

Local Governmental Employees' Retirement System Principal Results of Actuarial Valuation as of December 31, 2020

October 28, 2021 Board of Trustees Meeting

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Purpose of the Annual Actuarial Valuation



- > As of the end of each calendar year:
 - An annual actuarial valuation is performed on LGERS
 - The actuary determines the amount of employer contributions to be made to LGERS during each member's career that, when combined with investment return and member contributions, are expected to be sufficient to pay for retirement benefits.
- In addition, the annual actuarial valuation is performed to:
 - Determine the progress on funding LGERS
 - Explore why the results of the current valuation differ from the results of the valuation of the previous year
 - Satisfy regulatory and accounting requirements

The Valuation Process



- The diagram to the right summarizes the inputs and results of the actuarial valuation process.
- A detailed summary of the valuation process and a glossary of actuarial terms are provided in Appendix A of the actuarial report.
- This diagram will appear throughout the presentation to designate where we are in the process.

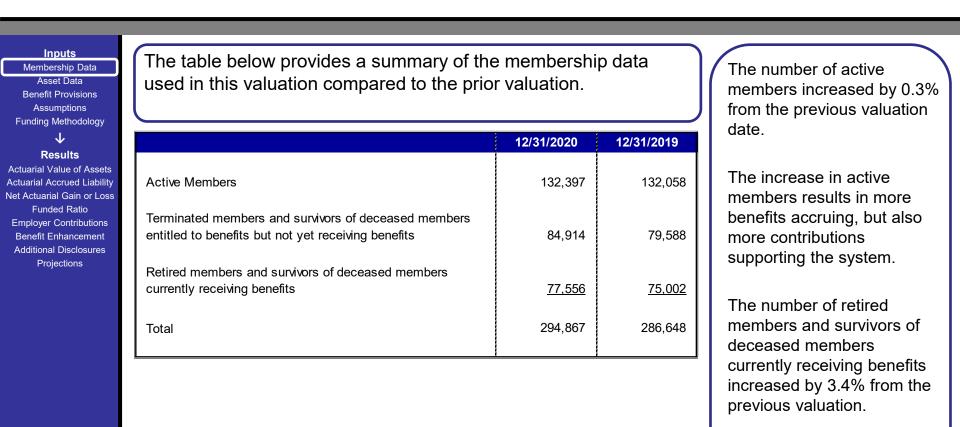
Inputs

Member Data Asset Data Benefit Provisions Assumptions Funding Methodology

₩ Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Benefit Enhancement Additional Disclosures Projections

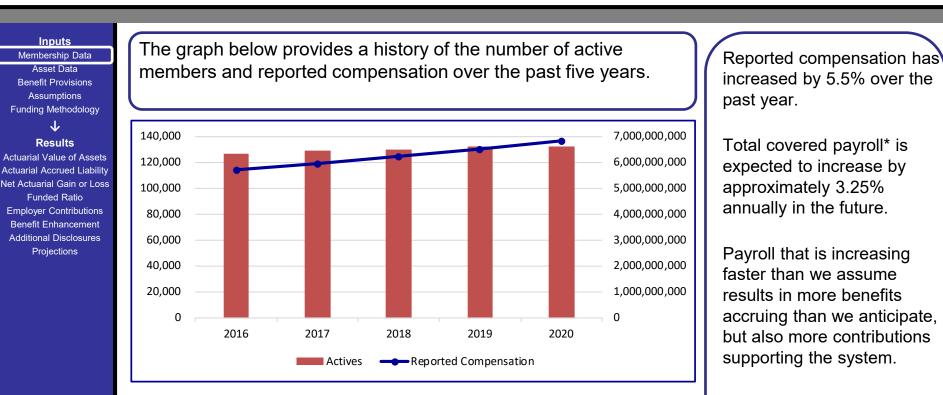
Membership Data



The increase in retiree population is consistent with expectations.

A detailed summary of the membership data used in this valuation is provided in Section 3 and Appendix B.

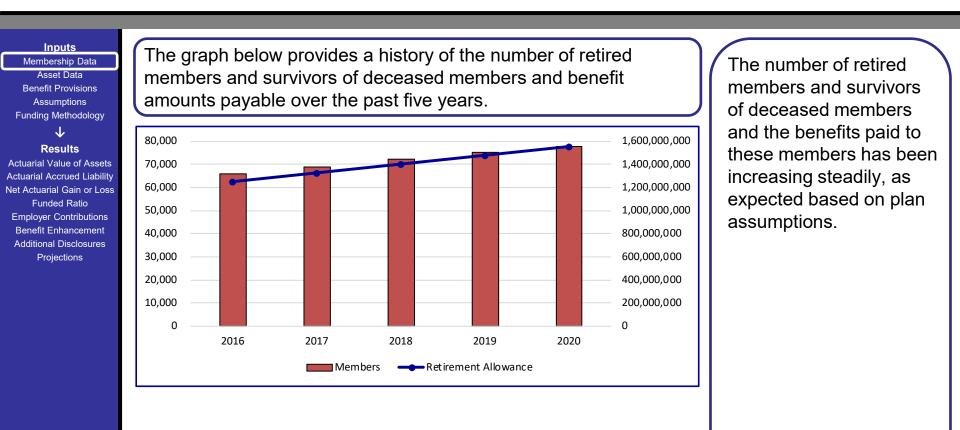
Membership Data



*Total covered payroll is retirement-eligible compensation paid to all members. It does not imply a 3.25% pay increase to all members.

A detailed summary of the membership data used in this valuation is provided in Section 3 and Appendix B.

Membership Data



A detailed summary of the membership data used in this valuation is provided in Section 3 and Appendix B.

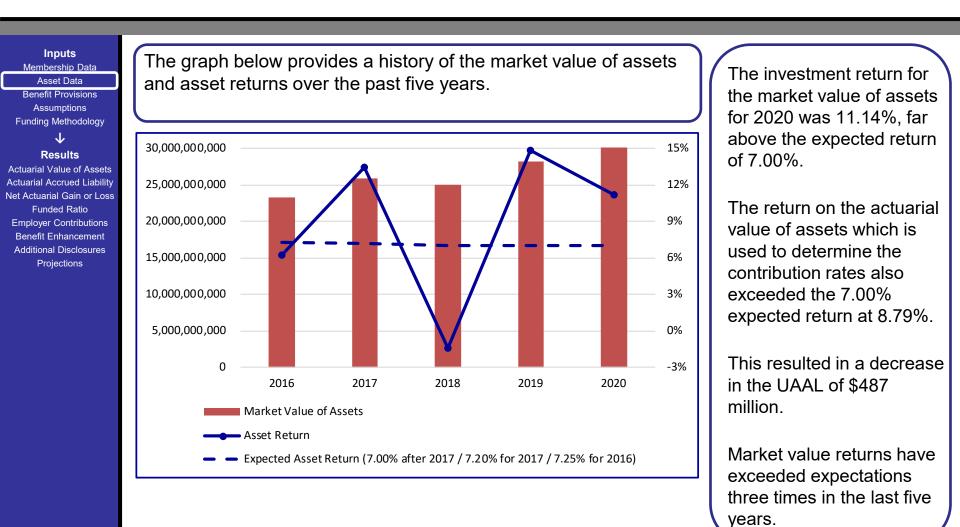
Asset Data



| Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology | The table below provides details of the current and prior year's valuation | r LGERS assets are held in trust and are invested for the exclusive benefit of plan | | |
|---|--|--|---|--|
| ↓ Results Actuarial Value of Assets | Asset Data as of | 12/31/2020 | 12/31/2019 | members. |
| Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections | Beginning of Year Market Value of Assets Employer Contributions Employee Contributions Court Costs Benefit Payments Other Than Refunds | 28,224,698,297 706,191,024 442,996,553 1,988,562 (1,531,981,296) | 25,045,130,611 593,620,018 423,480,874 2,817,521 (1,452,519,505) | Currently, incoming contributions cover more than 70% of the outgoing benefit payments and administrative expenses. |
| | Refunds Administrative Expenses Investment Income Net Increase/(Decrease) End of Year Value of Assets Estimated Net Investment Return | (54,037,982) (5,112,894) 3,120,828,646 2,680,872,613 30,905,570,910 11.14% | (59,643,764) (4,676,875) 3,676,489,417 3,179,567,686 28,224,698,297 14.83% | Over the long term, benefit payments and administrative expenses not paid for by contributions are expected to be covered with investment income, illustrating the benefits of following actuarial pre- funding since inception. |

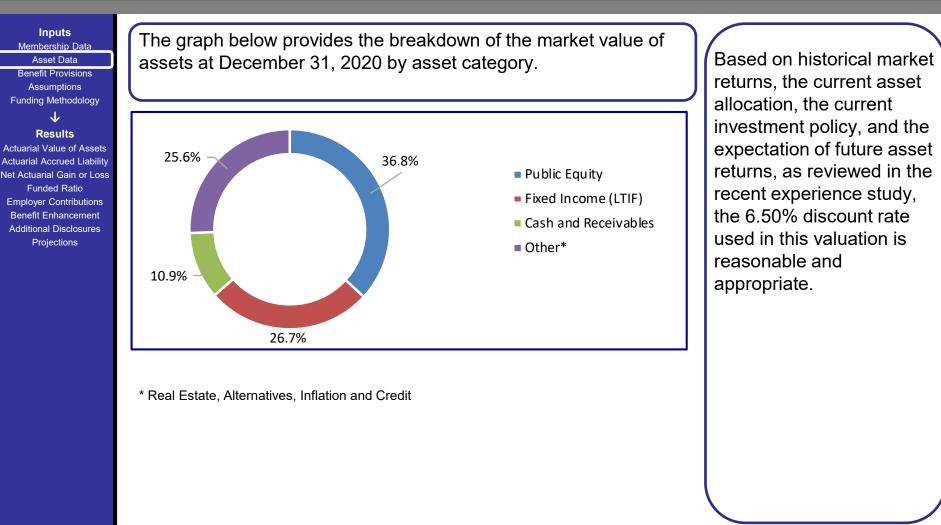
Asset Data





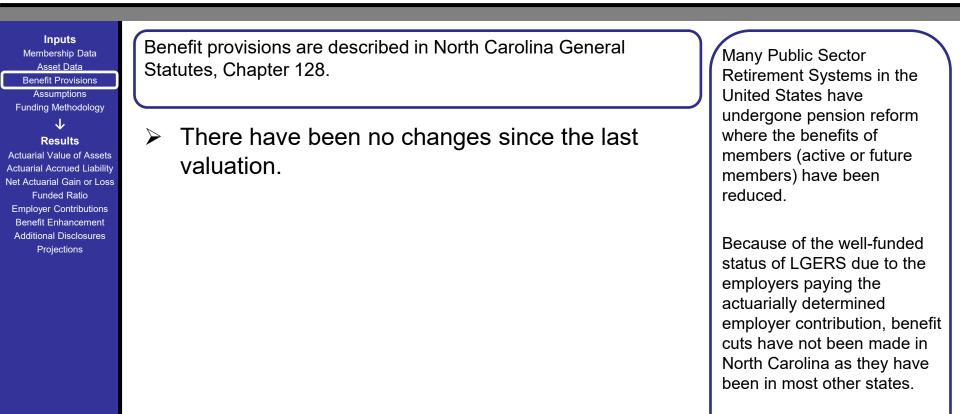
Asset Data





Benefit Provisions

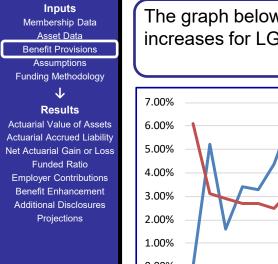




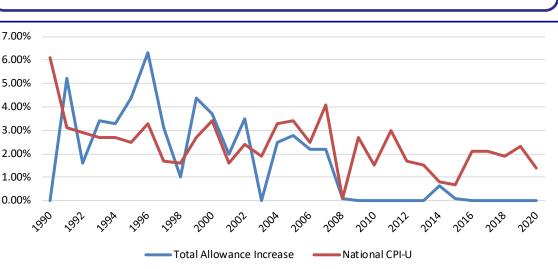
A detailed summary of the benefit provisions is provided in Appendix C.

Benefit Provisions





The graph below provides a 30-year history of allowance increases for LGERS and the national CPI-U.



Prior to 2000, asset returns generally exceeded expectations and allowance increases exceeded the cost of living.

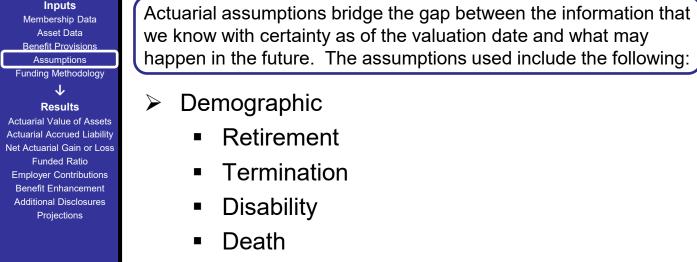
Subsequently, asset returns on average have been lower than expected leading to lower allowance increases.

Graph shows only permanent increases to the retirement allowance and not one-time supplements that have been granted.

A detailed summary of the benefit provisions is provided in Appendix C of the actuarial report.



Actuarial Assumptions



- Economic
 - Interest rate 6.50% per year
 - Salary increase (individual, varies by service)
 - Inflation 2.50%
 - Real wage growth 0.75%

The assumptions used for the December 31, 2020 actuarial valuation are based on the experience study prepared as of December 31, 2019 and adopted by the Board of Trustees on January 28, 2021.

The discount rate was updated to 6.50% and mortality was updated to the Pub-2010 Public Plan mortality tables.

The impact on the contribution rate was direct-rate smoothed over a five-year period.



Funding Methodology

Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

√ Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections The Funding Methodology is the payment plan for LGERS and is composed of the Actuarial Cost Method, the Asset Valuation Method and Amortization Method.

- Actuarial Cost Methods allocate costs to the actuarial accrued liability (i.e. the amount of money that should be in the fund) for past service and normal cost (i.e. the cost of benefits accruing during the year) for current service.
 - The Board of Trustees has adopted Entry Age Normal as its actuarial cost method
 - This method develops normal costs that stay level as a percent of payroll

The following "Objectives and Principles for Funding Public Sector Pension Plans" provides information on funding of Public Plans: <u>https://www.actuary.org/sit</u> <u>es/default/files/files/Public-Plans IB-Funding-</u> Policy 02-18-2014.pdf.

Page 15 of the following https://www.ccactuaries.or g/Portals/0/pdf/CCA_PPC White Paper on Public Pension Funding Policy.p df - denotes Entry Age as a model practice for cost methods.



Funding Methodology

Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

₩ Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections The Funding Methodology is the payment plan for LGERS and is composed of the Actuarial Cost Method, the Asset Valuation Method and Amortization Method.

- Asset Valuation Methods smooth or average the market value returns over time to alleviate contribution volatility that results from market returns.
 - Asset returns in excess of or less than the expected return on market value of assets reflected over a five-year period
 - Assets corridor: not greater than 120% of market value and not less than 80% of market value

Page 20 of the following https://www.ccactuaries.or g/Portals/0/pdf/CCA_PPC White Paper on Public Pension Funding Policy.p df denotes the policy being used is an acceptable policy.

Almost all Public Sector Retirement Systems in the United States use asset valuation methods to alleviate contribution volatility. The use of a four- or five-year period is most common.



Funding Methodology

Inputs Membership Data Asset Data **Benefit Provisions** Funding Methodology $\mathbf{1}$ \geq Results Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss **Funded Ratio Employer Contributions Benefit Enhancement** Additional Disclosures Projections

The Funding Methodology is the payment plan for LGERS and is composed of the Actuarial Cost Method, the Asset Valuation Method and Amortization Method.

- Amortization Methods determine the payment schedule for unfunded actuarial accrued liability (i.e. the difference between the actuarial accrued liability and actuarial value of assets)
 - Payment level: the payment is determined as a level dollar amount, like a mortgage payment
 - Payment period: a 12-year closed amortization period was adopted for fiscal year ending 2018. A new amortization base is created each year based on the prior years' experience.
- For fiscal years beginning after January 1, 2017, the sum of the "normal contribution" and the "accrued liability contribution" shall not be less than the employee contribution.

Page 26 of the following https://www.ccactuaries.org/ Portals/0/pdf/CCA_PPC_Wh ite_Paper_on_Public_Pensi on_Funding_Policy.pdf suggests the Amortization Method is an acceptable practice.

When compared to other Public Sector Retirement Systems in the United States, the Amortization Method results in higher pension debt payments. This is because of:

- A shorter period of 12 years compared to a national average of 24
- Level dollar payments instead of payments designed to increase which is more typical in the Public Sector



Funding Methodology

Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

√ Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections In addition to the ADEC, an unfunded initial prior service liability contribution rate is required for those employers that have not liquidated this liability as of June 30, 2022.

- The unfunded initial prior service liability decreased from \$18.3M to \$15.4M during 2020.
- Using each employer's actual experience during 2020, we have determined that
 - Five (5) employers were granted relief at 7/1/2021
 - Two (2) employers are expected to be granted relief at 7/1/2022 based on this valuation

The unfunded initial prior service liability balance as of December 31, 2020 and the applicable employer contribution rate as of July 1, 2022 is provided in Appendix I for participating employers with remaining initial prior service liability as of December 31, 2020. Appendix I also provides a non-binding estimated date of liquidation of the liability based on this valuation. For employers who joined the System prior to November 1, 2015, the outstanding balance of the unfunded initial prior service liability and the date of liquidation of the liability will be estimated as of June 30 each year.

These estimates must be recalculated annually and adjusted according to each employer's actual experience.

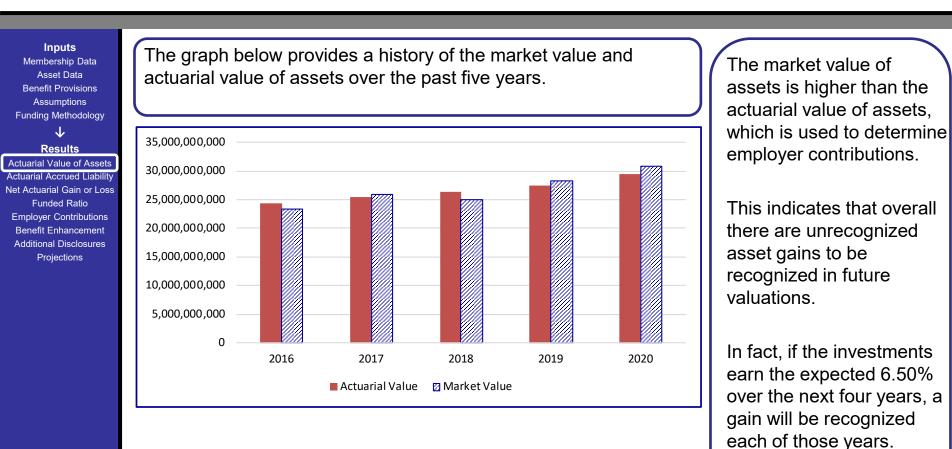


Actuarial Value of Assets

| Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology | The table below provides the calculation of Assets (AVA) at the valuation date. | f the Actuarial Value | The actuarial value of assets smooths investment gains/losses, resulting in less |
|---|--|--|--|
| ↓ Results | Asset Data as of | 12/31/2020 | volatility in the employer contribution. |
| Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures | Beginning of Year Actuarial Value of Assets Beginning of Year Market Value of Assets Total Contributions Benefit Payments, Refunds and Administrative Expenses Net Cash Flow | <pre>\$ 27,435,046,235 28,224,698,297 1,151,176,139 (1,591,132,172) (439,956,033)</pre> | The asset valuation recognizes asset returns in excess of or less than the expected return on the market value of assets |
| Projections | Expected Investment Return Expected End of Year Market Value of Assets End of Year Market Value of Assets Excess of Market Value over Expected Marted Value of Assets 80% of 2020 Asset Gain/(Loss) 60% of 2019 Asset Gain/(Loss) 40% of 2018 Asset Gain/(Loss) 20% of 2017 Asset Gain/(Loss) | 1,960,590,855 29,745,333,119 30,905,570,910 1,160,237,791 928,190,233 1,164,257,027 (863,749,164) <u>289,217,105</u> 1,517,915,201 | over a five-year period. Higher than expected market returns in 2017, 2019 and 2020 resulted in an actuarial value of asset return for calendar year 2020 of 8.79% and a recognized actuarial asset gain of \$487 million |
| | Preliminary End of Year Actuarial Value of Assets Final End of Year Actuarial Value of Asset (not less than 80% and not greater than 120% of Market Value) Estimated Net Investment Return on Actuarial Value | 29,387,655,709 29,387,655,709 8.79% | during 2020. |



Actuarial Value of Assets





Actuarial Value of Assets

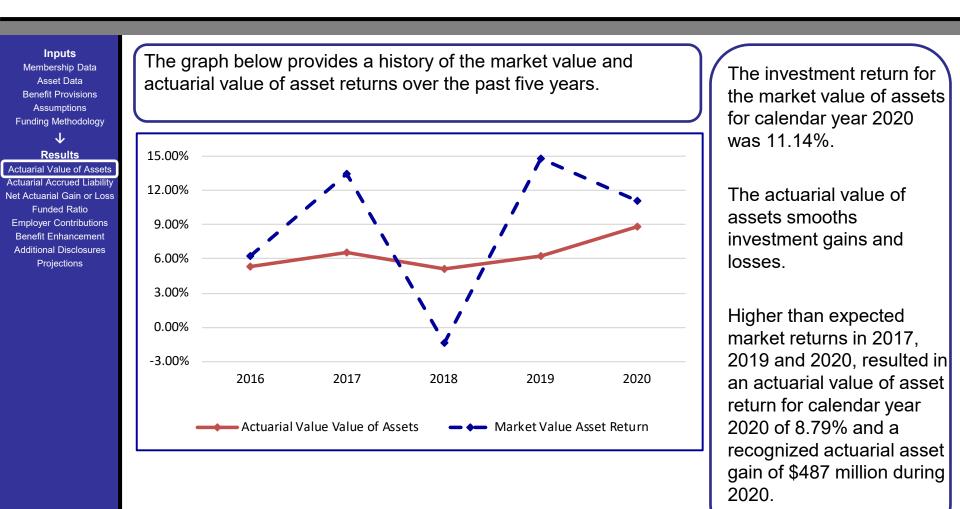
| Inputs | |
|-----------------------------|--|
| Membership Data | |
| Asset Data | |
| Benefit Provisions | |
| Assumptions | |
| Funding Methodology | |
| \checkmark | |
| Results | |
| Actuarial Value of Assets | |
| Actuarial Accrued Liability | |
| Net Actuarial Gain or Loss | |
| Funded Ratio | |
| Employer Contributions | |
| Benefit Enhancement | |
| Additional Disclosures | |
| Projections | |
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| Calendar Year | Expected Asset Return | Actuarial Value of Asset Return | Market Value of Asset Return | 20 Year Average Market Return |
|------------------|-----------------------------|------------------------------------|---------------------------------|----------------------------------|
| 1996 | 7.50% | 10.20% | 9.36% | NA |
| 1997 | 7.25% | 10.19% | 18.10% | NA |
| 1998 | 7.25% | 9.93% | 16.64% | NA |
| 1999 | 7.25% | 15.61% | 9.99% | NA |
| 2000 | 7.25% | 12.27% | 2.65% | NA |
| 2001 | 7.25% | 8.98% | -1.69% | NA |
| 2002 | 7.25% | 6.13% | -4.44% | NA |
| 2003 | 7.25% | 8.52% | 18.63% | NA |
| 2004 | 7.25% | 9.00% | 10.77% | NA |
| 2005 | 7.25% | 8.58% | 7.00% | NA |
| 2006 | 7.25% | 9.19% | 11.41% | NA |
| 2007 | 7.25% | 9.03% | 8.36% | NA |
| 2008 | 7.25% | 2.97% | -19.47% | NA |
| 2009 | 7.25% | 4.92% | 14.94% | NA |
| 2010 | 7.25% | 6.10% | 11.53% | NA |
| 2011 | 7.25% | 5.33% | 2.14% | NA |
| 2012 | 7.25% | 6.51% | 11.79% | NA |
| 2013 | 7.25% | 7.61% | 12.21% | NA |
| 2014 | 7.25% | 7.32% | 6.19% | NA |
| 2015 | 7.25% | 5.87% | 0.34% | NA |
| 2016 | 7.25% | 5.34% | 6.22% | 6.78% |
| 2017 | 7.20% | 6.59% | 13.47% | 6.57% |
| 2018 | 7.00% | 5.13% | -1.41% | 5.67% |
| 2019 | 7.00% | 6.23% | 14.83% | 5.90% |
| 2020 | 7.00% | 8.79% | 11.14% | 6.32% |
| 20-Yr Average | 7.21% | 6.89% | 6.32% | NA |
| Range | 0.25% | 6.22% | 38.10% | NA |

The average investment return recognized for purposes of determining the annual change in contribution each year is the actuarial value of assets return. Currently, the average actuarial return over the past 20 years of 6.89% compares with an average market return of 6.32%. The range of returns is markedly more volatile in the market value of assets at 38.10% versus 6.22% for the actuarial value. This results in much lower employer contribution volatility using the actuarial value of assets versus market, while ensuring that the actuarial needs of LGERS are met.

