 65,136,226 \end{array}$ | $\begin{array}{r} 1,308 \\ \$ 68,899,781 \end{array}$ | $\begin{array}{r} 306 \\ \$ 18,473,550 \end{array}$ | $\begin{array}{r} 127 \\ \$ 9,602,317 \\ \hline \end{array}$ | $\begin{array}{r} 24 \\ \$ 1,605,217 \end{array}$ | $\begin{array}{r} 6,500 \\ \$ 301,867,394 \\ \hline \end{array}$ |
| 60-64 | $\begin{array}{r} 163 \\ \$ 6,247,413 \end{array}$ | $\begin{array}{r} 599 \\ \$ 21,484,484 \end{array}$ | $\begin{array}{r} 673 \\ \$ 25,761,000 \end{array}$ | $\begin{array}{r} 560 \\ \$ 25,129,763 \end{array}$ | $\begin{array}{r} 728 \\ \$ 31,699,826 \end{array}$ | $\begin{array}{r} 815 \\ \$ 40,276,071 \end{array}$ | $\begin{array}{r} 323 \\ \$ 15,864,228 \end{array}$ | $\begin{array}{r} 87 \\ \$ 5,143,318 \end{array}$ | $\begin{array}{r} 53 \\ \$ 3,937,166 \end{array}$ | $\begin{array}{r} 4,001 \\ \$ 175,543,269 \end{array}$ |
| 65-69 | $\begin{array}{r} 65 \\ \$ 2,395,318 \\ \hline \end{array}$ | $\begin{array}{r} 236 \\ \$ 8,414,909 \end{array}$ | $\begin{array}{r} 258 \\ \$ 9,918,994 \\ \hline \end{array}$ | $\begin{array}{r} 226 \\ \$ 9,188,113 \end{array}$ | $\begin{array}{r} 308 \\ \$ 14,421,035 \\ \hline \end{array}$ | $\begin{array}{r} 273 \\ \$ 12,944,496 \end{array}$ | $\begin{array}{r} 243 \\ \$ 12,209,698 \end{array}$ | $\begin{array}{r} 86 \\ \$ 4,480,122 \\ \hline \end{array}$ | $\begin{array}{r} 37 \\ \$ 2,741,246 \\ \hline \end{array}$ | $\begin{array}{r} 1,732 \\ \$ 76,713,931 \\ \hline \end{array}$ |
| 70+ | $\begin{array}{r} \hline 33 \\ \$ 957,966 \\ \hline \end{array}$ | $\begin{array}{r} 124 \\ \$ 4,394,679 \end{array}$ | $\begin{array}{r} 106 \\ \$ 3,883,624 \end{array}$ | $\begin{array}{r} 109 \\ \$ 4,571,071 \end{array}$ | $\begin{array}{r} 120 \\ \$ 4,877,352 \end{array}$ | $\begin{array}{r} 76 \\ \$ 3,524,604 \end{array}$ | 81 $\$ 4,211,054$ | $\begin{array}{r} \hline 55 \\ \$ 2,655,622 \\ \hline \end{array}$ | $\begin{array}{r} 58 \\ \$ 2,974,093 \end{array}$ | $\begin{array}{r}762 \\ \$ 32,050,065 \\ \hline\end{array}$ |
| Total | $\begin{array}{r} 5,258 \\ \$ 220,815,610 \end{array}$ | $\begin{array}{r} 17,892 \\ \$ 761,348,052 \end{array}$ | $\begin{array}{r} 15,406 \\ \$ 733,633,760 \end{array}$ | $\begin{array}{r} 10,500 \\ \$ 554,222,550 \end{array}$ | $\begin{array}{r} 10,367 \\ \$ 570,219,527 \end{array}$ | $\begin{array}{r} 7,947 \\ \$ 476,121,177 \end{array}$ | $\begin{array}{r} 3,866 \\ \$ 250,630,024 \end{array}$ | $\begin{array}{r} 448 \\ \$ 29,650,700 \end{array}$ | $\begin{array}{r} 172 \\ \$ 11,257,722 \end{array}$ | $\begin{array}{r} 71,856 \\ \$ 3,607,899,122 \end{array}$ |


| AVERAGES | --- | Attained Age | 44.39 |
| :--- | :--- | :--- | ---: |
|  |  | Service Years | 10.88 |
|  | Active Salary | $\$ 50,210$ |  |

## TRSL MEMBERSHIP PROFILE

## ACTIVE - HIGHER EDUCATION

CELLS DEPICT
MEMBER COUNT
TOTAL SALARY

VALUATION DATE 6/30/2022

| Age/Years | <1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<25$ | $\begin{array}{r} 227 \\ \$ 10,877,777 \end{array}$ | $\begin{array}{r} 97 \\ \$ 4,091,995 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 324 \\ \$ 14,969,772 \end{array}$ |
| 25-29 | $\begin{array}{r} 358 \\ \$ 19,021,835 \end{array}$ | $\begin{array}{r} 552 \\ \$ 24,748,215 \end{array}$ | $\begin{array}{r} 70 \\ \$ 3,597,361 \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 980 \\ \$ 47,367,411 \end{array}$ |
| 30-34 | $\begin{array}{r} 275 \\ \$ 16,640,495 \end{array}$ | $\begin{array}{r} 667 \\ \$ 37,624,719 \end{array}$ | $\begin{array}{r} 378 \\ \$ 21,785,575 \end{array}$ | $\begin{array}{r} 37 \\ \$ 2,267,959 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 1,357 \\ \$ 78,318,748 \end{array}$ |
| 35-39 | $\begin{array}{r} 240 \\ \$ 16,109,424 \end{array}$ | $\begin{array}{r} 654 \\ \$ 42,374,568 \end{array}$ | $\begin{array}{r} 511 \\ \$ 33,775,383 \end{array}$ | $\begin{array}{r} 247 \\ \$ 16,482,523 \end{array}$ | $\begin{array}{r} 42 \\ \$ 2,798,981 \end{array}$ |  |  |  |  | $\begin{array}{r} 1,694 \\ \$ 111,540,879 \end{array}$ |
| 40-44 | $\begin{array}{r} 173 \\ \$ 11,949,553 \end{array}$ | $\begin{array}{r} 540 \\ \$ 34,506,937 \end{array}$ | $\begin{array}{r} 449 \\ \$ 32,747,944 \end{array}$ | $\begin{array}{r} 320 \\ \$ 22,558,846 \end{array}$ | $\begin{array}{r} 246 \\ \$ 17,571,741 \end{array}$ | $\begin{array}{r} 31 \\ \$ 2,294,011 \end{array}$ |  |  |  | $\begin{array}{r} 1,759 \\ \$ 121,629,032 \end{array}$ |
| 45-49 | $\begin{array}{r} 134 \\ \$ 9,017,388 \end{array}$ | $\begin{array}{r} 362 \\ \$ 23,106,138 \end{array}$ | $\begin{array}{r} 339 \\ \$ 24,901,430 \end{array}$ | $\begin{array}{r} 222 \\ \$ 17,065,566 \end{array}$ | $\begin{array}{r} 234 \\ \$ 17,796,173 \end{array}$ | $\begin{array}{r} 105 \\ \$ 8,582,049 \end{array}$ | $\begin{array}{r} 11 \\ \$ 952,401 \end{array}$ |  |  | $\begin{array}{r} 1,407 \\ \$ 101,421,145 \\ \hline \end{array}$ |
| 50-54 | $\begin{array}{r} 133 \\ \$ 9,510,692 \\ \hline \end{array}$ | $\begin{array}{r} 296 \\ \$ 21,829,896 \end{array}$ | $\begin{array}{r} 251 \\ \$ 16,943,554 \end{array}$ | $\begin{array}{r} 206 \\ \$ 15,594,756 \end{array}$ | $\begin{array}{r} 205 \\ \$ 16,072,892 \end{array}$ | $\begin{array}{r} 122 \\ \$ 10,349,835 \end{array}$ | $\begin{array}{r} 93 \\ \$ 7,681,808 \\ \hline \end{array}$ | $\begin{array}{r} 9 \\ \$ 829,960 \end{array}$ |  | $\begin{array}{r} 1,315 \\ \$ 98,813,393 \end{array}$ |
| 55-59 | $\begin{array}{r} 68 \\ \$ 4,446,159 \\ \hline \end{array}$ | $\begin{array}{r} 260 \\ \$ 18,552,947 \end{array}$ | $\begin{array}{r} 211 \\ \$ 15,293,066 \end{array}$ | $\begin{array}{r} 179 \\ \$ 14,108,330 \end{array}$ | $\begin{array}{r} 181 \\ \$ 14,020,959 \end{array}$ | $\begin{array}{r} 94 \\ \$ 7,952,251 \\ \hline \end{array}$ | $\begin{array}{r} 43 \\ \$ 3,784,120 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ \$ 1,299,827 \end{array}$ | $\begin{array}{r} 3 \\ \$ 430,492 \end{array}$ | $\begin{array}{r} 1,053 \\ \$ 79,888,151 \end{array}$ |
| 60-64 | $\begin{array}{r} 52 \\ \$ 3,615,468 \end{array}$ | $\begin{array}{r} 193 \\ \$ 13,878,019 \end{array}$ | $\begin{array}{r} 177 \\ \$ 14,038,962 \end{array}$ | $\begin{array}{r} 153 \\ \$ 11,404,041 \end{array}$ | $\begin{array}{r} 132 \\ \$ 10,619,132 \end{array}$ | $\begin{array}{r} 85 \\ \$ 6,863,674 \end{array}$ | $\begin{array}{r} 37 \\ \$ 3,264,056 \end{array}$ | $\begin{array}{r} 17 \\ \$ 1,315,088 \end{array}$ | $\begin{array}{r} 9 \\ \$ 768,605 \end{array}$ | $\begin{array}{r} 855 \\ \$ 65,767,045 \end{array}$ |
| 65-69 | $\begin{array}{r} 18 \\ \$ 1,383,744 \\ \hline \end{array}$ | $\begin{array}{r} 81 \\ \$ 7,310,563 \\ \hline \end{array}$ | $\begin{array}{r} 88 \\ \$ 7,190,835 \\ \hline \end{array}$ | $\begin{array}{r} 75 \\ \$ 6,288,069 \\ \hline \end{array}$ | $\begin{array}{r} 80 \\ \$ 6,534,325 \\ \hline \end{array}$ | $\begin{array}{r} 31 \\ \$ 2,320,459 \end{array}$ | $\begin{array}{r} 26 \\ \$ 1,976,166 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ \$ 1,895,075 \\ \hline \end{array}$ | $\begin{array}{r} 38 \\ \$ 4,547,208 \\ \hline \end{array}$ | $\begin{array}{r} 459 \\ \$ 39,446,444 \end{array}$ |
| 70+ | $\begin{array}{r} 11 \\ \$ 696,393 \end{array}$ | $\begin{array}{r} 36 \\ \$ 2,190,346 \end{array}$ | $\begin{array}{r} 46 \\ \$ 3,522,270 \end{array}$ | $\begin{array}{r} 43 \\ \$ 3,358,985 \end{array}$ | $\begin{array}{r} 53 \\ \$ 4,735,334 \end{array}$ | $\begin{array}{r} 37 \\ \$ 3,203,776 \end{array}$ | $\begin{array}{r} 20 \\ \$ 1,320,802 \end{array}$ | $\begin{array}{r} 19 \\ \$ 1,789,859 \end{array}$ | 75 $\$ 9,343,895$ | $\begin{array}{r} 340 \\ \$ 30,161,660 \end{array}$ |
| Total | $\begin{array}{r} 1,689 \\ \$ 103,268,927 \\ \hline \end{array}$ | $\begin{array}{r} 3,738 \\ \$ 230,214,343 \end{array}$ | $\begin{array}{r} 2,520 \\ \$ 173,796,380 \end{array}$ | $\begin{array}{r} 1,482 \\ \$ 109,129,075 \end{array}$ | $\begin{array}{r} 1,173 \\ \$ 90,149,537 \end{array}$ | $\begin{array}{r} 505 \\ \$ 41,566,055 \end{array}$ | $\begin{array}{r} 230 \\ \$ 18,979,353 \end{array}$ | $\begin{array}{r} 81 \\ \$ 7,129,809 \end{array}$ | $\begin{array}{r} 125 \\ \$ 15,090,200 \\ \hline \end{array}$ | $\begin{array}{r} 11,543 \\ \$ 789,323,679 \end{array}$ |


| AVERAGES | --- | Attained Age | 45.27 |
| :--- | :--- | :--- | ---: |
|  | Service Years | 8.04 |  |
|  | Active Salary | $\$ 68,381$ |  |

## TRSL MEMBERSHIP PROFILE

## ACTIVE - LUNCH PLAN A

CELLS DEPICT - MEMBER COUNT
VALUATION DATE 6/30/2022

| Age/Years | <1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| <25 |  |  |  |  |  |  |  |  |  |  |
| 25-29 |  |  |  |  |  |  |  |  |  |  |
| 30-34 |  |  |  |  |  |  |  |  |  |  |
| 35-39 |  |  |  |  |  |  |  |  |  |  |
| 40-44 |  |  |  |  |  |  |  |  |  |  |
| 45-49 |  |  |  |  |  |  |  |  |  |  |
| 50-54 |  |  |  |  |  |  |  |  |  |  |
| 55-59 |  |  |  |  |  |  |  |  |  |  |
| 60-64 |  |  |  |  |  |  |  |  |  |  |
| 65-69 |  |  |  |  |  |  |  |  | $\begin{array}{r} 1 \\ \$ 32,340 \end{array}$ | $\begin{array}{r} 1 \\ \$ 32,340 \end{array}$ |
| 70+ |  |  |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  | $\begin{array}{r} 1 \\ \$ 32,340 \end{array}$ | 1 $\$ 32,340$ |


| AVERAGES | -- | Attained Age | 66.4 |
| :--- | :--- | :--- | ---: |
|  |  | Service Years | 43.5 |
|  | Active Salary | $\$ 32,340$ |  |

## TRSL MEMBERSHIP PROFILE

## ACTIVE - LUNCH PLAN B

CELLS DEPICT
MEMBER COUNT
TOTAL SALARY

| Age/Years | <1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| <25 | $\begin{array}{r} 10 \\ \$ 229,410 \end{array}$ | $\begin{array}{r} 7 \\ \$ 143,841 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 17 \\ \$ 373,251 \end{array}$ |
| 25-29 | $\begin{array}{r} 15 \\ \$ 351,148 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ \$ 205,623 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ \$ 100,920 \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 32 \\ \$ 657,691 \\ \hline \end{array}$ |
| 30-34 | $\begin{array}{r} 17 \\ \$ 403,152 \end{array}$ | $\begin{array}{r} 24 \\ \$ 477,938 \end{array}$ | $\begin{array}{r} 8 \\ \$ 188,695 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 49 \\ \$ 1,069,785 \\ \hline \end{array}$ |
| 35-39 | $\begin{array}{r} 17 \\ \$ 425,446 \end{array}$ | $\begin{array}{r} 36 \\ \$ 799,443 \end{array}$ | $\begin{array}{r} 20 \\ \$ 625,418 \end{array}$ | $\begin{array}{r} 7 \\ \$ 197,733 \end{array}$ | $\begin{array}{r} 1 \\ \$ 20,972 \end{array}$ |  |  |  |  | $\begin{array}{r} 81 \\ \$ 2,069,012 \end{array}$ |
| 40-44 | $\begin{array}{r} 15 \\ \$ 375,401 \end{array}$ | $\begin{array}{r} 51 \\ \$ 1,173,512 \\ \hline \end{array}$ | $\begin{array}{r} 25 \\ \$ 566,263 \end{array}$ | $\begin{array}{r} 12 \\ \$ 334,335 \end{array}$ | $\begin{array}{r} 5 \\ \$ 114,436 \end{array}$ | $\begin{array}{r} 2 \\ \$ 103,570 \\ \hline \end{array}$ |  |  |  | $\begin{array}{r} 110 \\ \$ 2,667,517 \end{array}$ |
| 45-49 | $\begin{array}{r} 14 \\ \$ 298,388 \end{array}$ | $\begin{array}{r} 47 \\ \$ 972,969 \end{array}$ | $\begin{array}{r} 26 \\ \$ 613,060 \\ \hline \end{array}$ | $\begin{array}{r} 14 \\ \$ 366,055 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ \$ 306,135 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 26,300 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 45,902 \\ \hline \end{array}$ |  |  | $\begin{array}{r} 116 \\ \$ 2,628,809 \\ \hline \end{array}$ |
| 50-54 | $\begin{array}{r} 11 \\ \$ 236,128 \end{array}$ | $\begin{array}{r} 45 \\ \$ 975,002 \end{array}$ | $\begin{array}{r} 37 \\ \$ 901,313 \\ \hline \end{array}$ | $\begin{array}{r} 28 \\ \$ 629,042 \end{array}$ | $\begin{array}{r} 29 \\ \$ 792,129 \\ \hline \end{array}$ | $\begin{array}{r} 12 \\ \$ 353,084 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 69,014 \\ \hline \end{array}$ |  |  | $\begin{array}{r} 164 \\ \$ 3,955,712 \end{array}$ |
| 55-59 | $\begin{array}{r} 20 \\ \$ 482,371 \end{array}$ | $\begin{array}{r} 50 \\ \$ 1,004,670 \\ \hline \end{array}$ | $\begin{array}{r} 54 \\ \$ 1,246,280 \\ \hline \end{array}$ | $\begin{array}{r} 37 \\ \$ 881,562 \\ \hline \end{array}$ | $\begin{array}{r} 45 \\ \$ 1,108,461 \\ \hline \end{array}$ | $\begin{array}{r} 37 \\ \$ 956,926 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 668,976 \\ \hline \end{array}$ |  | $\begin{array}{r} 1 \\ \$ 34,183 \end{array}$ | $\begin{array}{r} 267 \\ \$ 6,383,429 \\ \hline \end{array}$ |
| 60-64 | $\begin{array}{r} 11 \\ \$ 281,537 \end{array}$ | $\begin{array}{r} 42 \\ \$ 852,667 \end{array}$ | $\begin{array}{r} 37 \\ \$ 979,487 \end{array}$ | $\begin{array}{r} 23 \\ \$ 501,510 \end{array}$ | $\begin{array}{r} 12 \\ \$ 292,307 \end{array}$ | $\begin{array}{r} 12 \\ \$ 316,948 \end{array}$ | $\begin{array}{r} 7 \\ \$ 212,811 \end{array}$ | $\begin{array}{r} 1 \\ \$ 22,928 \end{array}$ | $\begin{array}{r} 1 \\ \$ 29,708 \end{array}$ | $\begin{array}{r} 146 \\ \$ 3,489,903 \end{array}$ |
| 65-69 | $\begin{array}{r} 5 \\ \$ 166,423 \end{array}$ | $\begin{array}{r} 15 \\ \$ 336,551 \end{array}$ | $\begin{array}{r} 14 \\ \$ 297,887 \end{array}$ | $\begin{array}{r} 9 \\ \$ 206,595 \end{array}$ | $\begin{array}{r} 3 \\ \$ 80,433 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 73,795 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 23,848 \\ \hline \end{array}$ |  |  | $\begin{array}{r} 50 \\ \$ 1,185,532 \\ \hline \end{array}$ |
| 70+ | $\begin{array}{r} 2 \\ \$ 47,200 \end{array}$ | 7 $\$ 147,306$ | 7 $\$ 155,062$ | $\begin{array}{r} 5 \\ \$ 111,812 \end{array}$ | $\begin{array}{r} 2 \\ \$ 35,671 \end{array}$ | $\begin{array}{r} 2 \\ \$ 54,579 \end{array}$ | 1 $\$ 21,437$ |  | 1 $\$ 19,719$ | 27 $\$ 592,786$ |
| Total | $\begin{array}{r} 137 \\ \$ 3,296,603 \\ \hline \end{array}$ | $\begin{array}{r} 336 \\ \$ 7,089,522 \\ \hline \end{array}$ | $\begin{array}{r} 233 \\ \$ 5,674,385 \\ \hline \end{array}$ | $\begin{array}{r} 135 \\ \$ 3,228,644 \\ \hline \end{array}$ | $\begin{array}{r} 109 \\ \$ 2,750,544 \\ \hline \end{array}$ | $\begin{array}{r} 69 \\ \$ 1,885,202 \\ \hline \end{array}$ | $\begin{array}{r} 36 \\ \$ 1,041,988 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ \$ 22,928 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ \$ 83,610 \\ \hline \end{array}$ | $\begin{array}{r} 1,059 \\ \$ 25,073,426 \\ \hline \end{array}$ |


| AVERAGES | --- | Attained Age | 51.52 |
| :--- | :--- | :--- | ---: |
|  | Service Years | 8.47 |  |
|  | Active Salary | $\$ 23,677$ |  |