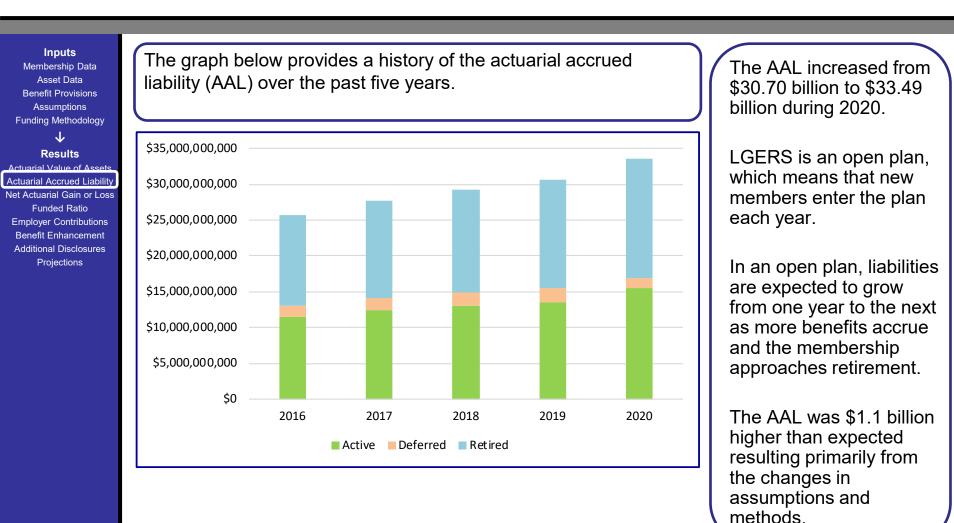


Actuarial Value of Assets





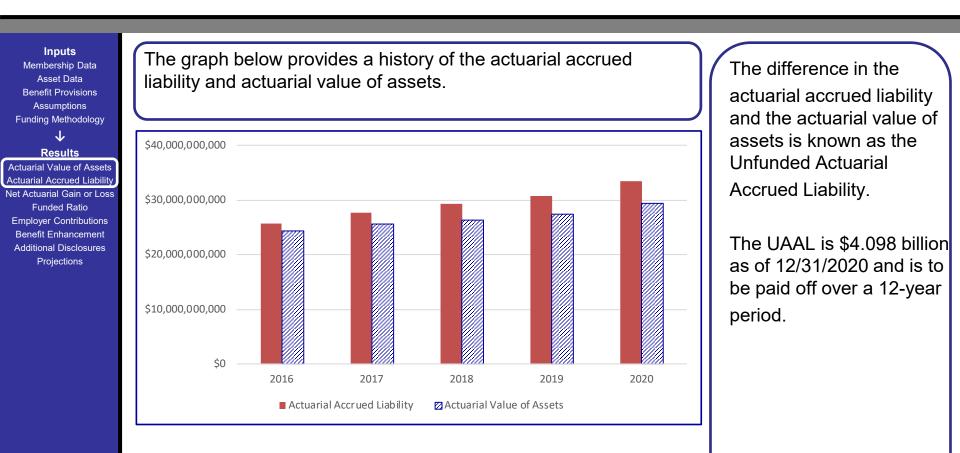
Actuarial Accrued Liability



A detailed summary of the Actuarial Accrued Liability is provided in Section 5.

AVA and AAL





Detailed summaries of the AVA and AAL are provided in Sections 4 and 5 respectively.



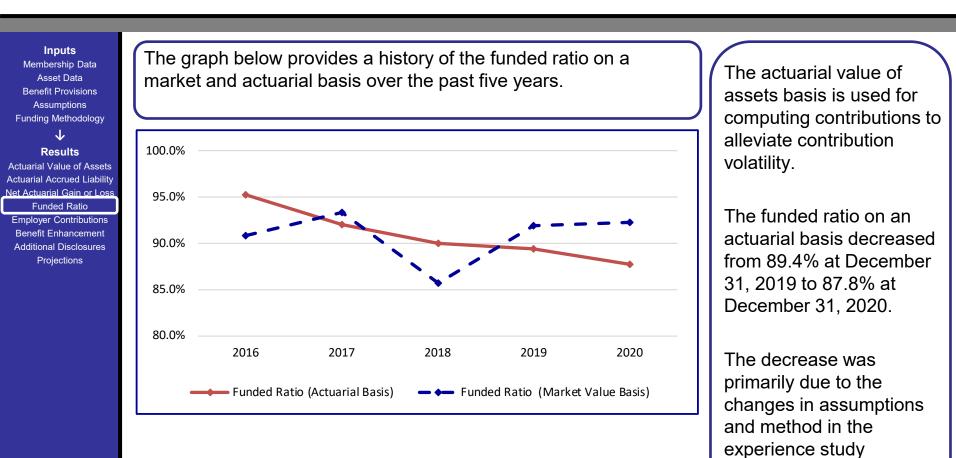
Net Actuarial Gain or Loss

| Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology | The table below provides a reconciliation of the prior unfunded actuarial accrued liability to the current year actuarial accrued liability. | During 2020, the UAAL increased by \$350 million. | |
|--|--|---|--|
| ↓ Results Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections | (in millions) Unfunded Actuarial Accrued Liability (UAAL) as of 12/31/2019 Normal Cost and Administrative Expenses during 2020 Reduction due to Actual Contributions during 2020 Interest on UAAL, Normal Cost, and Contributions Asset (Gain)/Loss Actuarial Accrued Liability (Gain)/Loss Impact of Assumption Changes Impact of Legislative Changes Unfunded Actuarial Accrued Liability (UAAL) as of 12/31/2020 | \$ 3,266 840 (1,127) 219 (487) 250 1,137 - \$ 4,098 | The changes to assumptions and methods in the experience study increased the UAAL by \$1.14 billion. This was offset by the gain recognized in the Actuarial Value of Assets during the |

A detailed summary of the net actuarial gain or loss is provided in Section 5.

Funded Ratio

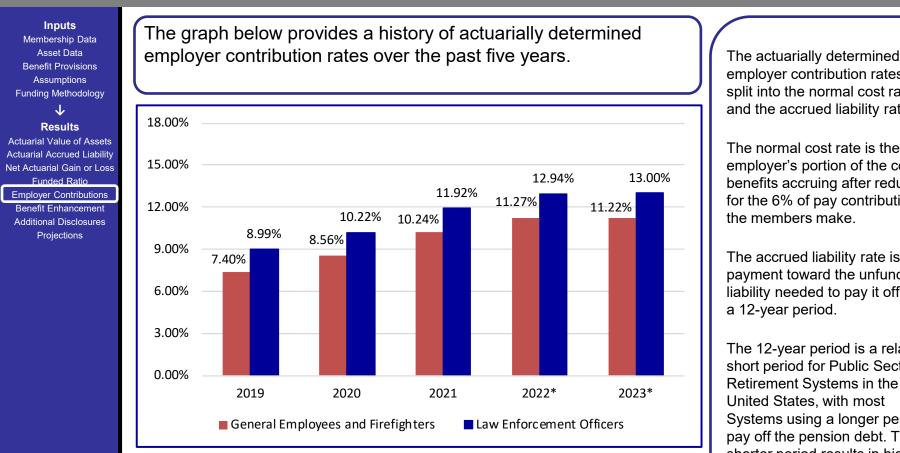




A detailed summary of the funded ratio is provided in Section 5.



Employer Contributions



*Subject to the impact of future legislative changes effective during that fiscal year. Note that the actual contributions under ECRSP are not necessarily equal to the ADEC.

employer contribution rates are split into the normal cost rate and the accrued liability rate.

The normal cost rate is the employer's portion of the cost of benefits accruing after reducing for the 6% of pay contribution

The accrued liability rate is the payment toward the unfunded liability needed to pay it off over

The 12-year period is a relatively short period for Public Sector Retirement Systems in the Systems using a longer period to pay off the pension debt. The shorter period results in higher contributions and more benefit security.

A detailed summary of the actuarially determined employer contribution is provided in Section 6.



Employer Contributions

Inputs

Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions

Benefit Enhancement Additional Disclosures Projections > The ECRSP adopted by the Board of Trustees on April 29, 2021 requires that recommended contributions for general employees be set at 11.35% of payroll for fiscal year ending 2022 and will increase each fiscal year by 0.75% per year, with adjustments for the impact of any benefit or assumption changes that were made and not incorporated in the previous scheduled rate, with the following additional adjustments, if applicable:

- (1) If the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year exceeds the adjusted scheduled employer contribution rate for that fiscal year by more than 1.00% of compensation, an increase equal to 50% of the difference is added to the adjusted scheduled employer contribution rate for the current and future fiscal years
- (2) Beginning July 1, 2024, if the adjusted scheduled employer contribution rate for that fiscal year exceeds the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year by more than 1.00% of compensation, a decrease equal to 50% of the difference is subtracted from the adjusted scheduled employer contribution rate for the current and future fiscal years
 - If the General Assembly grants any additional COLA beyond the amount of COLA granted by the Board, increases the multiplier for active employees, or changes the benefit structure in a way that has a cost to the system, the schedule of contributions for the current and future fiscal years will be increased by the cost of the benefit enhancement. The cost of any COLA granted by the Board under the authority allowed by statute will not impact the scheduled contribution rates.
- Contribution rates for law enforcement officers will be 1.00% higher than contribution rates for general employees for fiscal year 2023. The 1.00% difference will increase by 0.25% each year until fiscal year 2027, when the contribution rates for law enforcement officers will be 2.00% higher than the contribution rates for general employees. The ECRSP would result in a recommended contribution rate of 12.10% of payroll for general employees and firefighters and 13.10% of payroll for law enforcement officers for fiscal year ending 2023.



Employer Contributions

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|----|----|----|---|
| | | | |

Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions

Benefit Enhancement Additional Disclosures Projections The table below provides a history of the actuarially determined employer contribution and the corresponding actual rate for **General Employees and Firefighters**.

| Valuation Date | Rate Effective | Preliminary ADEC | Change due to Legislation* | Final ADEC | Actual Contribution |
|--|----------------------------------|---------------------|----------------------------------|-----------------|------------------------|
| 12/31/2020 | 7/1/2022 | 11.22% | N/A | N/A | N/A |
| 12/31/2019 | 7/1/2021 | 11.27% | N/A | N/A | N/A |
| 12/31/2019 12/31/2018 12/31/2017 | 7/1/2021 7/1/2020 7/1/2019 | 10.24% 8.56% | 0.00% 0.00% | 10.24% 8.56% | 10.15% 8.95% |
| 12/31/2016 | 7/1/2018 | 7.40% | 0.00% | 7.40% | 7.75% |
| 12/31/2015 | 7/1/2017 | 6.25% | 0.00% | 6.25% | 7.50% |

The funding policy contribution rate for fiscal year ending 2023 is 12.10% of payroll. The preliminary ADEC for fiscal year ending 2023 is 11.22% of payroll.

In addition to calculating the ADEC, we calculate the cost of a permanent one-time 1% COLA is equivalent to 0.31% of payroll and each 0.01% increase in benefit rate is equal to 0.37% of payroll.

A detailed summary of the actuarially determined employer contribution rates is provided in Section 6.



Employer Contributions

| Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology | Membership Data Asset Data Benefit ProvisionsThe table below provides a history of the actuarially determined employer contribution and the corresponding actual rate for Law Enforcement Officers. | | | | | | | |
|--|---|--|--|--|--|---|---|--|
| ↓ Results Actuarial Value of Assets Actuarial Accrued Liability | Valuation Date | Rate Effective | Preliminary ADEC | Change due to Legislation* | Final ADEC | Actual Contribution | year ending 2023 is 13.10% of payroll. Th preliminary ADEC for fiscal year ending 202 | |
| Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections | 12/31/2020 12/31/2019 12/31/2018 12/31/2017 12/31/2016 12/31/2015 | 7/1/2022 7/1/2021 7/1/2020 7/1/2019 7/1/2018 7/1/2017 | 13.00% 12.94% 11.92% 10.22% 8.99% 7.84% | N/A N/A 0.00% 0.00% 0.00% 0.00% | N/A N/A 11.92% 10.22% 8.99% 7.84% | N/A N/A 10.90% 9.70% 8.50% 8.25% | In addition to calculat the ADEC, we calculat the cost of a permane one-time 1% COLA is equivalent to 0.31% c | |

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ting ate ent S of payroll and each 0.01% increase in benefit rate is equal to 0.37% of payroll.

A detailed summary of the actuarially determined employer contribution rates is provided in Section 6.



Employer Contributions: ECRSP

| | | General En | nployees and | l Firefighters | Law E | nforcement | Officer |
|-------------------|-------------------|------------|--------------|------------------------|--------|------------|-------------|
| Valuation Date | Rate Effective | ADEC | ECRSP | Excess/ (Shortfall) | ADEC | ECRSP | Exc (Sho |
| | | | | | | | |
| 12/31/2020 | 7/1/2022 | 11.22% | 12.10% | 0.88% | 13.00% | 13.10% | 0.1 |
| 12/31/2019 | 7/1/2021 | 11.27% | 11.35% | 0.08% | 12.94% | 12.10% | -0. |
| 12/31/2018 | 7/1/2020 | 10.24% | 10.15% | -0.09% | 11.92% | 10.90% | -1. |
| 12/31/2017 | 7/1/2019 | 8.56% | 8.95% | 0.39% | 10.22% | 9.70% | -0. |
| 12/31/2016 | 7/1/2018 | 7.40% | 7.75% | 0.35% | 8.99% | 8.50% | -0.4 |
| 12/31/2015 | 7/1/2017 | 6.25% | 7.50% | 1.25% | 7.84% | 8.25% | 0.4 |

The initial ECRSP rates were successful in attaining their objective before two reductions in the investment return assumption and four consecutive years of actuarial value of asset losses. The ECRSP was amended on April 29, 2021.



Employer Contributions

| Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology | The table below provides a reconciliation of the determined employer contribution. | The change in rate due to investment gain is based | | |
|--|--|--|---|--|
| ♦ Results Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio | | General Employees and Firefighters | Law Enforcement Officers | on the actuarial value of assets return of 8.79%, which was greater than the 7.00% assumed return. |
| Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections | Fiscal year ending June 30, 2022 Preliminary ADEC based on December 31, 2019 valuation Impact of Legislative Changes Fiscal year ending June 30, 2022 ADEC for Reconciliation Changes Due to Anticipated Reduction in UAAL* Change Due to Demographic (Gain)/Loss Change Due to Investment (Gain)/Loss Change Due to Investment (Gain)/Loss Change Due to Contributions Less (Greater) than ADEC** Impact of Assumption Changes Impact of Direct Rate Smoothing Current Year Fiscal year ending June 30, 2023 Preliminary ADEC based on December 31, 2020 valuation | 11.27% 0.00% 11.27% -0.27% 0.40% -0.86% 0.08% 3.00% -2.40% 11.22% | 12.94% 0.00% 12.94% -0.27% 0.36% -0.86% 0.08% 3.76% <u>-3.01%</u> 13.00% | The change in rate due to assumption changes is due to the changes in the assumptions and methods in the December 31, 2019 experience study. The impact of direct-rate smoothing is the first year of the five-year deferred recognition of these |

*Amortization of the UAAL is determined as a level dollar amount with payments expected to remain the same over the amortization period but was calculated as a percentage of valuation payroll in the previous valuation. Payroll is expected to increase annually while the expected amortization payment does not increase. This causes the expected amortization payment to be a lesser percentage of the expected payroll.

** Employer contribution rate for Law Enforcement Officers during 2019 was less than the ADEC..

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assumption changes.

Potential COLAs



Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

> ↓ Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Emplover Contributions Benefit Enhancement Additional Disclosures Projections

- Based on the actuarial investment gain recognized in this December 31, 2020 valuation, a Cost-of-Living Adjustment (COLA) that would take effect on July 1, 2022, may be granted by the Board
- Based on the methods and assumptions used for the projections discussed later in the presentation, we estimate that a potential COLA effective July 1, 2023, may be granted by the Board following the December 31, 2021, valuation in the following circumstances:
 - If calendar year 2021 market value return is at least *negative* 2.88% (or about *negative* \$0.88B for LGERS), the plan is estimated to have an actuarial investment gain (rather than a loss) for 2021 and a COLA that would take effect on July 1, 2023, could be considered.
 - If calendar year 2021 market value return is at least 0.10% (or about \$0.03B for LGERS), the plan is estimated to have an actuarial investment gain (rather than a loss) for 2021 and such gain may be enough to provide a 1% COLA that would take effect on July 1, 2023.
 - Estimated actuarial investment gain of \$183.0M
 - Estimated cost of 1% COLA payable to retirees effective July 1, 2023 of \$183.0M

Note: CMC cannot provide legal advice. This slide should not be interpreted as legal advice as to the Board's ability to provide a COLA to retirees or recommend a COLA to the legislature

A detailed summary of the actuarially determined employer contribution rates is provided in Section 6.



Potential COLA Considerations

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| | | | | | |

Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

 Results

 Actuarial Value of Assets

 Actuarial Accrued Liability

 Net Actuarial Gain or Loss

 Funded Ratio

 Employer Contributions

 Benefit Enhancement

 Additional Disclosures

 Projections

- > Note that LGERS Board authority is limited by statute (G.S. 128-27(k)):
 - COLA can not be greater than calendar 2021 inflation
 - COLA can not be greater than 4%
 - COLA must be a permanent one-time-cost-of-living increase (Permanent), not a onetime-cost-of living supplement payment (Supplement)
 - The value of COLA is limited to actuarial investment gain
 - Type of increase

 \geq

- Supplement payable October 2022 Board does not have authority to grant a supplement
- Permanent effective July 1, 2022
- Immediate or 12-year funding
 - Immediate funding recommended for Supplement
 - 12-year funding could be considered for Permanent
 - The contribution increase is added to the ECRSP rate per policy adopted at April 2021 Board meeting

A detailed summary of the cost of benefit enhancements is provided in Section 6.

Valuation Results Potential COLA Considerations Actuarial Investment Gain to "Spend"



Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Emplover Contributions Benefit Enhancement Additional Disclosures Projections The amount of actuarial investment gain for calendar 2020 is \$487,000,000. The maximum amount of Permanent COLA based on this amount is 2.66%, which may be limited by actual CPI for 2021. The increase in ECRSP rate would be 0.82% of pay, payable over 12 years.

| Impact on Employee Contribution Rate Stabilization Policy (ECRSP) Rate of Alternate Permanent One-Time-Cost-of -Living Increases | | | | | | | | |
|---|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--|--|--|--|
| Amount | None | 1.00% | 2.00% | 2.66% | | | | |
| Increase in UAAL | \$- | \$ 183,045,000 | \$ 366,090,000 | \$ 486,899,700 | | | | |
| ECRSP Rate Effective 7/1/2022 General Employees and Firefighters | | | | | | | | |
| Preliminary ECRSP Rate Impact of COLA | 12.10% <u>0.00%</u> | 12.10% <u>0.31%</u> | 12.10% <u>0.62%</u> | 12.10% <u>0.82%</u> | | | | |
| ECRSP after impact of COLA Law Enforcement Officers | 12.10% | 12.41% | 12.72% | 12.92% | | | | |
| Preliminary ECRSP Impact of COLA ECRSP after impact of COLA | 13.10% <u>0.00%</u> 13.10% | 13.10% <u>0.31%</u> 13.41% | 13.10% <u>0.62%</u> 13.72% | 13.10% <u>0.82%</u> 13.92% | | | | |

The cost of a 1% supplement cola is \$16.9 million or 0.22% of pay, payable for one year.

Considerations on the amount to be granted are noted on the next slide.

A detailed summary of the cost of benefit enhancements is provided in Section 6.

Valuation Results Potential COLA Considerations Actuarial Investment Gain to "Spend"



Inputs Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology V Results \geq

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss

Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections While granting a 2.66% COLA is under Board Authority, the Board could consider the following reasons for granting an amount less than the maximum:

Providing COLAs under gain sharing works best when:

- The amount of benefits granted are limited
- The investment return assumption is lower than the expected return adjusted by the expected COLA payouts
- Is the investment gain permanent?
 - Each valuation is expected to generate an actuarial gain or loss on investments
 - Asset-Liability study being performed will measure likelihood of achieving 6.50% over different time horizons (short- vs. long-term)
 - Current gain may be needed to offset future losses to keep contributions from rising more than anticipated
- Potential lower investment return
 - Board may decide to reduce investment return assumption further the next time it is revisited, based on Asset-Liability study or other inputs
 - If so, system's liability increase could significantly exceed actuarial investment gains recognized in current valuation
- > Employer contributions accounted for about 60% of total contributions over the past 5 years

A detailed summary of the cost of benefit enhancements is provided in Section 6.

Additional Disclosures



Inputs The table below illustrates the sensitivity of certain valuation Membership Data Asset Data results to changes in the discount rate on a market value of assets **Benefit Provisions** basis. Assumptions Funding Methodology $\mathbf{1}$ 1.65% 4.08% 6.50% 8.93% 11.35% **Discount Rate** Results Actuarial Value of Assets Actuarial Accrued Liability Market Value of Asssets \$ 30.91 \$ 30.91 \$ 30.91 \$ 30.91 \$ 30.91 Net Actuarial Gain or Loss Funded Ratio Actuarial Accrued Liability \$ 64.61 \$ 45.20 \$ 33.49 \$ 26.01 \$ 21.09 **Employer Contributions Benefit Enhancement** Unfunded Accrued Liability (UAL) \$ 33.70 \$ 14.29 \$ 2.58 \$ (4.90) \$ (9.82)Additional Disclosures Projections Funded Ratio 47.8% 68.4% 92.3% 118.8% 146.6% 20-Year Amortization of UAL \$ 2.02 \$ 1.10 \$ 0.25 N/A N/A (as % of general local revenue) 11.2% 6.1% N/A 1.4% N/A

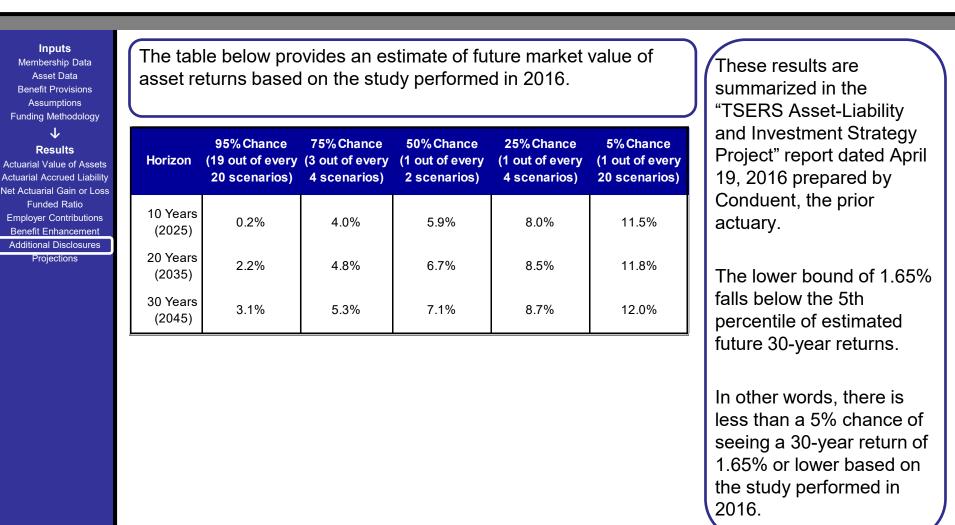
Section 6(c) of Session Law 2016-108 requires that the actuarial valuation report provide the valuation results using a 30-year Treasury rate as of December 31 of the year of the valuation as the discount rate.

The 30-year Treasury rate is 1.65% as of December 31, 2020.

The difference between the UAAL measured at 6.50% and 1.65% is \$31.1 billion at December 31, 2020.

A detailed summary of the additional disclosures is provided in Appendix F.

Additional Disclosures



A detailed summary of the additional disclosures is provided in Appendix F.