## TRSL MEMBERSHIP PROFILE <br> DROP PARTICIPANTS

| Age/Years | <1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-10 | 10-15 | 15-20 | 20+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| < 40 |  |  |  |  |  |  |  |  |  |  |
| 40-44 |  |  |  |  |  |  |  |  |  |  |
| 45-49 |  | $\begin{array}{r} 1 \\ \$ 24,312 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 1 \\ \$ 24,312 \end{array}$ |
| 50-54 | $\begin{array}{r} 236 \\ \$ 10,232,652 \end{array}$ | $\begin{array}{r} 142 \\ \$ 6,612,936 \end{array}$ | $\begin{array}{r} 76 \\ \$ 3,368,892 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ \$ 111,564 \\ \hline \end{array}$ |  |  |  |  |  | $\begin{array}{r} 456 \\ \$ 20,326,044 \\ \hline \end{array}$ |
| 55-59 | $\begin{array}{r} 448 \\ \$ 16,945,487 \end{array}$ | $\begin{array}{r} 444 \\ \$ 17,172,496 \end{array}$ | $\begin{array}{r} 430 \\ \$ 17,230,660 \end{array}$ | $\begin{array}{r} \hline 19 \\ \$ 983,544 \\ \hline \end{array}$ |  |  |  |  |  | $\begin{array}{r} 1,341 \\ \$ 52,332,187 \end{array}$ |
| 60-64 | $\begin{array}{r} 96 \\ \$ 2,671,035 \\ \hline \end{array}$ | $\begin{array}{r} 128 \\ \$ 3,431,432 \\ \hline \end{array}$ | $\begin{array}{r} 132 \\ \$ 3,211,368 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ \$ 290,568 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 363 \\ \$ 9,604,403 \\ \hline \end{array}$ |
| 65-69 | $\begin{array}{r} 1 \\ \$ 3,408 \end{array}$ | $\begin{array}{r} 4 \\ \$ 14,184 \end{array}$ | $\begin{array}{r} 4 \\ \$ 25,536 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 9 \\ \$ 43,128 \end{array}$ |
| 70-74 | $\begin{array}{r} 1 \\ \$ 2,532 \end{array}$ | $\begin{array}{r} 1 \\ \$ 6,540 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 2 \\ \$ 9,072 \end{array}$ |
| 75-79 |  |  |  |  |  |  |  |  |  |  |
| 80-84 |  |  |  |  |  |  |  |  |  |  |
| 85-89 |  |  |  |  |  |  |  |  |  |  |
| 90+ |  |  |  |  |  |  |  |  |  |  |
| Total | $\begin{array}{r} 782 \\ \$ 29,855,115 \end{array}$ | $\begin{array}{r} 720 \\ \$ 27,261,900 \end{array}$ | $\begin{array}{r} 642 \\ \$ 23,836,456 \end{array}$ | $\begin{array}{r} 28 \\ \$ 1,385,676 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 2,172 \\ \$ 82,339,146 \end{array}$ |


| AVERAGES | --- | Attained Age | 56.97 |
| :--- | ---: | ---: | ---: |
|  | Years Retired | 1.34 |  |
|  | Annual Benefit | $\$ 37,909$ |  |

## TRSL MEMBERSHIP PROFILE

## ACTIVE AFTER DROP

## CELLS DEPICT

MEMBER COUNT TOTAL BENEFITS DROP BENEFITS

| Age/Years | <1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-10 | 10-15 | 15-20 | 20+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<44$ |  |  |  |  |  |  |  |  |  |  |
| 45-49 |  |  |  |  |  |  |  |  |  |  |
| 50-54 | $\begin{aligned} & \$ 298,224 \\ & \$ 258,228 \end{aligned}$ | $\begin{array}{r} 2 \\ \$ 68,352 \\ \$ 35,376 \\ \hline \end{array}$ |  |  |  |  |  |  |  | \$366,576 \$293,604 |
| 55-59 | $\begin{array}{r} 233 \\ \$ 10,643,928 \\ \$ 9,160,176 \\ \hline \end{array}$ | $\begin{array}{r} 187 \\ \$ 12,544,796 \\ \$ 7,494,084 \\ \hline \end{array}$ | $\begin{array}{r} 58 \\ \$ 4,201,490 \\ \$ 2,616,240 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 1,733,698 \\ \$ 1,022,256 \end{array}$ | $\begin{array}{r} 21 \\ \$ 1,382,800 \\ \$ 742,860 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ \$ 572,439 \\ \$ 343,032 \end{array}$ |  |  |  | $\begin{array}{r} 530 \\ \$ 31,079,151 \\ \$ 21,378,648 \end{array}$ |
| 60-64 | $\begin{array}{r} 94 \\ \$ 3,039,340 \\ \$ 2,332,896 \\ \hline \end{array}$ | $\begin{array}{r} 111 \\ \$ 5,684,456 \\ \$ 2,838,288 \\ \hline \end{array}$ | $\begin{array}{r} 115 \\ \$ 6,859,340 \\ \$ 3,871,560 \\ \hline \end{array}$ | $\begin{array}{r} 112 \\ \$ 7,408,455 \\ \$ 4,019,256 \\ \hline \end{array}$ | $\begin{array}{r} 66 \\ \$ 4,152,221 \\ \$ 2,298,192 \\ \hline \end{array}$ | $\begin{array}{r} 176 \\ \$ 12,380,009 \\ \$ 7,154,448 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ \$ 337,493 \\ \$ 179,400 \\ \hline \end{array}$ |  |  | 680 $\$ 39,861,314$ $\$ 22,694,040$ |
| 65-69 | $\begin{array}{r} 1 \\ \$ 9,388 \\ \$ 2,196 \end{array}$ | \$155,885 <br> \$65,712 | $\begin{array}{r} 40 \\ \$ 1,913,536 \\ \$ 832,728 \end{array}$ | $\begin{array}{r} 42 \\ \$ 1,954,208 \\ \$ 768,924 \end{array}$ | $\begin{array}{r} 50 \\ \$ 2,420,928 \\ \$ 1,097,256 \end{array}$ | $\begin{array}{r} 205 \\ \$ 12,238,952 \\ \$ 5,882,652 \end{array}$ | $\begin{array}{r} 93 \\ \$ 7,561,439 \\ \$ 3,648,456 \end{array}$ | $\begin{array}{r} 3 \\ \$ 264,646 \\ \$ 113,820 \end{array}$ |  | $\begin{array}{r} 438 \\ \$ 26,518,982 \\ \$ 12,411,744 \end{array}$ |
| 70+ |  | $\begin{array}{r} 1 \\ \$ 21,346 \\ \$ 3,408 \end{array}$ | $\$ 116,755$ $\$ 19,560$ | $\begin{array}{r} 1 \\ \$ 25,277 \\ \$ 3,432 \end{array}$ | $\$ 24,895$ $\$ 4,044$ | $\begin{array}{r} 59 \\ \$ 3,127,193 \\ \$ 1,075,224 \end{array}$ | $\begin{array}{r} 99 \\ \$ 6,073,338 \\ \$ 2,210,604 \end{array}$ | $\begin{array}{r} 66 \\ \$ 5,237,357 \\ \$ 2,046,672 \\ \hline \end{array}$ | $\begin{array}{r} 17 \\ \$ 1,644,727 \\ \$ 532,068 \end{array}$ | $\begin{array}{r} 248 \\ \$ 16,270,888 \\ \$ 5,895,012 \end{array}$ |
| Total | $\begin{array}{r} 335 \\ \hline \$ 13,990,880 \\ \$ 11,753,496 \\ \hline \end{array}$ | 305 $\$ 18,474,835$ $\$ 10,436,868$ | $\begin{array}{r} 217 \\ \$ 13,091,121 \\ \$ 7,340,088 \\ \hline \end{array}$ | 178 $\$ 11,121,638$ $\$ 5,813,868$ | 138 $\$ 7,980,844$ $\$ 4,142,352$ | 448 $\$ 28,318,593$ $\$ 14,455,356$ | $\begin{array}{r} 198 \\ \$ 13,972,270 \\ \$ 6,038,460 \\ \hline \end{array}$ | $\begin{array}{r} \hline 69 \\ \$ 5,502,003 \\ \$ 2,160,492 \\ \hline \end{array}$ | $\begin{array}{r} 17 \\ \$ 1,644,727 \\ \$ 532,068 \\ \hline \end{array}$ | 1905 <br> $\$ 114,096,911$ <br> $\$ 62,673,048$ |

AVERAGES

| Attained Age | 63.88 |
| ---: | ---: |
| Post Drop Years | 4.96 |
| Active Salary | $\$ 59,893$ |
| Annual Benefit | $\$ 32,899$ |

## TRSL MEMBERSHIP PROFILE

## REGULAR RETIREES

MEMBER COUNT TOTAL BENEFITS

| Age/Years | <1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-10 | 10-15 | 15-20 | 20+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| < 40 |  |  |  |  |  |  |  |  |  |  |
| 40-44 | $\begin{array}{r} 20 \\ \$ 314,376 \end{array}$ | $\begin{array}{r} 13 \\ \$ 192,612 \end{array}$ | $\begin{array}{r} 4 \\ \$ 45,324 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 37 \\ \$ 552,312 \end{array}$ |
| 45-49 | $\begin{array}{r} 96 \\ \$ 2,201,544 \end{array}$ | $\begin{array}{r} 78 \\ \$ 1,729,140 \end{array}$ | $\begin{array}{r} 49 \\ \$ 1,081,908 \end{array}$ | $\begin{array}{r} 56 \\ \$ 1,283,004 \end{array}$ | $\begin{array}{r} 50 \\ \$ 1,145,772 \end{array}$ | $\begin{array}{r} 64 \\ \$ 1,370,952 \end{array}$ |  |  |  | $\begin{array}{r} 393 \\ \$ 8,812,320 \end{array}$ |
| 50-54 | $\begin{array}{r} 123 \\ \$ 3,787,548 \end{array}$ | $\begin{array}{r} 114 \\ \$ 3,614,820 \end{array}$ | $\begin{array}{r} 107 \\ \$ 3,104,352 \end{array}$ | $\begin{array}{r} 122 \\ \$ 3,402,156 \end{array}$ | $\begin{array}{r} 104 \\ \$ 2,656,080 \end{array}$ | $\begin{array}{r} 428 \\ \$ 9,674,724 \end{array}$ | $\begin{array}{r} 67 \\ \$ 1,373,628 \end{array}$ | $\begin{array}{r} 1 \\ \$ 11,880 \end{array}$ |  | $\begin{array}{r} 1,066 \\ \$ 27,625,188 \end{array}$ |
| 55-59 | $\begin{array}{r} 214 \\ \$ 6,792,864 \end{array}$ | $\begin{array}{r} 283 \\ \$ 9,883,416 \end{array}$ | $\begin{array}{r} 265 \\ \$ 9,267,336 \end{array}$ | $\begin{array}{r} 562 \\ \$ 21,498,144 \end{array}$ | $\begin{array}{r} 590 \\ \$ 23,229,012 \end{array}$ | $\begin{array}{r} 1,170 \\ \$ 40,847,844 \end{array}$ | $\begin{array}{r} 302 \\ \$ 6,645,060 \end{array}$ | $\begin{array}{r} 100 \\ \$ 1,578,264 \end{array}$ |  | $\begin{array}{r} 3,486 \\ \$ 119,741,940 \end{array}$ |
| 60-64 | $\begin{array}{r} 663 \\ \$ 12,955,584 \\ \hline \end{array}$ | $\begin{array}{r} 744 \\ \$ 14,778,060 \end{array}$ | $\begin{array}{r} 564 \\ \$ 11,070,156 \\ \hline \end{array}$ | $\begin{array}{r} 690 \\ \$ 14,283,996 \end{array}$ | $\begin{array}{r} 604 \\ \$ 13,349,976 \end{array}$ | $\begin{array}{r} 3,300 \\ \$ 121,429,080 \\ \hline \end{array}$ | $\begin{array}{r} 1,319 \\ \$ 50,388,636 \end{array}$ | $\begin{array}{r} 393 \\ \$ 7,002,036 \\ \hline \end{array}$ | $\begin{array}{r} 143 \\ \$ 1,882,548 \\ \hline \end{array}$ | $\begin{array}{r} 8,420 \\ \$ 247,140,072 \\ \hline \end{array}$ |
| 65-69 | $\begin{array}{r} 396 \\ \$ 9,214,476 \end{array}$ | $\begin{array}{r} 549 \\ \$ 14,079,312 \end{array}$ | $\begin{array}{r} 470 \\ \$ 11,672,976 \end{array}$ | $\begin{array}{r} 574 \\ \$ 13,278,564 \end{array}$ | $\begin{array}{r} 527 \\ \$ 12,308,988 \end{array}$ | $\begin{array}{r} 4,288 \\ \$ 92,869,128 \end{array}$ | $\begin{array}{r} 4,318 \\ \$ 168,338,592 \\ \hline \end{array}$ | $\begin{array}{r} 2,390 \\ \$ 84,242,172 \end{array}$ | $\begin{array}{r} 770 \\ \$ 11,436,696 \end{array}$ | $\begin{array}{r} 14,282 \\ \$ 417,440,904 \end{array}$ |
| 70-74 | $\begin{array}{r} 132 \\ \$ 3,904,572 \end{array}$ | $\begin{array}{r} 195 \\ \$ 5,441,772 \\ \hline \end{array}$ | $\begin{array}{r} 207 \\ \$ 6,192,552 \\ \hline \end{array}$ | $\begin{array}{r} 241 \\ \$ 6,623,424 \\ \hline \end{array}$ | $\begin{array}{r} 291 \\ \$ 7,122,432 \end{array}$ | $\begin{array}{r} 2,382 \\ \$ 60,407,496 \end{array}$ | $\begin{array}{r} 3,897 \\ \$ 82,702,068 \end{array}$ | $\begin{array}{r} 5,822 \\ \$ 206,815,692 \\ \hline \end{array}$ | $\begin{array}{r} 3,067 \\ \$ 86,346,720 \end{array}$ | $\begin{array}{r} 16,234 \\ \$ 465,556,728 \end{array}$ |
| 75-79 | $\begin{array}{r} 35 \\ \$ 970,848 \end{array}$ | $\begin{array}{r} 62 \\ \$ 2,354,100 \end{array}$ | $\begin{array}{r} 43 \\ \$ 1,460,004 \end{array}$ | $\begin{array}{r} 77 \\ \$ 2,528,976 \end{array}$ | $\begin{array}{r} 77 \\ \$ 2,609,808 \end{array}$ | $\begin{array}{r} 767 \\ \$ 21,558,624 \end{array}$ | $\begin{array}{r} 1,303 \\ \$ 33,804,180 \end{array}$ | $\begin{array}{r} 3,318 \\ \$ 63,642,420 \end{array}$ | $\begin{array}{r} 6,346 \\ \$ 198,263,160 \end{array}$ | $\begin{array}{r} 12,028 \\ \$ 327,192,120 \end{array}$ |
| 80-84 | $\begin{array}{r} 11 \\ \$ 262,116 \end{array}$ | $\begin{array}{r} 10 \\ \$ 426,084 \end{array}$ | $\begin{array}{r} 5 \\ \$ 235,392 \end{array}$ | $\begin{array}{r} 16 \\ \$ 515,508 \end{array}$ | $\begin{array}{r} 18 \\ \$ 430,380 \\ \hline \end{array}$ | $\begin{array}{r} 159 \\ \$ 5,618,856 \\ \hline \end{array}$ | $\begin{array}{r} 367 \\ \$ 11,745,144 \\ \hline \end{array}$ | $\begin{array}{r} 860 \\ \$ 21,341,568 \end{array}$ | $\begin{array}{r} 6,122 \\ \$ 155,840,364 \\ \hline \end{array}$ | $\begin{array}{r} 7,568 \\ \$ 196,415,412 \\ \hline \end{array}$ |
| 85-89 |  | $\begin{array}{r} 2 \\ \$ 19,044 \end{array}$ | $\begin{array}{r} 3 \\ \$ 69,036 \end{array}$ | $\begin{array}{r} 2 \\ \$ 114,252 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ \$ 172,332 \end{array}$ | $\begin{array}{r} 27 \\ \$ 1,053,180 \end{array}$ | $\begin{array}{r} 68 \\ \$ 2,400,468 \end{array}$ | $\begin{array}{r} 210 \\ \$ 5,416,920 \end{array}$ | $\begin{array}{r} 3,934 \\ \$ 94,627,440 \end{array}$ | $\begin{array}{r} 4,250 \\ \$ 103,872,672 \end{array}$ |
| 90+ |  | $\begin{array}{r} 1 \\ \$ 7,116 \end{array}$ |  |  |  | 5 $\$ 226,332$ | 7 $\$ 209,916$ | 25 $\$ 778,260$ | $\begin{array}{r} 2,273 \\ \$ 49,033,524 \end{array}$ | $\begin{array}{r} 2,311 \\ \$ 50,255,148 \end{array}$ |
| Total | $\begin{array}{r} 1,690 \\ \$ 40,403,928 \end{array}$ | $\begin{array}{r} 2,051 \\ \$ 52,525,476 \end{array}$ | $\begin{array}{r} 1,717 \\ \$ 44,199,036 \end{array}$ | $\begin{array}{r} 2,340 \\ \$ 63,528,024 \end{array}$ | $\begin{array}{r} 2,265 \\ \$ 63,024,780 \end{array}$ | $\begin{array}{r} \hline 12,590 \\ \$ 355,056,216 \\ \hline \end{array}$ | $\begin{array}{r} \hline 11,648 \\ \$ 357,607,692 \\ \hline \end{array}$ | $\begin{array}{r} 13,119 \\ \$ 390,829,212 \end{array}$ | $\begin{array}{r} \hline 22,655 \\ \$ 597,430,452 \end{array}$ | $\begin{array}{r} 70,075 \\ \$ 1,964,604,816 \end{array}$ |


| AVERAGES | --- | Attained Age | 72.60 |
| :--- | ---: | ---: | ---: |
|  | Years Retired | 15.53 |  |
|  | Annual Benefit | $\$ 28,036$ |  |

## TRSL MEMBERSHIP PROFILE DISABILITY RETIREES

| CELLS DEPICT - | MEMBER COUNT |
| :--- | :--- |
|  | TOTAL BENEFITS |


| Age/Years | <1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-10 | 10-15 | 15-20 | 20+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<40$ | $\begin{array}{r} 1 \\ \$ 17,580 \end{array}$ | $\begin{array}{r} 1 \\ \$ 22,344 \end{array}$ | $\begin{array}{r} 1 \\ \$ 14,256 \end{array}$ | $\begin{array}{r} 2 \\ \$ 37,608 \end{array}$ | $\begin{array}{r} 2 \\ \$ 28,992 \end{array}$ | $\begin{array}{r} 4 \\ \$ 63,756 \end{array}$ |  |  |  | $\begin{array}{r} 11 \\ \$ 184,536 \end{array}$ |
| 40-44 | $\begin{array}{r} 8 \\ \$ 234,456 \end{array}$ | $\begin{array}{r} 5 \\ \$ 59,040 \end{array}$ | $\begin{array}{r} 8 \\ \$ 198,360 \\ \hline \end{array}$ | $\begin{array}{r} 4 \\ \$ 86,976 \end{array}$ | $\begin{array}{r} 7 \\ \$ 112,476 \end{array}$ | $\begin{array}{r} 28 \\ \$ 471,384 \end{array}$ | $\begin{array}{r} 4 \\ \$ 56,520 \end{array}$ |  |  | $\begin{array}{r} 64 \\ \$ 1,219,212 \\ \hline \end{array}$ |
| 45-49 | $\begin{array}{r} 11 \\ \$ 327,648 \end{array}$ | $\begin{array}{r} 12 \\ \$ 300,660 \end{array}$ | $\begin{array}{r} 16 \\ \$ 373,848 \end{array}$ | $\begin{array}{r} 13 \\ \$ 298,260 \end{array}$ | $\begin{array}{r} 13 \\ \$ 347,616 \end{array}$ | $\begin{array}{r} 50 \\ \$ 989,400 \end{array}$ | $\begin{array}{r} 25 \\ \$ 348,504 \end{array}$ | $\begin{array}{r} 6 \\ \$ 69,972 \end{array}$ |  | $\begin{array}{r} 146 \\ \$ 3,055,908 \end{array}$ |
| 50-54 | $\begin{array}{r} 27 \\ \$ 604,264 \end{array}$ | $\begin{array}{r} 17 \\ \$ 368,544 \end{array}$ | $\begin{array}{r} 23 \\ \$ 484,788 \end{array}$ | $\begin{array}{r} 25 \\ \$ 480,240 \end{array}$ | $\begin{array}{r} 27 \\ \$ 593,592 \end{array}$ | $\begin{array}{r} 106 \\ \$ 2,273,652 \end{array}$ | $\begin{array}{r} 37 \\ \$ 597,408 \end{array}$ | $\begin{array}{r} 14 \\ \$ 138,540 \end{array}$ | $\begin{array}{r} 10 \\ \$ 91,956 \end{array}$ | $\begin{array}{r} 286 \\ \$ 5,632,984 \end{array}$ |
| 55-59 | $\begin{array}{r} 30 \\ \$ 499,916 \end{array}$ | $\begin{array}{r} 33 \\ \$ 647,316 \end{array}$ | $\begin{array}{r} 27 \\ \$ 469,848 \end{array}$ | $\begin{array}{r} 18 \\ \$ 329,352 \end{array}$ | $\begin{array}{r} 24 \\ \$ 362,196 \\ \hline \end{array}$ | $\begin{array}{r} 175 \\ \$ 2,730,300 \end{array}$ | $\begin{array}{r} 80 \\ \$ 1,291,212 \\ \hline \end{array}$ | $\begin{array}{r} 38 \\ \$ 424,644 \end{array}$ | $\begin{array}{r} 30 \\ \$ 297,960 \\ \hline \end{array}$ | $\begin{array}{r} 455 \\ \$ 7,052,744 \end{array}$ |
| 60-64 | $\begin{array}{r} 12 \\ \$ 264,684 \end{array}$ | $\begin{array}{r} 21 \\ \$ 295,848 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ \$ 185,724 \end{array}$ | $\begin{array}{r} 37 \\ \$ 529,788 \\ \hline \end{array}$ | $\begin{array}{r} 37 \\ \$ 496,428 \\ \hline \end{array}$ | $\begin{array}{r} 210 \\ \$ 3,276,384 \end{array}$ | $\begin{array}{r} 123 \\ \$ 1,700,100 \end{array}$ | $\begin{array}{r} 96 \\ \$ 1,145,340 \end{array}$ | $\begin{array}{r} 92 \\ \$ 979,596 \end{array}$ | $\begin{array}{r} 639 \\ \$ 8,873,892 \end{array}$ |
| 65-69 | $\begin{array}{r} 2 \\ \$ 24,948 \end{array}$ | $\begin{array}{r} 4 \\ \$ 56,640 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ \$ 70,548 \end{array}$ | $\begin{array}{r} 3 \\ \$ 27,888 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ \$ 174,624 \end{array}$ | $\begin{array}{r} 142 \\ \$ 2,072,436 \end{array}$ | $\begin{array}{r} 150 \\ \$ 2,144,772 \end{array}$ | $\begin{array}{r} 160 \\ \$ 2,060,868 \\ \hline \end{array}$ | $\begin{array}{r} 203 \\ \$ 2,195,460 \\ \hline \end{array}$ | $\begin{array}{r} 682 \\ \$ 8,828,184 \end{array}$ |
| 70-74 | $\begin{array}{r} 1 \\ \$ 11,724 \\ \hline \end{array}$ |  |  | $\begin{array}{r} 3 \\ \$ 40,176 \end{array}$ |  | $\begin{array}{r} 54 \\ \$ 750,672 \\ \hline \end{array}$ | $\begin{array}{r} 131 \\ \$ 1,848,240 \\ \hline \end{array}$ | $\begin{array}{r} 188 \\ \$ 2,269,236 \end{array}$ | $\begin{array}{r} 339 \\ \$ 3,975,396 \\ \hline \end{array}$ | $\begin{array}{r} 716 \\ \$ 8,895,444 \end{array}$ |
| 75-79 |  |  |  | $\begin{array}{r} 1 \\ \$ 11,784 \end{array}$ | $\begin{array}{r} 1 \\ \$ 13,776 \end{array}$ | $\begin{array}{r} 8 \\ \$ 112,224 \end{array}$ | $\begin{array}{r} 28 \\ \$ 388,248 \end{array}$ | $\begin{array}{r} 113 \\ \$ 1,270,668 \\ \hline \end{array}$ | $\begin{array}{r} 353 \\ \$ 3,824,376 \end{array}$ | $\begin{array}{r} 504 \\ \$ 5,621,076 \\ \hline \end{array}$ |
| 80-84 |  |  |  |  | $\begin{array}{r} 1 \\ \$ 10,992 \end{array}$ |  | $\begin{array}{r} 4 \\ \$ 67,068 \end{array}$ | $\begin{array}{r} 14 \\ \$ 159,348 \end{array}$ | $\begin{array}{r} 293 \\ \$ 3,045,480 \end{array}$ | $\begin{array}{r} 312 \\ \$ 3,282,888 \end{array}$ |
| 85-89 |  |  |  |  |  |  |  | $\begin{array}{r} 4 \\ \$ 32,292 \end{array}$ | $\begin{array}{r} 122 \\ \$ 1,274,964 \end{array}$ | $\begin{array}{r} 126 \\ \$ 1,307,256 \end{array}$ |
| 90+ |  |  |  |  |  |  |  |  | $\begin{array}{r} 41 \\ \$ 439,080 \end{array}$ | $\begin{array}{r} 41 \\ \$ 439,080 \end{array}$ |
| Total | $\begin{array}{r} 92 \\ \$ 1,985,220 \\ \hline \end{array}$ | $\begin{array}{r} 93 \\ \$ 1,750,392 \\ \hline \end{array}$ | $\begin{array}{r} 93 \\ \$ 1,797,372 \\ \hline \end{array}$ | $\begin{array}{r} 106 \\ \$ 1,842,072 \end{array}$ | $\begin{array}{r} 123 \\ \$ 2,140,692 \\ \hline \end{array}$ | $\begin{array}{r} 777 \\ \$ 12,740,208 \\ \hline \end{array}$ | $\begin{array}{r} 582 \\ \$ 8,442,072 \\ \hline \end{array}$ | $\begin{array}{r} 633 \\ \$ 7,570,908 \\ \hline \end{array}$ | $\begin{array}{r} 1,483 \\ \$ 16,124,268 \end{array}$ | $\begin{array}{r} 3,982 \\ \$ 54,393,204 \\ \hline \end{array}$ |


| AVERAGES | --- | Attained Age | 67.47 |
| :--- | :--- | ---: | ---: |
|  | Years Retired | 16.86 |  |
|  | Annual Benefit | $\$ 13,660$ |  |

## TRSL MEMBERSHIP PROFILE <br> SURVIVOR BENEFITS

MEMBER COUNT
TOTAL BENEFITS

VALUATION DATE 6/30/2022

| Age/Years | <1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-10 | 10-15 | 15-20 | 20+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<40$ | $\begin{array}{r} 28 \\ \$ 400,548 \end{array}$ | $\begin{array}{r} 32 \\ \$ 410,652 \end{array}$ | $\begin{array}{r} 31 \\ \$ 361,356 \end{array}$ | $\begin{array}{r} 25 \\ \$ 298,092 \end{array}$ | $\begin{array}{r} 23 \\ \$ 279,900 \end{array}$ | $\begin{array}{r} 84 \\ \$ 1,174,104 \end{array}$ | $\begin{array}{r} 39 \\ \$ 591,660 \end{array}$ | $\begin{array}{r} 14 \\ \$ 215,844 \end{array}$ | $\begin{array}{r} 9 \\ \$ 134,028 \end{array}$ | $\begin{array}{r} 285 \\ \$ 3,866,184 \end{array}$ |
| 40-44 | $\begin{array}{r} 8 \\ \$ 134,784 \end{array}$ | $\begin{array}{r} 13 \\ \$ 241,032 \\ \hline \end{array}$ | $\begin{array}{r} 17 \\ \$ 255,876 \\ \hline \end{array}$ | $\begin{array}{r} 15 \\ \$ 197,100 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ \$ 107,472 \end{array}$ | $\begin{array}{r} 55 \\ \$ 843,768 \\ \hline \end{array}$ | $\begin{array}{r} 20 \\ \$ 303,288 \end{array}$ | $\begin{array}{r} 18 \\ \$ 303,900 \end{array}$ | $\begin{array}{r} 15 \\ \$ 156,216 \end{array}$ | $\begin{array}{r} 169 \\ \$ 2,543,436 \\ \hline \end{array}$ |
| 45-49 | $\begin{array}{r} 18 \\ \$ 341,040 \\ \hline \end{array}$ | $\begin{array}{r} 25 \\ \$ 366,480 \\ \hline \end{array}$ | $\begin{array}{r} 19 \\ \$ 382,788 \\ \hline \end{array}$ | $\begin{array}{r} 17 \\ \$ 230,952 \\ \hline \end{array}$ | $\begin{array}{r} 19 \\ \$ 258,444 \\ \hline \end{array}$ | $\begin{array}{r} 49 \\ \$ 605,916 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ \$ 343,524 \\ \hline \end{array}$ | $\begin{array}{r} 24 \\ \$ 392,304 \\ \hline \end{array}$ | $\begin{array}{r} 18 \\ \$ 243,324 \\ \hline \end{array}$ | $\begin{array}{r} 211 \\ \$ 3,164,772 \\ \hline \end{array}$ |
| 50-54 | $\begin{array}{r} 22 \\ \$ 377,028 \\ \hline \end{array}$ | $\begin{array}{r} 43 \\ \$ 776,868 \\ \hline \end{array}$ | $\begin{array}{r} 24 \\ \$ 428,460 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 359,172 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 337,476 \\ \hline \end{array}$ | $\begin{array}{r} 95 \\ \$ 1,227,900 \\ \hline \end{array}$ | $\begin{array}{r} 55 \\ \$ 851,496 \\ \hline \end{array}$ | $\begin{array}{r} 36 \\ \$ 395,928 \\ \hline \end{array}$ | $\begin{array}{r} 47 \\ \$ 585,216 \\ \hline \end{array}$ | $\begin{array}{r} 368 \\ \$ 5,339,544 \\ \hline \end{array}$ |
| 55-59 | $\begin{array}{r} 40 \\ \$ 727,128 \\ \hline \end{array}$ | $\begin{array}{r} 32 \\ \$ 639,972 \\ \hline \end{array}$ | $\begin{array}{r} 38 \\ \$ 771,396 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 524,988 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ \$ 381,684 \\ \hline \end{array}$ | $\begin{array}{r} 91 \\ \$ 1,533,768 \\ \hline \end{array}$ | $\begin{array}{r} 73 \\ \$ 771,924 \\ \hline \end{array}$ | $\begin{array}{r} 54 \\ \$ 678,444 \\ \hline \end{array}$ | $\begin{array}{r} 60 \\ \$ 803,196 \\ \hline \end{array}$ | $\begin{array}{r} 433 \\ \$ 6,832,500 \end{array}$ |
| 60-64 | $\begin{array}{r} 46 \\ \$ 1,091,352 \\ \hline \end{array}$ | $\begin{array}{r} 57 \\ \$ 1,071,600 \\ \hline \end{array}$ | $\begin{array}{r} 48 \\ \$ 1,040,580 \\ \hline \end{array}$ | $\begin{array}{r} 32 \\ \$ 586,992 \\ \hline \end{array}$ | $\begin{array}{r} 32 \\ \$ 656,256 \\ \hline \end{array}$ | $\begin{array}{r} 135 \\ \$ 2,506,176 \\ \hline \end{array}$ | $\begin{array}{r} 97 \\ \$ 1,409,388 \\ \hline \end{array}$ | $\begin{array}{r} 65 \\ \$ 1,114,596 \\ \hline \end{array}$ | $\begin{array}{r} 74 \\ \$ 1,135,692 \\ \hline \end{array}$ | $\begin{array}{r} 586 \\ \$ 10,612,632 \\ \hline \end{array}$ |
| 65-69 | $\begin{array}{r} 68 \\ \$ 1,459,164 \\ \hline \end{array}$ | $\begin{array}{r} 61 \\ \$ 1,238,076 \\ \hline \end{array}$ | $\begin{array}{r} 59 \\ \$ 1,336,896 \\ \hline \end{array}$ | $\begin{array}{r} 62 \\ \$ 1,394,844 \\ \hline \end{array}$ | $\begin{array}{r} 36 \\ \$ 877,476 \\ \hline \end{array}$ | $\begin{array}{r} 199 \\ \$ 4,731,720 \\ \hline \end{array}$ | $\begin{array}{r} 157 \\ \$ 3,059,268 \\ \hline \end{array}$ | $\begin{array}{r} 84 \\ \$ 1,378,524 \\ \hline \end{array}$ | $\begin{array}{r} 110 \\ \$ 1,383,348 \\ \hline \end{array}$ | $\begin{array}{r} 836 \\ \$ 16,859,316 \\ \hline \end{array}$ |
| 70-74 | $\begin{array}{r} 94 \\ \$ 2,666,184 \\ \hline \end{array}$ | $\begin{array}{r} 99 \\ \$ 2,720,052 \\ \hline \end{array}$ | $\begin{array}{r} 99 \\ \$ 2,636,148 \\ \hline \end{array}$ | $\begin{array}{r} 73 \\ \$ 1,705,584 \end{array}$ | $\begin{array}{r} 77 \\ \$ 2,100,816 \\ \hline \end{array}$ | $\begin{array}{r} 280 \\ \$ 7,499,304 \end{array}$ | $\begin{array}{r} 213 \\ \$ 5,282,928 \end{array}$ | $\begin{array}{r} 131 \\ \$ 2,956,020 \\ \hline \end{array}$ | $\begin{array}{r} 181 \\ \$ 2,837,448 \\ \hline \end{array}$ | $\begin{array}{r} 1,247 \\ \$ 30,404,484 \\ \hline \end{array}$ |
| 75-79 | $\begin{array}{r} 98 \\ \$ 3,008,472 \\ \hline \end{array}$ | $\begin{array}{r} 115 \\ \$ 3,080,700 \\ \hline \end{array}$ | $\begin{array}{r} 110 \\ \$ 3,075,060 \\ \hline \end{array}$ | $\begin{array}{r} 74 \\ \$ 1,794,228 \\ \hline \end{array}$ | $\begin{array}{r} 91 \\ \$ 2,469,684 \\ \hline \end{array}$ | $\begin{array}{r} 288 \\ \$ 7,754,052 \\ \hline \end{array}$ | $\begin{array}{r} 192 \\ \$ 4,616,664 \\ \hline \end{array}$ | $\begin{array}{r} 135 \\ \$ 3,209,844 \\ \hline \end{array}$ | $\begin{array}{r} 249 \\ \$ 4,513,800 \\ \hline \end{array}$ | $\begin{array}{r} 1,352 \\ \$ 33,522,504 \\ \hline \end{array}$ |
| 80-84 | $\begin{array}{r} 90 \\ \$ 2,250,492 \end{array}$ | $\begin{array}{r} 114 \\ \$ 2,931,888 \end{array}$ | $\begin{array}{r} 96 \\ \$ 2,549,424 \\ \hline \end{array}$ | $\begin{array}{r} 77 \\ \$ 1,869,108 \\ \hline \end{array}$ | $\begin{array}{r} 72 \\ \$ 1,930,452 \\ \hline \end{array}$ | $\begin{array}{r} 296 \\ \$ 7,776,000 \\ \hline \end{array}$ | $\begin{array}{r} 200 \\ \$ 4,916,040 \\ \hline \end{array}$ | $\begin{array}{r} 153 \\ \$ 3,466,548 \\ \hline \end{array}$ | $\begin{array}{r} 302 \\ \$ 5,840,220 \\ \hline \end{array}$ | $\begin{array}{r} 1,400 \\ \$ 33,530,172 \\ \hline \end{array}$ |
| 85-89 | $\begin{array}{r} 59 \\ \$ 1,573,008 \\ \hline \end{array}$ | $\begin{array}{r} 81 \\ \$ 2,033,340 \\ \hline \end{array}$ | $\begin{array}{r} 56 \\ \$ 1,487,892 \\ \hline \end{array}$ | $\begin{array}{r} 52 \\ \$ 1,293,516 \\ \hline \end{array}$ | $\begin{array}{r} 47 \\ \$ 1,007,532 \\ \hline \end{array}$ | $\begin{array}{r} 222 \\ \$ 5,271,804 \\ \hline \end{array}$ | $\begin{array}{r} 141 \\ \$ 3,046,128 \\ \hline \end{array}$ | $\begin{array}{r} 122 \\ \$ 2,413,044 \\ \hline \end{array}$ | $\begin{array}{r} 237 \\ \$ 4,659,144 \\ \hline \end{array}$ | $\begin{array}{r} 1,017 \\ \$ 22,785,408 \\ \hline \end{array}$ |
| 90+ | $\begin{array}{r} 24 \\ \$ 580,704 \\ \hline \end{array}$ | $\begin{array}{r} 27 \\ \$ 497,820 \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ \$ 388,992 \\ \hline \end{array}$ | $\begin{array}{r} 31 \\ \$ 591,300 \\ \hline \end{array}$ | $\begin{array}{r} 27 \\ \$ 509,940 \\ \hline \end{array}$ | $\begin{array}{r} 115 \\ \$ 2,317,596 \end{array}$ | $\begin{array}{r} 108 \\ \$ 1,997,112 \end{array}$ | $\begin{array}{r} 88 \\ \$ 1,735,980 \\ \hline \end{array}$ | $\begin{array}{r} 196 \\ \$ 3,612,372 \end{array}$ | $\begin{array}{r} 639 \\ \$ 12,231,816 \\ \hline \end{array}$ |
| Total | $\begin{array}{r} 595 \\ \$ 14,609,904 \\ \hline \end{array}$ | $\begin{array}{r} 699 \\ \$ 16,008,480 \\ \hline \end{array}$ | $\begin{array}{r} 620 \\ \$ 14,714,868 \\ \hline \end{array}$ | $\begin{array}{r} 504 \\ \$ 10,845,876 \\ \hline \end{array}$ | $\begin{array}{r} 477 \\ \$ 10,917,132 \\ \hline \end{array}$ | $\begin{array}{r} 1,909 \\ \$ 43,242,108 \\ \hline \end{array}$ | $\begin{array}{r} 1,317 \\ \$ 27,189,420 \\ \hline \end{array}$ | $\begin{array}{r} 924 \\ \$ 18,260,976 \\ \hline \end{array}$ | $\begin{array}{r} 1,498 \\ \$ 25,904,004 \\ \hline \end{array}$ | $\begin{array}{r} 8,543 \\ \$ 181,692,768 \\ \hline \end{array}$ |


| AVERAGES | --- | Attained Age |
| :---: | :---: | :---: |
|  | Years Retired | 72.91 |
|  | Annual Benefit | $\$ 21,268$ |

## TRSL MEMBERSHIP PROFILE

## TERMINATED VESTED

MEMBER COUNT TOTAL BENEFITS

VALUATION DATE 6/30/2022

| Age/Years | <1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<20$ |  |  |  |  |  |  |  |  |  |  |
| 20-24 |  |  |  |  |  |  |  |  |  |  |
| 25-29 |  |  | $\begin{array}{r} 88 \\ \$ 546,159 \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 88 \\ \$ 546,159 \\ \hline \end{array}$ |
| 30-34 |  | $\begin{array}{r} 1 \\ \$ 6,024 \\ \hline \end{array}$ | $\begin{array}{r} 727 \\ \$ 5,437,120 \\ \hline \end{array}$ | $\begin{array}{r} 32 \\ \$ 439,891 \\ \hline \end{array}$ |  |  |  |  |  | $\begin{array}{r} 760 \\ \$ 5,883,035 \\ \hline \end{array}$ |
| 35-39 |  | $\begin{array}{r} 1 \\ \$ 5,919 \end{array}$ | $\begin{array}{r} 1,112 \\ \$ 8,966,576 \end{array}$ | $\begin{array}{r} 286 \\ \$ 4,441,659 \end{array}$ | $\begin{array}{r} 17 \\ \$ 336,736 \end{array}$ |  |  |  |  | $\begin{array}{r} 1,416 \\ \$ 13,750,890 \end{array}$ |
| 40-44 |  | $\begin{array}{r} 2 \\ \$ 8,809 \end{array}$ | $\begin{array}{r} 1,062 \\ \$ 8,784,522 \end{array}$ | $\begin{array}{r} 444 \\ \$ 6,900,210 \end{array}$ | $\begin{array}{r} 162 \\ \$ 3,958,683 \end{array}$ | $\begin{array}{r} 4 \\ \$ 151,784 \end{array}$ |  |  |  | $\begin{array}{r} 1,674 \\ \$ 19,804,007 \end{array}$ |
| 45-49 |  | $\begin{array}{r} 5 \\ \$ 20,708 \end{array}$ | $\begin{array}{r} 836 \\ \$ 6,648,853 \end{array}$ | $\begin{array}{r} 437 \\ \$ 6,284,232 \end{array}$ | $\begin{array}{r} 167 \\ \$ 3,809,858 \end{array}$ | $\begin{array}{r} 32 \\ \$ 1,030,602 \end{array}$ |  |  |  | $\begin{array}{r} 1,477 \\ \$ 17,794,253 \end{array}$ |
| 50-54 |  | $\begin{array}{r} 6 \\ \$ 24,525 \end{array}$ | $\begin{array}{r} 868 \\ \$ 6,375,207 \end{array}$ | $\begin{array}{r} 470 \\ \$ 6,189,978 \end{array}$ | $\begin{array}{r} 147 \\ \$ 2,917,973 \end{array}$ | $\begin{array}{r} 35 \\ \$ 1,008,047 \end{array}$ | $\begin{array}{r} 19 \\ \$ 776.214 \end{array}$ |  |  | $\begin{array}{r} 1,545 \\ \$ 17,291,945 \end{array}$ |
| 55-59 |  | $\begin{array}{r} 6 \\ \$ 17.918 \end{array}$ | $\begin{array}{r} 725 \\ \$ 5,217.610 \end{array}$ | $\begin{array}{r} 436 \\ \$ 5,376,051 \end{array}$ | $\begin{array}{r} 195 \\ \$ 3.562,102 \end{array}$ | $\begin{array}{r} 35 \\ \$ 738.136 \end{array}$ | $\begin{array}{r} 3 \\ \$ 107.898 \end{array}$ |  |  | $\begin{array}{r} 1,400 \\ \$ 15,019,716 \end{array}$ |
| 60-64 | $\begin{array}{r} 2 \\ \$ 55 \end{array}$ | $\begin{array}{r} 9 \\ \$ 25,570 \end{array}$ | $\begin{array}{r} 316 \\ \$ 2,006,140 \end{array}$ | $\begin{array}{r} 154 \\ \$ 1,590,739 \end{array}$ | $\begin{array}{r} 64 \\ \$ 937,496 \end{array}$ | $\begin{array}{r} 9 \\ \$ 223,277 \end{array}$ | $\begin{array}{r} 4 \\ \$ 115,389 \end{array}$ | $\begin{array}{r} 1 \\ \$ 48,484 \end{array}$ |  | $\begin{array}{r} 559 \\ \$ 4,947,152 \end{array}$ |
| 65-69 |  | $\begin{array}{r} 1 \\ \$ 3,667 \end{array}$ | $\begin{array}{r} 114 \\ \$ 623,012 \end{array}$ | $\begin{array}{r} 40 \\ \$ 395,802 \end{array}$ | $\begin{array}{r} 31 \\ \$ 498,799 \end{array}$ | $\begin{array}{r} 7 \\ \$ 141,704 \end{array}$ | $\begin{array}{r} 5 \\ \$ 114,474 \end{array}$ | $\begin{array}{r} 1 \\ \$ 50,820 \end{array}$ |  | $\begin{array}{r} 199 \\ \$ 1,828,278 \end{array}$ |
| 70+ |  | $\begin{array}{r} 4 \\ \$ 5,658 \end{array}$ | $\begin{array}{r} 62 \\ \$ 288,603 \end{array}$ | $\begin{array}{r} 38 \\ \$ 292,951 \end{array}$ | $\begin{array}{r} 10 \\ \$ 99,931 \end{array}$ | $\begin{array}{r} 6 \\ \$ 109,200 \end{array}$ | $\begin{array}{r} 4 \\ \$ 181,723 \end{array}$ | 2 $\$ 53,573$ | 1 $\$ 75,117$ | $\begin{array}{r} 127 \\ \$ 1,106,757 \end{array}$ |
| Total | $\begin{array}{r} 2 \\ \$ 55 \\ \hline \end{array}$ | $\begin{array}{r} 35 \\ \$ 118,798 \\ \hline \end{array}$ | $\begin{array}{r} 5,910 \\ \$ 44,893,801 \\ \hline \end{array}$ | $\begin{array}{r} 2,337 \\ \$ 31,911,514 \end{array}$ | $\begin{array}{r} 793 \\ \$ 16,121,580 \end{array}$ | $\begin{array}{r} 128 \\ \$ 3,402,751 \\ \hline \end{array}$ | $\begin{array}{r} 35 \\ \$ 1,295,698 \\ \hline \end{array}$ | 4 $\$ 152,877$ | 1 $\$ 75,117$ | $\begin{array}{r} 9,245 \\ \$ 97,972,191 \end{array}$ |


| AVERAGES | --- | Attained Age | 47.70 |
| :--- | :--- | ---: | ---: |
|  | Service Years | 9.43 |  |
|  | Annual Benefit | $\$ 10,597$ |  |