 $\mathbf{1}$



Valuation Results

Projections



Inputs

Membership Data Asset Data Benefit Provisions Assumptions Funding Methodology

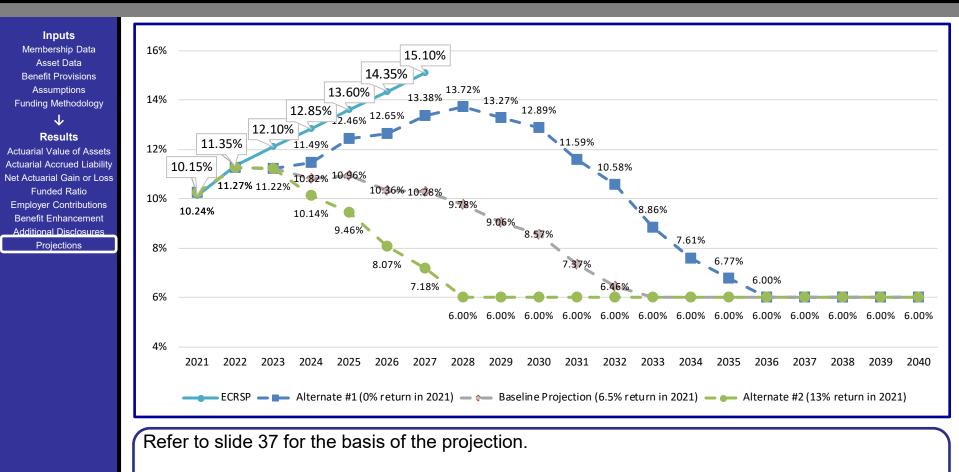
Results

Actuarial Value of Assets Actuarial Accrued Liability Net Actuarial Gain or Loss Funded Ratio Employer Contributions Benefit Enhancement Additional Disclosures Projections

- Projections of actuarially determined employer contribution (ADEC) rates and funded status into the future can be helpful planning tools for stakeholders.
- Projections of the actuarial valuation are known as deterministic projections. Deterministic projections are based on one scenario in the future.
- Baseline deterministic projection is based on:
 - December 31, 2020 valuation results
 - December 31, 2020 valuation assumptions and methods to project future valuation results, including:
 - Valuation interest rate of 6.50% for all years
 - Investment return of 6.50% on market value of assets
 - The contribution rate under the Employer Contribution Rate Stabilization Policy (ECRSP) and Direct Rate Smoothing is contributed until fiscal year ending 2027 not recognizing the decline in scheduled rates that would occur under the ECRSP in FY 2025-2027 if the ADEC is less than the schedule by at least 1% of pay.
 - The ADEC is contributed for fiscal years ending 2028 and beyond.
 - For fiscal years beginning subsequent to January 1, 2017, the sum of the "normal contribution" and the "accrued liability contribution" shall not be less than the employee contribution, which is currently 6%.
 - 0% increase in total active member population
 - No cost-of-living adjustments granted
 - Future pay increases based on long-term salary increase assumptions
 - Two alternate deterministic projections based on the same assumptions as the baseline deterministic projection, except
 - First alternate deterministic projection assumes a 0% asset return for calendar year 2021.
 - Second alternate deterministic projection assumes a 13% asset return for calendar year 2021.

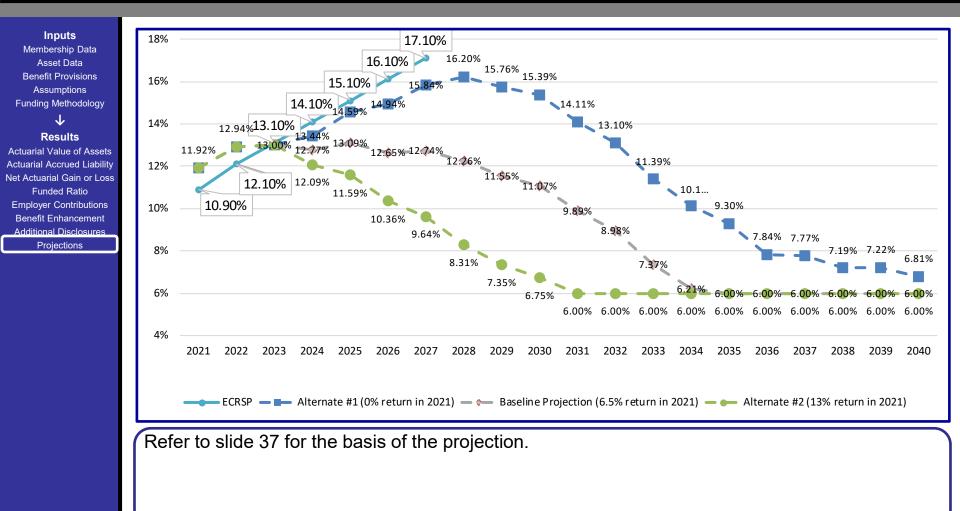
Valuation Results **Projected Contribution Rates – General Employees and Firefighters**





Valuation Results **Projected Contribution Rates – Law Enforcement Officers**

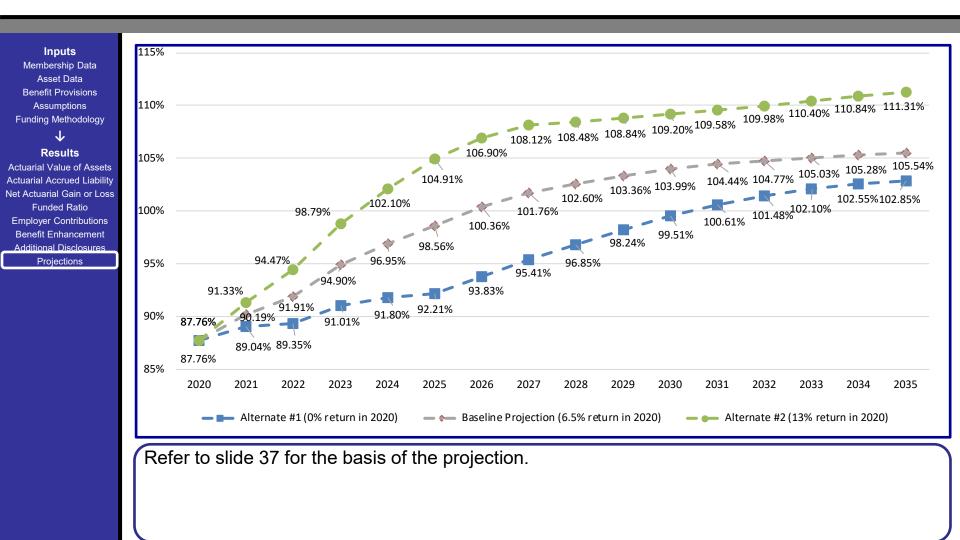




Valuation Results



Projected Funded Ratio



Key Takeaways



- ➢ Market value returns of 11.12% compared to 6.50% assumed
- ➢ Increase in covered payroll of 5.5% compared to 3.5% expected
- First year of five-year direct rate smoothing of changes in assumptions and methods from the experience study.
- Recommended contributions under the Employer Contribution Rate Stabilization Policy (ECRSP) adopted by the Board of Trustees on April 29, 2021. ECRSP rates for FYE 6/30/2023 (assuming no COLA or other benefit or assumption changes):
 - 12.10% of payroll for general employees and firefighters
 - 13.10% of payroll for law enforcement officers

Key Takeaways (continued)



- Higher actuarially determined employer contribution rates for fiscal year ending June 30, 2023
 - 11.22% in the valuation compared to 10.83% in the baseline projection for general employees and firefighters
 - 13.00% in the valuation compared to 12.48% in the baseline projection for law enforcement officers

Key Takeaways (continued)



- The assumptions used for the December 31, 2020 actuarial valuation are based on the experience study prepared as of December 31, 2019 and adopted by the Board of Trustees on January 28, 2021.
- Material assumptions and methods that were changed in the study include:
 - The investment return assumption was lowered from 7.00% to 6.50%
 - The inflation assumption was lowered from 3.00% to 2.50%
 - The real wage growth assumption was increased from 0.50% to 0.75%
 - The payroll growth assumption was lowered from 3.50% to 3.25%
 - The administrative expense assumption was changed from 0.20% of payroll for general employees and firefighters to 0.13% of payroll for general employees and firefighters
 - The withdrawal rates, retirement rates, mortality assumption, annual rate of salary increase assumption, and leave conversion assumptions were changed
 - The marriage assumption was changed from assuming male spouses are four years older than female spouses to assume that male spouses are three years older than female spouses
 - The method for valuing inactive members was changed from 200% of the member's accumulated contributions, to using existing actual data and estimating earnings and average final compensation where actual data isn't available for members with five or more years of service, and using 100% of the member's accumulated contributions for members with less than five years of service

Key Takeaways (continued)





- Stakeholders working together to keep LGERS well-funded since inception
- A history of contributing the recommended contribution requirements
- Assumptions that in aggregate are more conservative than peers
- A funding policy that aggressively pays down unfunded liability over a 12-year period
- An ad hoc cost-of-living adjustment, which typically only provides benefit increases when certain financial conditions are met, supports the health of the system
- Modest changes in benefits when compared to peers
- As has been done over the past 75 + years, continued focus on these measures will be needed to maintain the sustainability of LGERS well into the future

Certification



Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and 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. Because of limited scope, Cavanaugh Macdonald performed no analysis of the potential range of such future differences, except for some limited analysis in financial projections or required disclosure information. Results prior to December 31, 2017 were provided by the prior consulting actuary.

We meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and we are available to answer questions about it.

Larry Langer, ASA, EA, FCA, MAAA Principal and Consulting Actuary Wendy T. Ludbrook, FSA, EA, FCA, MAAA Consulting Actuary



North Carolina Local Governmental Employees' Retirement System

Report on the Actuarial Valuation

Prepared as of December 31, 2020

October 2021



www.CavMacConsulting.com



October 20, 2021

Board of Trustees North Carolina Local Governmental Employees' Retirement System 3200 Atlantic Avenue Raleigh, NC 27604

Members of the Board:

We submit herewith our report on the actuarial valuation of the North Carolina Local Governmental Employees' Retirement System (referred to as "LGERS" or the "Local Plan") prepared as of December 31, 2020. The report has been prepared in accordance with North Carolina General Statute 128-28(p). Information contained in our report for plan years prior to December 31, 2017 is based upon valuations performed by the prior actuary.

The primary purpose of the valuation report is to determine the required member and employer contribution rates, to describe the current financial condition of LGERS, and to analyze changes in such condition. In addition, the report provides information that the Office of the State Controller (OSC) requires for its Comprehensive Annual Financial Report and it summarizes census data. Use of this report for any other purposes or by anyone other than OSC and its auditors, or North Carolina Retirement System Division and Department of State Treasurer staff may not be appropriate and may result in mistaken conclusions because of failure to understand applicable assumptions, methods, or inapplicability of the report for that purpose. The attached pages should not be provided without a copy of this cover letter. Because of the risk of misinterpretation of actuarial results, you should ask Cavanaugh Macdonald Consulting (CMC) to review any statement you wish to make on the results contained in this report. CMC will not accept any liability for any such statement made without prior review.

The valuation is based upon membership data and financial information as furnished by the Retirement Systems Division and the Financial Operations Division and as summarized in this report. Although reviewed for reasonableness and consistency with the prior valuation, these elements have not been audited by CMC and we cannot certify as to the accuracy and completeness of the data supplied. Sometimes assumptions are made by CMC to interpret membership data that is imperfect. The valuation is also based on benefit and contribution provisions as presented in this report. If you have reason to believe that the plan provisions are incorrectly described, that important plan provisions relevant to this valuation are not described, or that conditions have changed since the calculations were made, you should contact the authors of this actuarial report prior to relying on this information.

The valuation is further based on the actuarial valuation assumptions, approved by the Board of Trustees, as presented in this report. We believe that these assumptions are appropriate and reasonable and also comply with the requirements of GASB Statement No. 67. We prepared this valuation in accordance with the requirements of this standard and in accordance with all applicable Actuarial Standards of Practice (ASOP).

3550 Busbee Pkwy, Suite 250, Kennesaw, GA 30144 Phone (678) 388-1700 • Fax (678) 388-1730 www.CavMacConsulting.com Offices in Kennesaw, GA • Bellevue, NE



The assumptions used for the December 31, 2020 actuarial valuation are based on the experience study prepared as of December 31, 2019 and adopted by the Board of Trustees on January 28, 2021. The economic assumptions with respect to investment yield, salary increase and inflation have been based upon a review of the existing portfolio structure as well as recent and anticipated experience.

Where presented, references to "funded ratio" and "unfunded accrued liability" typically are measured on an actuarial value of assets basis. It should be noted that the same measurements using market value of assets would result in different funded ratios and unfunded accrued liabilities. Moreover, the funded ratio presented is appropriate for evaluating the need and level of future contributions but makes no assessment regarding the funded status of the plan if the plan were to settle (i.e. purchase annuities) for a portion or all of its liabilities. In various places in the report the results also show funded ratios and unfunded liabilities based upon varying sets of assumptions as well as market values of assets as that is required for certain disclosure information required per accounting rules or statutes. Where this has been done it has been clearly indicated.

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

Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: fund experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and changes in plan provisions or applicable law. Such changes in law may include additional costs resulting from future legislated benefit improvements or cost-of-living pension increases or supplements, which are not anticipated in the actuarial valuation. Because of limited scope, CMC performed no analysis of the potential range of such future differences, except for some limited analysis in financial projections or required disclosure information.

We meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and we are available to answer questions about it.

Respectfully submitted,

Larry Langer, ASA, EA, FCA, MAAA Principal and Consulting Actuary

Wendy halhoodh

Wendy Ludbrook, FSA, EA, FCA, MAAA Consulting Actuary

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Executive Summary



Overview

The North Carolina Retirement Systems Division (RSD) was established in 1941 to provide retirement benefits for public servants in the State of North Carolina. Today, under the management of the Department of State Treasurer, RSD administers seven public pension plans (defined benefit plans), three supplemental retirement plans (voluntary defined contributions plans), a health trust fund, a disability income plan, death benefit funds and a number of other benefit programs. As of December 31, 2020, the RSD defined benefit plans cover over one million current and prior public servants of the state of North Carolina. During the fiscal year ending June 30, 2021, RSD paid over \$6.7 billion in pensions to more than 330,000 retirees. And as of June 30, 2021, RSD's defined benefit plan assets were valued at over \$120 billion.

Under the supplemental retirement plans, the amount of contributions in any given year is defined by law. The amount of benefits derived is dependent on the investment returns the individual achieves. Conversely, under the pension plans, the amount of the benefit paid to a member upon retirement, termination, death or disability is defined by law. The amount of contributions needed to fund these benefits cannot be known with certainty. In North Carolina, like other states, these contributions are paid during a public servant's career so that upon retirement, termination, death, or disability, there are funds available to pay these benefits. These amounts are determined through an actuarial valuation. Actuarial valuations are performed for each of the pension plans administered by RSD and the results are contained in actuarial valuation reports like this.

The Local Governmental Employees' Retirement System (referred to as "LGERS" or the "Local Plan") was established in 1939 and began accepting participating employers in 1945. LGERS is maintained for the employees of cities, towns, counties, boards, commissions and other entities of local government in North Carolina. LGERS has over \$30 billion in assets and more than 290,000 members. This actuarial valuation report is our annual analysis of the financial health of LGERS. This report, prepared as of December 31, 2020, presents the results of the actuarial valuation of LGERS.

Purpose

An actuarial valuation is performed on LGERS annually as of the end of the calendar year. The actuary determines the amount of contributions to be made to LGERS during each member's career that, when combined with investment return, will be sufficient to pay for retirement benefits.

In addition, the annual actuarial valuation is performed to:

- Determine the actuarially recommended contribution rates for LGERS employers,
- Explore why the results of the current valuation differ from the results of the valuation of the previous year, and
- Satisfy regulatory and accounting requirements.

A detailed summary of the valuation process and a glossary of actuarial terms are provided in Appendix A.



Risk

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

The primary areas of risk in this actuarial valuation are:

- Investment Risk the potential that investment returns will be different than expected. Section 9 of this
 report demonstrates the sensitivity of future projected results to asset returns deviating from expected
 returns.
- Longevity and Other Demographic Risks the potential that mortality or other demographic experience will be different than expected.
- Interest Rate Risk To the extent market rates of interest affect the expected return on assets, there is
 a risk of change to the discount rate which determines the present value of liabilities and actuarial
 valuation results. Table F-1 of this report demonstrates the sensitivity of valuation results to differing
 discount rates.
- Contribution Risk The potential that actual contributions are different than the actuarially determined contributions.

Annual actuarial valuations are performed for RSD which re-measure the assets and liabilities and compute a new actuarially determined contribution. RSD also has experience studies performed every five years to analyze the discrepancies between actuarial assumptions and actual experience and determine if the actuarial assumptions need to be changed. Annual actuarial valuations and periodic experience studies are practical ways to monitor and reassess risk.





Key Takeaways

The actuarial valuation is performed each year to replace the estimates the actuary assumed for the prior valuation with the actual events that happened. This past year, as expected, some of the assumptions used in the prior valuation were not realized. Key results of the December 31, 2020 valuation as compared to the December 31, 2019 valuation were:

- Changes in actuarial assumptions and methods, including a decrease in the discount rate from 7.00% to 6.50%, in accordance with the latest experience study prepared as of December 31, 2019, and adopted by the Board of Trustees on January 28, 2021
- Direct-rate smoothing of the change in the employer contribution rate due to the changes in assumptions and methods over a 5-year period
- Market value returns of 11.14% during calendar year 2020 compared to 7.00% assumed
- Updated Employer Contribution Rate Stabilization Rate Policy (ECRSP) adopted April 29, 2021

When compared to the December 31, 2019 projections, the above resulted in:

- A lower funded ratio as of December 31, 2020 (87.8% in the valuation compared to 90.7% in the baseline projection)
- Higher-actuarially determined employer contribution rates for fiscal year ending June 30, 2023
 - 11.22% in the valuation compared to 10.83% in the baseline projection for general employees and firefighters
 - 13.00% in the valuation compared to 12.48% in the baseline projection for law enforcement officers
- Actuarially determined employer contribution rates are less than ECRSP rates for general employees and firefighters, and are less than ECRSP rates for law enforcement officers
 - General Employees/Firefighter ECRSP of 12.10% vs. ADEC of 11.22%
 - Law Enforcement Officer ECRSP of 13.10% vs. ADEC of 13.00%

LGERS is well funded compared to its peers. This is due to:

- Stakeholders working together to keep LGERS well-funded since inception
- A history of contributing the recommended contribution requirements
- Assumptions that in aggregate are more conservative than peers
- A funding policy that aggressively adjusts contribution rates to pay down unfunded liability
- An ad hoc cost-of-living adjustment, which typically only provides benefit increases when certain financial conditions are met, that supports the health of the system
- Modest changes in benefits when compared to peers

Continued focus on these measures will be needed to maintain the solid status of LGERS well into the future.

More details can be found later in this report. We encourage readers to start with Sections 1 and 2 and refer to other sections for additional details as needed.



Section 1: Principal Results

This report, prepared as of December 31, 2020, presents the results of the annual valuation of the system. The principal results of the valuation and a comparison with the preceding year's results are summarized below.

Table 1: Summary of Principal Results

| Valuation Results as of | 12/31/2020 | 12/31/2019 |
|---|-------------------|-------------------|
| Active Members | | |
| Number | 132,397 | 132,058 |
| Reported Compensation | \$ 6,846,115,903 | \$ 6,488,881,575 |
| Valuation Compensation* | \$ 7,409,219,872 | \$ 7,065,888,027 |
| Retired Members and Survivors of Deceased Members Currently Receiving Benefits | | |
| Number | 77,556 | 75,002 |
| Annual Allowances | \$ 1,553,600,690 | \$ 1,479,483,328 |
| Number of Participating Employers | 891** | 892 |
| Assets | | |
| Actuarial Value (AVA) | \$ 29,387,655,709 | \$ 27,435,046,235 |
| Market Value (MVA) | \$ 30,905,570,910 | \$ 28,224,698,297 |
| Actuarial Accrued Liability (AAL) | \$ 33,485,232,590 | \$ 30,700,921,303 |
| Unfunded Accrued Liability (AAL – AVA) | \$ 4,097,576,881 | \$ 3,265,875,068 |
| Funded Ratio (AVA / AAL)** | 87.8% | 89.4% |
| Unfunded Initial Prior Service Liability | \$ 15,421,007 | \$ 18,263,651 |

* Reported compensation annualized for new hires and projected for valuation purposes.

**The number of participating employers shown in Appendices H and J include three additional employers joining after the valuation date.

***The Funded Ratio on a Market Value of Assets basis is 92.3% at December 31, 2020.



Section 1: Principal Results

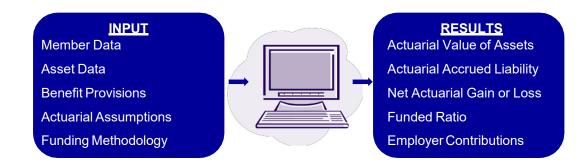
This report, prepared as of December 31, 2020, presents the results of the annual valuation of the system. The principal results of the valuation and a comparison with the preceding year's results are continued below.

Table 1: Summary of Principal Results (continued)

| Valuation Results as of | 12/31/2020 | 12/31/2019 |
|---|---|---|
| Results for Fiscal Year Ending | 6/30/2023 | 6/30/2022 |
| Actuarially Determined Employer Contribution (ADEC), as a percentage of payroll General Employees and Firefighters Normal Cost Accrued Liability Total Preliminary ADEC Total Based on Direct Rate Smoothing Impact of Legislative Changes Final ADEC | 6.52% <u>7.10%</u> 13.62% 11.22% <u>N/A</u> 11.22% | 5.44% <u>5.83%</u> 11.27% 11.27% <u>N/A</u> 11.27% |
| Law Enforcement Officers Normal Cost Accrued Liability Total Preliminary ADEC Total Based on Direct Rate Smoothing Impact of Legislative Changes Final ADEC | 8.91% <u>7.10%</u> 16.01% 13.00% <u>N/A</u> N/A | 7.11% <u>5.83%</u> 12.94% 12.94% <u>N/A</u> N/A |
| Board Approved Contribution under the Employer Contribution Rate Stabilization Policy (ECRSP) General Employees and Firefighters Law Enforcement Officers | 12.10% 13.10% | 11.35% 12.10% |
| Current Funding in Effect at | 7/1/2021 | 7/1/2020 |
| Employer Contribution Rate as a percentage of payroll General Employees and Firefighters | 11.35% | 10.15% |
| Law Enforcement Officers | 12.10% | 10.90% |



The following diagram summarizes the inputs and results of the actuarial valuation process.



A more detailed description of the valuation process is provided in Appendix A.

Valuation Input: Membership Data

As with any estimate, the actuary collects information that we know now. Under the actuarial valuation process, current information about LGERS members is collected annually by the Retirement Systems Division staff at the direction of the actuary. Membership data will assist the actuary in estimating benefits that could be paid in the future. Information about benefit provisions and assets held in the trust as of the valuation date is also collected.

The member information the actuary collects includes data elements such as current service, salary and benefit group identifier for members that have not separated service, and actual benefit amounts and form of payment for members that have separated service. Data elements such as gender and date of birth are used to determine when a benefit might be paid and for how long.



Valuation Input: Membership Data (continued)

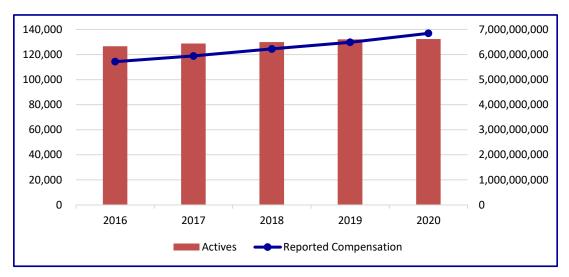
The table below provides a summary of the membership data used in this valuation compared to the prior valuation.

| Number as of | 12/31/2020 | 12/31/2019 |
|---|---------------|---------------|
| Active Members | 132,397 | 132,058 |
| Terminated members and survivors of deceased members Entitled to benefits but not yet receiving benefits | 84,914 | 79,588 |
| Retired members and survivors of deceased members currently receiving benefits | <u>77,556</u> | <u>75,002</u> |
| Total | 294,867 | 286,648 |

Commentary: The number of active members increased by 0.3% from the previous valuation date. The increase in the active population results in more benefits accruing, but also more contributions supporting the system. The number of retired members and survivors of deceased members currently receiving benefits increased by 3.4% from the previous valuation date. The increase in retiree population is consistent with expectations.

Graph 1: Active Members

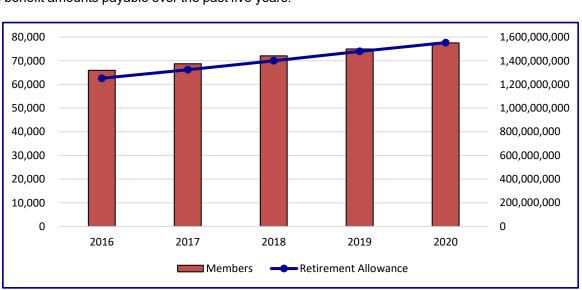
The graph below provides a history of the number of active members and reported compensation over the past five years.



Commentary: Reported compensation has increased by 5.5% over the last year. Covered payroll was expected to increase annually by 3.50% for valuations prior to December 31, 2020 and 3.25% annually beginning with the December 31, 2020 valuation. Payroll that is increasing faster than we assume results in more benefits accruing than we anticipate, but also more contributions supporting the system.



Valuation Input: Membership Data (continued)



Graph 2: Retired Members and Survivors of Deceased Members

The graph below provides a history of the number of retired members and survivors of deceased members and benefit amounts payable over the past five years.