TRSL MEMBERSHIP PROFILE RETIREES EARNING POST-RETIREMENT SUPPLEMENT

| CELLS DEPICT | MEMBER COUNT |
| :--- | :--- |
|  | TOTAL SALARY |


| Age/Years | <1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-30 | 30-35 | 35+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $<25$ |  |  |  |  |  |  |  |  |  |  |
| 25-29 |  |  |  |  |  |  |  |  |  |  |
| 30-34 |  |  |  |  |  |  |  |  |  |  |
| 35-39 |  |  |  |  |  |  |  |  |  |  |
| 40-44 |  |  |  |  |  |  |  |  |  |  |
| 45-49 | $\begin{array}{r} 2 \\ \$ 126,942 \end{array}$ |  |  |  |  |  |  |  |  | $\begin{array}{r} 2 \\ \$ 126,942 \\ \hline \end{array}$ |
| 50-54 | $\begin{array}{r} 5 \\ \$ 316,521 \\ \hline \end{array}$ | $\begin{array}{r} 8 \\ \$ 462,586 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 13 \\ \$ 779,107 \\ \hline \end{array}$ |
| 55-59 | $\begin{array}{r} 9 \\ \$ 375,179 \end{array}$ | $\begin{array}{r} 9 \\ \$ 613,452 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 18 \\ \$ 988,631 \end{array}$ |
| 60-64 | $\begin{array}{r} 7 \\ \$ 320,637 \end{array}$ | $\begin{array}{r} 16 \\ \$ 969,195 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 23 \\ \$ 1,289,832 \\ \hline \end{array}$ |
| 65-69 | $\begin{array}{r} 9 \\ \$ 358,849 \end{array}$ | $\begin{array}{r} 15 \\ \$ 1,023,915 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 24 \\ \$ 1,382,764 \\ \hline \end{array}$ |
| 70+ | $\begin{array}{r} 6 \\ \$ 192,869 \end{array}$ | $\begin{array}{r} 4 \\ \$ 242,259 \\ \hline \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 10 \\ \$ 435,128 \\ \hline \end{array}$ |
| Total | $\begin{array}{r} 38 \\ \$ 1,690,997 \\ \hline \end{array}$ | $\begin{array}{r} 52 \\ \$ 3,311,407 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 90 \\ \$ 5,002,404 \\ \hline \end{array}$ |


| AVERAGES | -- | Attained Age | 62.11 |
| :--- | :--- | :--- | ---: |
|  | Service Years | 1.18 |  |
|  | Active Salary | $\$ 55,582$ |  |

## SUMMARY OF PLAN PROVISIONS

## EFFECTIVE DATE:

August 1, 1936

## EMPLOYER:

The State of Louisiana, any city, parish, or other local school board, the State Board of Elementary and Secondary Education, any board created by Article VIII of the Constitution of Louisiana, or any other agency of and within the state or a political subdivision by which a teacher is paid.

## ELIGIBILITY FOR PARTICIPATION:

Condition of employment for all 'teachers' as defined by Louisiana Revised Statutes, Section 11:701(35)(a).

## CREDITABLE SERVICE:

Service as a teacher while member of the system.

## ADDITIONAL SERVICE:

1. Credit for service canceled by withdrawal of accumulated contributions may be restored by member by paying the amount withdrawn plus interest.
2. Service rendered in public school system of another state may be purchased at the cost dictated by Louisiana Revised Statutes, Section 11:158, or at the member's option receive service credit based on the funds transferred.
3. Credit for service in non-participating charter schools, non-public Louisiana college or university, or state approved Louisiana elementary or secondary non-public or parochial schools may be purchased at the actuarial present value of the additional retirement benefit, or at the member's option receive service credit based on the funds transferred.
4. Maximum of 4 years of credit for military service may be obtained for each member, contingent on payment of actuarial cost.
5. Credit for legislative service of former teacher, now legislator, may be purchased at the actuarial cost.
6. Conversion of Sick Leave to Membership Service: At retirement, or at death before retirement of member with surviving spouse or dependent or both who are entitled to benefits, unused accumulated sick leave will be added to membership service. Conversion of unused sick and annual leave cannot be used to obtain retirement eligibility. Sick leave accumulated after January 30, 1990, can be converted to a maximum one-year service credit. Sick leave is converted on the following basis:

| Leave Earned Prior to 6/30/88 |  |
| :---: | :---: |
| Accumulated Sick | Fraction of Year |
| Days | Credit |
| $25-45$ | 0.25 year |
| $46-90$ | 0.50 year |
| $91-135$ | 0.75 year |
| $136-180$ | 1.00 year |

Each additional 45 days of sick leave, up to 720 days total, provides an additional 0.25 years of service credit.

Leave Earned After 6/29/88

| Accumulated Sick Days (by Member Classification) |  |  | Fraction of Year |  |
| :---: | :---: | :---: | :---: | :---: |
| 9 Month | 10 Month | 11 Month | 12 Month | Credit |
| $10-18$ | $11-20$ | $12-22$ | $13-24$ | 0.1 |
| $19-36$ | $21-40$ | $23-44$ | $25-48$ | 0.2 |
| $37-54$ | $41-60$ | $45-66$ | $49-72$ | 0.3 |
| $55-72$ | $61-80$ | $67-88$ | $73-96$ | 0.4 |
| $73-90$ | $81-100$ | $89-110$ | $97-120$ | 0.5 |
| $91-108$ | $101-120$ | $111-132$ | $121-144$ | 0.6 |
| $109-126$ | $121-140$ | $133-154$ | $145-168$ | 0.7 |
| $127-144$ | $141-160$ | $155-176$ | $169-192$ | 0.8 |
| $145-162$ | $161-180$ | $177-198$ | $193-216$ | 0.9 |
| $163-180$ | $181-200$ | $199-220$ | $217-240$ | 1.0 |

## EARNABLE COMPENSATION:

The compensation earned by a member for qualifying service.

## FINAL AVERAGE COMPENSATION (FAC)

For members whose first employment makes them eligible for membership in a Louisiana state retirement system on or after January 1, 2011, the average annual earnable compensation is the highest 60 successive months of employment. The average compensation for purposes of computing benefits cannot increase more than $15 \%$ per year.

For all other members, the average annual earnable compensation is the highest 36 successive months of employment; the average compensation for purposes of computing benefits cannot increase more than ten percent per year.

Per R.S.11:768(C) and 892, a member's benefit shall not exceed $100 \%$ of their FAC. If the maximum benefit accrual $(100 \%)$ is reached, employer contributions continue but employee contributions are discontinued. Average final compensation is not limited to the years for which employee contributions were made. Compensation is limited by the Internal Revenue Code Section 401(a)(17) compensation limit.

Includes workmen's compensation, and PIP's program in accordance with the following:

| Years of Participation | $\%$ of Earnings to <br> be Included |
| :---: | :---: |
| 3 | $60 \%$ |
| 4 | $80 \%$ |
| 5 | $100 \%$ |

However, if member completed at least two years and subsequently becomes disabled, he shall receive $40 \%$ of such earnings. If he has completed one year and becomes disabled, he shall receive $20 \%$ of such earnings.

## ACCUMULATED CONTRIBUTIONS:

Sum of all amounts deducted from compensation of members.

## EMPLOYEE CONTRIBUTIONS:

$8 \%$ of earnable compensation. Prior to July 1, 1989, $7 \%$ of earnable compensation.

## EMPLOYER CONTRIBUTIONS:

Determined in accordance with Louisiana Revised Statutes, Sections 11:102 and 11:102.2, which require the employer rate to be actuarially determined and set annually, based on the Public Retirement Systems' Actuarial Committee's recommendation to the Legislature.

## NORMAL RETIREMENT ELIGIBILITY AND BENEFIT:

## Retirement Eligibility:

1. Members whose first employment making them eligible for membership in one of the state systems occurred on or after July 1, 2015 are eligible to retire with a $2.5 \%$ accrual rate at age 62 with five years of service credit. These members may also retire with an actuarial reduction with 20 years of service credit at any age.
2. Members whose first employment making them eligible for membership in a Louisiana state retirement system on or after January 1, 2011 and before July 1, 2015 may retire with a $2.5 \%$ accrual rate after attaining age 60 with at least five years of service credit. Members are eligible for an actuarially reduced benefit with 20 years of service at any age.
3. For all other members:

If hired on or after July 1, 1999, members are eligible for a $2.5 \%$ accrual rate at the earliest of age 60 with five years of service, age 55 with 25 years of service, or at any age with 30 years of service. Members may retire with an actuarially reduced benefit with 20 years of service at any age.

If hired before July 1, 1999, members are eligible for a $2 \%$ accrual rate at the earliest of age 60 with five years of service, or at any age with 20 years of service and are eligible for a $2.5 \%$ accrual rate at the earliest of age 65 with 20 years of service, age 55 with 25 years of service, or at any age with 30 years of service.

## Benefit:

Annuity which shall be the actuarial equivalent of accumulated employee contributions at retirement date, and annual pension, which, together with annuity, provides total allowance equal to the applicable accrual rate times final average compensation times years of creditable service (including unused sick leave). Members hired before June 30, 1986 receive an additional $\$ 300$ annual supplemental benefit (Act 608 of 1986).

1. Annual benefit may not exceed $100 \%$ of average earnable compensation.
2. The annual pension cannot exceed the maximum benefit provided under Section 415(b) of the Internal Revenue Code and related Federal Regulations as adjusted for inflation and form of benefit other than life annuity or qualified joint and survivor annuity.

## POST RETIREMENT INCREASES:

The provisions regarding future permanent benefit increases (PBIs) were substantially changed by Act 399 of 2014. PBIs may be granted, if requested by the Board and approved with a two-thirds vote of both houses of the legislature, provided there are sufficient funds in the Experience Account to fully fund the increase on an actuarial basis.

Experience Account Credits/Debits: After allocation of the first $\$ 200,000,000$ to the unfunded accrued liability, the Experience Account is credited with up to $50 \%$ of the remaining excess investment income, up to a maximum balance as described below. The $\$ 200,000,000$ threshold is indexed based upon the increase in the actuarial value of assets. Excess investment income is investment income for the prior fiscal year in excess of the expected income based on the actuarial valuation rate for that fiscal year. Balances in the Experience Account accrue interest at the actuarial rate of return during the prior year. All credits are limited as follows:

If the system's funded ratio is less than $80 \%$, the Experience Account is limited to the reserve necessary to grant one PBI. If the funded ratio is at least $80 \%$, the Experience Account is limited to the reserve necessary to fund two PBI's. The Experience Account is debited for the increase in actuarial accrued liability resulting from the increases.

Permanent Benefit Increases: No increase can be granted if the legislature granted an increase in the preceding fiscal year, unless the system is $85 \%$ funded or greater. Additionally, PBIs are limited to the lesser of the increase in the Consumer Price Index, U.S. city average for all urban consumers (CPI-U) for the 12-month period ending on the system's valuation date, or by a percentage increase determined by the system's funded ratio:

| Funded Ratio | PBI Increase Limit |
| :---: | :---: |
| $<55 \%$ | $0 \%$ |
| $55 \%$ to $<65 \%$ | $1.5 \%$ |
| $65 \%$ to $<75 \%$ | $2.0 \%$ |
| $75 \%$ to $<80 \%$ | $2.5 \%$ |
| $80 \%+$ | $3.0 \%$ |

Beginning July 1, 2015, any increase is limited to the first $\$ 60,000$ of a retiree's annual benefit, increased annually by the CPI-U for the 12 -month period ending in June. If the actuarial rate of return for the prior plan year is less than $8.25 \%$, regardless of the discount rate, the increase is limited to the lesser of $2 \%$ or the amount described above.

Eligibility Requirements: Benefits are restricted to those retirees who have attained age 60 and have been retired for at least one year. The minimum age of 60 for the receipt of a benefit increase does not apply to disability retirees.

## DISABILITY RETIREMENT:

## Eligibility:

Members whose first employment makes them eligible for membership in a Louisiana state retirement system on or after January 1, 2011 are eligible with ten years of service credit. All other members are eligible with five years of service; certification of disability by medical board (medical examination required once in every year for the first five years of disability retirement, and once in every three years thereafter, until age 60 if first employment making member eligible for membership in a state retirement system occurred before July 1, 2015 or until age 62 otherwise).

## Benefit:

Members whose first employment makes them eligible for membership in a Louisiana state retirement system on or before December 31, 2010:

1. If ineligible for service retirement at disability, disability pension will be $2.5 \%$ of average compensation multiplied by years of service. Benefit is limited to $50 \%$ of average compensation and will not be less than the lesser of $40 \%$ of the state minimum salary for a beginning teacher with a bachelor's degree or $75 \%$ of average compensation.
2. Additional $50 \%$ of member's benefit payable if minor child is present, but total amount to family limited to $75 \%$ of final average compensation.
3. Member will become a regular retiree upon attainment of the earliest age for retirement eligibility as if the member continued in service, without further change in compensation. Benefit is based on years of creditable service but not less than the disability benefit. Benefit for minor children continue as long as the retiree has a minor child.
4. Upon death of a disability retiree, surviving spouse, married to retiree at least two years prior to death of the disability retiree, shall receive $75 \%$ of disability benefit. Upon death of an unmarried retiree with minor children, the benefit shall equal $50 \%$ of disability benefit.
5. Upon recovery of disability as determined by the board of trustees, upon advice of the medical board, members returning to active membership for at least three years, starting no later than one year after recovery, shall be credited with one year of service for each year disabled for purposes of establishing benefit eligibility, but not for computation of benefits.

Members whose first employment makes them eligible for membership in a Louisiana state retirement system on or after January 1, 2011:

1. Maximum disability retirement benefit which shall be equivalent to the regular retirement formula without reduction by reason of age.
2. Selection of a retirement option shall be made when application for disability is filed. If the disability retiree dies, the option selected upon disability retirement shall be applied to his disability retirement benefit.

## SURVIVOR'S BENEFITS:

Eligibility and Benefit:

1. Surviving Spouse with minor children of an active member with five years of service with at least two years earned immediately prior to death; or a member with 20 years of service regardless of when earned or whether in active service at time of death will receive the greater of:
A.) $\$ 600$ per month, or
B.) $50 \%$ of benefit that would have been payable to retiree if he had retired on the date of death. $50 \%$ of spouse's benefit payable for each minor child (up to two), with total benefit to family at least equal to the Option 2 accrued benefit based on actual service credit. Benefits to spouse cease upon remarriage and resume upon subsequent divorce or death of new spouse; however, if the member was eligible to retire or if the spouse remarries after attaining age 55, benefits shall not cease upon remarriage. When minor children are no longer present and the deceased member had at least ten years of service, the spouse's benefit reverts to the Option 2 retirement benefit for the eligible spouse. If a deceased member had less than ten years, then the spouse will receive a refund of any remaining member contributions and monthly survivor benefits will cease.
2. Surviving Spouse without minor children of an active member with ten years of creditable service will receive the greater of:
A.) $\$ 600$ per month, or
B.) Option 2 equivalent of accrued benefit based on actual service. Spouse's benefit payable for life. Benefits to spouse cease upon remarriage and resume upon subsequent divorce or death of new spouse; however, if the member was eligible to retire or if the spouse remarries after attaining age 55 , benefits shall not cease upon remarriage.
3. Beneficiaries not eligible for survivor benefits described above will receive a lump-sum refund of the member's accumulated contributions.

## REFUND OF CONTRIBUTIONS:

Members who terminate employment in all positions eligible for TRSL membership are entitled to a full refund of member contributions. If membership ceases due to death prior to retirement, accumulated member contributions are returnable to a designated beneficiary, if any; or to the member's estate.

## TERMINATION WITH VESTED SERVICE:

Any member with credit for five years of service who withdraws from service may elect to leave accumulated contributions in the system. If first employment making member eligible for membership in a Louisiana state retirement system occurred on or before June 30, 2015, he may apply for retirement and begin receiving a retirement benefit at age 60 based on the credits he had at date of withdrawal, or otherwise at age 62 .

## OPTIONAL FORMS OF BENEFIT:

In lieu of receiving normal retirement benefit, member may elect to receive actuarial equivalent of retirement allowance in a reduced form as follows:

Option 1- If a member dies before receiving present value of annuity in monthly payments, balance paid to designated beneficiary.

Option 2- Reduced retirement allowance, if member dies, to be continued to designated beneficiary for his lifetime.

Option 3- One-half of reduced retirement allowance, if member dies, to be continued to designated beneficiary for his lifetime.

Option 4 - Other benefits of equal actuarial value may be elected with approval of the Board of Trustees.
Options 2A, 3A, 4A - Same as Options 2, 3, and 4, except that reduced benefit reverts to maximum if beneficiary predeceases retiree.

Automatic COLA Option - Members may choose an irrevocable election at retirement to receive an actuarially reduced benefit which increases $2.5 \%$ annually. The increase begins on the first retirement anniversary date, but not before the retiree attains age 55 or would have attained age 55 in the case of a surviving spouse. This option can be chosen in combination with the above options. (Per Act 270 of 2009, effective July 1, 2009.)

Initial Lump Sum Benefit Option - Members who did not participate in DROP may elect an actuarially reduced pension and receive a lump-sum equal to not more than 36 months of the maximum monthly pension.

## DEFERRED RETIREMENT OPTION PLAN:

Instead of terminating employment and accepting a service retirement allowance, any member who has met the eligibility requirements described below may elect to participate in the Deferred Retirement Option Plan (DROP).

## Normal Eligibility:

Members whose first employment making him eligible for membership in one of the state retirement systems occurred on or before December 31, 2010, and who is not covered by Lunch Plan A or Lunch Plan B and who has 30 years of service (YOS) at any age, 25 YOS at 55, or 20 YOS (exclusive of military service other than qualified military service as provided in 26 U.S.C. 414(u) earned on or after December 12, 1994), and is at least age 65 may elect to participate in DROP. A member with ten YOS, exclusive of military service other than qualified military service as provided in 26 U.S.C. 414(u) earned on or after December 12, 1994, and who is at least age 60 may elect to participate in DROP, but all benefits payable at any time shall be calculated using only a $2 \%$ benefit formula.

Members whose first employment making him eligible for membership in one of the state retirement systems occurred between January 1, 2011 and June 30, 2015, are not in Lunch Plan A or Lunch Plan B, and who has five years of service at age 60 may participate in DROP.

Members whose first employment making him eligible for membership in one of the state retirement systems occurred on or before June 30, 2015, who has 30 years of service at age 55 or ten years of service at age 60 may participate in DROP.

Members whose first employment making him eligible for membership in one of the state retirement systems occurred on or after July 1, 2015, who has at least five years of service at age 62 may participate in DROP.

An election to participate may only be made once, for a period not to exceed three years beginning within 60 days of reaching the eligibility described above.