Commentary: The number of retired members and survivors of deceased members and the benefits paid to these members has been increasing steadily, as expected based on plan assumptions.

A detailed summary of the membership data used in this valuation is provided in Section 3 and Appendix B of this report.

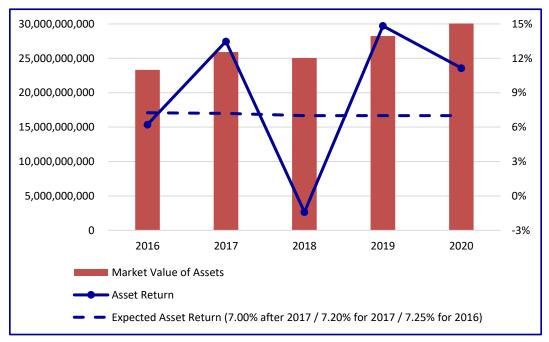


Valuation Input: Asset Data

LGERS assets are held in trust and are invested for the exclusive benefit of plan members. The Market Value of Assets is \$30.9 billion as of December 31, 2020 and \$28.2 billion as of December 31, 2019. The investment return for the market value of assets for calendar year 2020 was 11.14%.

Graph 3: Market Value of Assets and Asset Returns

The graph below provides a history of the market value of assets and asset returns over the past five years.



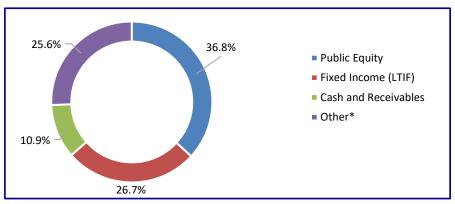
Commentary: Market value returns during 2020 were much greater than the 7.0% assumed rate of return. However, required contributions are higher and the funded ratio is lower than anticipated in the December 31, 2019 baseline projections presented in the December 31, 2019 actuarial report, due to the impact of the changes in assumptions and methods from the experience study.



Valuation Input: Asset Data (continued)

Graph 4: Allocation of Investments by Category

The graph below provides the breakdown of the market value of assets at December 31, 2020 by asset category.



* Real Estate, Alternatives, Inflation and Credit

Commentary: Based on historical market returns, the current asset allocation, the current investment policy, and the expectation of future asset returns, as reviewed in the recent experience study, the 6.50% discount rate used in this valuation is reasonable and appropriate.

A detailed summary of the market value of assets is provided in Section 4 of this report.



Valuation Input: Benefit Provisions

Benefit provisions are described in North Carolina General Statutes, Chapter 128.

Highlights of the benefit provisions are described below.

- An unreduced retirement allowance is payable to non-law enforcement members who retire from service:
 - after attaining age 65 and five years of creditable service;
 - after attaining age 60 and 25 years of creditable service; or
 - after attaining 30 years of creditable service
- An unreduced retirement allowance is payable to law enforcement members who retire from service:
 - after attaining age 55 and five years of creditable service; or
 - after attaining 30 years of creditable service
- The unreduced retirement allowance is equal to 1.85% of a member's average final compensation multiplied by the number of years of creditable service. Average final compensation is based on the four highest consecutive years of service.
- A reduced retirement allowance is payable to non-law enforcement members who retire from service:
 - after attaining age 60 and five years of creditable service; or
 - after attaining age 50 and 20 years of creditable service
- A reduced retirement allowance is payable to firefighters and rescue squad workers who retire from service after attaining age 55 and five years of creditable service.
- A reduced retirement allowance is payable to law enforcement members who retire from service after attaining age 50 and 15 years of creditable service or after attaining 25 years (15 as an officer) of creditable service.
- Benefits are also payable upon the death or disability of a member.
- LGERS does not provide for automatic cost of living increases as part of the benefit package. Instead, increases may be provided if certain financial conditions are met. More details on cost-of-living increases are provided in Graph 5.

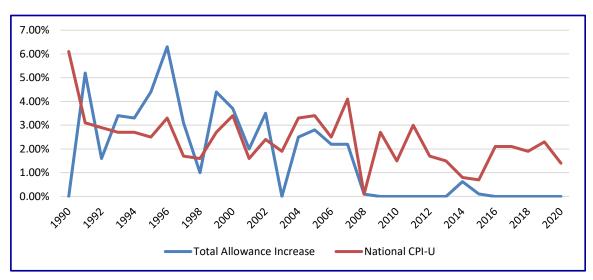
Commentary: Many Public Sector Retirement Systems in the United States have undergone pension reform where the benefits of members (active or future members) have been reduced. Because of the well-funded status of LGERS, benefit cuts have not been made in North Carolina as they have been in most other states. However, if North Carolina's investment policy shifts substantively or if the system incurs other unfavorable investment, economic, or demographic experience, the system should review likely impacts of the shift and consider corresponding changes to actuarial assumptions, funding policy and/or benefit levels.



Valuation Input: Benefit Provisions (continued)

As noted previously, cost-of-living increases are periodically considered by the Board of Trustees to the extent that certain financial conditions are met. Specifically, benefit allowance increases are generally considered when the trust experiences sufficient investment gains to cover the additional actuarial accrued liabilities created by providing the cost-of-living adjustment (generally, limited to the lesser of the CPI increase year-over-year or 4%). In addition to employers consistently contributing the actuary's recommended contribution, this benefit increase policy has helped keep costs manageable when compared to other public sector retirement systems in the United States. That being said, post-retirement increases help to reduce the risk that the benefit will be eroded by inflation.

The graph below provides a 30-year history of the allowance increases for LGERS and the national CPI-U.



Graph 5: Cost-of-Living Increase and CPI-U History

* Allowance increases are effective at July 1 the following year

Commentary: Prior to 2000, asset returns generally exceeded expectations and allowance increases exceeded the cost of living. Subsequently, asset returns on average have been lower than expected leading to lower allowance increases. Graph shows only permanent increases to the retirement allowance and not one-time supplements that have been granted.

A detailed summary of the benefit provisions is provided in Appendix C of this report.

Valuation Input: Actuarial Assumptions

Actuarial assumptions bridge the gap between the information that we know with certainty as of the valuation date (age, gender, service, pay, and benefits of the members) and what may happen in the future. The actuarial assumptions of LGERS are reviewed at least every five years. Based on this review, the actuary will make recommendations on the demographic and economic assumptions.

Demographic assumptions describe future events that relate to people such as retirement rates, termination rates, disability rates, and mortality rates. Economic assumptions describe future events that relate to the assets of LGERS such as the interest rate, salary increases, the real return, and payroll growth.



The assumptions used for the December 31, 2020 actuarial valuation are based on the experience study prepared as of December 31, 2019 and adopted by the Board of Trustees on January 28, 2021. Material assumptions and methods that were changed since the prior valuation include:

- The investment return assumption was lowered from 7.00% to 6.50%
- The inflation assumption was lowered from 3.00% to 2.50%
- The real wage growth assumption was increased from 0.50% to 0.75%
- The payroll growth assumption was lowered from 3.50% to 3.25%
- The administrative expense assumption was changed from 0.20% of payroll for general employees and firefighters to 0.13% of payroll for general employees and firefighters
- The withdrawal rates, retirement rates, mortality assumption, annual rate of salary increase assumption and leave conversion assumptions were changed
- The marriage assumption was changed from assuming male spouses are four years older than female spouses to assume that male spouses are three years older than female spouses
- The method for valuing inactive members was changed from 200% of the member's accumulated contributions, to using existing actual data and estimating earnings and average final compensation where actual data isn't available for members with five or more years of service, and using 100% of the member's accumulated contributions for members with less than five years of service



Valuation Input: Funding Methodology

The Funding Methodology is the payment plan for LGERS and is composed of the following three components:

- Actuarial Cost Methods allocate costs to the actuarial accrued liability (i.e. the amount of money that should be in the LGERS fund) for past service and normal cost (i.e. the cost of benefits accruing during the year) for current service.
 - The Board of Trustees has adopted Entry Age Normal as its actuarial cost method
 - Develops normal costs that stay level as a percent of payroll
- Asset Valuation Methods smooth or average the market value returns over time to alleviate contribution volatility that results from market returns. The Board of Trustees has adopted the following:
 - Asset returns in excess of or less than the expected return on market value of assets reflected over a five-year period
 - Assets corridor: not greater than 120% of market value and not less than 80% of market value
- Amortization Methods determine the payment schedule for unfunded actuarial accrued liability (i.e. the difference between the actuarial accrued liability and actuarial value of assets)
 - Payment level: the payment is determined as a level dollar amount, similar to a mortgage payment
 - Payment period: a 12-year closed amortization period was adopted for fiscal year ending 2018.
 A new amortization base is created each year based on the prior year experience

These elements form the traditional components of the actuarially determined employer contribution. In the addition to the policies above there are also Direct-Rate Smoothing and ECRSP policies which are used in the determination of the final employer contribution rate. The Direct-Rate Smoothing and ECRSP are discussed in more length in Section 6.

The valuation reflects the change in methodology for determining liquidation of unfunded initial prior service accrued liability, approved by the Board of Trustees in January 2012. The outstanding balance of the unfunded initial prior service accrued liability and the date of liquidation of accrued liability will be estimated as of June 30 each year. These estimates must be recalculated annually and adjusted according to each employer's actual experience.

- Five (5) employers were granted relief at 7/1/2020
- Seven (7) employers are expected to be granted relief at 7/1/2021 based on this valuation

Commentary: When compared to other Public Sector Retirement Systems in the United States, the funding policy for LGERS is quite aggressive in that the policy pays down the unfunded actuarial accrued liability over a much shorter period of time (12 years) compared to most other Public Sector Retirement Systems. As such it is a best practice in the industry.

A detailed summary of the actuarial assumptions and methods is provided in Appendix D of this report.

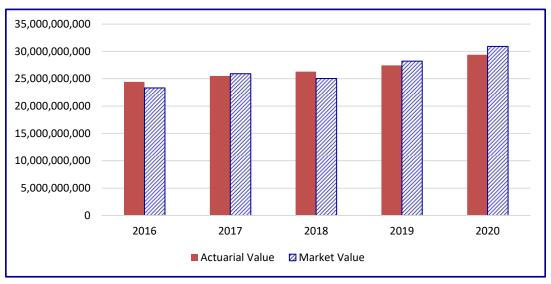


Valuation Results: Actuarial Value of Assets

In order to reduce the volatility that investment gains and losses can have on required contributions and funded status of LGERS, the Board adopted an asset valuation method to determine the Actuarial Value of Assets used for funding purposes. The Actuarial Value of Assets is \$29.4 billion as of December 31, 2020 and \$27.4 billion as of December 31, 2019.

Graph 6: Actuarial Value and Market Value of Assets

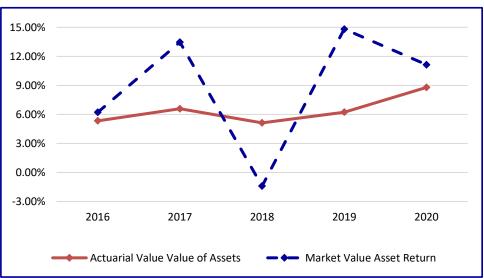
The graph below provides a history of the market value and actuarial value of assets over the past five years.



Commentary: The market value of assets is greater than the actuarial value of assets, which is used to determine employer contributions. This indicates that overall there are unrecognized asset gains to be recognized in future valuations.



Valuation Results: Actuarial Value of Assets (continued)



Graph 7: Asset Returns

The graph below provides a history of the market value and actuarial value of asset returns over the past five years.

Commentary: The investment return for the market value of assets for calendar year 2020 was 11.14%. The actuarial value of assets smooths investment gains and losses. Higher than expected market returns, in 2017, 2019 and 2020, resulted in an actuarial value of asset return for calendar year 2020 of 8.79% and a recognized actuarial asset gain of \$487 million during 2020.

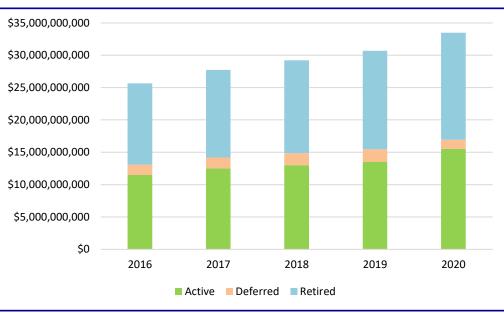
A detailed summary of the Actuarial Value of Assets is provided in Section 4 of this report.



Valuation Results: Actuarial Accrued Liability

Using the provided membership data, benefit provisions, and actuarial assumptions, the future benefit payments of LGERS are estimated. These projected future benefit payments are discounted into today's dollars using the assumed rate of investment return assumption to determine the Present Value of Future Benefits (PVFB) of LGERS. The PVFB is an estimate of the current value of the benefits promised to all members as of a valuation date.

Once the PVFB is developed, an actuarial cost method is used to allocate the PVFB. Under the actuarial cost method, the PVFB is allocated to past, current and future service, respectively known as the actuarial accrued liability (AAL), normal cost (NC) and present value of future normal costs (PVFNC). The AAL is also referred to as the amount of money LGERS should ideally have in the trust. The NC is also referred to as the cost of benefits accruing during the year.



Graph 8: Actuarial Accrued Liability

The graph below provides a history of the actuarial accrued liability over the past five years.

Commentary: The AAL increased from \$30.701 billion to \$33.485 billion during 2020. LGERS is an open plan, which means that new members enter the plan each year. In an open plan, liabilities are expected to grow from one year to the next as more benefits accrue and the membership approaches retirement. The AAL was \$1.387 billion higher than expected, resulting primarily from changes in assumptions and methods.

A detailed summary of the AAL is provided in Section 5 of this report.



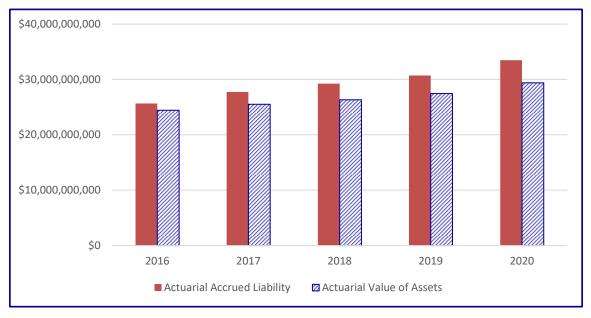
Valuation Results: Funded Ratio

The funded ratio is a measure of the progress that has been made in funding the plan as of the valuation date. It is the ratio of how much money LGERS actually has in the fund to the amount LGERS should have in the fund.

The actuarial cost method was changed to the entry age normal cost method from a frozen entry age cost method as of the December 31, 2015 valuation. Separate initial unfunded prior service cost accrued liabilities are maintained for employers who joined the system prior to November 1, 2015. Under the frozen entry age cost method, the funding target is the present value of future benefits, which includes the cost of service for past, current and future service. Under the entry age normal cost method, the funding target is the actuarial accrued liability, which includes the cost of service for only past service.

Graph 9: Actuarial Accrued Liability and Actuarial Value of Assets

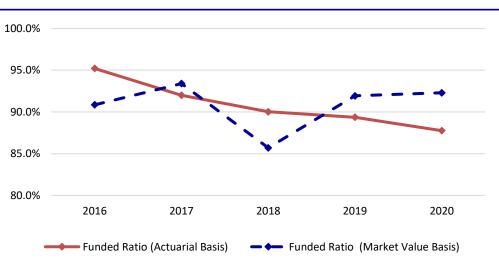
The graph below provides a history of the actuarial accrued liability compared to the actuarial value of assets over the past five years.



Commentary: The actuarial value of assets basis is used for computing contributions to alleviate contribution volatility. The difference in the actuarial accrued liability and the actuarial value of assets is the amount of unfunded actuarial accrued liability to be paid off over a 12-year period.



Valuation Results: Funded Ratio (continued)



Graph 10: Funded Ratios

The graph below provides a history of the funded ratio on a market and actuarial basis over the past five years.

Commentary: The actuarial value of assets basis is used for computing contributions to alleviate contribution volatility. The funded ratio on an actuarial basis decreased from 89.4% at December 31, 2019 to 87.8% at December 31, 2020.



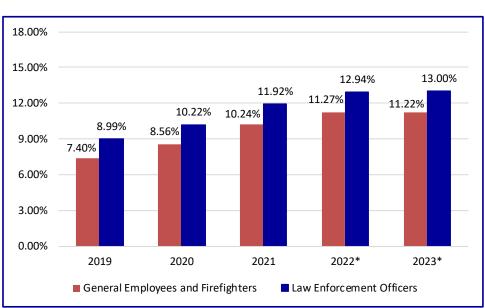
Valuation Results: Employer Contributions

The North Carolina General Statutes provide that the contributions of employers shall consist of a normal contribution and an accrued liability contribution. An additional initial accrued liability contribution rate is to be set for each employer on the basis of the prior service credits allowable to the employees thereof, and is determined on the basis of separate initial valuations for each employer.

The December 31, 2019 valuation resulted in a preliminary actuarially determined employer contribution rate of 11.27% of payroll for general employees and firefighters and 12.94% of payroll for law enforcement officers at July 1, 2021. Based on the Employer Contribution Rate Stabilization Policy (ECRSP) adopted by the Board of Trustees on January 31, 2019, the Board set contributions at 11.35% of payroll for general employees and firefighters and 12.10% of payroll for law enforcement officers at July 1, 2021. As a result of the December 31, 2020 valuation, the preliminary actuarial determined employer contribution rate is 11.22% of payroll for general employees and firefighters and 13.00% of payroll for law enforcement officers. The Board of Trustees adopted a new (ECRSP) on April 29, 2021. Based on the revised ESRSP, the preliminary ECRSP contribution rate should be set at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters and 13.00% of payroll for law enforcement officers. The Board of Trustees adopted a new (ECRSP) on April 29, 2021. Based on the revised ESRSP, the preliminary ECRSP contribution rate should be set at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters at 12.10% of payroll for general employees and firefighters and 13.10% of payroll for law enforcement officers at July 1, 2022.



Valuation Results: Employer Contributions (continued)



Graph 11: Actuarially Determined Employer Contribution Rates

The graph below provides a history of actuarially determined employer contribution rates over the past five years.

* Subject to the impact of future legislative changes effective before or during that fiscal year

Commentary: The normal cost rate is the employer's portion of the cost of benefits accruing after reducing for the 6% of pay contribution the members make. The accrued liability rate is the payment toward the unfunded liability needed to pay it off over a 12-year period. The 12-year period is a relatively short period for Public Sector Retirement Systems in the United States, with most Systems using a longer period to pay off unfunded pension liabilities. The shorter period results in higher contributions and more benefit security.

These contribution rates do not include an employer's additional initial contribution for unfunded prior service cost accrued liability. In addition, the actual contributions under ECRSP are not necessarily equal to the ADEC.

A detailed summary of the actuarially determined employer contribution rates is provided in Section 6 of this report.



Valuation Results: Projections

Projections of contribution requirements and funded status into the future can be helpful planning tools for stakeholders. This section provides such projections. The projections of the actuarial valuation are known as deterministic projections. Deterministic projections are based on one scenario in the future. The baseline deterministic projection is based on December 31, 2020 valuation results and assumptions.

Key Projection Assumptions:

- Valuation interest rate of 6.50% for all years, with direct rate smoothing of the employer contribution rates over a five-year period beginning July 1, 2022.
- 6.50% investment return on market value of assets
- Actuarial assumptions and methods as described in Appendix D. All future demographic experience is assumed to be exactly realized.
- The contribution rate under the Employer Contribution Rate Stabilization Policy (ECRSP) is contributed until fiscal year ending 2027.
- The actuarially determined contribution rate is contributed for fiscal years ending 2028 and beyond.
- 0% increase in the total active member population
- No cost-of-living adjustments granted
- Future pay increases based on long-term valuation assumptions

The ECRSP adopted by the Board of Trustees on April 29, 2021 requires that recommended contributions for general employees be set at 11.35% of payroll for fiscal year ending 2022 and will increase each fiscal year by 0.75% per year, with adjustments for the impact of any benefit or assumption changes that were made and not incorporated in the previous scheduled rate, with the following additional adjustments, if applicable:

- (1) If the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year exceeds the adjusted scheduled employer contribution rate for that fiscal year by more than 1.00% of compensation, an increase equal to 50% of the difference is added to the adjusted scheduled employer contribution rate for the current and future fiscal years
- (2) Beginning July 1, 2024, if the adjusted scheduled employer contribution rate for that fiscal year exceeds the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year by more than 1.00% of compensation, a decrease equal to 50% of the difference is subtracted from the adjusted scheduled employer contribution rate for the current and future fiscal years

The ECRSP contribution rates for law enforcement officers will be 1.00% higher than contribution rates for general employees for fiscal year 2023. The 1.00% difference will increase by 0.25% each year until fiscal year 2027, when the contribution rates for law enforcement officers will be 2.00% higher than the contribution rates for general employees. Details on the projected contribution rates for law enforcement officers are shown in Section 9.





Valuation Results: Projections (continued)

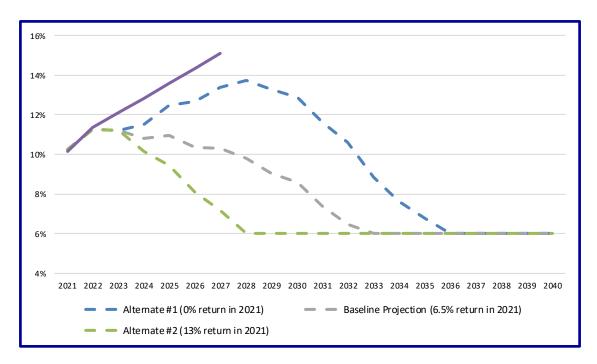
In addition, we have provided two alternate deterministic projections. The first alternate deterministic projection is based on the same assumptions as the baseline deterministic projection except that it assumes a 0.0% asset return for calendar year 2021. The second alternate deterministic projection is based on the same assumptions as the baseline deterministic projection except that it assumes a 13.0% asset return for calendar year 2021.

Finally, stochastic projections, where hundreds of projections based on varying rates of return are performed and results are ordered, are periodically performed by the Investment Management Division and shared with the Board of Trustees and RSD staff.

Valuation Results: Projections (continued)

Graph 12: Projected Actuarially Determined Employer Contribution Rates

The graph below provides the actuarially determined employer contributions rates for general employees and firefighters projected for 15 years, as well as the board-approved stable contribution under the Employer Contribution Rate Stabilization Policy.



Commentary: The minimum employer contribution rate is equal to the employee contribution rate of 6.00%. The contribution rates shown in the graph above do not include an employer's additional initial contribution for unfunded prior service cost accrued liability.



Section 2: The Valuation Process

Valuation Results: Projections (continued)

Graph 13: Projected Funded Ratio

115% 110% 105% 100% 95% 90% 85% 2020 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 Alternate #1 (0% return in 2020) Baseline Projection (6.5% return in 2020) Alternate #2 (13% return in 2020)

The graph below provides the funded ratio projected for 15 years.

Commentary: Note that if the 6.50% return under the Baseline Projection is achieved, the funded ratio reaches the long-term target of 100% within 5 years. This is a direct result of using a 12-year period to pay off the unfunded actuarial accrued liability.

A detailed summary of the deterministic projections is provided in Section 9 of this report.

Valuation Results: Accounting Information

The Governmental Accounting Standards Board (GASB) issues statements which establish financial reporting standards for defined benefit pension plans and accounting for pension expenditures and expenses for governmental employers.

The valuation has been prepared in accordance with the parameters of Statement No. 67 of the GASB and all applicable Actuarial Standards of Practice. The Net Pension Liability (Asset) under GASB 67 for the fiscal year ending June 30, 2021, is \$1,533,596,000 (compared to \$3,573,426,000 for fiscal year ending June 30, 2020). The required financial reporting information for LGERS under GASB No. 67 can be found in Section 8 of this report.



Section 3: Membership Data

The Retirement Systems Division provided membership data as of the valuation date for each member of LGERS. The membership data assists the actuary in estimating benefits that could be paid in the future. The tables below provide a summary of the membership data used in this valuation. Detailed tabulations of data are provided in Appendix B.

| | Member Count | Average Age | Average Service | Reported Compensation |
|--------------------------|-----------------|----------------|--------------------|--------------------------|
| | | | | |
| General Employees | 97,608 | 45.66 | 9.68 | \$ 4,886,677,725 |
| Firefighters | 13,363 | 37.83 | 9.97 | 718,474,611 |
| Law Enforcement Officers | <u>21,426</u> | <u>39.06</u> | <u>11.33</u> | <u>1,240,963,567</u> |
| Total | 132,397 | 43.80 | 9.97 | \$ 6,846,115,903 |

Table 2: Active Member Data

The table above includes members not in receipt of benefits who had reported compensation in 2020.

| | Member Count | Average Age | Average Service | Accumulated Contributions |
|--------------------------|-----------------|----------------|--------------------|------------------------------|
| | | | | |
| General Employees | 70,977 | 45.44 | 3.52 | \$ 837,316,179 |
| Firefighters | 4,960 | 38.19 | 4.17 | 68,753,274 |
| Law Enforcement Officers | <u>8,977</u> | <u>40.96</u> | <u>5.15</u> | <u>160,541,190</u> |
| Total | 84,914 | 44.55 | 3.73 | \$ 1,066,610,643 |

Table 3: Terminated Vested Member Data

The table above includes members not in receipt of benefits who did not have reported compensation in 2020.



| | Member Count | Average Age | Annual Retirement Allowances |
|---|-----------------|----------------|------------------------------------|
| Retired Members (Healthy at Retirement) | | | |
| General Employees | 48,959 | 70.77 | \$ 931,549,722 |
| Firefighters | 2,817 | 65.50 | 90,466,184 |
| Law Enforcement Officers | <u>9,488</u> | <u>64.94</u> | <u>265,524,425</u> |
| | 9,400 | 04.94 | 203,324,423 |
| Total | 61,264 | 69.62 | \$ 1,287,540,331 |
| Retired Members (Disabled at Retirement)* | | | |
| General Employees | 6,337 | 64.52 | \$ 107,679,854 |
| Firefighters | 1,207 | 62.38 | 32,933,080 |
| Law Enforcement Officers | <u>1,587</u> | <u>57.62</u> | <u>33,815,906</u> |
| Total | 9,131 | 63.04 | \$ 174,428,840 |
| Survivors of Deceased Members | | | |
| General Employees | 5,296 | 72.11 | 61,713,108 |
| Firefighters | 479 | 74.09 | 7,862,947 |
| Law Enforcement Officers | <u>1,386</u> | <u>70.81</u> | <u>22,055,464</u> |
| Total | 7,161 | 71.99 | \$ 91,631,519 |
| Grand Total | 77,556 | 69.07 | \$ 1,553,600,690 |

Table 4: Data for Members Currently Receiving Benefits

* Includes retired members reported as disabled in a prior valuation and not subsequently reported as returned to work.



Section 4: Asset Data

Assets are held in trust and are invested for the exclusive benefit of LGERS members. The tables below provide the details of the Market Value of Assets for the current and prior years' valuations.

| Asset Data as of | 12/31/2020 | 12/31/2019 | |
|--|----------------------|----------------------|--|
| Beginning of Year Market Value of Assets | \$ 28,224,698,297 | \$ 25,045,130,611 | |
| Employer Contributions | 706,191,024 | 593,620,018 | |
| Employee Contributions | 442,996,553 | 423,480,874 | |
| Court Costs | 1,988,562 | 2,817,521 | |
| Benefit Payments Other Than Refunds | (1,531,981,296) | (1,452,519,505) | |
| Refunds | (54,037,982) | (59,643,764) | |
| Administrative Expenses | (5,112,894) | (4,676,875) | |
| Investment Income | <u>3,120,828,646</u> | <u>3,676,489,417</u> | |
| Net Increase / (Decrease) | 2,680,872,613 | 3,179,567,686 | |
| End of Year Market Value of Assets | \$ 30,905,570,910 | \$ 28,224,698,297 | |
| Estimated Net Investment Return | 11.14% | 14.83% | |

Table 5: Market Value of Assets

Table 6: Allocation of Investments by Category of the Market Value of Assets

| Asset Data as of | 12/31/2020 | 12/31/2019 |
|---|-------------------|----------------------|
| Allocation by Dollar Amount | | |
| Public Equity | \$ 11,364,288,681 | \$ 9,233,219,503 |
| Fixed Income (LTIF) | 8,251,584,163 | 7,434,903,107 |
| Cash and Receivables | 3,362,801,559 | 3,790,398,830 |
| Other * | 7,926,896,507 | <u>7,766,176,857</u> |
| Total Market Value of Assets | \$ 30,905,570,910 | \$ 28,224,698,297 |
| Allocation by Percentage of Asset Value | | |
| Public Equity | 36.8% | 32.7% |
| Fixed Income (LTIF) | 26.7% | 26.3% |
| Cash and Receivables | 10.9% | 13.4% |
| Other * | <u>25.6%</u> | <u>27.6%</u> |
| Total Market Value of Assets | 100.0% | 100.0% |

* Real Estate, Alternatives, Inflation and Credit



Section 4: Asset Data

In order to reduce the volatility that investment gains and losses can have on the required contributions and funded status of LGERS, the Board adopted an asset valuation method to determine the Actuarial Value of Assets used for funding purposes. The table below provides the calculation of the Actuarial Value of Assets at the valuation date.

| Asset Data as of | 12/31/2020 |
|---|----------------------------|
| Beginning of Year Actuarial Value of Assets | \$ 27,435,046,235 |
| Beginning of Year Market Value of Assets | 28,224,698,297 |
| Total Contributions and Court Costs | 1,151,176,139 |
| Benefit Payments, Refunds and Administrative Expenses | <u>(1,591,132,172)</u> |
| Net Cash Flow | (439,956,033) |
| Expected Investment Return | 1,960,590,855 |
| Expected End of Year Market Value of Assets | 29,745,333,119 |
| End of Year Market Value of Assets | 30,905,570,910 |
| Excess of Market Value of Assets over Expected Market Value of Assets | 1,160,237,791 |
| 80% of 2020 Asset Gain / (Loss) | 928,190,233 |
| 60% of 2019 Asset Gain / (Loss) | 1,164,257,027 |
| 40% of 2018 Asset Gain / (Loss) | (863,749,164) |
| 20% of 2017 Asset Gain / (Loss) | <u>289,217,105</u> |
| Total Deferred Asset Gain / (Loss) | 1,517,915,201 |
| Preliminary End of Year Actuarial Value of Assets | 29,387,655,709 |
| Final End of Year Actuarial Value of Assets (not less than 80% and not greater than 120% of Market Value of Assets) Estimated Net Investment Return | \$ 29,387,655,709 8.79% |

Table 7: Actuarial Value of Assets

Commentary: The actuarial value of assets smooths investment gains/losses, resulting in less volatility in the employer contribution. The asset valuation method recognizes asset returns in excess of or less than the expected return on the market value of assets over a five-year period. Actuarial value of assets was reset to market value of assets at December 31, 2014.

Higher than expected market returns, in 2017, 2019 and 2020, resulted in an actuarial value of asset return for calendar year 2020 of 8.79% and a recognized actuarial asset gain of \$487 million during 2020.



Section 4: Asset Data

The valuation assumed that the funds would earn a 7.00% asset return during 2020. The table below provides a history of the Actuarial Value and Market Value of Asset returns.

| Calendar Year | Expected Asset Return | Actuarial Value of Asset Return | Market Value of Asset Return | 20 Year Average Market Return |
|------------------|-----------------------------|------------------------------------|---------------------------------|----------------------------------|
| 1996 | 7.50% | 10.20% | 9.36% | NA |
| 1997 | 7.25% | 10.19% | 18.10% | NA |
| 1998 | 7.25% | 9.93% | 16.64% | NA |
| 1999 | 7.25% | 15.61% | 9.99% | NA |
| 2000 | 7.25% | 12.27% | 2.65% | NA |
| 2001 | 7.25% | 8.98% | -1.69% | NA |
| 2002 | 7.25% | 6.13% | -4.44% | NA |
| 2003 | 7.25% | 8.52% | 18.63% | NA |
| 2004 | 7.25% | 9.00% | 10.77% | NA |
| 2005 | 7.25% | 8.58% | 7.00% | NA |
| 2006 | 7.25% | 9.19% | 11.41% | NA |
| 2007 | 7.25% | 9.03% | 8.36% | NA |
| 2008 | 7.25% | 2.97% | -19.47% | NA |
| 2009 | 7.25% | 4.92% | 14.94% | NA |
| 2010 | 7.25% | 6.10% | 11.53% | NA |
| 2011 | 7.25% | 5.33% | 2.14% | NA |
| 2012 | 7.25% | 6.51% | 11.79% | NA |
| 2013 | 7.25% | 7.61% | 12.21% | NA |
| 2014 | 7.25% | 7.32% | 6.19% | NA |
| 2015 | 7.25% | 5.87% | 0.34% | NA |
| 2016 | 7.25% | 5.34% | 6.22% | 6.78% |
| 2017 | 7.20% | 6.59% | 13.47% | 6.57% |
| 2018 | 7.00% | 5.13% | -1.41% | 5.67% |
| 2019 | 7.00% | 6.23% | 14.83% | 5.90% |
| 2020 | 7.00% | 8.79% | 11.14% | 6.32% |
| 20-Yr Average | 7.21% | 6.89% | 6.32% | NA |
| Range | 0.25% | 6.22% | 38.10% | NA |

Table 8: Historical Asset Returns

Commentary: The average investment return recognized for purposes of determining the annual change in contribution each year is the actuarial value of assets return. Currently, the average actuarial return over the past 20 years of 6.89% compares with an average market return of 6.32%. The range of returns on market value of assets is markedly more volatile, 38.10% versus 6.22%. This results in much lower employer contribution volatility using the actuarial value of assets versus market, while ensuring that the actuarial needs of LGERS are met.



Section 5: Liability Results

Using the provided membership data, benefit provisions, and actuarial assumptions, the Retirement System's future benefit payments are estimated. These projected future benefit payments are discounted into today's dollars using the assumed rate of investment return assumption to determine the Present Value of Future Benefits. The Present Value of Future Benefits is allocated to past, current and future service, respectively known as the actuarial accrued liability, normal cost and present value of future normal costs. The table below provides these liability numbers for the current and prior years' valuations.

| Valuation Results as of | 12/31/2020 | 12/31/2019 |
|---|-----------------------|-----------------------|
| (a) Present Value of Future Benefits | | |
| (1) Active Members | \$ 22,887,543,731 | \$ 20,051,687,895 |
| (2) Terminated Members | 1,442,127,239 | 1,984,320,009 |
| (3) Members Currently Receiving Benefits | <u>16,527,449,324</u> | <u>15,228,521,929</u> |
| (4) Total | \$ 40,857,120,294 | \$ 37,264,529,833 |
| (b) Present Value of Future Normal Costs | | |
| (1) Employee Future Normal Costs | \$ 3,474,103,383 | \$ 3,326,446,821 |
| (2) Employer Future Normal Costs | <u>3,897,784,321</u> | <u>3,237,161,709</u> |
| (3) Total | \$ 7,371,887,704 | \$ 6,563,608,530 |
| (c) Actuarial Accrued Liability: (a4) – (b3) | \$ 33,485,232,590 | \$ 30,700,921,303 |
| (d) Actuarial Value of Assets | \$ 29,387,655,709 | \$ 27,435,046,235 |
| (e) Unfunded Actuarial Accrued Liability: (c) – (d) | \$ 4,097,576,881 | \$ 3,265,875,068 |
| (f) Unfunded Initial Service Liability* | \$ 15,421,007 | \$ 18,263,651 |
| (g) Unfunded Accrued Liability to be Amortized over 12 years: (e) – (f) | \$ 4,082,155,874 | \$ 3,247,611,417 |

Table 9: Liability Summary

*The unfunded initial prior service liability balance as of December 31, 2020 and the applicable employer contribution rate as of July 1, 2022 is provided in Appendix I, for participating employers with remaining initial prior service liability as of December 31, 2020. Appendix I also provides a non-binding estimated date of liquidation of the liability based on this valuation.

Commentary: The actuarial cost method was changed to the entry age normal cost method from a frozen entry age cost method as of the December 31, 2015 valuation. Separate initial unfunded prior service accrued liabilities are still maintained for employers who joined the system prior to November 1, 2015.



Section 5: Liability Results

The "Estimated Date of Liquidation of Initial Prior Service Liability", shown in Appendix I, must be recalculated annually and adjusted according to each unit's actual experience. The estimated date for liquidation of the liability as of the valuation date does not constitute a guarantee that a local unit will complete the liquidation as of the estimated date, for the reason that actual experience may not match the projections used to create the estimate.

The table below provides a summary of the participating employers in the current and prior years' valuations.

| Valuation Date | 12/31/2020 | 12/31/2019 |
|--|------------|------------|
| Total Participating Employers | 891* | 892 |
| Employers Paying a Prior Service Liability Rate at Prior Valuation Date | 64 | 68 |
| Employers Completing Scheduled Payments Since Prior Valuation Date | 3 | 3 |
| Employers Granted Early Relief Since Prior Valuation Date | 1 | 1 |
| Total Participating Employers Paying a Prior Service Liability Rate at Valuation Date | 60 | 64 |
| Employers Granted Relief for Fiscal Year Beginning 6 Months after Valuation Date | 5 | 5 |
| Employers with Expected Relief for Fiscal Year Beginning 18 Months after Valuation Date | 7 | 7 |

Table 10: Participating Employers

*The number of participating employers shown in Appendices H and J include three additional employers joining after the valuation date.



Section 5: Liability Results

The table below provides a reconciliation of the prior year's unfunded actuarial accrued liability to the current year's unfunded actuarial accrued liability.

| (in millions) | |
|--|----------|
| Unfunded Actuarial Accrued Liability (UAAL) as of 12/31/2019 | \$ 3,266 |
| Normal Cost and Administrative Expense during 2020 | 840 |
| Reduction due to Actual Contributions during 2020 | (1,127) |
| Interest on UAAL, Normal Cost, and Contributions | 219 |
| Asset (Gain) / Loss | (487) |
| Actuarial Accrued Liability (Gain) / Loss | 250 |
| Impact of Assumption Changes | 1,137 |
| Impact of Legislative Changes | - |
| | |
| Unfunded Actuarial Accrued Liability (UAAL) as of 12/31/2020 | \$ 4,098 |

Table 11: Reconciliation of Unfunded Actuarial Accrued Liability

Commentary: During 2020, the UAAL increased more than expected primarily due to the assumption changes of \$1,137. This was offset by an asset gain during the year of \$487 million. Additionally, demographic experience increased the UAAL by \$250 million.



The actuarially determined employer contribution consists of a normal cost rate and an accrued liability rate. The normal cost rate is the employer's portion of the cost of benefits accruing during the year after reducing for the member contribution. The accrued liability rate is the payment toward the unfunded accrued liability in order to pay off the unfunded accrued liability over 12 years. For fiscal years beginning subsequent to January 1, 2017, the sum of the normal cost rate and the accrued liability rate shall not be less than the employee contribution.

The Employer Contribution Rate Stabilization Policy (ECRSP) adopted by the Board of Trustees on April 29, 2021 requires that recommended contributions for general employees be set at 11.35% of payroll for fiscal year ending 2022 and will increase each fiscal year by 0.75% per year, with adjustments for the impact of any benefit or assumption changes that were made and not incorporated in the previous scheduled rate, with the following additional adjustments, if applicable:

- (1) If the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year exceeds the adjusted scheduled employer contribution rate for that fiscal year by more than 1.00% of compensation, an increase equal to 50% of the difference is added to the adjusted scheduled employer contribution rate for the current and future fiscal years
- (2) Beginning July 1, 2024, if the adjusted scheduled employer contribution rate for that fiscal year exceeds the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year by more than 1.00% of compensation, a decrease equal to 50% of the difference is added to the adjusted scheduled employer contribution rate for the current and future fiscal years

The ECRSP contribution rates for law enforcement officers will be 1.00% higher than contribution rates for general employees for fiscal year 2023. The 1.00% difference will increase by 0.25% each year until fiscal year 2027, when the contribution rates for law enforcement officers will be 2.00% higher than the contribution rates for general employees,



The table below provides the calculation of the actuarially determined employer contribution for the current and prior years' valuations. The contribution rates shown in the table below do not include an employer's additional initial contribution for unfunded prior service liability.

Table 12: Calculation of the Actuarially Determined Employer Contribution (ADEC)

| Valuation Date ADEC for Fiscal Year Ending | 12/31/2020 6/30/2023 | 12/31/2019 6/30/2022 |
|---|-------------------------|-------------------------|
| Normal Cost Rate Calculation | | |
| (a) Normal Cost Rate | | |
| General Employees and Firefighters | 12.39% | 11.24% |
| Law Enforcement Officers | 14.91% | 13.11% |
| (b) Employee Rate | 6.00% | 6.00% |
| (c) Expenses | | |
| General Employees and Firefighters | 0.13% | 0.20% |
| Law Enforcement Officers | 0.00% | 0.00% |
| (d) Total Normal Cost Rate: (a) - (b) + (c) | | |
| General Employees and Firefighters | 6.52% | 5.44% |
| Law Enforcement Officers | 8.91% | 7.11% |
| Accrued Liability Rate Calculation | | |
| (e) Total Annual Amortization Payments* | \$ 540,200,277 | \$ 425,655,621 |
| (f) Projected Compensation** | \$ 7,605,240,537 | \$ 7,301,604,347 |
| (g) Accrued Liability Rate: (e) / (f) | 7.10% | 5.83% |
| Preliminary ADEC: (d) + (g) | | |
| General Employees and Firefighters | 13.62% | 11.27% |
| Law Enforcement Officers | 16.01% | 12.94% |
| ADEC With Direct Rate Smoothing | | |
| General Employees and Firefighters | 11.22% | 11.27% |
| Law Enforcement Officers | 13.00% | 12.94% |

*See Table 15 for more detail

** Beginning with the December 31, 2017 valuation, compensation is projected to the fiscal year over which contributions will occur



A detailed table of contribution rates payable by participating employers is provided in Appendix H. In addition to the actuarially determined employer contribution, as determined by the December 31, 2020 valuation (see Table 12 for more details), the unfunded initial prior service liability contribution rate is reflected for those employers that have not liquidated this liability as of June 30, 2022 (see Appendix I for more details).

The table below provides a reconciliation of the actuarially determined employer contribution rates.

| | General Employees and Firefighters | Law Enforcement Officers |
|--|---|--------------------------------|
| Fiscal year ending June 30, 2022 Preliminary ADEC | | |
| (based on December 31, 2019 valuation) | 11.27% | 12.94% |
| Impact of Legislative Changes | <u>0.00</u> | <u>0.00</u> |
| Fiscal year ending June 30, 2022 ADEC for Reconciliation | 11.27% | 12.94% |
| Change Due to Anticipated Reduction in UAAL* | (0.27) | (0.27) |
| Change Due to Demographic (Gain) / Loss | 0.40 | 0.36 |
| Change Due to Investment (Gain) / Loss | (0.86) | (0.86) |
| Change Due to Contributions Different from ADEC** | 0.08 | 0.08 |
| Impact of Assumption Change | 3.00 | 3.76 |
| Impact of Direct Rate Smoothing | (2.40) | (3.01) |
| Fiscal year ending June 30, 2023 Preliminary ADEC | | |
| (based on December 31, 2020 valuation) | 11.22% | 13.00% |

Table 13: Reconciliation of the Change in the ADEC Rates

*Amortization of the UAAL is determined as a level dollar amount with payments expected to remain the same over the amortization period but was calculated as a percentage of valuation payroll in the previous valuation. Payroll is expected to increase annually while the expected amortization payment does not increase. This causes the expected amortization payment to be a lesser percentage of the expected payroll.

** Employer contribution rate for Law Enforcement Officers during 2020 was less than the ADEC. In addition, reflects the impact of direct-rate smoothing.



Amortization methods determine the payment schedule for the unfunded actuarial accrued liability. LGERS adopted a 12-year closed amortization period for fiscal year ending 2018. A new amortization base is created each year based on the prior years' experience. The tables below provide the calculation of the new amortization base and the amortization schedule for the current year's valuation.

| Calculation as of | 12/31/2020 | 12/31/2019 |
|---|--|---|
| (a) Unfunded Actuarial Accrued Liability* (b) Prior Years' Outstanding Balance (c) New Amortization Base: (a) – (b) (d) New Amortization Payment | \$ 4,082,155,874 \$ 3,134,575,986 \$ 947,579,888 \$ 123,691,102 | \$ 3,247,611,417 \$ 2,869,931,706 \$ 377,679,711 \$ 50,878,535 |

Table 14: Calculation of the New Amortization Base

* Does not include the unfunded initial prior service liability

Table 15: Amortization Schedule for Unfunded Accrued Liability

| Date Established | Original Balance | 12/31/2020 Outstanding Balance | Annual Payment |
|---------------------|---|--------------------------------------|--------------------|
| December 31, 2015 | \$ 677,367,798 472,513,055 961,083,903 667,733,439 377,679,711 947,579,888 | <pre>\$ 591,875,007</pre> | \$ 89,938,080 |
| December 31, 2016 | | 446,844,432 | 62,510,871 |
| December 31, 2017 | | 972,994,807 | 126,675,678 |
| December 31, 2018 | | 718,744,449 | 87,853,163 |
| December 31, 2019 | | 404,117,291 | 49,531,383 |
| December 31, 2020 | | <u>947,579,888</u> | <u>123,691,102</u> |
| Total | | \$ 4,082,155,874 | \$ 540,200,277 |



The tables below provide a history of the actuarially determined employer contribution rates.

Table 16: Actuarially Determined Employer Contribution Rates for GeneralEmployees and Firefighters

| Valuation Date | Rate Effective | Preliminary ADEC | Change due to Legislation | Final ADEC | Actual Contribution |
|-------------------|-------------------|---------------------|---------------------------------|---------------|------------------------|
| | | | | | |
| 12/31/2020 | 7/1/2022 | 11.22% | N/A | N/A | N/A |
| 12/31/2019 | 7/1/2021 | 11.27% | N/A | N/A | N/A |
| 12/31/2018 | 7/1/2020 | 10.24% | 0.00% | 10.24% | 10.15% |
| 12/31/2017 | 7/1/2019 | 8.56% | 0.00% | 8.56% | 8.95% |
| 12/31/2016 | 7/1/2018 | 7.40% | 0.00% | 7.40% | 7.75% |
| 12/31/2015 | 7/1/2017 | 6.25% | 0.00% | 6.25% | 7.50% |
| | | | | | |

Table 17: Actuarially Determined Employer Contribution Rates for Law Enforcement Officers

| Valuation Date | Rate Effective | Preliminary ADEC | Change due to Legislation | Final ADEC | Actual Contribution |
|-------------------|-------------------|---------------------|---------------------------------|---------------|------------------------|
| 12/31/2020 | 7/1/2022 | 13.00% | N/A | N/A | N/A |
| 12/31/2019 | 7/1/2021 | 12.94% | N/A | N/A | N/A |
| 12/31/2018 | 7/1/2020 | 11.92% | 0.00% | 11.92% | 10.90% |
| 12/31/2017 | 7/1/2019 | 10.22% | 0.00% | 10.22% | 9.70% |
| 12/31/2016 | 7/1/2018 | 8.99% | 0.00% | 8.99% | 8.50% |
| 12/31/2015 | 7/1/2017 | 7.84% | 0.00% | 7.84% | 8.25% |



The following table shows estimates of the potential cost of two types of benefit improvements if they were enacted based on the results of the December 31, 2020 or December 31, 2019 valuations. The first benefit improvement is a permanent one-time cost-of-living increase and the second is an increase in the defined benefit formula multiplier.

| Calculation as of | 12/31/ 2020 | 12/31 /2019 |
|--|-------------------------|-------------------------|
| Increase in UAAL for a 1% COLA Increase in ADEC for a 1% COLA | \$ 183,045,000 0.31% | \$ 168,738,000 0.31% |
| Increase in UAAL for a 0.1% Increase in the Defined Benefit Formula Increase in ADEC for a 0.1% Increase | \$ 179,508,000 | \$ 165,951,000 |
| in the Defined Benefit Formula | 0.37% | 0.36% |

Table 18: Cost of Benefits Enhancements

The 1% COLA in the December 31, 2020 column would be effective July 1, 2022 and includes expected costs of COLAs paid for retirements after December 31, 2020 and before June 30, 2022. The COLA would be paid in full to retired members and survivors of deceased members on the retirement roll on July 1, 2021 and would be prorated for retired members and survivors of deceased members who commence benefits after July 1, 2021 but before June 30, 2022.

A corresponding increase in retirement allowances would be paid in the event of an increase in the defined benefit formula. An increase of 0.01% in the Defined Benefit Formula would result in an increase in AAL of \$179.5 million.