## Benefit:

Upon termination of employment, a participant will receive, at his option:
(1) Lump sum payment (equal to the payments to the account)
(2) A true annuity based upon his account, or
(3) Other methods of payment approved by the Board of Trustees.

If a participant dies during the period of participation in the program, his account balance shall be paid to the beneficiary, or if none, to his estate in any form approved by the Board of Trustees.

If employment is not terminated at the end of DROP participation, payments into the account cease and account earns interest. The participant resumes active contributing membership and earns an additional retirement benefit based on additional service rendered. The method of computation of the additional benefit is subject to the following:
(1) If additional service was less than the period used to determine Final Average Compensation, average compensation figure to calculate the additional benefit will be the same as used to calculate initial benefit.
(2) If additional service was earned for a period greater than the number of months used to determine Final Average Compensation, the average compensation figure used to calculate the additional benefit will be based on compensation during the period of additional service.

DROP Accounts established prior to January 1, 2004, earn interest following termination of DROP at a rate $0.5 \%$ below the actuarial rate of the System's investment portfolio. DROP accounts established on or after January 1, 2004 are credited with money market rates.

## DESCRIPTION OF BENEFITS <br> FOR MERGED LSU EMPLOYEES

## GENERAL:

Eligibility for benefits is based on the eligibility requirements of the Teachers' plan, except for deaths and disabilities before 1984. All service, funded and non-funded, is used in determining eligibility.

Final Average Salary was the average of the three highest years, except for academic year employees who retired within three years after January 1, 1979. For this group, any salary used in the Final Average Salary calculation, which was earned before January 1, 1979, was increased by 2/9ths.

The Social Security breakpoint average, for service under the funded LSU plan, was frozen at the December 31, 1978 level. That is, the breakpoint average for funded service was calculated as of December 31, 1978 and kept constant. This produced the following breakpoint averages:

## Social Security Breakpoint Average (for LSU funded service)

| Calendar Year of Entry | Breakpoint Average |
| :---: | :---: | :---: |
| 1971 or before | 13,400 |
| 1972 | 13,800 |
| 1973 | 14,600 |
| 1974 | 15,360 |
| 1975 | 15,900 |
| 1976 | 16,500 |
| 1977 | 17,100 |
| 1978 | 17,700 |

## RETIREMENT BENEFITS:

Retirement benefits are calculated using LSU funded service with the LSU formula and service after December 31, 1978, with the Teacher's formula. Thus, the "funded" benefit is the sum of (1) $1.33 \%$ of final average salary under the Social Security breakpoint average plus $2.5 \%$ of final average salary over the Social Security breakpoint average, times years of "funded" service with LSU before December 31, 1978; (2) 2.5\% (or $2 \%$ if total service less than 20 years) of final average salary for years since January 1, 1979; and (3) $\$ 300$.

## SURVIVOR'S BENEFITS:

For deaths after 1983, the provisions of the Teachers' plan apply. However, the benefit is calculated using all service, funded and non-funded, then prorated by service between the funded and non-funded portions. Children's benefits are also prorated into the funded and non-funded portions.

## DISABILITY BENEFITS:

For disabilities after 1983, the provisions of the Teachers' plan apply. However, the benefit is calculated using all service, then prorating by service between the funded and non-funded portions. Children's benefits are also prorated.

## VESTING BENEFITS:

Benefits for terminated vested members was determined as outlined under "Retirement Benefits."

## REFUND OF CONTRIBUTIONS:

Terminated members are allowed a refund of accumulated contributions as described by the Teachers' plan.

## COOPERATIVE EXTENSION PERSONNEL:

The LSU employees are eligible for the supplemental benefit described in Section 700.2 of Act 643 of 1978. The benefit is equal to $1 \%$ for the first five years of service, $3 / 4 \%$ for the next five years, and $1 / 2 \%$ thereafter. The funded benefit is the benefit based on service after September 12, 1975.

## OPTIONAL FORMS OF BENEFITS:

Retiring members may elect options as described by the Teachers' plan.

## DEFERRED RETIREMENT OPTION PLAN:

Eligible members may participate under same requirements as described by the Teachers' plan.

## DESCRIPTION OF BENEFITS FOR MERGED SCHOOL LUNCH EMPLOYEES

## EFFECTIVE DATE:

The School Lunch Employees' Retirement System was originally established on January 1, 1953.
On July 1, 1980, the School Lunch Employees' Retirement System was restructured. All individuals who become employed after July 1, 1980, shall become members of Plan A or Plan B as determined by the agreement in effect for each employer.

Plan A: Parishes which had withdrawn from Social Security coverage became known as Plan A parishes. Those participating in both the regular and the supplemental plan or only in the supplemental plan shall become members of Plan A.

Plan B: Parishes which had not withdrawn from Social Security coverage became known as Plan B parishes. Those participating only in the regular plan shall become members of Plan B.

Effective July 1, 1983 Plan A and Plan B were merged into TRSL.

## CREDITABLE SERVICE:

Service as an employee while member of the system.

## MILITARY SERVICE:

Maximum of four years of credit may be purchased.

## ADDITIONAL CREDITABLE SERVICE:

Credit for service canceled by withdrawal of accumulated contributions may be restored by paying into system the amount withdrawn plus regular interest.

## EMPLOYEE CONTRIBUTIONS:

Plan A: $\quad 9.10 \%$ of monthly earnings
Plan B: $\quad 5 \%$ of monthly earnings

## EMPLOYER CONTRIBUTIONS:

Plan A and Plan B: Actuarial Required Amount (Effective July 1, 1989)

## SCHOOL LUNCH PLAN A

## RETIREMENT BENEFIT:

Members hired after June 30, 1983 earn regular Teachers' benefits. The benefit description below applies to members hired prior to July 1, 1983.

## NORMAL RETIREMENT:

## Eligibility:

1. Age 60 and five years of creditable service.
2. Age 55 and 25 years of creditable service.
3. 30 years of creditable service, regardless of age.

Benefit:
$3 \%$ of average final compensation times years of creditable service.
Members of only the supplemental plan prior to July 1, 1980 who were age 60 or older at the time the member's employer terminated its agreement with the Department of Health, Education and Welfare, and who became a member of the retirement system because of this termination earned one percent of average final compensation plus two dollars per month for each year of service credited prior to July 1, 1980, plus $3 \%$ of average final compensation for each year of service credited after July 1, 1980.

Members hired before June 30, 1986 receive an additional $\$ 300$ annual supplemental benefit.
Benefits are limited to $100 \%$ of average final compensation.

## DISABILITY RETIREMENT:

## Eligibility:

Five years of creditable service; certification of disability by the State Medical Disability Board.

## Benefit:

Normal retirement allowance if eligible; otherwise, an amount equal to the normal retirement allowance to which the member would have been entitled had he met eligibility requirements; provided the amount is subject to a minimum of $60 \%$ and a maximum of $100 \%$ of average final compensation, in the event no optional selection is chosen.

## SURVIVOR'S BENEFITS:

## Eligibility:

1. Surviving spouse with minor children of a member with five years of service credit with at least two years earned immediately prior to death, or 20 years of service credit regardless of when earned or whether the deceased member was in active service at the time of death.
2. Surviving spouse with no minor children of member with ten or more years of service credit with at least two years earned immediately prior to death, or 20 years of service credit regardless of when earned or whether the deceased member was in active service at the time of death.
3. Beneficiary not eligible for 1 or 2 .

## Benefit:

1. Greater of:
A.) $\$ 600$ per month, or
B.) $50 \%$ of benefit that would have been payable upon retirement at age 60 had member continued in service to age 60 without change in compensation. $50 \%$ of spouse's benefit payable for each minor child (maximum two children), with total benefit to family at least equal to the Option 2 benefit. Accrued Benefit based on actual service credit. Benefits to spouse cease upon remarriage and will resume upon subsequent death or divorce of new spouse. When minor children are no longer present, spouse's benefit reverts to benefit in (2), if spouse is eligible for such benefit.
2. Greater of:
A.) $\$ 600$ per month, or
B.) Option 2 equivalent of accrued benefit based on actual service. Surviving spouse must have been married to the deceased member at least one year prior to death. If the member had not been eligible for retirement upon date of death, benefits to spouse cease upon remarriage, and resume upon subsequent death or divorce of new spouse.
3. Return of member's accumulated contributions.

## SCHOOL LUNCH PLAN B

## NORMAL RETIREMENT:

## Eligibility:

Members whose first employment making them eligible for membership in one of the state systems occurred on or after July 1, 2015 are eligible to retire after attaining age 62 with five years of service credit. These members may also retire with an actuarial reduction with 20 years of service credit at any age.

Members whose first employment makes them eligible for membership in a Louisiana state retirement system before July 1, 2015 are eligible to retire after attaining age 60 with five years of service or at age 55 with 30 years of service.

## Benefit:

Annual pension which provides total allowance equal to $2 \%$ of average final compensation times years of creditable service. Members hired before June 30, 1986 receive an additional $\$ 300$ annual supplemental benefit.

## DISABILITY RETIREMENT:

Eligibility:
Five years of creditable service; certification of disability by the State Medical Disability Board.
Benefit:
Normal retirement allowance if eligible; otherwise $2 \%$ of average final compensation times years of creditable service; provided amount not less than $30 \%$, nor more than $75 \%$ of average final compensation, in the event no optional selection is made.

## SURVIVOR'S BENEFITS:

Eligibility: 20 or more years of creditable service.
Benefit: Option 2 benefit.

## SCHOOL LUNCH PLAN A and PLAN B

## OPTIONAL FORMS OF BENEFIT:

Retiring members may elect options as described by the Teachers' plan.

## RETURN OF CONTRIBUTIONS:

Should a member not eligible to retire cease to be an employee, he shall be paid the amount of his accumulated contributions upon demand. Should a member's death occur prior to retirement with no survivors eligible for benefits, his accumulated contributions are returnable to a designated beneficiary, if any; otherwise, to his estate.

## TERMINATION WITH VESTED SERVICE:

Any member with credit for five years of service who withdraws from service may elect to leave accumulated contributions in system until his earliest normal retirement date, when he may apply for retirement and begin receiving a retirement benefit based on average final compensation and creditable service at date of withdrawal.

## DEFERRED RETIREMENT OPTION PLAN:

Retiring members may elect options as described by the Teachers' plan.

## FUNDING POLICY

TRSL's funding policy is established by Sections 102 and 102.2 of Title 11 of the Louisiana Revised Statutes. TRSL is funded by employee and employer contributions, as a percentage of payroll, plus investment earnings. The basic elements of the annual required contribution are the normal cost, which is the cost of benefits earned by current active employees that is allocated to the current year, plus amortization of the unfunded accrued liability (UAL). Act 55 of 2014, Section 1, appropriates a percentage of nonrecurring revenue in accordance with the Constitution Article VII, Section $10(\mathrm{D})(2)($ b)(ii) and requires the funds to be used to reduce the Initial UAL (IUAL). The funds are used to reduce the Original Amortization Base (OAB), which includes the IUAL.

Per State constitutional provisions, the employer contribution rate cannot drop below $11.8 \%$, without regard to employer credits, and without a corresponding adjustment to the employee contribution rate. Per statutory provisions, the employer contribution rate cannot drop below $15.5 \%$ until the UAL that existed on June 30, 2004 is fully funded. Amounts paid to the system due to the minimum will be accumulated in the employer credit account to be used exclusively to reduce any UAL created before July 1, 2004.

Employee contribution rates are fixed and established by statutes. Employer contributions are determined using the Entry Age Normal actuarial cost method, as required by statute, and actuarial assumptions regarding future plan experience, such as long-term expected investment rates of return, future salary increases, and demographic assumptions such as rates of retirement, termination, disability, and mortality. The actuarial assumptions utilized in this valuation can be found in Appendix E. The cost method is used to determine the normal cost, which is divided into the employee and employer portion, both expressed as a percentage of payroll. The cost method also determines the plan's total actuarial accrued liability. The UAL is determined as the total actuarial accrued liability less the plan's valuation assets, which are developed in Section II. The UAL changes annually due to principal payments contributed toward the debt, gains or losses that develop as actual plan experience differs from that assumed by the actuarial assumptions, and if applicable, changes in benefits, or actuarial methods and/or assumptions. Statutes provide for the amortization of changes in the UAL.

Benefit changes resulting in an actuarial cost can only be enacted by a two-thirds vote of the legislature and must be paid within ten years. Non-investment experience gains and losses and investment losses are amortized over 20 years with level payments. Investment gains are first allocated to the OAB and EAAB, without reamortization, up to the $\$ 200$ million threshold amounts, indexed to increases in the actuarial value of assets, beginning June 30, 2016, as required by Act 399 of 2014. By not re-amortizing except when specifically allowed by law, gains applied to these schedules result in earlier pay-off of these schedules. Investment gains above the threshold amount are amortized over 20 years. One-half of investment gains above the threshold are credited to the Experience Account up to the statutory cap and amortized as a loss over 10 years. If the System is less than $80 \%$ funded, the net remaining liability of the OAB and EAAB shall be re-amortized after application of the "threshold allocations" in Fiscal Year 2024/2025 and in every fifth fiscal year thereafter. Once the system attains an $80 \%$ funded ratio, the OAB and EAAB will be re-amortized following allocations of "threshold allocations" or contribution variance surpluses.

Employers pay the full required employer contribution rate, as recommended to the legislature by the Public Retirement Systems’ Actuarial Committee (PRSAC). This rate is determined as the projected actuarially determined contribution divided by the projected payroll. The actual actuarially determined contribution and actual payroll will vary from the projected amounts, resulting in a contribution variance. Per statutory requirements, contribution surpluses through Fiscal Year 2039/2040 will be allocated to the EAAB and contribution deficits will be amortized over a five-year period with level payments.

The funding policy described above is consistent with the plan accumulating adequate assets to make benefit payments when due and improving the funded status of the plan assuming the actuarially determined contributions will be paid when due and all actuarial assumptions will be realized.

## DISCUSSION OF RISK

Measuring pension obligations and calculating actuarially determined contributions require the use of assumptions regarding future economic and demographic experience. It should be noted that the liabilities and the corresponding funded status presented in this report would differ if a different assumption set were utilized. Future plan experience may differ from the assumptions used in this valuation resulting in actuarial gains and losses. The extent of these differences will impact the plan's future financial condition, the volatility of future plan measurements, and the volatility of future required contributions. Actuarial losses on assets and liabilities will lead to higher contribution amounts, while actuarial gains on assets and liabilities will lead to lower contribution amounts. Because these risks may not be apparent to the reader, we have included a summary of the key risk factors that should be considered.

## Investment Risk

For most plans, investment returns are a significant portion of the assets used to fund plan benefits. Therefore, current plan liabilities are developed by discounting future expected benefits based on the expected returns that will be used to fund those benefits.

Statutory funding policy provides that a portion of investment gains will be transferred to the experience account to fund future Permanent Benefit Increases, should the legislature grant them. The guidance provided in Actuarial Standard of Practice No. 27, Selection of Economic Assumptions for Measuring Pension Obligations, makes it clear that the discount rate is not necessarily the same as the expected investment return assumption. Section 3.5 .1 states that the actuary may determine that it is appropriate to adjust the economic assumptions for provisions that are difficult to measure, of which the definition includes gain-sharing provisions. Therefore, in accordance with this guidance, the reasonableness of the discount rate is evaluated against the expected investment return less the portion of returns that are expected to be transferred to the experience account rather than fund regular plan benefits.

Due to the nature of investments, long-term expectations are not a guarantee and actual average long-term returns may be above or below the assumed investment return. Investment experience gains and losses will develop from two sources: (1) the extent to which the actual long-term rate of return used to fund regular plan benefits differs from the discount rate, and (2) the extent to which transfers to the experience account differ from the margin described above. Short-term volatility in actual returns is expected and will result in year-over-year fluctuations in financial metrics. Prolonged periods of investment performance below the assumed rate of return can result in a decrease in funded status (i.e. increases unfunded liabilities) and an increase in contributions required in future years. Of course, the opposite is also true. Therefore, as part of the annual valuation process, the expected return is evaluated in comparison to TRSL's investment consultant's expected return for TRSL's portfolio and industry-average long-term capital market assumptions to determine if the return assumption continues to be reasonable.

## Demographic Risk

The results in this report assume demographic characteristics of the plan will follow a pattern consistent with assumptions disclosed for termination of employment, incidence of disabilities, timing of retirement, and duration of payments throughout retirement. Actuarial assumptions are applied to large groups of individuals to reasonably estimate plan liabilities and are not necessarily intended to be applied on an individual basis. As actual demographic experience will differ from the assumptions future experience gains and losses will develop.

## Payroll Risk

Individual Salary - Total plan liabilities include the estimated impact of future salary increases on future benefits for individual plan participants. To the extent that future salary increases differ from plan assumptions, gains and losses will develop.

Aggregate Plan Payroll - The valuation determines the Actuarially Determined Contribution for the year immediately following the valuation date and projects the Actuarially Determined Contribution for the following year. The employer contribution rate for the second fiscal year following the valuation date, which is the rate actually paid by the employer, is determined as the projected actuarily determined contribution divided by projected aggregate payroll If actual aggregate payroll for the projected period exceeds expected aggregate payroll, a contribution surplus will develop. Conversely, if actual aggregate payroll for the projected period is less than expected aggregate payroll, a contribution deficit will develop.

## Contribution Risk

This risk results from the potential that actual employer contributions may deviate from actuarially determined contributions, which are determined in accordance with statutory funding policy. The funding policy provides contribution requirements that will result in a reasonable expectation that assets will accumulate to be sufficient to pay plan benefits when due, and eventually reach a $100 \%$ funded status if actuarial assumptions are realized in the aggregate. The Louisiana Constitutional requirement that the legislature provide an amount necessary to fund the normal cost and the UAL existing prior to June 30, 1988 further reduces contribution risk.

## Other Considerations

Significant legislative changes have been enacted since 2009, which reduced the plan's risk of not accumulating sufficient assets to pay plan benefits when due. Highlights of these changes are listed below:

- Restructuring of UAL payment schedules to eliminate the back-loaded increasing payment schedules. All current and future UAL schedules are amortized with level payments.
- Dedication of significantly more investment experience gains to the reduction of UAL debt before credits can be made to the Experience Account to fund future Permanent Benefit Increases (PBIs).
- Reduction in the maximum PBI percentage that can be granted, until funded status reaches $80 \%$.
- Limitations on frequency of potential for Board to request that future PBI's be granted.
- Reduction in the term of amortization schedules from 30 years to 20 years.
- Requirement that contribution variance surpluses and a portion of investment experience gains be used to reduce the UAL without an immediate reduction to employer contributions.
- Requirement of direct funding of administrative expenses, included in the employer contribution rate, rather than with investment returns.
- Constitutional requirement that benefit provisions enacted by the legislature that have an actuarial cost be amortized over a 10-year period.


## Impact of Plan Maturity on Risk

For newer pension plans, most of the participants and associated liabilities are related to active members who have not yet reached retirement age. As pension plans continue in operation and active members reach retirement ages, liabilities begin to shift from being primarily related to active members to being shared among active and retired members. Plan maturity is a measure of the extent to which this shift has occurred. It is important to understand that plan maturity can have an impact on the risk characteristics and risk tolerance of the plan. For example, plans with a large amount of liability attributable to retirees have a shorter time horizon to recover from losses (such as investment experience losses due to lower than expected investment returns) than plans where the majority of the liability is attributable to active members. For this reason, highly mature plans with a substantial liability due to retirees and inactive members have less tolerance for risk. Similarly,
mature plans paying substantial retirement benefits resulting in a small positive or negative net cash flow can be more sensitive to near term investment volatility, particularly if the size of the fund is shrinking, which can result in less assets being available for investment in the market.

To assist with determining the maturity of the plan and assessing risk, we have provided some relevant metrics and discuss the highlights of information derived from these metrics below.

* Asterisks in tables in this section denote dollar values shown in millions.

|  | (A) | (B) | (C) | (D) | (E) | (F) | (F)/(E) | $\begin{gathered} (\mathrm{A}) / \\ (\mathrm{B}+\mathrm{C}) \end{gathered}$ | (D)/(E) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  |  | Inactive | Total |  |  |  | Accrued |
|  | Active | DROP | Inactive | Accrued | Accrued | Valuation | Funded | Support | Liability |
|  | Members | Members | Members | Liability * | Liability * | Assets * | Ratio | Ratio | Ratio |
| 2013 | 82,910 | 2,451 | 77,022 | \$19,074 | \$26,018 | \$14,669 | 56.4\% | 104.3\% | 73.3\% |
| 2014 | 82,886 | 2,291 | 79,531 | \$20,014 | \$28,120 | \$16,146 | 57.4\% | 101.3\% | 71.2\% |
| 2015 | 83,602 | 2,283 | 81,865 | \$20,498 | \$28,646 | \$17,457 | 60.9\% | 99.4\% | 71.6\% |
| 2016 | 84,068 | 2,504 | 82,517 | \$21,017 | \$29,272 | \$18,254 | 62.4\% | 98.9\% | 71.8\% |
| 2017 | 84,228 | 2,478 | 84,199 | \$21,438 | \$29,763 | \$19,210 | 64.5\% | 97.2\% | 72.0\% |
| 2018 | 85,045 | 2,420 | 85,634 | \$22,326 | \$30,872 | \$20,320 | 65.8\% | 96.6\% | 72.3\% |
| 2019 | 85,998 | 2,464 | 87,041 | \$22,827 | \$31,574 | \$21,183 | 67.1\% | 96.1\% | 72.3\% |
| 2020 | 86,860 | 2,359 | 88,528 | \$23,233 | \$32,341 | \$21,971 | 67.9\% | 95.6\% | 71.8\% |
| 2021 | 85,980 | 2,227 | 90,029 | \$23,642 | \$33,059 | \$23,742 | 71.8\% | 93.2\% | 71.5\% |
| 2022 | 86,364 | 2,172 | 91,845 | \$24,560 | \$34,593 | \$25,504 | 73.7\% | 91.9\% | 71.0\% |

Funded Ratio: The funded ratio, determined as the ratio of the Actuarial Value of Assets to the Total Accrued Liability, has increased from $56.4 \%$ to $73.7 \%$ over the last ten years. This ratio generally reflects the financial health of the plan but should not be considered in isolation since changes in methods and assumptions may reduce the funded ratio but reduce future potential losses and resulting contribution rate increases. For example, during this time period, TRSL has reduced the discount rate from $8.25 \%$ to $7.25 \%$ and changed the actuarial cost method from projected unit credit to entry age normal which in total have increased the unfunded accrued liability by $\$ 3.6$ billion ( $\$ 3.3$ billion remaining). If not for these changes, the funded ratio would be approximately $81.6 \%$. However, these changes have improved the financial stability of the plan by reducing the potential for future contribution rate increases. If all actuarial assumptions are realized, the funded ratio is expected to increase as unfunded liabilities are amortized in accordance with the plan's funding policy.

Support Ratio: The support ratio is determined as the ratio of active to inactive members. Active membership, which includes Active After DROP members, has increased since 2013. Inactive membership, which includes retirees, survivors, and terminated vested members, has been steadily increasing. The support ratio has decreased from $104.3 \%$ to $91.9 \%$ over the last ten years. This should be monitored by the investment staff to be sure no cash-flow issues develop that would require pre-mature liquidation of assets, which could result in investment experience losses.

Accrued Liability Ratio: The accrued liability ratio, which is a measure of the proportion of total liability attributable to inactive members, has remained fairly level at just above $70 \%$ for the last ten years. With a plan of this maturity, losses due to lower than expected investment returns or demographic factors should be amortized over a shorter time horizon than for a less mature plan. The amortization period for actuarial gains and losses and changes in liability based on change in actuarial methods reduced from 30 years to 20 years on June 30, 2021.

|  | (A) <br> Market Value <br> of Assets * | (B) <br> Total Payroll <br> (incl. ORP) * | $(\mathrm{A}) /(\mathrm{B})$ <br> Asset <br> Volatility <br> Ratio |
| :---: | :---: | :---: | :---: |
| 2013 | $\$ 15,490$ | $\$ 4,250$ | $364.5 \%$ |
| 2014 | $\$ 17,900$ | $\$ 4,301$ | $416.2 \%$ |
| 2015 | $\$ 17,896$ | $\$ 4,371$ | $409.4 \%$ |
| 2016 | $\$ 17,538$ | $\$ 4,423$ | $396.5 \%$ |
| 2017 | $\$ 19,513$ | $\$ 4,443$ | $439.2 \%$ |
| 2018 | $\$ 21,047$ | $\$ 4,551$ | $462.4 \%$ |
| 2019 | $\$ 21,652$ | $\$ 4,645$ | $466.2 \%$ |
| 2020 | $\$ 21,221$ | $\$ 4,815$ | $440.7 \%$ |
| 2021 | $\$ 27,724$ | $\$ 4,918$ | $563.7 \%$ |
| 2022 | $\$ 25,051$ | $\$ 5,136$ | $487.8 \%$ |

Asset Volatility Ratio: The asset volatility ratio, determined as the ratio of the market value of assets to total payroll, is a measure of the impact of investment volatility on employer contributions which are paid as a percentage of payroll. Since amortization payments for gains and losses are paid as a percentage of total payroll, including payroll for Optional Retirement Plan (ORP) members, the asset liability ratio is determined using payroll that includes ORP payroll. Although MVA growth that exceeds payroll growth may contribute to the financial stability of the plan, the amortization of changes in these higher asset values have a greater impact on contribution volatility as this ratio increases. Since 2013, the asset volatility ratio has increased from $364.5 \%$ to 487.8\%.

|  | $(\mathrm{A})$ | $(\mathrm{B})$ <br> Contributions* | $(\mathrm{A})-(\mathrm{B})$ <br> Benefits* | $(\mathrm{C})$ <br> less Benefits* | $(\mathrm{B}) /(\mathrm{C})$ <br> Market Value <br> of Assets* | Benefits/ <br> MVA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2013 | $\$ 1,423$ | $\$ 1,877$ | $(\$ 454)$ | $\$ 15,490$ | $12.1 \%$ | $-2.9 \%$ |
| 2014 | $\$ 1,544$ | $\$ 1,952$ | $(\$ 408)$ | $\$ 17,900$ | $10.9 \%$ | $-2.3 \%$ |
| 2015 | $\$ 1,592$ | $\$ 2,028$ | $(\$ 436)$ | $\$ 17,896$ | $11.3 \%$ | $-2.4 \%$ |
| 2016 | $\$ 1,529$ | $\$ 2,068$ | $(\$ 539)$ | $\$ 17,538$ | $11.8 \%$ | $-3.1 \%$ |
| 2017 | $\$ 1,491$ | $\$ 2,131$ | $(\$ 640)$ | $\$ 19,513$ | $10.9 \%$ | $-3.3 \%$ |
| 2018 | $\$ 1,590$ | $\$ 2,197$ | $(\$ 607)$ | $\$ 21,047$ | $10.4 \%$ | $-2.9 \%$ |
| 2019 | $\$ 1,623$ | $\$ 2,231$ | $(\$ 608)$ | $\$ 21,652$ | $10.3 \%$ | $-2.8 \%$ |
| 2020 | $\$ 1,656$ | $\$ 2,262$ | $(\$ 606)$ | $\$ 21,221$ | $10.7 \%$ | $-2.9 \%$ |
| 2021 | $\$ 1,665$ | $\$ 2,327$ | $(\$ 662)$ | $\$ 27,724$ | $8.4 \%$ | $-2.4 \%$ |
| 2022 | $\$ 1,739$ | $\$ 2,372$ | $(\$ 632)$ | $\$ 25,051$ | $9.5 \%$ | $-2.5 \%$ |

Cash Flow Measures: Mature plans paying substantial retirement benefits resulting in small positive or negative cash flows may be more sensitive to near term investment volatility. Note investment returns have resulted in significant asset growth despite the negative cash flow.

|  | $(\mathrm{A})$ <br> Investment <br> Experience <br> Gains/(Losses)* | $(\mathrm{B})$ <br> Other <br> Experience <br> Gains/(Losses)* | $(\mathrm{A})+(\mathrm{B})$ <br> Total <br> Experience <br> Gain/(Loss)* |
| :---: | :---: | :---: | :---: |
| 2013 | $\$ 588$ | $\$ 55$ | $\$ 643$ |
| 2014 | $\$ 694$ | $\$ 162$ | $\$ 857$ |
| 2015 | $\$ 540$ | $\$ 50$ | $\$ 590$ |
| 2016 | $(\$ 184)$ | $\$ 158$ | $(\$ 27)$ |
| 2017 | $\$ 237$ | $\$ 197$ | $\$ 435$ |
| 2018 | $\$ 320$ | $\$ 109$ | $\$ 429$ |
| 2019 | $(\$ 34)$ | $\$ 127$ | $\$ 93$ |
| 2020 | $(\$ 156)$ | $(\$ 3)$ | $(\$ 159)$ |
| 2021 | $\$ 1,075$ | $(\$ 11)$ | $\$ 1,064$ |
| 2022 | $\$ 350$ | $(\$ 140)$ | $\$ 210$ |

Experience Gains and Losses: As plan experience differs from actuarial assumptions, experience gains and losses will develop. If assumptions are appropriately determined, gains and losses are expected to offset over time. Consistent gains or losses may be an indication that actuarial assumptions need to be re-evaluated. TRSL's consistent "other" experience gains result primarily from salary and mortality experience relative to assumptions. Following the most recent experience study, assumptions are expected to mirror actual experience more closely.

The risks identified and discussed above are the most significant risks based on the characteristics of the plan, however this is not an exhaustive list of potential risks that could be considered. Advanced modelling, as well as the identification of additional risks, can be helpful and can be provided upon request of the Board.

## ACTUARIAL COST METHODS AND ASSUMPTIONS

## ACTUARIAL COST METHOD:

Louisiana, R.S. 11:22, prescribes the Entry Age Normal cost method for funding valuation purposes. This cost method generally produces normal costs that are level as a percentage of the member's projected pay if the composition of the active group with regard to age, sex, and service is stable. Normal costs are attributed from the first period in which a member accrues benefits through all assumed exit ages until retirement.

## ASSET VALUATION:

The market value of assets is adjusted to gradually recognize investment gains and losses relative to the discount rate, over a five-year period in $20 \%$ increments. The adjusted asset value is subject to Corridor Limits of $80 \%$ to $120 \%$ of the Market Value of Assets.

## ACCOUNTING DISCLOSURE:

The Statements of Fiduciary Net Position and Changes in Fiduciary Net Position provided by the accounting staff were the final drafts prior to publication. Should these Statements differ from the final audited report, a revised actuarial valuation will be issued, but only to the extent that any difference in reporting affects the employer's contribution rate or the yield to the Actuarial Value of Assets.

## ADMINISTRATIVE EXPENSES:

Administrative expenses are funded directly by employers as a percentage of projected payroll beginning July 1, 2018, in accordance with Act 94 of 2016. Projected administrative expenses are determined based on prior year actual expenses with consideration of any expected variations provided by TRSL Accounting Department staff.

## POST RETIREMENT BENEFIT INCREASES:

The actuarial accrued liability includes previously granted post-retirement benefit increases. Louisiana law pertaining to TRSL retiree benefit increases provides for the funding of future increases by requiring the automatic transfer of a portion of excess investment earnings to the experience account, subject to the statutory maximum balance of the account. The law does not provide for automatic benefit increases. Many conditions must be met before an increase can be granted, as described in the Post-Retirement Increases section of the Summary of Plan Provisions in Appendix B of this report. The legislature and governor have the ultimate authority as to whether a future increase will be granted. Since a portion of investment earnings will be used to fund these benefits, if granted, the rate used to discount plan liabilities represents the longterm expected returns (net of investment expenses) less the expected returns used to fund future retiree benefit increases. This adjustment is made in accordance with Actuarial Standards of Practice No. 27 (paragraph 3.5.1) regarding the selection of economic assumptions, which states that it is appropriate to adjust the economic assumptions to provide for plan provisions that are difficult to measure, such as gain-sharing provisions.

## ACTUARIAL ASSUMPTIONS:

Demographic and salary assumptions used in the valuation were adopted by the Board of Trustees following the most recent experience study, effective July 1, 2018. The study was based on an observation period of July 1, 2012-June 30, 2017. The Retirement System is required to conduct an experience study every five years, but the scope of such a study is not necessarily limited to a five-year period. The experience was reviewed separately for Regular Teachers, Higher Education, and the School Lunch Plans (Plan A and Plan B). The experience study report, dated March 1, 2018, provides further information regarding the rationale for these assumptions. The revised rate tables are illustrated at the end of this appendix.

## INFLATION ASSUMPTION:

The Board of Trustees reduced the inflation assumption from $2.50 \%$ to $2.30 \%$, effective July 1, 2020.

## DISCOUNT RATE / INVESTMENT EARNINGS:

Funding Valuation Assumptions: The discount rate was reduced from $7.40 \%$ to $7.25 \%$ for purposes of determining the liabilities as of June 30, 2022 and the recommended contribution requirement for Fiscal Year 2023/2024.

The discount rate for funding purposes reflects the assumed investment rate of return, net of investment expenses, and net of investment gains expected to be allocated to the Experience Account to fund future permanent benefit increases ( 35 basis points). Therefore, by excluding returns expected to be used for purposes other than funding regular plan benefits, the discount rate represents the expected returns to be used to fund regular plan benefits.

June 30, 2022 GASB Assumptions: A discount rate of $7.25 \%$ is used for GASB reporting purposes.

## MORTALITY ASSUMPTIONS:

The mortality tables for active, non-disabled retirees, and disabled retirees, were revised effective June 30, 2018, based on the most recent experience study.

Active Members Mortality Table: RP-2014 White Collar Employee tables for males and females, adjusted by 1.010 for males and by 0.997 for females.

Non-Disabled Retiree/Inactive Members: RP-2014 White Collar Healthy Annuitant tables for males and females, adjusted by 1.366 for males and by 1.189 for females.

Disability Retiree Mortality: RP-2014 Disability tables for males and females, adjusted by factors of 1.111 for males and by 1.134 for females.

The base tables for active members, non-disabled retirees, and disabled retirees are adjusted from 2014 to 2018 using the MP-2017 generational improvement table, with continued future mortality improvement projected using the MP-2017 generational mortality improvement tables.

## DISABILITY ASSUMPTION:

Rates for total and permanent disability are based on attained age and were revised effective June 30, 2018, based on the most recent experience study.

## RETIREMENT/DROP ASSUMPTION:

Eligibility for normal retirement benefits and DROP participation is based on age and service requirements that vary by plan. Retirement and DROP rates are developed in combination and include an age and service component. The rates were revised effective June 30, 2018, based on the most recent experience study.

## TERMINATION ASSUMPTIONS:

Voluntary termination or withdrawal rates were revised effective June 30, 2018, based on the most recent experience study. Rates for Regular Teachers and Higher Education members are based on a combination of age and service. Rates for Lunch Plans A and B are based on service. For members terminating with vested benefits, it is assumed that $20 \%$ will elect to withdraw their accumulated employee contribution, and $80 \%$ will receive a benefit beginning at age 60 .

## SALARY GROWTH:

The rates of annual salary growth are based on the 2014-2018 experience study. The rates vary based upon the member's years of service. All salary growth assumptions were reduced by $0.20 \%$, effective July 1, 2020, based on the reduction in the inflation assumption from $2.50 \%$ to $2.30 \%$. The rates were developed as the inflation assumption plus the assumed real rates of wage growth, which include increases due to promotion and longevity (often called merit increases) which are generally service related. For valuation purposes, current salaries and projected future salaries are limited to the Section 401(a)(17) limit of the Internal Revenue Code, with future indexed increases.

## CONVERTED LEAVE:

Converted Leave is assumed to increase the accrued benefit at retirement according to the following table, based on the most recent experience study. The reduction from the prior rates for regular teachers and the lunch plans to current rates shown below is due to statutory limits placed on the amount of leave earned after June 30, 1990 that can be converted to service credit. In the most recent experience study, higher education experience was reviewed independently from regular teachers. The study showed that higher education members convert significantly more leave to service credit at retirement.

|  | Current Rates |
| :---: | :---: |
| Regular Teachers | $0.9 \%$ |
| Higher Education | $3.0 \%$ |
| Lunch Plans A \& B | $0.9 \%$ |

## FAMILY STATISTICS:

The composition of the family is based on Current Population Reports published by the United States Census Bureau. $75 \%$ of the membership is assumed to be married with the wife assumed to be three (3) years younger than the husband. Sample rates are as follows:

| Member Age | Number of Minor <br> Children | Years for Youngest Child <br> to Attain Majority |
| :---: | :---: | :---: |
| 25 | 1.2 | 17 |
| 30 | 1.4 | 15 |
| 35 | 1.7 | 13 |
| 40 | 1.7 | 10 |
| 45 | 1.4 | 8 |
| 50 | 1.1 | 4 |

## Actuarial Assumptions <br> Regular Teachers

| AGE | DISABILITY RATES | TERMINATION RATES |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \hline<1 \\ \text { YEAR } \end{gathered}$ | $\begin{gathered} 1-2 \\ \text { YEARS } \end{gathered}$ | $\begin{gathered} 2-3 \\ \text { YEARS } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 4+ } \\ \text { YEARS } \end{gathered}$ |
| 18 | 0.0001 | 0.250 | 0.250 | 0.165 | 0.170 |
| 19 | 0.0001 | 0.250 | 0.250 | 0.165 | 0.170 |
| 20 | 0.0001 | 0.250 | 0.250 | 0.165 | 0.170 |
| 21 | 0.0001 | 0.250 | 0.250 | 0.165 | 0.170 |
| 22 | 0.0001 | 0.250 | 0.250 | 0.165 | 0.170 |
| 23 | 0.0001 | 0.180 | 0.200 | 0.165 | 0.170 |
| 24 | 0.0001 | 0.180 | 0.200 | 0.165 | 0.170 |
| 25 | 0.0001 | 0.180 | 0.135 | 0.165 | 0.090 |
| 26 | 0.0001 | 0.180 | 0.135 | 0.125 | 0.090 |
| 27 | 0.0001 | 0.180 | 0.135 | 0.122 | 0.090 |
| 28 | 0.0001 | 0.180 | 0.135 | 0.119 | 0.085 |
| 29 | 0.0001 | 0.180 | 0.135 | 0.116 | 0.080 |
| 30 | 0.0003 | 0.180 | 0.135 | 0.113 | 0.070 |
| 31 | 0.0003 | 0.180 | 0.135 | 0.110 | 0.070 |
| 32 | 0.0003 | 0.165 | 0.135 | 0.107 | 0.060 |
| 33 | 0.0003 | 0.165 | 0.135 | 0.104 | 0.060 |
| 34 | 0.0003 | 0.165 | 0.130 | 0.101 | 0.050 |
| 35 | 0.0007 | 0.165 | 0.130 | 0.098 | 0.050 |
| 36 | 0.0008 | 0.165 | 0.120 | 0.095 | 0.045 |
| 37 | 0.0009 | 0.165 | 0.120 | 0.095 | 0.045 |
| 38 | 0.0010 | 0.165 | 0.120 | 0.095 | 0.042 |
| 39 | 0.0011 | 0.165 | 0.120 | 0.092 | 0.042 |
| 40 | 0.0012 | 0.165 | 0.120 | 0.090 | 0.042 |
| 41 | 0.0013 | 0.165 | 0.120 | 0.090 | 0.042 |
| 42 | 0.0014 | 0.150 | 0.120 | 0.090 | 0.042 |
| 43 | 0.0015 | 0.150 | 0.120 | 0.090 | 0.042 |
| 44 | 0.0016 | 0.150 | 0.120 | 0.090 | 0.042 |
| 45 | 0.0019 | 0.150 | 0.120 | 0.090 | 0.042 |
| 46 | 0.0020 | 0.150 | 0.120 | 0.090 | 0.042 |
| 47 | 0.0022 | 0.150 | 0.120 | 0.090 | 0.042 |
| 48 | 0.0023 | 0.150 | 0.120 | 0.090 | 0.042 |
| 49 | 0.0025 | 0.150 | 0.120 | 0.090 | 0.042 |
| 50 | 0.0030 | 0.150 | 0.120 | 0.090 | 0.042 |
| 51 | 0.0035 | 0.150 | 0.120 | 0.090 | 0.042 |
| 52 | 0.0040 | 0.150 | 0.120 | 0.090 | 0.042 |
| 53 | 0.0045 | 0.150 | 0.120 | 0.090 | 0.042 |
| 54 | 0.0050 | 0.150 | 0.120 | 0.090 | 0.042 |
| 55 | 0.0050 | 0.150 | 0.120 | 0.090 | 0.042 |
| 56 | 0.0050 | 0.150 | 0.120 | 0.090 | 0.042 |
| 57 | 0.0050 | 0.150 | 0.120 | 0.090 | 0.042 |
| 58 | 0.0050 | 0.150 | 0.120 | 0.090 | 0.042 |
| 59 | 0.0050 | 0.150 | 0.120 | 0.090 | 0.100 |
| 60 | 0.0048 | 0.150 | 0.120 | 0.090 | 0.100 |
| 61 | 0.0046 | 0.150 | 0.120 | 0.090 | 0.100 |
| 62 | 0.0044 | 0.150 | 0.120 | 0.090 | 0.100 |
| 63 | 0.0042 | 0.150 | 0.120 | 0.090 | 0.100 |
| 64 | 0.0040 | 0.150 | 0.120 | 0.090 | 0.100 |
| 65 | 0.0034 | 0.150 | 0.120 | 0.090 | 0.100 |
| 66 | 0.0029 | 0.150 | 0.120 | 0.090 | 0.100 |
| 67 | 0.0024 | 0.150 | 0.120 | 0.090 | 0.100 |
| 68 | 0.0022 | 0.150 | 0.120 | 0.090 | 0.100 |
| 69 | 0.0020 | 0.150 | 0.120 | 0.090 | 0.100 |
| 70 | 0.0020 | 0.150 | 0.120 | 0.090 | 0.100 |
| 71 | 0.0020 | 0.150 | 0.120 | 0.090 | 0.100 |
| 72 | 0.0020 | 0.150 | 0.120 | 0.090 | 0.100 |
| 73 | 0.0020 | 0.150 | 0.120 | 0.090 | 0.100 |
| 74 | 0.0020 | 0.150 | 0.120 | 0.090 | 0.100 |