N.C.G.S. 128-27(k) COLA Disclosure for Board of Trustees:

- (1) The maximum COLA that could be granted under N.C.G.S. 128-27(k) by the Board payable in Fiscal Year 2022 is 2.66%
- (2) Amount of actuarial accrued liability that would be added if that COLA is granted: \$487.0 million
- (3) Amount that COLA would increase the underlying ADEC: 0.82%
- (4) ECRSP rate for General/Firefighters including the impact for this COLA: 12.92% (12.10% + 0.82%)
- (5) ECRSP rate for Law Enforcement Officers including the impact for this COLA: 13.92% (13.10% + 0.82%)



Section 7: Valuation Balance Sheet

The valuation balance sheet shows the projected assets and liabilities of LGERS. The items shown in the balance sheet are present values actuarially determined as of the relevant valuation date. The table below provides the valuation balance sheet for the current year and prior year.

| Balance Sheet as of | 12/31/2020 | 12/31/2019 |
|---|--|--|
| Assets | | |
| Current Actuarial Value of Assets Annuity Savings Fund Pension Accumulation Fund Total | \$ 5,792,939,657 <u>23,594,716,052</u> \$ 29,387,655,709 | \$ 5,557,854,032 <u>21,877,192,203</u> \$ 27,435,046,235 |
| Future Member Contributions to the Annuity Savings Fund | \$ 3,474,103,383 | \$ 3,326,446,821 |
| Prospective Contributions to the Pension Accumulation Fund Normal Contributions Unfunded Accrued Liability Contributions Total | \$ 3,897,784,321 <u>4,097,576,881</u> \$ 7,995,361,202 | \$ 3,237,161,709 <u>3,265,875,068</u> \$ 6,503,036,777 |
| Total Assets | <u>\$ 40,857,120,294</u> | <u>\$ 37,264,529,833</u> |
| Liabilities | 5 | |
| Annuity Savings Fund Past Member Contributions Future Member Contributions Total Contributions | \$ 5,792,939,657 <u>3,474,103,383</u> \$ 9,267,043,040 | \$ 5,557,854,032 3,326,446,821 \$ 8,884,300,853 |
| Pension Accumulation Fund Benefits Currently in Payment Benefits to be Paid to Current Active and Inactive Members Reserve for Increases in Retirement Allowances Total Benefits Payable | \$ 16,527,449,324 15,062,627,930 0 \$ 31,590,077,254 | \$ 15,228,521,929 13,151,707,051 0 \$ 28,380,228,980 |
| Total Liabilities | <u>\$ 40,857,120,294</u> | <u>\$ 37,264,529,833</u> |

Table 19: Valuation Balance Sheet on a Projected Basis



Section 8: Accounting Results

This section contains the accounting information for Governmental Accounting Standards Board (GASB) Statement No. 67 for fiscal year ending June 30, 2021 based on a valuation date of December 31, 2020.

Please note that GASB Statement No. 67 (*Financial Reporting for Pension Plans*) is applicable for fiscal years ending 2014 and later.

The June 30, 2021 total pension liability presented in this section was determined by an actuarial valuation as of December 31, 2020, based on the assumptions, methods and plan provisions described in this report. The actuarial cost method used to develop the total pension liability is the Entry Age Normal Cost method, as required by GASB Statement No. 67.

GASB Statement No. 67 set forth certain items of information to be disclosed in the financial statements of the Plan. The tables below provide a distribution of the number of employees by type of membership.

Table 20: Number of Active and Retired Members as of December 31, 2020

| Group | Number |
|--|----------------|
| Retired members and survivors of deceased members currently receiving benefit | 77,556 |
| Terminated members and survivors of deceased members entitled to benefits but not yet receiving benefits | 84,914 |
| Active Members | <u>132,397</u> |
| Total | 294,867 |



Section 8: Accounting Results

GASB Statement No. 67 set forth certain items of information to be disclosed in the financial statements of the Plan. The tables below provide the schedule of changes in Net Pension Liability (Asset).

| Schedule of Changes in Net Pension Liability as of June 30, 2021 | | | | |
|--|----------|--|--|--|
| Total Pension Liability | | | | |
| Service Cost Interest Changes of Benefit Terms Difference between Expected and Actual Experience Change of Assumptions Benefit Payments, including Refund of Member Contributions Net Change in Total Pension Liability Total Pension Liability - Beginning of Year | \$ | 876,765,000 2,139,954,000 0 296,054,000 1,125,778,000 (<u>1,630,148,000</u>) 2,808,403,000 31,372,060,000 | | |
| Total Pension Liability - End of Year | \$ | 34,180,463,000 | | |
| Plan Fiduciary Net Position | | | | |
| Employer Contributions Member Contributions Net Investment Income Benefit Payments, including Refund of Member Contributions Administrative Expenses Other Net Change in Plan Fiduciary Net Position | \$ | 745,308,000 453,112,000 5,283,300,000 (1,630,148,000) (5,295,000) <u>1,956,000</u> 4,848,233,000 | | |
| Plan Fiduciary Net Position - Beginning of Year Plan Fiduciary Net Position - End of Year | \$ \$ | 27,798,634,000 32,646,867,000 | | |

Table 22: Net Pension Liability (Asset)

| Net Pension Liability (Asset) | | | |
|---|---|--|--|
| | June 30, 2021 | June 30, 2020 | |
| Total Pension Liability Plan Fiduciary Net Position Net Pension Liability (Asset) | <pre>\$ 34,180,463,000 <u>32,646,867,000</u> \$ 1,533,596,000</pre> | <pre>\$ 31,372,060,000 27,798,634,000 \$ 3,573,426,000</pre> | |
| Plan Fiduciary Net Position as a Percentage of the Total Pension Liability (Asset) | 95.51% | 88.61% | |



Section 8: Accounting Results

The table below is the sensitivity of the net pension liability to changes in the discount rate.

Table 23: Sensitivity of the Net Pension Liability (Asset) at June 30, 2021 toChanges in the Discount Rate

| Sensitivity of the Net Pension Liability to Changes in the Discount Rate | | | |
|---|-----------------|------------------|--------------------|
| | 1%Decrease | Current | 1%Increase |
| Discount Rate | 5.50% | 6.50% | 7.50% |
| Net Pension Liability (Asset) | \$5,953,292,000 | \$ 1,533,596,000 | \$ (2,103,557,000) |

The discount rate used to measure the total pension liability was 6.50%. The projection of cash flows used to determine the discount rate assumed that for fiscal year ending 2022, System contributions will follow the Employer Contribution Rate Stabilization Policy as adopted by the Board of Trustees on January 31, 2019, and "direct-rate smoothing" as adopted by the Board of Trustees on April 26, 2018. It is assumed that for fiscal years ending 2023 through 2027, System contributions will follow the Employer Contribution Rate Stabilization Policy as adopted by the Board of Trustees on April 26, 2018. It is assumed that for fiscal years ending 2023 through 2027, System contributions will follow the Employer Contribution Rate Stabilization Policy as adopted by the Board of Trustees on April 29, 2021, and "direct-rate smoothing" as adopted by the Board of Trustees on April 29, 2021, and "direct-rate smoothing" as adopted by the Board of Trustees on January 28, 2021. It is assumed that for fiscal years 2028 and beyond, System contributions will be based on the actuarially determined contribution rates with a minimum employer contribution rate of 6.00% of payroll in accordance with G.S. 128-30(d)(10). Based on those policies, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Please see Appendix E for additional detail.

The table below provides the methods and assumptions used to calculate the actuarially determined contribution rate.

| Valuation Date | 12/31/2020 |
|---|---|
| Actuarial Cost Method | Entry Age |
| Amortization Method | Level dollar closed |
| Amortization Period | 12 year closed periods |
| Asset Valuation Method | Asset returns in excess of or less than the expected return on market value of assets reflected over a five-year period (not greater than 120% of market value and not less than 80% of market value) |
| Actuarial Assumptions: | |
| Investment Rate of Return* Projected Salary Increases** | 6.50% 3.25% - 8.25% |
| *Includes Inflation of **Includes Inflation and Productivity of | 2.50% 3.25% |
| Cost-of-living Adjustments | N/A |

Table 24: Additional Information for GASB Statement No. 67



Projections of contribution requirements and funded status into the future can be helpful planning tools for stakeholders. This section provides such projections. The projections of the actuarial valuation are known as deterministic projections. Deterministic projections are based on one scenario in the future. The baseline deterministic projection is based on December 31, 2020 valuation results and assumptions.

Key Projection Assumptions

- Valuation interest rate of 6.50% for all years in conjunction with direct rate smoothing of the employer contribution rate over a 5-year period beginning July 1, 2022.
- 6.50% investment return on market value of assets
- Actuarial assumptions and methods as described in Appendix D. All future demographic experience is assumed to be exactly realized.
- The contribution rate under the Employer Contribution Rate Stabilization Policy (ECRSP) is contributed until fiscal year ending 2027 not recognizing the decline in scheduled rates that would occur under the ECRSP in FY 2025-2027 if the ADEC is less than the schedule by at least 1% of pay..
- The actuarially determined contribution rate is contributed for fiscal years ending 2028 and beyond.
- 0% increase in the total active member population
- No cost-of-living adjustments granted
- Future pay increases based on long-term valuation

The Employer Contribution Rate Stabilization Policy (ECRSP) adopted by the Board of Trustees on April 29, 2021 requires that recommended contributions for general employees be set at 11.35% of payroll for fiscal year ending 2020 and will increase each fiscal year by 0.75% per year, with adjustments for the impact of any benefit or assumption changes that were made and not incorporated in the previous scheduled rate, with the following additional adjustments, if applicable:

- (1) If the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year exceeds the adjusted scheduled employer contribution rate for that fiscal year by more than 1.00% of compensation, an increase equal to 50% of the difference is added to the adjusted scheduled employer contribution rate for the current and future fiscal years
- (2) Beginning July 1, 2024, if the adjusted scheduled employer contribution rate for that fiscal year exceeds the underlying actuarially determined employer contribution rate (ADEC) for a given fiscal year by more than 1.00% of compensation, a decrease equal to 50% of the difference is added to the adjusted scheduled employer contribution rate for the current and future fiscal years

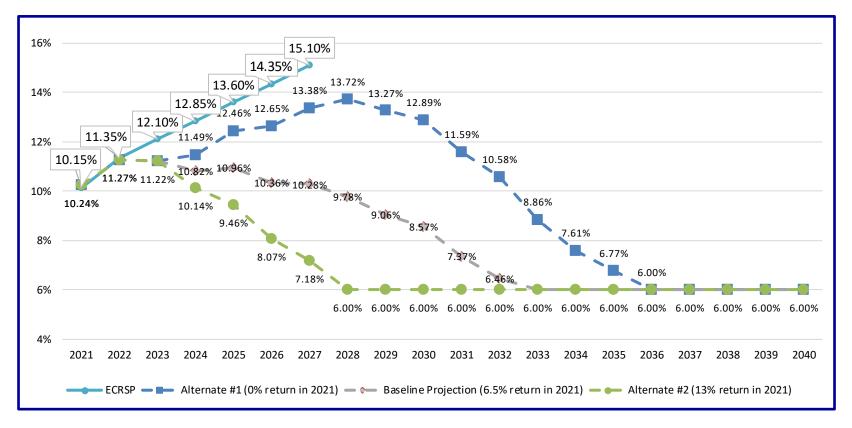
The ECRSP contribution rates for law enforcement officers will be 1.00% higher than contribution rates for general employees for fiscal year 2023. The 1.00% difference will increase by 0.25% each year until fiscal year 2027, when the contribution rates for law enforcement officers will be 2.00% higher than the contribution rates for general employees,

In addition, we have provided two alternate deterministic projections. The first alternate deterministic projection is based on the same assumptions as the baseline deterministic projection except that it assumes a 0.0% asset return for calendar year 2021. The second alternate deterministic projection is based on the same assumptions as the baseline deterministic projection except that it assumes a 13.0% asset return for calendar year 2021.



The graph below provides the actuarially determined employer contribution rates projected for 15 years, as well as the board approved stable contribution under the Employer Contribution Rate Stabilization Policy.

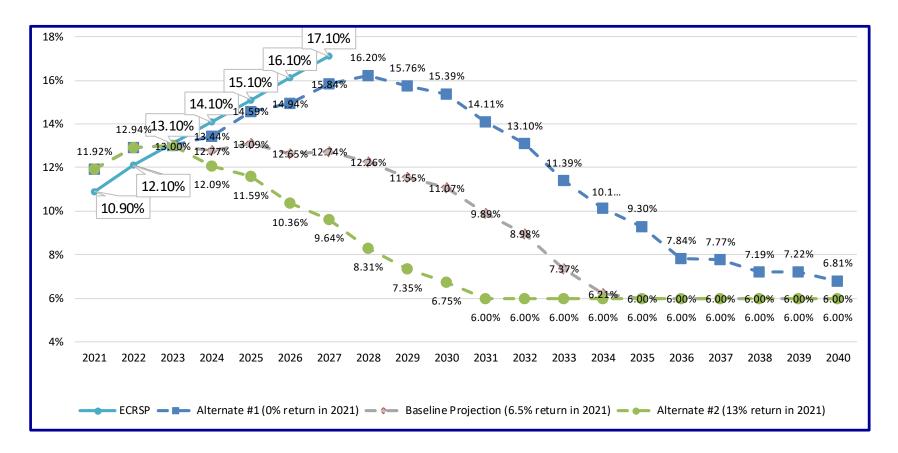






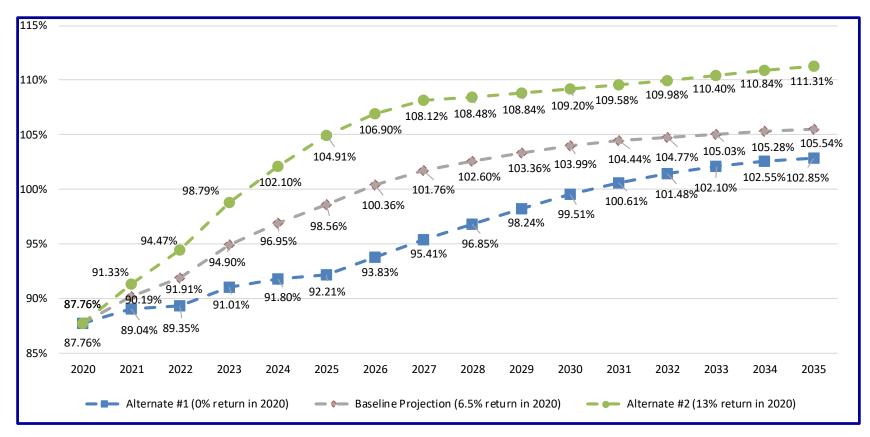
The graph below provides the actuarially determined employer contribution rates projected for 15 years, as well as the board approved stable contribution under the Employer Contribution Rate Stabilization Policy.

Projected Actuarially Determined Employer Contribution Rates for Law Enforcement Officers





The graph below provides the funded ratio projected for 15 years.



Projected Funded Ratio



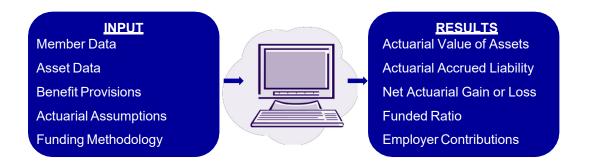
Purpose of an Actuarial Valuation

The majority of Public Sector Retirement Systems in the State of North Carolina are defined benefit (DB) retirement systems. Under a DB retirement system, the amount of benefits payable to a member upon retirement, termination, death or disability is defined in various contracts and legal instruments and is based, in part, on the member's years of credited service and final compensation. The amount of contribution needed to fund these benefits cannot be known with certainty. A primary responsibility of the Board of Trustees of a Retirement System is to establish and monitor a funding policy for the contributions made to the Retirement System.

While somewhat uncommon, in some jurisdictions, contributions are made by the plan sponsor as benefits come due. This is known as pay-as-you-go financing. More commonly, contributions for benefits are made in advance during the course of active employment of the members. This is known as actuarial pre-funding. For example, the State of North Carolina mandates for the Teachers' and State Employees' Retirement System ("TSERS") under G.S.135-8(d), that that "on account of each member there shall be paid into the pension accumulation fund by employers an amount equal to a certain percentage of the actual compensation of each member's actual compensation to be known as the 'normal contribution' and an additional amount equal to a percentage of the member's actual compensation to be known as the 'accrued liability contribution'. The rate per centum of such contributions shall be fixed on the basis of the liabilities of the Retirement System as shown by actuarial valuation, duly approved by the Board of Trustees, and shall be called the 'actuarially determined employer contribution rate'...The actuarially determined employer contribution rate shall be calculated annually by the actuary using assumptions and a cost method approved by the Actuarial Standards Board of the American Academy of Actuaries and selected by the Board of Trustees."

The Actuarial Valuation Process

The following diagram summarizes the inputs and results of the actuarial valuation process. A narrative of the process follows the diagram. The reader may find it worthwhile to refer to the diagram from time to time.



Under the actuarial valuation process, current information about Retirement System members is collected annually by staff at the direction of the actuary, namely member data, asset data and information on benefit provisions. Member data is collected for each member of the Retirement System. The member data will assist the actuary in estimating benefits that could be paid in the future. The member information the actuary collects to estimate the amount of benefit includes elements such as current service, salary and benefit group identifier for members that have not separated service; for those that have, the actual benefit amounts are collected. The actuary collects information such as gender and date of birth to determine when a benefit might be paid and for how long.



The actuary collects summary information about assets as of the valuation date and information on cash flows for the year ending on the valuation date. Information about benefit provisions as of the valuation date is also collected. To bridge the gap between the information collected and potential benefits to be paid in the future, the actuary must make assumptions about future activities. These assumptions are recommended by the actuary to the Boards based on the results of an experience review. An experience review is a review of the Retirement System over a period of time, typically five years, where the actuary analyzes the demographic and economic assumptions of the Retirement System. Based on this review, the actuary will make recommendations on the demographic assumptions, such as when members will be projected to retire, terminate, become disabled and/or die in the future, as well as the economic assumptions, such as what rate of return is projected to be earned by the fund based on the Retirement System investment policy and what level of future salary increases is expected for members. To maintain the assumptions, the Board should adopt a prudent policy of having an experience review being performed every five years. The next experience review for the North Carolina Retirement Systems will be based on the five-year period ending on December 31, 2024, and will be presented during 2025. Using these assumptions, the actuary is able to use the member data, asset data and benefit provision information collected to project the benefits that will be paid from the Retirement System to current members. These projected future benefit payments are based not only on service and pay through the valuation date but includes future pay and service, which has not yet been earned by the members but is expected to be earned.

These projected future benefit payments are discounted into today's dollars using the assumed rate of investment return assumption to determine the Present Value of Future Benefits (PVFB) of the Retirement System. The PVFB is an estimate of the value of the benefits promised to all members as of a valuation date. If the Retirement System held assets equal to the PVFB and all the assumptions were realized, there would be sufficient funds to pay off all the benefits to be paid in the future for members in the Retirement System as of the valuation date.

The PVFB is a large sum of money, typically much larger than the amount of Retirement System assets held in the trust. The next step is for the actuary to apply the Funding Policy as adopted by the Board to determine the employer contributions to be made to the Retirement System so that the gap between the PVFB and assets is systematically paid off over time. The Funding Policy is adopted by the Board based on discussions with the actuary. When the Board develops a funding policy, a balance between contributions which are responsive to the needs of the Retirement System yet stable should be struck. There are many different funding policies for the Board to consider, and the actuary is responsible for discussing the various features of the funding policies under consideration. Funding Policies are generally reviewed during an experience review, but it is not uncommon to review a funding policy in between, particularly during period where large increases or decreases in contributions are expected. The Funding Policy is composed of three components: the actuarial cost method, the asset valuation method, and the amortization method.

Once the PVFB is developed, an actuarial cost method is used to allocate the PVFB. Under the actuarial cost method, the PVFB is allocated to past, current and future service, respectively known as the actuarial accrued liability (AAL), normal cost (NC) and present value of future normal costs (PVFNC). The actuary computes the liability components (PVFB, NC, AAL, and PVFNC) for each participant in the Retirement System at the valuation date. These liability components are then totaled for the Retirement System. There are many actuarial cost methods. Different actuarial methods will produce different contribution patterns, but do not change the ultimate cost of the benefits. The entry age normal cost method is the most prevalent method used for public sector plans in the United States, because the expected normal cost is calculated in such a way that it will tend to stay level as a percent of pay over a member's career.



The actuarial accrued liability (AAL) is also referred to as the amount of money the Retirement System should ideally have in the trust. The unfunded actuarial accrued liability (UAAL) is the portion of actuarial accrued liability that is not covered by the assets of the Retirement System. The UAAL can be a negative number, which means that the Retirement System has more assets than actuarial accrued liability. We refer to this condition as overfunded liability in this summary. Having UAAL does not indicate that the Retirement System is in failing actuarial health. Most retirement systems have UAAL. Another related statistic of the Retirement System is the funded ratio. The funded ratio is the percent of the actuarial accrued liabilities covered by the actuarial value of assets. The assets used for these purposes are an actuarial value of assets (AVA), not market. The actuarial value of assets is based on the asset valuation method as recommended by the actuary and adopted by the Board. An actuarial value of assets is a smoothed, or averaged, value of assets, which is used to limit employer contribution volatility. Typically, assets are smoothed, or averaged, over a period of 3 to 5 years. By averaging returns, the UAAL is not as volatile, which we will see later results in contributions that are not as volatile as well. The North Carolina Retirement Systems use an actuarial value of assets with a smoothing period of 5 years.

While having UAAL is common, it is acceptable only if it is systematically being paid off. The method by which the UAAL is paid off is known as the amortization method. The concept is similar to that of a mortgage payment. The Board adopts the amortization method used to pay off the UAAL over a period of time. The amortization method is composed of the amortization period, the amount of payment increase, whether the period is open or closed and by the amount of amortization schedules. The amortization period is the amount of time over which the UAAL will be paid off. This is generally a period of thirty years or less, but actuaries are beginning to recommend shorter periods. The payments can be developed to stay constant from year to year like a mortgage, but often they are developed to increase each year at the same level payroll increases. Amortization type can be closed or open. Under a closed period, the UAAL is expected to be paid off over the amortization period. This is similar to a typical mortgage. Under an open period, the amortization period remains unchanged year after year. The concept is similar to re-mortgaging annually. In many instances, an amortization schedule is developed, whereby the UAAL is amortized over a closed period from the point the UAAL is incurred. Finally, some amortization methods are defined by a schedule of payments, where a new schedule of payments is added with each valuation. Regardless of the amortization type or period, the funding policy should generate a contribution that pays off the UAAL, which results in the funded ratio trending to 100% over time. Caution should be used when an open method is used, because typically an open amortization policy does not result in the UAAL being paid off. North Carolina pays off a much larger amount of UAAL compared to other states. While many states struggle to pay a 30-year level percent of pay UAAL contribution, which doesn't even reduce the amount of UAAL, North Carolina pays down the UAAL with level dollar payments over a 12-year period. This aggressive payment schedule of the UAAL results in North Carolina being home to many of the best funded Public Retirement Systems in the United States.

To satisfy the requirements of the State of North Carolina, the actuary calculates the total annual contribution to the Retirement System as the normal cost plus a contribution towards UAAL. Said another way, this contribution is sufficient to pay for the cost of benefits accruing during the year (normal cost) plus the mortgage payment (UAAL payment). The total contribution is reduced by the amount of member contributions, if any, to arrive at the employer contribution. Continuing to follow the aggressive North Carolina contribution policy will keep the North Carolina Retirement Systems among the best funded in the United States.



An actuarial valuation report is produced annually, which contains the contribution for the fiscal year as well as the funded ratio of the Retirement System. The primary purpose of performing an actuarial valuation annually is to replace the estimated activities from the previous valuation, which were based on assumptions, with the actual experience of the Retirement System for the prior year. The experience gain (loss) is the difference between the expected and the actual UAAL of the Retirement System. An experience loss can be thought of as the amount of additional UAAL over and above the amount that was expected from the prior year due to deviation of actual experience from the assumption. Similarly, an experience gain can be thought of as having less UAAL than that which was expected from the prior year assumptions. As an example, if the Retirement System achieves an asset return of 15% when the assumption was a 6.50 return, an actuarial gain is said to have happened, which typically results in lower contributions and higher funded ratio, all else being equal. Alternatively, a return of 2% under the same circumstances would result in an actuarial loss, requiring an increase in contributions and a funded ratio that is lower than anticipated. Experience gains and losses are common within the valuation process. Typically gains and losses offset each other over time. To the extent that does not occur, the reasons for the gains and losses should be understood, and appropriate recommendations should be made by the actuary after an experience review to adjust the assumptions.

The actuarial valuation report will contain histories of key statistics from prior actuarial valuation reports. In particular, a history of the funded ratio of the Retirement System is an important exhibit. Trustees should understand the reason for the trend of the funded ratio of the Retirement System over time. The actuary will discuss the reasons for changes in the funded ratio of the Retirement System with each valuation report. To the extent that there are unexplained changes in funded ratio corrective action should be explored and the actuary will make recommendations as to whether there should be changes in the assumptions, funding policy, or some other portion of the actuarial valuation process.

In addition to historical information, projections of contributions and funded ratio based on current assumptions can sometimes be found in an actuarial valuation report. Projections of contributions can allow the employer to plan their budget accordingly. Surprises in Retirement System contributions to be paid by the employer serve no one. A one-year projection based on "bad" asset returns can provide ample time for the employer to plan, or allow for a discussion of changing the funding policy to occur. Contribution surprises are a primary contributor to employers considering pension reform. It is important to keep the employer apprised of future contribution requirements. A projection of funded ratio can serve the Trustees by illustrating the trend of the funded ratio over time. The funded ratio, under a prudent funding policy, should trend to 100% over a period of less than 30 years. (It is worthwhile to note that while 30 years has served as an industry standard for the longest period over which 100% funding should be achieved, that period is coming under scrutiny by the actuarial community and will likely be shortened.) If a projection of funded ratio does not trend to 100% over time, consideration should be given to fixing the funding policy to achieve this goal. For the North Carolina Retirement Systems, projections are generally performed for the January board meetings.