| $\begin{aligned} & \hline \text { RETIREMENT/DROP } \\ & \text { RATES } \\ & \hline \end{aligned}$ |  |  |
| :---: | :---: | :---: |
| <25 | 25-29 | 30+ |
| YOS | YOS | YOS |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.000 | 0.000 | 0.000 |
| 0.035 | 0.000 | 0.000 |
| 0.035 | 0.000 | 0.000 |
| 0.035 | 0.000 | 0.000 |
| 0.035 | 0.000 | 0.000 |
| 0.035 | 0.000 | 0.000 |
| 0.035 | 0.000 | 0.000 |
| 0.035 | 0.000 | 0.000 |
| 0.035 | 0.020 | 0.000 |
| 0.035 | 0.020 | 0.000 |
| 0.035 | 0.020 | 0.000 |
| 0.035 | 0.025 | 0.450 |
| 0.035 | 0.025 | 0.450 |
| 0.035 | 0.045 | 0.450 |
| 0.035 | 0.140 | 0.600 |
| 0.035 | 0.240 | 0.600 |
| 0.040 | 0.240 | 0.450 |
| 0.100 | 0.470 | 0.360 |
| 0.180 | 0.760 | 0.270 |
| 0.180 | 0.350 | 0.210 |
| 0.180 | 0.310 | 0.220 |
| 0.190 | 0.310 | 0.230 |
| 0.235 | 0.250 | 0.230 |
| 0.235 | 0.250 | 0.230 |
| 0.145 | 0.250 | 0.230 |
| 0.145 | 0.240 | 0.230 |
| 0.145 | 0.220 | 0.210 |
| 0.180 | 0.240 | 0.290 |
| 0.250 | 0.235 | 0.270 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |
| 0.200 | 0.220 | 0.225 |


|  | SALARY INCREASE |
| :---: | :---: |
| DUR | $\begin{gathered} \text { Eff. July 1, } \\ 2020 \\ \hline \end{gathered}$ |
| 1 | 0.046 |
| 2 | 0.037 |
| 3 | 0.037 |
| 4 | 0.037 |
| 5 | 0.037 |
| 6 | 0.035 |
| 7 | 0.035 |
| 8 | 0.035 |
| 9 | 0.035 |
| 10 | 0.035 |
| 11 | 0.035 |
| 12 | 0.035 |
| 13 | 0.035 |
| 14 | 0.032 |
| 15 | 0.032 |
| 16 | 0.032 |
| 17 | 0.032 |
| 18 | 0.032 |
| 19 | 0.032 |
| 20 | 0.032 |
| 21 | 0.032 |
| 22 | 0.032 |
| 23 | 0.032 |
| 24 | 0.032 |
| 25 | 0.032 |
| 26 | 0.032 |
| 27 | 0.032 |
| 28 | 0.032 |
| 29 | 0.032 |
| 30 | 0.032 |
| 31 | 0.032 |
| 32 | 0.032 |
| 33 | 0.032 |
| 34 | 0.032 |
| 35 | 0.032 |
| 36 | 0.032 |
| 37 | 0.032 |
| 38 | 0.032 |
| 39 | 0.032 |
| 40 | 0.032 |
| 41 | 0.032 |
| 42 | 0.032 |
| 43 | 0.032 |
| 44 | 0.032 |
| 45 | 0.032 |
| 46 | 0.032 |
| 47 | 0.032 |
| 48 | 0.032 |
| 49 | 0.032 |
| 50 | 0.032 |
| 51 | 0.032 |
| 52 | 0.032 |
| 53 | 0.032 |
| 54 | 0.032 |
| 55 | 0.032 |
| 56 | 0.032 |
| 57 | 0.032 |

## Actuarial Assumptions Higher Education

| AGE | $\begin{array}{\|c\|} \hline \text { DISABILITY } \\ \text { RATES } \\ \hline \end{array}$ | TERMINATION RATES |  |  |  | RETIREMENT/DROPRATES |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} <1 \\ \text { YEAR } \end{gathered}$ | $\begin{gathered} 1-2 \\ \text { YEARS } \end{gathered}$ | $\begin{gathered} 2-3 \\ \text { YEARS } \\ \hline \end{gathered}$ | $\begin{gathered} 4+ \\ \text { YEARS } \\ \hline \end{gathered}$ | $\begin{aligned} & <25 \\ & \text { YOS } \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathbf{2 5 - 2 9} \\ & \text { YOS } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { 30+ } \\ & \text { YOS } \\ & \hline \end{aligned}$ |
| 18 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 19 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 20 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 21 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 22 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 23 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 24 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 25 | 0.0000 | 0.230 | 0.250 | 0.170 | 0.250 | 0.000 | 0.000 | 0.000 |
| 26 | 0.0000 | 0.230 | 0.210 | 0.230 | 0.250 | 0.000 | 0.000 | 0.000 |
| 27 | 0.0000 | 0.230 | 0.210 | 0.220 | 0.200 | 0.000 | 0.000 | 0.000 |
| 28 | 0.0001 | 0.230 | 0.210 | 0.215 | 0.120 | 0.000 | 0.000 | 0.000 |
| 29 | 0.0001 | 0.230 | 0.210 | 0.210 | 0.120 | 0.000 | 0.000 | 0.000 |
| 30 | 0.0001 | 0.230 | 0.210 | 0.205 | 0.120 | 0.000 | 0.000 | 0.000 |
| 31 | 0.0001 | 0.230 | 0.180 | 0.200 | 0.120 | 0.000 | 0.000 | 0.000 |
| 32 | 0.0001 | 0.210 | 0.180 | 0.195 | 0.120 | 0.000 | 0.000 | 0.000 |
| 33 | 0.0001 | 0.210 | 0.180 | 0.190 | 0.120 | 0.000 | 0.000 | 0.000 |
| 34 | 0.0001 | 0.210 | 0.180 | 0.185 | 0.100 | 0.000 | 0.000 | 0.000 |
| 35 | 0.0002 | 0.210 | 0.180 | 0.180 | 0.100 | 0.000 | 0.000 | 0.000 |
| 36 | 0.0002 | 0.210 | 0.180 | 0.175 | 0.090 | 0.000 | 0.000 | 0.000 |
| 37 | 0.0002 | 0.195 | 0.180 | 0.170 | 0.090 | 0.000 | 0.000 | 0.000 |
| 38 | 0.0002 | 0.195 | 0.180 | 0.165 | 0.090 | 0.080 | 0.050 | 0.400 |
| 39 | 0.0003 | 0.195 | 0.180 | 0.160 | 0.080 | 0.080 | 0.050 | 0.400 |
| 40 | 0.0003 | 0.195 | 0.180 | 0.155 | 0.080 | 0.080 | 0.050 | 0.400 |
| 41 | 0.0004 | 0.195 | 0.200 | 0.153 | 0.080 | 0.080 | 0.050 | 0.400 |
| 42 | 0.0004 | 0.195 | 0.200 | 0.151 | 0.080 | 0.080 | 0.050 | 0.400 |
| 43 | 0.0005 | 0.195 | 0.200 | 0.149 | 0.080 | 0.070 | 0.050 | 0.400 |
| 44 | 0.0006 | 0.195 | 0.200 | 0.147 | 0.080 | 0.045 | 0.050 | 0.400 |
| 45 | 0.0007 | 0.195 | 0.200 | 0.145 | 0.080 | 0.045 | 0.050 | 0.400 |
| 46 | 0.0008 | 0.195 | 0.190 | 0.143 | 0.080 | 0.033 | 0.050 | 0.400 |
| 47 | 0.0008 | 0.195 | 0.180 | 0.141 | 0.080 | 0.033 | 0.050 | 0.400 |
| 48 | 0.0008 | 0.195 | 0.170 | 0.139 | 0.080 | 0.033 | 0.050 | 0.400 |
| 49 | 0.0008 | 0.195 | 0.160 | 0.137 | 0.080 | 0.033 | 0.050 | 0.400 |
| 50 | 0.0008 | 0.195 | 0.150 | 0.135 | 0.080 | 0.033 | 0.050 | 0.400 |
| 51 | 0.0008 | 0.195 | 0.140 | 0.133 | 0.080 | 0.033 | 0.100 | 0.500 |
| 52 | 0.0008 | 0.195 | 0.140 | 0.131 | 0.080 | 0.033 | 0.100 | 0.250 |
| 53 | 0.0008 | 0.195 | 0.140 | 0.129 | 0.080 | 0.033 | 0.100 | 0.250 |
| 54 | 0.0008 | 0.195 | 0.140 | 0.127 | 0.080 | 0.100 | 0.320 | 0.400 |
| 55 | 0.0008 | 0.195 | 0.140 | 0.125 | 0.080 | 0.125 | 0.500 | 0.155 |
| 56 | 0.0008 | 0.195 | 0.140 | 0.123 | 0.080 | 0.125 | 0.250 | 0.155 |
| 57 | 0.0008 | 0.195 | 0.140 | 0.121 | 0.080 | 0.100 | 0.200 | 0.155 |
| 58 | 0.0008 | 0.195 | 0.140 | 0.119 | 0.080 | 0.145 | 0.120 | 0.155 |
| 59 | 0.0006 | 0.195 | 0.140 | 0.117 | 0.080 | 0.160 | 0.135 | 0.155 |
| 60 | 0.0004 | 0.195 | 0.140 | 0.115 | 0.080 | 0.200 | 0.180 | 0.155 |
| 61 | 0.0003 | 0.195 | 0.140 | 0.115 | 0.080 | 0.120 | 0.150 | 0.155 |
| 62 | 0.0002 | 0.195 | 0.140 | 0.115 | 0.080 | 0.120 | 0.150 | 0.155 |
| 63 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.080 | 0.150 | 0.155 |
| 64 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.130 | 0.120 | 0.155 |
| 65 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.180 | 0.165 | 0.155 |
| 66 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.180 | 0.180 | 0.155 |
| 67 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.100 | 0.155 |
| 68 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.100 | 0.155 |
| 69 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.160 | 0.155 |
| 70 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.160 | 0.155 |
| 71 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.160 | 0.155 |
| 72 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.160 | 0.155 |
| 73 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.160 | 0.155 |
| 74 | 0.0001 | 0.195 | 0.140 | 0.115 | 0.080 | 0.140 | 0.160 | 0.155 |


|  | SALARY <br> INCREASE |
| :---: | :---: |
| DUR | Eff. July 1, |
| $\mathbf{2 0 2 0}$ |  |
| $\mathbf{2}$ | 0.046 |
| $\mathbf{3}$ | 0.046 |
| $\mathbf{4}$ | 0.043 |
| $\mathbf{5}$ | 0.037 |
| $\mathbf{6}$ | 0.037 |
| $\mathbf{7}$ | 0.037 |
| $\mathbf{8}$ | 0.037 |
| $\mathbf{9}$ | 0.037 |
| $\mathbf{1 0}$ | 0.034 |
| $\mathbf{1 1}$ | 0.034 |
| $\mathbf{1 2}$ | 0.034 |
| $\mathbf{1 3}$ | 0.034 |
| $\mathbf{1 4}$ | 0.034 |
| $\mathbf{1 5}$ | 0.034 |
| $\mathbf{1 6}$ | 0.034 |
| $\mathbf{1 7}$ | 0.034 |
| $\mathbf{1 8}$ | 0.034 |
| $\mathbf{1 9}$ | 0.031 |
| $\mathbf{2 0}$ | 0.031 |
| $\mathbf{2 1}$ | 0.031 |
| $\mathbf{2 2}$ | 0.031 |
| $\mathbf{2 3}$ | 0.031 |
| $\mathbf{2 4}$ | 0.031 |
| $\mathbf{2 5}$ | 0.031 |
| $\mathbf{2 6}$ | 0.031 |
| $\mathbf{2 7}$ | 0.031 |
| $\mathbf{2 8}$ | 0.031 |
| $\mathbf{2 9}$ | 0.031 |
| $\mathbf{3 0}$ | 0.031 |
| $\mathbf{3 1}$ | 0.031 |
| $\mathbf{3 2}$ | 0.031 |
| $\mathbf{3 3}$ | 0.031 |
| $\mathbf{3 4}$ | 0.031 |
| $\mathbf{3 5}$ | 0.031 |
| $\mathbf{3 6}$ | 0.031 |
| $\mathbf{3 7}$ | 0.031 |
| $\mathbf{3 8}$ | 0.031 |
| $\mathbf{3 9}$ | 0.031 |
| $\mathbf{4 0}$ | 0.031 |
| $\mathbf{4 1}$ | 0.031 |
| $\mathbf{4 2}$ | 0.031 |
| $\mathbf{4 3}$ | 0.031 |
| $\mathbf{4 4}$ | 0.031 |
| $\mathbf{4 5}$ | 0.031 |
| $\mathbf{4 6}$ | 0.031 |
| $\mathbf{4 7}$ | 0.031 |
| $\mathbf{4 8}$ | 0.031 |
| $\mathbf{4 9}$ | 0.031 |
| $\mathbf{5 0}$ | 0.031 |
| $\mathbf{5 1}$ | 0.031 |
| $\mathbf{5 2}$ | 0.031 |
| $\mathbf{5 3}$ | 0.031 |
| $\mathbf{5 4}$ | 0.031 |
| $\mathbf{5 5}$ | 0.031 |
| $\mathbf{5 6}$ | 0.031 |
| $\mathbf{5 7}$ | 0.031 |
|  |  |

## Actuarial Assumptions

## Lunch Plans A and B

| AGE | $\begin{gathered} \text { DISABILITY } \\ \text { RATES } \\ \hline \end{gathered}$ | RETIREMENT/ DROP RATES | DUR | TERMINATION RATES | SALARY <br> INCREASE <br> Eff. July 1, <br> 2020 <br> 0 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| 18 | 0.0000 | 0.000 | 0 | 0.150 | 0.044 |
| 19 | 0.0000 | 0.000 | 1 | 0.135 | 0.044 |
| 20 | 0.0000 | 0.000 | 2 | 0.120 | 0.034 |
| 21 | 0.0000 | 0.000 | 3 | 0.105 | 0.031 |
| 22 | 0.0000 | 0.000 | 4 | 0.090 | 0.031 |
| 23 | 0.0000 | 0.000 | 5 | 0.075 | 0.031 |
| 24 | 0.0000 | 0.000 | 6 | 0.060 | 0.031 |
| 25 | 0.0000 | 0.000 | 7 | 0.045 | 0.031 |
| 26 | 0.0000 | 0.000 | 8 | 0.045 | 0.031 |
| 27 | 0.0000 | 0.000 | 9 | 0.045 | 0.031 |
| 28 | 0.0000 | 0.000 | 10 | 0.045 | 0.031 |
| 29 | 0.0000 | 0.000 | 11 | 0.045 | 0.031 |
| 30 | 0.0000 | 0.000 | 12 | 0.045 | 0.031 |
| 31 | 0.0000 | 0.000 | 13 | 0.045 | 0.031 |
| 32 | 0.0000 | 0.000 | 14 | 0.045 | 0.031 |
| 33 | 0.0000 | 0.000 | 15 | 0.045 | 0.031 |
| 34 | 0.0000 | 0.000 | 16 | 0.045 | 0.031 |
| 35 | 0.0001 | 0.000 | 17 | 0.045 | 0.031 |
| 36 | 0.0003 | 0.000 | 18 | 0.045 | 0.031 |
| 37 | 0.0005 | 0.000 | 19 | 0.045 | 0.031 |
| 38 | 0.0007 | 0.500 | 20 | 0.045 | 0.031 |
| 39 | 0.0009 | 0.500 | 21 | 0.045 | 0.031 |
| 40 | 0.0011 | 0.500 | 22 | 0.045 | 0.031 |
| 41 | 0.0015 | 0.500 | 23 | 0.045 | 0.031 |
| 42 | 0.0019 | 0.500 | 24 | 0.045 | 0.031 |
| 43 | 0.0024 | 0.500 | 25 | 0.045 | 0.031 |
| 44 | 0.0029 | 0.500 | 26 | 0.045 | 0.031 |
| 45 | 0.0037 | 0.500 | 27 | 0.045 | 0.031 |
| 46 | 0.0045 | 0.500 | 28 | 0.045 | 0.031 |
| 47 | 0.0050 | 0.500 | 29 | 0.045 | 0.031 |
| 48 | 0.0056 | 0.500 | 30 | 0.045 | 0.031 |
| 49 | 0.0064 | 0.500 | 31 | 0.045 | 0.031 |
| 50 | 0.0074 | 0.500 | 32 | 0.045 | 0.031 |
| 51 | 0.0084 | 0.500 | 33 | 0.045 | 0.031 |
| 52 | 0.0094 | 0.500 | 34 | 0.045 | 0.031 |
| 53 | 0.0098 | 0.500 | 35 | 0.045 | 0.031 |
| 54 | 0.0098 | 0.500 | 36 | 0.045 | 0.031 |
| 55 | 0.0100 | 0.700 | 37 | 0.045 | 0.031 |
| 56 | 0.0100 | 0.430 | 38 | 0.045 | 0.031 |
| 57 | 0.0100 | 0.390 | 39 | 0.045 | 0.031 |
| 58 | 0.0100 | 0.350 | 40 | 0.045 | 0.031 |
| 59 | 0.0100 | 0.330 | 41 | 0.045 | 0.031 |
| 60 | 0.0030 | 0.430 | 42 | 0.045 | 0.031 |
| 61 | 0.0025 | 0.230 | 43 | 0.045 | 0.031 |
| 62 | 0.0020 | 0.230 | 44 | 0.045 | 0.031 |
| 63 | 0.0015 | 0.230 | 45 | 0.045 | 0.031 |
| 64 | 0.0011 | 0.300 | 46 | 0.045 | 0.031 |
| 65 | 0.0009 | 0.280 | 47 | 0.045 | 0.031 |
| 66 | 0.0008 | 0.240 | 48 | 0.045 | 0.031 |
| 67 | 0.0007 | 0.240 | 49 | 0.045 | 0.031 |
| 68 | 0.0006 | 0.240 | 50 | 0.045 | 0.031 |
| 69 | 0.0005 | 0.240 | 51 | 0.045 | 0.031 |
| 70 | 0.0005 | 0.240 | 52 | 0.045 | 0.031 |
| 71 | 0.0005 | 0.240 | 53 | 0.045 | 0.031 |
| 72 | 0.0005 | 0.240 | 54 | 0.045 | 0.031 |
| 73 | 0.0005 | 0.240 | 55 | 0.045 | 0.031 |
| 74 | 0.0005 | 0.240 | 56 | 0.045 | 0.031 |

## Actuarial Assumptions Mortality Tables

## Active Member Mortality

| Adjusted RP-2014 Base Table |  |  | Projected 2020 Table |  |  | Projected 2050 Table |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Age | Male | Female | Age | Male | Female |
| 20 | 0.000288 | 0.000137 | 20 | 0.000266 | 0.000132 | 20 | 0.000195 | 0.000099 |
| 30 | 0.000320 | 0.000183 | 30 | 0.000329 | 0.000190 | 30 | 0.000243 | 0.000142 |
| 40 | 0.000444 | 0.000333 | 40 | 0.000462 | 0.000346 | 40 | 0.000357 | 0.000267 |
| 50 | 0.001194 | 0.000927 | 50 | 0.001115 | 0.000889 | 50 | 0.000849 | 0.000679 |
| 60 | 0.003321 | 0.002054 | 60 | 0.003312 | 0.002093 | 60 | 0.002448 | 0.001567 |

## Non-Disabled Retiree Mortality

| Adjusted RP-2014 Base Table |  |  | Projected 2020 Table |  |  | Projected 2050 Table |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Age | Male | Female | Age | Male | Female |
| 50 | 0.003776 | 0.002468 | 50 | 0.003525 | 0.002367 | 50 | 0.002685 | 0.001807 |
| 60 | 0.007137 | 0.004626 | 60 | 0.007118 | 0.004714 | 60 | 0.005261 | 0.003530 |
| 70 | 0.016941 | 0.012549 | 70 | 0.016409 | 0.011871 | 70 | 0.012455 | 0.009030 |
| 80 | 0.050961 | 0.036168 | 80 | 0.048168 | 0.034546 | 80 | 0.035915 | 0.025595 |
| 90 | 0.172376 | 0.119146 | 90 | 0.164979 | 0.115535 | 90 | 0.125508 | 0.088364 |

## Disabled Mortality

Adjusted RP-2014 Base Table
Projected 2020 Table
Projected 2050 Table

| Age | Male | Female |  | Age | Male | Female |  |  | Age |  | Male |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | Female 9.

# AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY <br> June 30, 2022 (7.25\% discount rate) 

| Date | Description | Notes | Amtz. Period | Beginning Liability | Years <br> Remain | Remaining Balance | Mid-Year Payment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2022 | OAB | Note 1 | 7 | 968,958,274 | 7 | 968,958,274 | 210,140,975 |
| 2022 | EAAB | Note 2,3 | 18 | 2,195,892,037 | 18 | 2,195,892,037 | 269,430,449 |
| 2022 | 2009 Experience G/L |  | 17 | 2,400,647,935 | 17 | 2,400,647,935 | 241,557,933 |
| 2022 | 2010 Experience G/L |  | 18 | 952,466,967 | 18 | 952,466,967 | 93,087,222 |
| 2022 | 2011 Experience G/L |  | 19 | $(148,556,729)$ | 19 | $(148,556,729)$ | $(14,140,287)$ |
| 2022 | 2012 Experience G/L |  | 20 | 109,008,183 | 20 | 109,008,183 | 10,129,611 |
| 2022 | 2013 Experience G/L |  | 21 | $(219,765,462)$ | 21 | $(219,765,462)$ | (19,979,601) |
| 2022 | 2013 Assump/Asset Method Chg |  | 21 | 747,988,262 | 21 | 747,988,262 | 68,002,075 |
| 2022 | 2014 Assump/Cost Method Chg |  | 22 | 1,307,796,833 | 22 | 1,307,796,833 | 116,543,379 |
| 2022 | 2014 Liability G/L |  | 22 | $(146,227,624)$ | 22 | $(146,227,624)$ | (13,030,970) |
| 2022 | 2015 Experience G/L |  | 23 | $(345,171,263)$ | 23 | $(345,171,263)$ | (30,202,440) |
| 2022 | 2016 Experience G/L |  | 24 | 24,769,426 | 24 | 24,769,426 | 2,131,320 |
| 2022 | 2017 Discount Rate Change |  | 25 | 127,594,026 | 25 | 127,594,026 | 10,811,557 |
| 2022 | 2017 Experience G/L |  | 25 | (204,886,473) | 25 | (204,886,473) | (17,360,858) |
| 2022 | 2017 Experience Acct Allocation |  | 5 | 5,835,360 | 5 | 5,835,360 | 1,383,457 |
| 2022 | 2018 Disc Rate/Assump Change |  | 26 | 658,278,811 | 26 | 658,278,811 | 54,996,521 |
| 2022 | 2018 Experience G/L |  | 26 | $(189,766,009)$ | 26 | $(189,766,009)$ | $(15,854,179)$ |
| 2022 | 2018 Experience Acct Allocation |  | 6 | 30,401,510 | 6 | 30,401,510 | 6,206,371 |
| 2022 | 2019 Experience G/L |  | 27 | (89,725,642) | 27 | (89,725,642) | $(7,399,475)$ |
| 2022 | 2019 Discount Rate Change |  | 27 | 289,004,569 | 27 | 289,004,569 | 23,833,566 |
| 2022 | 2020 Disc Rate/Sal Change |  | 28 | 221,016,064 | 28 | 221,016,064 | 18,009,998 |
| 2022 | 2020 Experience G/L |  | 28 | 155,905,225 | 28 | 155,905,225 | 12,704,293 |
| 2022 | 2021 Discount Rate Change |  | 19 | 155,497,629 | 19 | 155,497,629 | 14,800,952 |
| 2022 | 2021 Experience G/L |  | 19 | (772,720,583) | 19 | (772,720,583) | $(73,550,964)$ |
| 2022 | 2021 Experience Acct Allocation |  | 9 | 246,982,602 | 9 | 246,982,602 | 36,995,029 |
| 2022 | 2022 Experience G/L |  | 20 | 79,834,647 | 20 | 79,834,647 | 7,418,654 |
| 2022 | 2022 Experience Acct Allocation |  | 10 | 30,502,699 | 10 | 30,502,699 | 4,242,134 |
| 2022 | 2022 Discount Rate Change |  | 20 | 498,139,277 | 20 | 498,139,277 | 46,289,711 |

Total Unfunded Actuarial Accrued Liability
\$ 9,089,700,551 \$ 1,057,196,433

See UAL Amortization Schedule Notes within this Appendix.

# AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY 

Projected June 30, 2023 (7.25\% discount rate)

| Date | Description | Notes | Amtz. Period | Beginning Liability | Years <br> Remain | Remaining Balance | Mid-Year Payment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2022 | OAB | Note 1 | 7 | 968,958,274 | 6 | 821,582,444 | 210,140,975 |
| 2022 | EAAB | Note 2,3 | 18 | 2,195,892,037 | 17 | 2,050,073,484 | 269,430,449 |
| 2022 | 2009 Experience G/L |  | 17 | 2,400,647,935 | 16 | 2,324,533,708 | 241,557,933 |
| 2022 | 2010 Experience G/L |  | 18 | 952,466,967 | 17 | 925,118,228 | 93,087,222 |
| 2022 | 2011 Experience G/L |  | 19 | $(148,556,729)$ | 18 | $(144,683,188)$ | $(14,140,287)$ |
| 2022 | 2012 Experience G/L |  | 20 | 109,008,183 | 19 | 106,420,891 | 10,129,611 |
| 2022 | 2013 Experience G/L |  | 21 | $(219,765,462)$ | 20 | $(215,007,268)$ | (19,979,601) |
| 2022 | 2013 Assump/Asset Method Chg |  | 21 | 747,988,262 | 20 | 731,793,391 | 68,002,075 |
| 2022 | 2014 Assump/Cost Method Chg |  | 22 | 1,307,796,833 | 21 | 1,281,917,943 | 116,543,379 |
| 2022 | 2014 Liability G/L |  | 22 | $(146,227,624)$ | 21 | $(143,334,049)$ | $(13,030,970)$ |
| 2022 | 2015 Experience G/L |  | 23 | $(345,171,263)$ | 22 | $(338,918,057)$ | (30,202,440) |
| 2022 | 2016 Experience G/L |  | 24 | 24,769,426 | 23 | 24,357,981 | 2,131,320 |
| 2022 | 2017 Discount Rate Change |  | 25 | 127,594,026 | 24 | 125,647,974 | 10,811,557 |
| 2022 | 2017 Experience G/L |  | 25 | $(204,886,473)$ | 24 | $(201,761,564)$ | $(17,360,858)$ |
| 2022 | 2017 Experience Acct Allocation |  | 5 | 5,835,360 | 4 | 4,825,694 | 1,383,457 |
| 2022 | 2018 Disc Rate/Assump Change |  | 26 | 658,278,811 | 25 | 649,048,761 | 54,996,521 |
| 2022 | 2018 Experience G/L |  | 26 | $(189,766,009)$ | 25 | $(187,105,207)$ | $(15,854,179)$ |
| 2022 | 2018 Experience Acct Allocation |  | 6 | 30,401,510 | 5 | 26,178,203 | 6,206,371 |
| 2022 | 2019 Experience G/L |  | 27 | $(89,725,642)$ | 26 | (88,567,738) | $(7,399,475)$ |
| 2022 | 2019 Discount Rate Change |  | 27 | 289,004,569 | 26 | 285,274,984 | 23,833,566 |
| 2022 | 2020 Disc Rate/Sal Change |  | 28 | 221,016,064 | 27 | 218,388,291 | 18,009,998 |
| 2022 | 2020 Experience G/L |  | 28 | 155,905,225 | 27 | 154,051,588 | 12,704,293 |
| 2022 | 2021 Discount Rate Change |  | 19 | 155,497,629 | 18 | 151,443,108 | 14,800,952 |
| 2022 | 2021 Experience G/L |  | 19 | (772,720,583) | 18 | $(752,572,288)$ | (73,550,964) |
| 2022 | 2021 Experience Acct Allocation |  | 9 | 246,982,602 | 8 | 226,576,206 | 36,995,029 |
| 2022 | 2022 Experience G/L |  | 20 | 79,834,647 | 19 | 77,939,784 | 7,418,654 |
| 2022 | 2022 Experience Acct Allocation |  | 10 | 30,502,699 | 9 | 28,320,924 | 4,242,134 |
| 2022 | 2022 Discount Rate Change |  | 20 | 498,139,277 | 19 | 486,316,021 | 46,289,711 |
| Total | nfunded Actuarial Accrued Liab | lity |  |  |  | \$ 8,627,860,249 | ,057,196,433 |

See UAL Amortization Schedule Notes within this Appendix.

## UAL Amortization Schedule Notes

Act 497 of 2009 consolidated all schedules established prior to 2009 into two amortization schedules, the Original Amortization Base (OAB) and the Experience Account Amortization Base (EAAB). The OAB consists of the outstanding balance of the Initial Unfunded Accrued Liability and schedules with negative outstanding balances. The outstanding balance of this schedule was credited with funds from the Initial UAL account, excluding the subaccount of this fund, and the balance of the Employer Credit Account. The OAB payment schedule is prescribed by statute, as described in Note 1 below. The EAAB consists of the 2004 schedule and all remaining schedules. The outstanding balance of this schedule was credited with the balance of funds from the Initial UAL subaccount, which were transferred from the Employee Experience Account on June 30, 2009. The EAAB payment schedule is prescribed by statute, as described in Note 2 below.

Effective July 1, 2022, all schedules were re-amortized using a discount rate of $7.25 \%$. Projected July 1, 2023 schedules are based on a $7.25 \%$ discount rate.

Note 1: Act 497 of 2009 created the Original Amortization Base, effective July 1, 2010, which includes the Initial Unfunded Accrued Liability (IUAL) and certain negative bases that existed before 2009. The combined balance was reduced by applying funds from the IUAL Fund, excluding the subaccount of this fund. In addition to regular payments and contribution variance credits, the schedule was reduced by investment gains up to the annual "thresholds" created by Act 497 of 2009 and Act 399 of 2014. The schedule was credited appropriations from Act 55 of 2014, Act 56 of 2015, Act 59 of 2018, Act 50 of 2019, Act 255 of 2020, Act 120 of 2021 and Act 170 of 2022. Future payments will be level, or will decrease upon reamortization, until paid off on or before 2029.

Note 2: Act 497 of 2009 created the Experience Account Amortization Base, which combined the liability resulting from Act 588 of 2004 which zeroed out the Experience Account, and certain other positive schedules that existed prior to 2009. The combined balance was reduced by applying funds from the subaccount of the IUAL Fund, which were transferred from the Experience Account on June 30, 2009. In addition to regular payments and contribution variance credits, the schedule was reduced by investment gains up to the annual "thresholds" created by Act 497 of 2009 and Act 399 of 2014. Future payments will be level, or will decrease upon reamortization, until paid off on or before 2040.

Note 3: The 2012 contribution variance surplus of $\$ 7,169,301$ was used to reduce and re-amortize the EAAB, per Act 497 of 2009. The 2014-2022 contribution variance surpluses were used to reduce the EAAB, per Act 399 of 2014. The 2022 contribution variance surplus was updated from last year's projected amount to $\$ 144,147,469$. The projected contribution variance surplus for 2023 is $\$ 25,994,306$.

UAL Outstanding Balance and Payment Schedule
Based on June 30, 2023 Projected UAL Schedules

| FY | UAL <br> Outstanding <br> Balance | UAL <br> Mid-Year <br> Payments <br> Beginning <br> (Millions) | Millions) <br> Payment | (Mange | UAL <br> Outstanding <br> Balance | UAL Mid- <br> Year <br> Payments <br> (Millions) | Payment <br> Change |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2022 | 9,090 | 1,057 |  | 2037 | 2,003 | 529 | $0.0 \%$ |
| 2024 | 8,628 | 1,057 | $0.0 \%$ | 2038 | 1,601 | 529 | $0.0 \%$ |
| 2025 | 8,159 | 1,057 | $0.0 \%$ | 2039 | 1,170 | 287 | $-45.7 \%$ |
| 2026 | 7,655 | 1,057 | $0.0 \%$ | 2040 | 957 | 194 | $-32.4 \%$ |
| 2027 | 7,115 | 1,057 | $0.0 \%$ | 2041 | 825 | 267 | $37.5 \%$ |
| 2028 | 6,536 | 967 | $-8.5 \%$ | 2042 | 608 | 203 | $-23.9 \%$ |
| 2029 | 6,009 | 839 | $-13.2 \%$ | 2043 | 442 | 155 | $-23.6 \%$ |
| 2030 | 5,575 | 839 | $0.0 \%$ | 2044 | 313 | 52 | $-66.7 \%$ |
| 2031 | 5,110 | 839 | $0.0 \%$ | 2045 | 283 | 82 | $58.5 \%$ |
| 2032 | 4,611 | 802 | $-4.4 \%$ | 2046 | 218 | 80 | $-2.6 \%$ |
| 2033 | 4,114 | 798 | $-0.5 \%$ | 2047 | 152 | 86 | $8.2 \%$ |
| 2034 | 3,586 | 764 | $-4.3 \%$ | 2048 | 73 | 47 | $-45.4 \%$ |
| 2035 | 3,055 | 529 | $-30.8 \%$ | 2049 | 30 | 31 | $-34.9 \%$ |
| 2036 | 2,728 | 529 | $0.0 \%$ | 2050 | 0 | 0 | $-100.0 \%$ |



## Components of Original Amortization Base (Dollar amounts in millions)

|  | Annual Outstanding Balance |  |  |  |  | Annual Payments |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Employer |  |  |  | Employer |  |  |  |  |
|  | IUAL | Other <br> Schedules | IUAL <br> Acct | Credit <br> Account | $\begin{aligned} & \text { Total } \\ & \text { OAB } \end{aligned}$ | IUAL | Other <br> Schedules | IUAL <br> Acct | Credit <br> Account | $\begin{aligned} & \text { Total } \\ & \text { OAB } \\ & \hline \end{aligned}$ |
| 2022 | 3,654.3 | (2,367.0) | (254.6) | (63.8) | 969.0 | 792.5 | (513.3) | (55.2) | (13.8) | 210.1 |
| 2023 | 3,098.5 | $(2,007.0)$ | (215.8) | (54.1) | 821.6 | 792.5 | (513.3) | (55.2) | (13.8) | 210.1 |
| 2024 | 2,502.4 | $(1,620.8)$ | (174.3) | (43.7) | 663.5 | 792.5 | (513.3) | (55.2) | (13.8) | 210.1 |
| 2025 | 1,863.1 | $(1,206.7)$ | (129.8) | (32.5) | 494.0 | 792.5 | (513.3) | (55.2) | (13.8) | 210.1 |
| 2026 | 1,177.4 | (762.6) | (82.0) | (20.6) | 312.2 | 792.5 | (513.3) | (55.2) | (13.8) | 210.1 |
| 2027 | 442.0 | (286.3) | (30.8) | (7.7) | 117.2 | 457.7 | (296.5) | (31.9) | (8.0) | 121.4 |
| 2028 | - | - | - | - | - | - | - | - | - | - |
| 2029 | - | - | - | - | - | - | - | - | - | - |

Totals may not add due to rounding.
This table has changed from previously published tables due the 2022 legislative appropriation allocated to the IUAL and the change in discount rate from $7.40 \%$ to $7.25 \%$.

## GLOSSARY

Accrued Benefit - The pension benefit that an individual has earned as of a specific date based on the provisions of the plan and the individual's age, service, and salary as of that date.

Actuarial Accrued Liability - Computed differently under different funding methods, the actuarial accrued liability generally represents the portion of the actuarial present value of benefits attributable to service credit earned (or accrued) as of the valuation date.

Actuarial Present Value of Benefits - Amount which, together with future interest, is expected to be sufficient to pay all benefits to be paid in the future, regardless of when earned, as determined by the application of a particular set of actuarial assumptions; equivalent to the actuarial accrued liability plus the present value of future normal costs attributable to the members.

Actuarial Assumptions - Assumptions as to the occurrence of future events affecting pension costs. These assumptions include rates of investment earnings, changes in compensation, rates of mortality, withdrawal, disablement, and retirement as well as statistics related to marriage and family composition.

Actuarial Cost Method - A method of determining the portion of the cost of a pension plan to be allocated to each year; sometimes referred to as the "actuarial funding method." Each cost method allocates a certain portion of the actuarial present value of benefits between the actuarial accrued liability and future normal costs.

Actuarial Equivalence - Series of payments with equal actuarial present values on a given date when valued using the same set of actuarial assumptions.

Actuarial Present Value - The amount of funds required as of a specified date to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest, and by probabilities of payments between the specified date and the expected date of payment.

Actuarial Value of Assets - The value of cash, investments, and other property belonging to the pension plan as used by the actuary for the purpose of the actuarial valuation. This may correspond to market value of assets, or some modification using an asset valuation method to reduce the volatility of asset values.

Actuarially Reduced - The method of adjusting a benefit received at an early date or paid in a form other than the lifetime of the member so that the expected total cost to the retirement system is equivalent to the cost if the benefit did not begin until later, or was paid for the lifetime of the member.

Asset Gain (Loss) - That portion of the actuarial gain attributable to investment performance above (below) the expected rate of return in the actuarial assumptions.

Amortization - Paying off an interest-discounted amount with periodic payments of interest and (generally) principal, as opposed to paying off with a lump sum payment.

Amortization Payment - That portion of the pension plan contribution designated to pay interest and reduce the outstanding principal balance of unfunded actuarial accrued liability. If the amortization payment is less than the accrued interest on the unfunded actuarial accrued liability the outstanding principal balance will increase.

Contribution Variance - The difference between actuarially required contribution and the actual amount received based upon a projected contribution rate. Results in an increase or decrease to future required contributions.

Discount Rate - The interest rate used in developing present values to reflect the time value of money.
Decrements - Events which result in the termination of membership such as retirement, disability, withdrawal, or death.

Employer Normal Cost - Portion of the normal cost, excluding administrative expenses, not paid by employee contributions.

Entry Age Normal (EAN) Funding Method - A standard actuarial funding method whereby each member's normal costs (service costs) are generally level as a percentage of pay from entry age until retirement. The annual cost of benefits is comprised of the normal cost plus an amortization payment to reduce the UAL.

Experience Gain (Loss) - The difference between actual unfunded actuarial accrued liabilities and anticipated unfunded actuarial accrued liabilities during the period between two valuation dates. It is a measurement of the difference between actual and expected experience and may be related to investment earnings above (or below) those expected or changes in the liability due to fewer (or greater) than expected numbers of retirements, deaths, disabilities, or withdrawals, or variances in pay increases relative to assumed pay increases. The effect of such gains (or losses) is to decrease (or increase) future costs.

Experience Account Amortization Base (EAAB) - Amortization base created in 2010 by Act 497 of 2009. Consolidated and re-amortized schedules created in the following valuation years, which existed prior to Act 497: 1997, 2001-2003, 2004 (the liability resulting from Act 588 of 2004 which zeroed out the Experience Account), and 2008. The new combined balance was credited with funds from the sub-account of the IUAL Fund, which were transferred from the Experience Account on June 30, 2009. See Note 2 in Appendix D for additional details.

Funded Ratio - A measure of the ratio of the actuarial value of assets to liabilities of the system. Typically, the assets used in the measure are the actuarial value of assets as determined by the asset valuation method adopted by the Board of Trustees; the liabilities are determined using the actuarial funding method specified by Louisiana statute. Thus, the funded ratio depends not only on the financial strength of the plan but also on the asset valuation method used to determine the assets and on the actuarial cost method used to determine the liabilities.

Governmental Accounting Standards Board (GASB) - Governmental agency that sets the accounting standards for state and local government operations.

Market Value of Assets (MVA) - The value of assets as they would trade on an open market.

Normal Cost - Computed differently under different funding methods, generally that portion of the actuarial present value of benefits allocated to the current plan year.

Original Amortization Base (OAB) - Amortization base created in 2010 by Act 497 of 2009. Consolidated and re-amortized schedules created in the following valuation years, which existed prior to Act 497: 1993 (Initial Unfunded Accrued Liability), 1993 (Change in Liability), 1994-1996, 1998-2000, and 2005-2008. See Note 1 in Appendix D for additional details.

Permanent Benefit Increase - An increase in specified current retiree benefits authorized by statutes.

Projected Benefits - The benefits expected to be paid in the future based on the provisions of the plan and the actuarial assumptions. The projected values are based on anticipated future advancement in age and accrual of service as well as increases in salary paid to the participant.

Projected Unit Credit (PUC) Funding Method - A standard actuarial funding method whereby the actuarial present value of projected benefits of each individual is accumulated from the participant's attained age to anticipated retirement. The portion attributable to current year benefit accruals is called the normal cost. The actuarial present value of future benefits in proportion to service accrued on the date of valuation is called the actuarial accrued liability. The annual cost of benefits is comprised of the normal cost plus an amortization payment to reduce the unfunded actuarial accrued liability.

Public Retirement Systems' Actuarial Committee (PRSAC) - A committee created by state law within the Louisiana Department of the Treasury to ensure orderly and consistent strategies for continuing development and growth that will attain and maintain the soundness of the public retirement systems, plans and funds and to report all findings and recommendations to the House and Senate committees on retirement and the Joint Legislative Committee on the Budget.

Side-Fund Assets - Assets held in the trust for purposes other than for paying the accrued benefits or administrative expenses of the plan.

Unfunded Actuarial Accrued Liability (UAAL or UAL) - The excess of the actuarial accrued liability over the valuation assets; sometimes referred to as "unfunded past service liability". UAL increases (decreases) each time an actuarial loss (gain) occurs and when new benefits are added without being fully funded initially.

Valuation Assets - The actuarial value of assets less side-fund assets; represents the portion of the actuarial value of assets available to pay the accrued benefits of the plan.

Vested Benefit - Benefits that the members are entitled to regardless of employment status.


[^0]:    1 Dollar Amounts reflect estimated payments due mid-year on January 1st per Act 81. Constitutional Minimum is $11.8 \%$ without regard to the statutory minimum of $15.5 \%$.
    2 Amortization payments are paid as a percentage of plan member and ORP payroll. The ORP salary adjustment factor is used to convert amortization payments to percentage of payroll.

[^1]:    ${ }^{1}$ Plan Fiduciary Net Position excludes side-fund assets held for the LSU Agriculture and Extension Service
    ${ }^{2}$ See Appendix D for an explanation of the Contribution Deficiency/(Excess)