The actuarial report will contain schedules of information about the census, plan and asset information submitted by Retirement System staff upon which the actuarial valuation is based. It is important that the Board of Trustees review that information and determine if the information is consistent with their understanding of the Retirement System. If after questioning staff, the Board of Trustees is not comfortable that the information provided is correct, the actuary should be notified to determine if the actuarial valuation report should be corrected.

Finally, the valuation report and/or presentation should contain sufficient information in an understandable fashion to allow the Board to take action and adopt the contribution rate for the upcoming year. It should also allow stakeholders to understand key observations over the past year that resulted in contributions increasing (or decreasing) and where contributions are headed. The actuary is always open to making the results understandable. CMC works with the North Carolina Retirement Systems Division to make your reports and presentations understandable and actionable. If something doesn't make sense – speak up!!



Glossary

Note that the first definitions given are the "official" definitions of the term. For some terms there is a second definition, in italics, which is the unofficial definition.

Actuarial Accrued Liability (AAL). The portion of the Present Value of Projected Benefits (PVFB) allocated to past service. Also difference between (i) the actuarial present value of future benefits, and (ii) the present value of future normal cost. Sometimes referred to as "accrued liability" or "past service liability." The amount of money that should be in the fund. *The funding target*.

Actuarial Assumptions. Estimates of future plan experience with respect to rates of mortality, disability, retirement, investment income and salary increases. Demographic ("people") assumptions (rates of mortality, separation, and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic ("money") assumptions (salary increases and investment income) consist of an underlying rate appropriate in an inflation-free environment plus a provision for a long-term average rate of inflation. Estimates of future events used to project what we know now - current member data, assets, and benefit provisions – into an estimate of future benefits.

Actuarial Cost Method. A mathematical budgeting procedure for allocating the dollar amount of the Present Value of Projected Benefits (PVFB) between the normal costs to be paid in the future and the actuarial accrued liability. Sometimes referred to as the "actuarial funding method."

Actuarial Methods. The collective term for the Actuarial Cost Method, the Amortization Payment for UAAL Method, and the Asset Valuation Method used to develop the contribution requirements for the Retirement System. *The funding policy*.

Actuarial Equivalent. Benefits whose actuarial present values are equal.

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

Actuarial Value of Assets (AVA). A smoothed value of assets which is used to limit contribution volatility. Also known as the funding value of assets. *Smoothed value of assets.*

Amortization Payment for UAAL. Payment of the unfunded actuarial accrued liability by means of periodic contributions of interest and principal, as opposed to a lump sum payment. The components of the amortization payment for UAAL include:

- Amortization Period Length Generally amortization periods up to 15 to 20 years (and certainly not longer than 30) are allowed. Similar to a mortgage, the shorter the amortization period, the higher the payment and the faster the UAAL is paid off.
- Amortization payment increases Future payments can be level dollar, like a mortgage, or as a level percent of pay. Most Retirement Systems amortize UAAL as a level percent of pay which when combined with the employer normal cost that is developed as a level percent of pay can result in contributions that are easier to budget.
- Amortization type An amortization schedule can be closed or open. A closed amortization schedule is similar to a mortgage – at the end of the amortization period the UAAL is designed to be paid off. An open amortization period is similar to refinancing the UAAL year after year.
- Amortization schedule UAAL can be amortized over a single amortization period, or it can be amortized over a schedule.

The amortization payment for UAAL can be thought of as the UAAL mortgage payment.



Asset Valuation Method. The components of how the actuarial value of assets is to be developed. LGERS uses a five-year smoothing of asset gains and losses, which is the most commonly used method

Experience Gain (Loss). A measure of the difference between actual experience and experience anticipated by a set of actuarial assumptions during the period between two actuarial valuation dates, in accordance with the actuarial cost method being used. *The experience Gain (Loss) represents how much the actuary missed the mark in a given year.*

Funded Ratio. The percent of the actuarial accrued liabilities covered by the actuarial value of assets. Also known as the funded status. *The ratio of how much money you actually have in the fund to the amount you should have in the fund.*

Normal Cost. The annual cost assigned, under the actuarial funding method, to current and subsequent plan years. Sometimes referred to as "current service cost." An amortization payment toward the unfunded actuarial accrued liability is paid in addition to the normal cost to arrive at the total contribution in a given year. *The cost of benefits accruing during the year*.

Present Value of Future Normal Cost (PVFNC). The portion of the Present Value of Projected Benefits (PVFB) allocated to future service. The value in today's dollars of the amount of contribution to be made in the future for benefits accruing for members in the Retirement System as of the valuation date.

Present Value of Future Benefits (PVFB). The projected future benefit payments of the plan are discounted into today's dollars using an assumed rate of investment return assumption to determine the Present Value of Future Benefits (PVFB) of the Retirement System. The PVFB is the discounted value of the projected benefits promised to all members as of a valuation date, including future pay and service for members which has not yet been earned. *If the Retirement System held assets equal to the PVFB and all the assumptions were realized, there would be sufficient funds to pay off all the benefits to be paid in the future for members in the Retirement System as of the valuation date.*

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

Unfunded Actuarial Accrued Liability (UAAL). The difference between the actuarial accrued liability (AAL) and actuarial value of assets (AVA). The UAAL is sometimes referred to as "unfunded accrued liability." *Funding shortfall, or prefunded amount if negative.*

Valuation Date. The date that the actuarial valuation calculations are performed as of. *Also known as the "snapshot date".*



Appendix B: Detailed Tabulation of Member Data

Table B-1: The Number and Average Reported Compensation of Active MembersDistributed by Age and Service as of December 31, 2020

| A = 2 | Years of Service | | | | | | | | | | |
|--------------|------------------|--------|--------|----------|----------|----------|----------|----------|----------|---------|---------|
| Age | Under 1 | 1 to 4 | 5 to 9 | 10 to 14 | 15 to 19 | 20 to 24 | 25 to 29 | 30 to 34 | 35 to 39 | 40 & Up | Total |
| Under 25 | 1,149 | 4,201 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,449 |
| | 7,661 | 35,334 | 42,806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29,635 |
| 25 to 29 | 1,090 | 9,660 | 3,031 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 13,798 |
| | 8,394 | 40,569 | 47,807 | 52,058 | 0 | 0 | 0 | 0 | 0 | 0 | 39,631 |
| 30 to 34 | 760 | 7,073 | 6,446 | 1,896 | 55 | 0 | 0 | 0 | 0 | 0 | 16,230 |
| | 8,586 | 42,355 | 50,550 | 55,901 | 57,007 | 0 | 0 | 0 | 0 | 0 | 45,661 |
| 35 to 39 | 535 | 4,952 | 4,642 | 4,198 | 1,962 | 65 | 0 | 0 | 0 | 0 | 16,354 |
| | 8,809 | 44,112 | 52,758 | 58,459 | 61,711 | 64,582 | 0 | 0 | 0 | 0 | 51,287 |
| 40 to 44 | 417 | 3,976 | 3,642 | 3,076 | 3,497 | 1,674 | 29 | 0 | 0 | 0 | 16,311 |
| | 8,203 | 45,098 | 52,970 | 58,606 | 64,307 | 67,932 | 63,687 | 0 | 0 | 0 | 54,955 |
| 45 to 49 | 390 | 3,506 | 3,243 | 2,726 | 2,947 | 3,696 | 1,404 | 20 | 0 | 0 | 17,932 |
| | 8,767 | 44,834 | 52,700 | 57,763 | 63,242 | 70,782 | 76,054 | 65,987 | 0 | 0 | 58,279 |
| 50 to 54 | 376 | 3,198 | 3,011 | 2,574 | 2,600 | 2,831 | 2,790 | 496 | 8 | 0 | 17,884 |
| | 8,802 | 44,602 | 51,522 | 56,114 | 61,689 | 68,398 | 77,728 | 76,686 | 73,539 | 0 | 58,993 |
| 55 to 59 | 307 | 2,673 | 2,504 | 2,163 | 2,182 | 1,961 | 1,432 | 757 | 180 | 8 | 14,167 |
| | 9,543 | 45,174 | 50,978 | 55,376 | 57,766 | 62,875 | 70,093 | 81,236 | 77,150 | 68,916 | 56,240 |
| 60 to 64 | 136 | 1,561 | 1,800 | 1,610 | 1,571 | 1,339 | 771 | 446 | 238 | 89 | 9,561 |
| | 8,792 | 42,959 | 49,817 | 55,242 | 56,803 | 61,600 | 65,261 | 73,082 | 82,230 | 83,530 | 55,277 |
| 65 to 69 | 50 | 540 | 689 | 588 | 518 | 376 | 229 | 175 | 75 | 75 | 3,315 |
| | 7,288 | 36,304 | 48,554 | 55,315 | 58,773 | 59,840 | 62,678 | 69,451 | 75,436 | 86,710 | 53,563 |
| 70 & Over | 35 | 326 | 298 | 207 | 197 | 127 | 75 | 48 | 38 | 45 | 1,396 |
| | 6,364 | 24,669 | 32,639 | 45,227 | 51,366 | 53,099 | 54,788 | 73,933 | 71,909 | 91,479 | 42,065 |
| Total | 5,245 | 41,666 | 29,405 | 19,055 | 15,529 | 12,069 | 6,730 | 1,942 | 539 | 217 | 132,397 |
| | 8,399 | 42,071 | 50,989 | 56,944 | 61,286 | 66,963 | 73,498 | 76,801 | 78,732 | 85,739 | 51,709 |



Table B-2: The Number and Reported Compensation of Active MembersDistributed by Age as of December 31, 2020

| | | Men | | Women | | |
|-----|--------|--------------|--------|--------------|--|--|
| Age | Number | Compensation | Number | Compensation | | |
| 18 | 10 | 71,440 | 0 | 0 | | |
| 19 | 87 | 1,320,321 | 21 | 339,347 | | |
| 20 | 241 | 5,625,268 | 62 | 1,100,411 | | |
| 21 | 456 | 12,296,021 | 113 | 2,662,812 | | |
| 22 | 738 | 21,787,128 | 320 | 7,137,383 | | |
| 23 | 946 | 30,948,480 | 505 | 13,302,570 | | |
| 24 | 1,219 | 42,795,380 | 731 | 22,092,193 | | |
| 25 | 1,503 | 56,785,228 | 910 | 31,000,999 | | |
| 26 | 1,503 | 59,657,809 | 977 | 34,936,206 | | |
| 27 | 1,662 | 68,869,612 | 1,172 | 44,297,386 | | |
| 28 | 1,826 | 77,468,740 | 1,158 | 45,852,087 | | |
| 29 | 1,847 | 79,893,700 | 1,240 | 48,072,405 | | |
| 30 | 2,005 | 89,211,207 | 1,337 | 53,978,948 | | |
| 31 | 1,921 | 88,868,723 | 1,285 | 52,848,643 | | |
| 32 | 1,895 | 91,543,767 | 1,330 | 57,018,202 | | |
| 33 | 1,878 | 92,738,599 | 1,275 | 56,460,165 | | |
| 34 | 1,943 | 97,840,584 | 1,361 | 60,563,300 | | |
| 35 | 1,925 | 101,237,749 | 1,381 | 62,403,602 | | |
| 36 | 1,888 | 101,578,041 | 1,367 | 63,317,163 | | |
| 37 | 1,823 | 98,436,603 | 1,351 | 62,648,688 | | |
| 38 | 1,882 | 103,616,774 | 1,395 | 68,413,200 | | |
| 39 | 1,903 | 107,331,188 | 1,439 | 69,760,610 | | |
| 40 | 1,837 | 104,953,913 | 1,405 | 68,985,054 | | |
| 41 | 1,756 | 99,896,321 | 1,441 | 70,661,332 | | |
| 42 | 1,783 | 104,685,776 | 1,481 | 76,202,900 | | |
| 43 | 1,724 | 102,589,829 | 1,510 | 78,892,503 | | |
| 44 | 1,866 | 111,929,882 | 1,508 | 77,570,241 | | |
| 45 | 1,778 | 109,104,368 | 1,422 | 73,289,989 | | |
| 46 | 2,006 | 123,401,979 | 1,567 | 82,555,153 | | |
| 47 | 1,970 | 125,480,176 | 1,612 | 84,468,277 | | |
| 48 | 2,018 | 127,181,658 | 1,553 | 80,458,240 | | |
| 49 | 2,280 | 146,610,509 | 1,726 | 92,505,106 | | |
| 50 | 2,295 | 150,756,455 | 1,895 | 101,915,015 | | |
| 51 | 2,044 | 132,309,110 | 1,796 | 96,204,917 | | |
| 52 | 1,868 | 119,571,392 | 1,598 | 82,115,815 | | |
| 53 | 1,801 | 115,080,692 | 1,540 | 82,842,606 | | |
| 54 | 1,587 | 98,003,231 | 1,460 | 76,226,753 | | |
| 55 | 1,498 | 91,739,459 | 1,515 | 79,742,696 | | |



Appendix B: Detailed Tabulation of Member Data

Table B-2: The Number and Reported Compensation of Active MembersDistributed by Age as of December 31, 2020 (continued)

| A = 0 | | Men | | Women | | |
|-------|--------|---------------|--------|---------------|--|--|
| Age | Number | Compensation | Number | Compensation | | |
| 56 | 1,400 | 84,326,101 | 1,459 | 75,698,044 | | |
| 57 | 1,375 | 83,853,382 | 1,506 | 77,692,759 | | |
| 58 | 1,345 | 79,419,922 | 1,437 | 74,984,849 | | |
| 59 | 1,249 | 75,614,702 | 1,383 | 73,683,754 | | |
| 60 | 1,169 | 70,175,651 | 1,353 | 69,461,027 | | |
| 61 | 977 | 58,294,523 | 1,147 | 58,257,795 | | |
| 62 | 912 | 55,467,396 | 1,020 | 51,102,583 | | |
| 63 | 760 | 46,142,229 | 869 | 43,725,433 | | |
| 64 | 659 | 38,933,522 | 695 | 36,939,002 | | |
| 65 | 564 | 33,438,172 | 569 | 27,408,766 | | |
| 66 | 382 | 22,610,058 | 416 | 20,399,554 | | |
| 67 | 288 | 16,281,615 | 269 | 14,159,246 | | |
| 68 | 255 | 14,542,901 | 198 | 9,807,787 | | |
| 69 | 211 | 10,981,776 | 163 | 7,930,273 | | |
| 70 | 163 | 8,772,394 | 137 | 6,595,368 | | |
| 71 | 126 | 5,562,865 | 102 | 4,244,893 | | |
| 72 | 113 | 5,189,546 | 76 | 3,159,012 | | |
| 73 | 74 | 3,125,609 | 70 | 2,896,176 | | |
| 74 | 74 | 3,043,143 | 65 | 2,749,069 | | |
| 75 | 50 | 1,869,040 | 31 | 1,098,413 | | |
| 76 | 36 | 1,275,079 | 23 | 847,259 | | |
| 77 | 38 | 1,471,190 | 35 | 1,272,886 | | |
| 78 | 36 | 1,177,916 | 17 | 712,251 | | |
| 79 | 25 | 637,371 | 6 | 179,282 | | |
| 80 | 22 | 751,009 | 8 | 239,944 | | |
| 81 | 16 | 433,596 | 5 | 95,316 | | |
| 82 | 5 | 121,437 | 3 | 109,756 | | |
| 83 | 7 | 235,560 | 5 | 119,139 | | |
| 84 | 7 | 181,637 | 4 | 121,898 | | |
| 85 | 2 | 81,357 | 1 | 8,327 | | |
| 86 | 3 | 64,760 | 4 | 105,440 | | |
| 88 | 1 | 9,953 | 0 | 0 | | |
| 89 | 0 | 0 | 1 | 38,419 | | |
| 91 | 2 | 69,213 | 0 | 0 | | |
| 92 | 1 | 5,140 | 0 | 0 | | |
| 93 | 1 | 47,127 | 0 | 0 | | |
| 95 | 0 | 0 | 1 | 5,262 | | |
| Total | 73,560 | 4,017,424,004 | 58,837 | 2,828,691,899 | | |



Appendix B: Detailed Tabulation of Member Data

Table B-3: The Number and Reported Compensation of Active MembersDistributed by Service as of December 31, 2020

| Service | | Men | | Women | | |
|---------|--------|--------------|--------|--------------|--|--|
| Service | Number | Compensation | Number | Compensation | | |
| 0 | 2,589 | 21,444,491 | 2,656 | 22,606,691 | | |
| 1 | 6,314 | 222,362,067 | 5,806 | 199,738,912 | | |
| 2 | 5,938 | 263,815,313 | 5,421 | 230,111,520 | | |
| 3 | 5,243 | 243,519,345 | 4,435 | 195,488,561 | | |
| 4 | 4,488 | 215,539,593 | 4,021 | 182,367,998 | | |
| 5 | 3,989 | 200,401,652 | 3,453 | 161,001,675 | | |
| 6 | 3,602 | 187,543,137 | 3,022 | 144,362,766 | | |
| 7 | 3,165 | 166,838,198 | 2,510 | 123,800,608 | | |
| 8 | 2,884 | 158,300,818 | 2,430 | 123,904,055 | | |
| 9 | 2,517 | 140,844,530 | 1,833 | 92,348,089 | | |
| 10 | 2,120 | 120,132,151 | 1,536 | 80,451,604 | | |
| 11 | 2,001 | 119,153,701 | 1,412 | 74,732,462 | | |
| 12 | 2,122 | 125,818,028 | 1,475 | 78,577,717 | | |
| 13 | 2,568 | 156,425,321 | 1,876 | 100,322,353 | | |
| 14 | 2,283 | 138,550,253 | 1,662 | 90,895,709 | | |
| 15 | 2,174 | 135,121,855 | 1,578 | 88,615,426 | | |
| 16 | 2,099 | 133,703,383 | 1,397 | 79,479,871 | | |
| 17 | 1,808 | 115,399,929 | 1,306 | 74,372,402 | | |
| 18 | 1,549 | 101,883,375 | 1,035 | 59,977,823 | | |
| 19 | 1,454 | 97,571,733 | 1,129 | 65,580,324 | | |
| 20 | 1,576 | 106,801,951 | 1,138 | 65,969,161 | | |
| 21 | 1,528 | 107,366,874 | 1,148 | 68,814,111 | | |
| 22 | 1,528 | 109,230,750 | 1,029 | 62,143,276 | | |
| 23 | 1,297 | 95,142,076 | 880 | 55,355,445 | | |
| 24 | 1,212 | 90,722,548 | 733 | 46,634,524 | | |
| 25 | 1,047 | 80,940,192 | 685 | 43,008,529 | | |
| 26 | 986 | 76,647,346 | 641 | 42,431,514 | | |
| 27 | 876 | 69,601,967 | 556 | 36,333,705 | | |
| 28 | 689 | 57,137,143 | 414 | 27,011,906 | | |
| 29 | 464 | 37,237,931 | 372 | 24,289,579 | | |
| 30 | 324 | 25,928,197 | 275 | 19,238,123 | | |



Table B-3: The Number and Reported Compensation of Active MembersDistributed by Service as of December 31, 2020 (continued)

| Service | | Men | | Women | | |
|---------|--------|---------------|--------|---------------------|--|--|
| Service | Number | Compensation | Number | Number Compensation | | |
| 31 | 239 | 19,558,085 | 193 | 13,148,280 | | |
| 32 | 201 | 17,077,237 | 179 | 12,769,982 | | |
| 33 | 166 | 14,088,384 | 153 | 11,353,732 | | |
| 34 | 124 | 10,183,329 | 88 | 5,802,892 | | |
| 35 | 84 | 6,747,375 | 88 | 6,372,255 | | |
| 36 | 92 | 8,149,355 | 62 | 4,765,143 | | |
| 37 | 42 | 3,133,518 | 44 | 3,004,397 | | |
| 38 | 43 | 4,002,517 | 28 | 1,866,358 | | |
| 39 | 32 | 2,832,692 | 24 | 1,562,814 | | |
| 40 | 29 | 2,712,175 | 32 | 2,199,868 | | |
| 41 | 16 | 1,578,623 | 11 | 996,873 | | |
| 42 | 16 | 1,694,671 | 13 | 738,294 | | |
| 43 | 15 | 1,315,235 | 13 | 797,764 | | |
| 44 | 8 | 770,434 | 12 | 896,177 | | |
| 45 | 8 | 1,045,704 | 8 | 494,274 | | |
| 46 | 3 | 316,088 | 3 | 335,884 | | |
| 47 | 1 | 192,241 | 4 | 248,107 | | |
| 48 | 1 | 176,595 | 3 | 150,705 | | |
| 49 | 1 | 68,639 | 6 | 473,730 | | |
| 50 | 1 | 142,899 | 3 | 275,316 | | |
| 51 | 2 | 251,536 | 2 | 216,110 | | |
| 52 | 1 | 159,352 | 0 | 0 | | |
| 53 | 1 | 101,472 | 0 | 0 | | |
| 54 | 0 | 0 | 1 | 97,407 | | |
| 55 | 0 | 0 | 1 | 50,366 | | |
| 59 | 0 | 0 | 1 | 51,652 | | |
| 66 | 0 | 0 | 1 | 57,080 | | |
| Total | 73,560 | 4,017,424,004 | 58,837 | 2,828,691,899 | | |



Appendix B: Detailed Tabulation of Member Data

Table B-4: The Number and Accumulated Contributions of Terminated Vested Members Distributed by Age as of December 31, 2020

| | | Men | | Women | | |
|-----|--------|---------------|--------|---------------|--|--|
| Age | Number | Contributions | Number | Contributions | | |
| 19 | 11 | 5,760 | 5 | 3,949 | | |
| 20 | 41 | 37,124 | 12 | 9,763 | | |
| 21 | 101 | 128,872 | 28 | 24,704 | | |
| 22 | 217 | 313,012 | 92 | 108,153 | | |
| 23 | 313 | 641,068 | 149 | 240,061 | | |
| 24 | 433 | 837,581 | 242 | 416,633 | | |
| 25 | 591 | 1,414,472 | 361 | 863,158 | | |
| 26 | 688 | 1,864,832 | 465 | 1,286,804 | | |
| 27 | 800 | 2,552,131 | 585 | 1,761,350 | | |
| 28 | 849 | 3,309,654 | 701 | 2,516,539 | | |
| 29 | 975 | 4,013,998 | 817 | 3,526,601 | | |
| 30 | 1,026 | 5,386,023 | 901 | 4,120,705 | | |
| 31 | 1,168 | 6,718,765 | 928 | 4,552,709 | | |
| 32 | 1,108 | 7,105,831 | 1,026 | 5,531,321 | | |
| 33 | 1,125 | 7,443,182 | 1,074 | 6,128,070 | | |
| 34 | 1,208 | 9,347,557 | 1,104 | 6,897,158 | | |
| 35 | 1,184 | 10,396,797 | 1,116 | 8,308,583 | | |
| 36 | 1,284 | 11,621,581 | 1,257 | 9,924,757 | | |
| 37 | 1,149 | 10,852,640 | 1,198 | 10,722,758 | | |
| 38 | 1,241 | 12,974,599 | 1,239 | 11,206,875 | | |
| 39 | 1,177 | 13,423,439 | 1,231 | 12,133,780 | | |
| 40 | 1,120 | 12,905,561 | 1,310 | 13,190,503 | | |
| 41 | 1,119 | 14,369,509 | 1,368 | 14,150,533 | | |
| 42 | 1,026 | 13,709,446 | 1,376 | 16,075,955 | | |
| 43 | 1,066 | 15,026,666 | 1,325 | 15,873,629 | | |
| 44 | 1,106 | 16,148,516 | 1,251 | 15,753,949 | | |
| 45 | 1,018 | 15,571,586 | 1,256 | 16,461,358 | | |
| 46 | 1,037 | 17,506,498 | 1,346 | 17,961,937 | | |
| 47 | 1,058 | 18,531,602 | 1,328 | 19,637,970 | | |
| 48 | 1,081 | 19,465,426 | 1,300 | 20,448,398 | | |
| 49 | 1,107 | 20,368,174 | 1,280 | 20,537,508 | | |
| 50 | 1,204 | 21,639,135 | 1,435 | 22,965,464 | | |
| 51 | 1,127 | 20,757,379 | 1,332 | 21,440,006 | | |
| 52 | 986 | 18,201,176 | 1,231 | 21,095,121 | | |
| 53 | 898 | 16,408,597 | 1,117 | 18,792,002 | | |
| 54 | 922 | 16,145,507 | 1,060 | 17,405,344 | | |
| 55 | 844 | 14,220,884 | 1,064 | 18,722,916 | | |



Table B-4: The Number and Accumulated Contributions of Terminated VestedMembers Distributed by Age as of December 31, 2020 (continued)

| A === | | Men | | Women |
|--------------|--------|---------------|--------|---------------|
| Age | Number | Contributions | Number | Contributions |
| 56 | 882 | 16,843,923 | 1,051 | 19,528,955 |
| 57 | 776 | 15,416,845 | 1,061 | 19,355,607 |
| 58 | 723 | 12,800,597 | 1,051 | 20,210,031 |
| 59 | 763 | 15,405,846 | 1,014 | 20,050,291 |
| 60 | 639 | 12,245,667 | 902 | 18,080,138 |
| 61 | 514 | 10,597,787 | 745 | 15,482,405 |
| 62 | 413 | 8,321,630 | 681 | 14,181,716 |
| 63 | 403 | 7,826,359 | 628 | 12,032,905 |
| 64 | 384 | 6,639,091 | 499 | 10,230,219 |
| 65 | 310 | 5,715,774 | 433 | 7,388,953 |
| 66 | 258 | 3,716,225 | 324 | 5,248,772 |
| 67 | 209 | 3,066,759 | 265 | 4,254,094 |
| 68 | 167 | 2,128,503 | 243 | 4,032,981 |
| 69 | 167 | 2,038,898 | 195 | 2,434,503 |
| 70 | 110 | 974,382 | 173 | 2,656,056 |
| 71 | 104 | 759,308 | 125 | 1,734,966 |
| 72 | 42 | 263,563 | 43 | 395,989 |
| 73 | 41 | 288,129 | 32 | 469,435 |
| 74 | 35 | 261,242 | 19 | 105,826 |
| 75 | 26 | 190,440 | 15 | 107,714 |
| 76 | 11 | 53,106 | 5 | 38,725 |
| 77 | 7 | 26,418 | 5 | 73,185 |
| 78 | 15 | 205,739 | 10 | 81,517 |
| 79 | 10 | 15,714 | 5 | 7,941 |
| 80 | 6 | 24,726 | 4 | 57,310 |
| 81 | 7 | 99,039 | 0 | 0 |
| 82 | 4 | 8,942 | 4 | 30,724 |
| 83 | 1 | 10,677 | 4 | 12,976 |
| 84 | 2 | 9,673 | 0 | 0 |
| 85 | 6 | 74,028 | 3 | 27,640 |
| 86 | 2 | 3,169 | 6 | 31,680 |
| 87 | 2 | 7,422 | 0 | 0 |
| 88 | 4 | 5,576 | 1 | 50,361 |
| 89 | 2 | 4,937 | 0 | 0 |
| 91 | 2 | 4,428 | 0 | 0 |
| 94 | 0 | 0 | 1 | 288 |
| 100+ | 2 | 574 | 0 | 0 |
| Total | 40,457 | 507,419,716 | 44,457 | 559,190,927 |



Table B-5: The Number and Annual Retirement Allowances ofRetired Members (Healthy at Retirement) and Survivors of Deceased MembersDistributed by Age as of December 31, 2020

| | Men | | Women | |
|-----|--------|------------|--------|------------|
| Age | Number | Allowances | Number | Allowances |
| <20 | 4 | 45,366 | 1 | 20,786 |
| 20 | 0 | 0 | 2 | 33,495 |
| 21 | 5 | 41,849 | 0 | 0 |
| 22 | 2 | 35,793 | 0 | 0 |
| 23 | 4 | 35,238 | 2 | 67,999 |
| 24 | 2 | 23,778 | 1 | 5,417 |
| 26 | 1 | 7,872 | 1 | 26,660 |
| 27 | 1 | 11,727 | 1 | 5,412 |
| 28 | 2 | 16,221 | 6 | 54,559 |
| 29 | 4 | 59,886 | 5 | 71,371 |
| 30 | 2 | 14,522 | 6 | 86,023 |
| 31 | 5 | 65,070 | 4 | 22,705 |
| 32 | 0 | 0 | 7 | 59,160 |
| 33 | 7 | 55,686 | 6 | 43,459 |
| 34 | 5 | 52,746 | 4 | 55,827 |
| 35 | 6 | 52,276 | 3 | 31,157 |
| 36 | 8 | 104,999 | 7 | 55,660 |
| 37 | 6 | 118,146 | 5 | 62,483 |
| 38 | 6 | 80,033 | 11 | 95,512 |
| 39 | 10 | 102,049 | 9 | 87,863 |
| 40 | 11 | 114,301 | 9 | 111,821 |
| 41 | 7 | 41,553 | 11 | 128,160 |
| 42 | 8 | 87,128 | 17 | 243,980 |
| 43 | 7 | 54,093 | 13 | 162,634 |
| 44 | 7 | 64,487 | 10 | 79,762 |
| 45 | 9 | 67,545 | 16 | 184,476 |
| 46 | 7 | 111,767 | 24 | 231,006 |
| 47 | 15 | 202,114 | 20 | 201,359 |
| 48 | 22 | 542,881 | 20 | 310,526 |
| 49 | 55 | 1,806,466 | 32 | 624,475 |
| 50 | 130 | 3,901,293 | 59 | 1,125,589 |
| 51 | 234 | 7,625,820 | 104 | 2,080,626 |
| 52 | 332 | 11,563,064 | 120 | 2,929,566 |
| 53 | 411 | 13,770,609 | 171 | 4,314,897 |
| 54 | 523 | 18,892,188 | 233 | 5,860,389 |
| 55 | 583 | 19,161,816 | 262 | 6,734,967 |
| 56 | 740 | 23,756,919 | 365 | 9,306,811 |
| 57 | 882 | 27,745,571 | 413 | 11,041,679 |
| 58 | 802 | 25,020,919 | 455 | 11,924,086 |
| 59 | 873 | 27,164,944 | 547 | 15,333,363 |
| 60 | 925 | 28,041,184 | 674 | 17,353,545 |

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Table B-5: The Number and Annual Retirement Allowances ofRetired Members (Healthy at Retirement) and Survivors of Deceased MembersDistributed by Age as of December 31, 2020 (continued)

| | | Men | | Women |
|-------|--------|-------------|--------|-------------|
| Age | Number | Allowances | Number | Allowances |
| 61 | 989 | 29,018,625 | 855 | 20,908,170 |
| 62 | 1,029 | 28,042,553 | 968 | 21,996,903 |
| 63 | 1,099 | 28,296,411 | 1,172 | 24,417,422 |
| 64 | 1,258 | 32,104,405 | 1,267 | 25,053,170 |
| 65 | 1,285 | 31,290,135 | 1,362 | 25,629,307 |
| 66 | 1,437 | 34,756,604 | 1,591 | 28,177,310 |
| 67 | 1,479 | 35,086,686 | 1,623 | 28,624,611 |
| 68 | 1,498 | 34,565,884 | 1,705 | 29,718,404 |
| 69 | 1,517 | 34,293,681 | 1,724 | 27,233,134 |
| 70 | 1,532 | 32,813,179 | 1,649 | 26,504,598 |
| 71 | 1,388 | 30,108,799 | 1,614 | 26,263,460 |
| 72 | 1,392 | 29,197,619 | 1,584 | 24,593,355 |
| 73 | 1,377 | 27,399,726 | 1,564 | 23,924,667 |
| 74 | 1,403 | 27,691,224 | 1,614 | 24,380,602 |
| 75 | 892 | 17,378,763 | 1,158 | 16,943,818 |
| 76 | 896 | 17,252,373 | 1,095 | 16,540,570 |
| 77 | 726 | 13,347,850 | 977 | 13,473,082 |
| 78 | 785 | 14,824,974 | 1,032 | 14,151,267 |
| 79 | 589 | 10,063,554 | 850 | 11,336,740 |
| 80 | 512 | 9,356,137 | 730 | 9,444,310 |
| 81 | 484 | 8,265,982 | 706 | 9,255,593 |
| 82 | 402 | 6,911,214 | 665 | 8,775,837 |
| 83 | 392 | 6,697,671 | 560 | 7,019,283 |
| 84 | 363 | 6,290,002 | 551 | 6,506,272 |
| 85 | 306 | 5,385,674 | 476 | 6,201,972 |
| 86 | 261 | 4,153,056 | 437 | 5,407,401 |
| 87 | 222 | 3,049,615 | 377 | 4,297,108 |
| 88 | 180 | 2,865,549 | 347 | 3,996,206 |
| 89 | 160 | 2,428,286 | 312 | 3,482,750 |
| 90 | 114 | 1,542,362 | 273 | 3,350,771 |
| 91 | 86 | 1,274,606 | 211 | 2,163,557 |
| 92 | 77 | 1,065,276 | 182 | 2,306,606 |
| 93 | 60 | 1,032,966 | 154 | 1,623,382 |
| 94 | 43 | 532,227 | 141 | 1,423,185 |
| 95 | 23 | 277,804 | 70 | 917,021 |
| 96 | 21 | 300,053 | 51 | 406,485 |
| 97 | 13 | 162,359 | 50 | 576,226 |
| 98 | 8 | 119,169 | 24 | 230,686 |
| 99 | 8 | 92,408 | 28 | 249,181 |
| 100+ | 6 | 134,041 | 45 | 368,742 |
| Total | 32,975 | 780,129,421 | 35,450 | 599,042,429 |

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Table B-6: The Number and Annual Retirement Allowances of Retired Members
(Healthy at Retirement) and Survivors of Deceased Members Distributed by
Annuity Type as of December 31, 2020

| Annuity Type | | Men | ٧ | Nomen |
|--|--------|---------------|--------|---------------|
| Annuny Type | Number | Allowances | Number | Allowances |
| 0:Maximum | 10,352 | \$220,001,257 | 17,859 | \$295,561,943 |
| 1:Option 1: 10-year guaranteed | 179 | 3,738,627 | 248 | 2,917,129 |
| 2:Option 2: 100% joint and survivor | 7,641 | 180,280,356 | 2,165 | 33,345,084 |
| 3:Option 3: 50% joint and survivor | 1,969 | 51,712,258 | 1,048 | 19,735,424 |
| 4:Option 4: Social security leveling | 2,587 | 64,102,248 | 3,258 | 65,484,033 |
| 5:Option 5- 2:100% joint and surv. | 29 | 571,125 | 8 | 51,553 |
| 6:Option 5-3: 50% joint and surv. | 12 | 398,164 | 11 | 198,258 |
| 7:Option 6-2: 100% joint and surv. w/ pop-up | 6,871 | 183,208,086 | 2,858 | 56,725,291 |
| 8:Option 6-3: 50% joint and surv. w/ pop-up | 2,234 | 64,472,757 | 1,931 | 44,919,027 |
| 9:Special | 4 | 117,711 | 0 | 0 |
| 3:Survivor | 1,097 | \$ 11,526,832 | 6,064 | \$ 80,104,687 |
| Total | 32,975 | \$780,129,421 | 35,450 | \$599,042,429 |



Table B-7: The Number and Annual Retirement Allowances of Retired Members(Disabled at Retirement) Distributed by Age of December 31, 2020

| | | Men | V | Vomen |
|-----|--------|------------|--------|------------|
| Age | Number | Allowances | Number | Allowances |
| 28 | 1 | 23,629 | 0 | 0 |
| 29 | 2 | 49,408 | 1 | 22,526 |
| 30 | 2 | 46,390 | 0 | 0 |
| 31 | 4 | 75,265 | 0 | 0 |
| 32 | 4 | 86,085 | 1 | 21,424 |
| 33 | 7 | 182,549 | 1 | 22,469 |
| 34 | 4 | 80,231 | 5 | 104,150 |
| 35 | 7 | 181,814 | 5 | 117,403 |
| 36 | 12 | 280,860 | 1 | 31,810 |
| 37 | 14 | 315,684 | 6 | 114,478 |
| 38 | 19 | 409,721 | 7 | 151,845 |
| 39 | 19 | 388,061 | 5 | 117,589 |
| 40 | 26 | 582,039 | 12 | 299,283 |
| 41 | 34 | 790,149 | 7 | 153,826 |
| 42 | 41 | 866,918 | 13 | 326,040 |
| 43 | 33 | 752,439 | 19 | 363,915 |
| 44 | 44 | 1,013,714 | 23 | 437,233 |
| 45 | 67 | 1,594,606 | 20 | 413,664 |
| 46 | 51 | 1,142,821 | 26 | 518,259 |
| 47 | 66 | 1,472,540 | 29 | 605,107 |
| 48 | 68 | 1,584,312 | 39 | 847,695 |
| 49 | 117 | 2,691,473 | 54 | 1,241,716 |
| 50 | 129 | 2,966,025 | 52 | 1,051,011 |
| 51 | 125 | 2,784,181 | 69 | 1,384,412 |
| 52 | 135 | 3,166,727 | 63 | 1,219,329 |
| 53 | 106 | 2,321,197 | 78 | 1,709,671 |
| 54 | 151 | 3,275,659 | 84 | 1,767,829 |
| 55 | 160 | 3,370,225 | 98 | 1,864,225 |
| 56 | 149 | 3,265,648 | 90 | 1,843,327 |
| 57 | 179 | 3,754,541 | 121 | 2,438,880 |
| 58 | 189 | 3,801,363 | 104 | 1,929,898 |
| 59 | 191 | 3,580,747 | 140 | 2,652,724 |
| 60 | 171 | 3,164,843 | 132 | 2,363,609 |
| 61 | 181 | 3,293,166 | 142 | 2,628,585 |
| 62 | 166 | 3,102,280 | 167 | 2,749,645 |
| 63 | 165 | 2,892,542 | 141 | 2,451,073 |
| 64 | 200 | 3,638,653 | 152 | 2,416,314 |

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Table B-7: The Number and Annual Retirement Allowances of Retired Members(Disabled at Retirement) Distributed by Age of December 31, 2020 (continued)

| A | | Men | ٧ | Vomen |
|-------|--------|-------------|--------|------------|
| Age | Number | Allowances | Number | Allowances |
| 65 | 187 | 3,446,959 | 164 | 2,708,512 |
| 66 | 205 | 3,887,421 | 137 | 2,288,294 |
| 67 | 185 | 3,749,795 | 138 | 2,223,564 |
| 68 | 172 | 3,505,706 | 120 | 1,892,568 |
| 69 | 202 | 4,592,496 | 143 | 2,241,354 |
| 70 | 173 | 3,585,573 | 101 | 1,656,237 |
| 71 | 175 | 3,938,786 | 103 | 1,519,914 |
| 72 | 171 | 3,521,114 | 106 | 1,629,646 |
| 73 | 156 | 3,364,489 | 88 | 1,242,845 |
| 74 | 144 | 3,021,135 | 96 | 1,378,657 |
| 75 | 115 | 2,338,433 | 79 | 1,066,061 |
| 76 | 115 | 2,322,903 | 70 | 928,645 |
| 77 | 77 | 1,542,401 | 75 | 945,773 |
| 78 | 73 | 1,505,066 | 67 | 892,202 |
| 79 | 46 | 964,038 | 34 | 344,101 |
| 80 | 56 | 1,012,952 | 41 | 565,803 |
| 81 | 36 | 637,676 | 39 | 480,889 |
| 82 | 35 | 655,908 | 31 | 368,899 |
| 83 | 27 | 413,759 | 22 | 253,729 |
| 84 | 22 | 433,753 | 17 | 189,885 |
| 85 | 23 | 375,510 | 18 | 175,392 |
| 86 | 13 | 207,233 | 7 | 74,437 |
| 87 | 12 | 164,476 | 13 | 121,813 |
| 88 | 7 | 102,387 | 6 | 46,326 |
| 89 | 8 | 88,979 | 5 | 32,811 |
| 90 | 6 | 95,053 | 4 | 45,197 |
| 91 | 4 | 84,819 | 4 | 38,848 |
| 92 | 1 | 21,741 | 0 | 0 |
| 93 | 1 | 23,072 | 2 | 17,551 |
| 94 | 1 | 19,847 | 1 | 3,844 |
| 95 | 1 | 24,757 | 1 | 5,028 |
| 96 | 0 | 0 | 1 | 10,529 |
| 97 | 1 | 9,045 | 1 | 6,340 |
| 100 | 0 | 0 | 1 | 6,395 |
| Total | 5,489 | 112,645,787 | 3,642 | 61,783,053 |



Table B-8: The Number and Annual Retirement Allowances of Retired Members(Disabled at Retirement) Distributed byAnnuity Type of December 31, 2020

| Annuity Type | | Men | v | lomen |
|--|--------|---------------|--------|--------------|
| Annuny Type | Number | Allowances | Number | Allowances |
| 0:Maximum | 3,772 | \$ 81,848,042 | 3,123 | \$53,545,407 |
| 1:Option 1: 10-year guaranteed | 100 | 2,128,202 | 49 | 749,330 |
| 2:Option 2: 100% joint and survivor | 420 | 6,894,849 | 89 | 1,187,394 |
| 3:Option 3: 50% joint and survivor | 348 | 5,900,671 | 82 | 1,287,530 |
| 4:Option 4: Social security leveling | 8 | 227,601 | 8 | 143,375 |
| 5:Option 5- 2:100% joint and surv. | 4 | 81,403 | 0 | 0 |
| 6:Option 5-3: 50% joint and surv. | 7 | 88,024 | 1 | 7,003 |
| 7:Option 6-2: 100% joint and surv. w/ pop-up | 400 | 7,172,408 | 116 | 1,864,411 |
| 8:Option 6-3: 50% joint and surv. w/ pop-up | 423 | 8,154,066 | 174 | 2,998,603 |
| 9:Special | 7 | 150,521 | 0 | 0 |
| Total | 5,489 | \$112,645,787 | 3,642 | \$61,783,053 |



Table B-9: The Number and Annual Retirement Allowances of Retired Membersand Survivors of Deceased Members Distributed by Amount of
Annual Retirement Allowance of December 31, 2020

| Amount of Annual Retirement Allowance | Number of Retired Members and Survivors | Sum of Annual Retirement Allowances |
|---|---|---|
| \$0 -\$ 4,999 | 9,662 | \$ 30,177,689 |
| \$5,000 - \$9,999 | 13,542 | 101,320,557 |
| \$10,000 - \$14,999 | 12,133 | 151,096,336 |
| \$15,000 - \$19,999 | 10,124 | 176,431,857 |
| \$20,000 - \$24,999 | 8,547 | 191,819,799 |
| \$25,000 - \$29,999 | 6,899 | 189,084,077 |
| \$30,000 - \$34,999 | 5,197 | 168,322,551 |
| \$35,000 - \$39,999 | 3,854 | 144,061,192 |
| \$40,000 -\$ 44,999 | 2,583 | 109,314,961 |
| \$45,000 - \$49,999 | 1,704 | 80,656,017 |
| \$50,000 & over | 3,311 | 211,315,654 |
| Total | 77,556 | \$ 1,553,600,690 |



The following summary presents the main benefit and contribution provisions of the system, as interpreted in preparing the actuarial valuation. Items in parentheses in the text are the provisions applicable only to law enforcement officers. As used in the summary, "average final compensation" means the average annual compensation of a member during the four consecutive calendar years of creditable service producing the highest such average. "Membership service" means service represented by regular contributions. "Prior service" means service prior to the date of participation of the employer for which credit is allowed. "Creditable service" means the sum of prior service plus membership service. "Creditable service" may also include certain special purchased service.

BENEFITS

Unreduced Retirement Allowance

Condition for Allowance

An unreduced retirement allowance is payable to any member who retires from service after attaining age 65 (55), or after age 60 and completion of 25 years of creditable service, or after completion of 30 years of creditable service.

1.85% of average final compensation multiplied by the number of years of creditable service.

Reduced Retirement Allowance

Amount of Allowance

Condition for Allowance

A reduced retirement allowance is payable to any member who retires from service after attaining age 60 (50) and completion of 5 (15) years of creditable service (or in the case of a firefighter or rescue squad worker, after attaining age 55 and five years of creditable service), but prior to becoming eligible for an unreduced retirement allowance.

Amount of Allowance The member's reduced retirement allowance is equal to 1.85% of average final compensation multiplied by the number of years of creditable service at the date of retirement reduced by 1/4 of 1% for each month by which the member's age at retirement is less than age 65 (55).

If a firefighter has not attained age 60 nor completed 30 or more years of service at the time of retirement, his or her allowance is the actuarial equivalent of the allowance payable at age 60.

OR

Condition for Allowance A reduced retirement allowance is payable to any member who retires from service after age 50 and completion of 20 (15) years of creditable service, but prior to becoming eligible for a reduced or unreduced retirement allowance.



| Amount of Allowance | The member's reduced retirement allowance is equal to 1.85% of average final compensation multiplied by the number of years of creditable service at date of retirement reduced by the lesser of: |
|---------------------------------|--|
| | (i) 5/12 (1/3) of 1% for each month by which age is less than 60 (55), plus, if the member is not a law enforcement officer, 1/4 of 1% for each month by which age 60 is less than 65. |
| | (ii) 5% times the difference between 30 years and creditable service at retirement. |
| | OR |
| Condition for Allowance | A reduced retirement allowance is payable to any law enforcement officer who retires from service at any age with 25 years of service (15 years as an officer), but prior to becoming eligible for a reduced or unreduced retirement allowance. |
| Amount of Allowance | The member's reduced retirement allowance is equal to 1.85% of average final compensation multiplied by the number of years of creditable service at date of retirement reduced by the lesser of: |
| | (i) 1/3 of 1% for each month by which his or her age is less than 55, |
| | (ii) 5% times the difference between 30 years and creditable service at retirement plus 4% times the difference between age 50 and the member's age at retirement. |
| Disability Retirement Allowance | |
| Condition for Allowance | A disability retirement allowance may be granted to a member who becomes totally and permanently incapacitated for duty before becoming eligible for an unreduced retirement allowance, and who had five or more years of creditable service. A law enforcement officer, firefighter or rescue squad worker who becomes totally and permanently disabled as the natural and proximate result of an accident occurring in the actual performance of duty may also be retired on a disability retirement allowance. |
| Amount of Allowance | On retirement for disability a member receives a service retirement allowance after attaining age 65 (55) or attaining age 60 and completion of 25 years of creditable service or completion of 30 years of creditable service; otherwise the allowance is equal to the retirement allowance calculated on the basis of average final compensation at time of disability retirement and service projected to the earliest age at which the member would have qualified for an unreduced retirement allowance except that any member who had five years of creditable service on or before July 1, 1982 shall have service projected to age 65. |



| Deferred Retirement Allowance | Any member who separates from service after completing five or more years of membership service prior to becoming eligible for an unreduced or reduced retirement allowance and who leaves his or her total accumulated contributions in the system may receive a deferred retirement allowance, beginning at age 60 (55), computed in the same way as a reduced retirement allowance, or, if the member has 20 (15) or more years of service, at age 50 computed in the same way as a reduced service retirement allowance, on the basis of creditable service and compensation to the date of separation. |
|-------------------------------|---|
| Return of Contributions | Upon the withdrawal of a member without a retirement allowance and upon request, the member's accumulated contributions are returned to him or her, together with accumulated regular interest. |
| | Upon the death of a member before retirement, his or her accumulated contributions, together with the full accumulated regular interest thereon, are paid to the estate or to person(s) designated by the member provided no survivor's alternate benefit is payable. |
| | The current interest rate on member contributions is 4%. |
| Survivor's Alternate Benefit | Upon the death of a member in service who has attained age 60 (55) and completed five years of creditable service, or completed 20 years of creditable service (or attained age 50 and completed 15 years of creditable service), the designated beneficiary may elect to receive a benefit equal to that which would have been payable under the provisions of Option 2 had the member retired on the first day of the month following his or her death and elected such option, in lieu of the member's accumulated contributions, provided the member had not instructed the Board of Trustees in writing that he or she did not wish the alternate benefit to apply. Law Enforcement Officers, Firefighters and Rescue Squad Workers are eligible for this benefit at any age after 15 years of creditable service if death occurs in the line of duty, |
| Death After Retirement | Upon the death of a beneficiary who did not retire under an effective election of Options 2, 3, 5, or 6, an amount equal to the excess, if any, of his or her accumulated contributions at retirement over the retirement allowance payments received is paid to a designated person or to the beneficiary's estate. |
| | Upon the death of the survivor of a beneficiary who retired under an effective election of Options 2, 3, 5, or 6, an amount equal to the excess, if any, of the beneficiary's accumulated contributions at retirement over the total retirement allowance payments received is paid to such other person designated by the beneficiary or to the beneficiary's estate. |
| | Upon the death of a beneficiary, a benefit may be provided by the Retiree's Contributory Death Benefit Plan. |

Appendix C: Summary of Main Benefit & Contribution Provision

| Other Death Benefits | Upon the death of a member in service, other benefits may be provided by the Death Benefit Plan or Separate Insurance Benefit Plan for Law Enforcement Officers. |
|--|--|
| Optional Arrangements at Retirement | In lieu of the full retirement allowance any member may, until the first payment of his or her allowance becomes normally due, elect to receive a reduced retirement allowance equal in value to the full allowance with the provision that: |
| | Option 1 - A member retiring prior to July 1, 1993, may elect that at his or her death within 10 years from retirement date, an amount equal to his or her accumulated contributions at retirement, less 1/120 for each month the member has received a retirement allowance, is paid to the estate, or to person(s) designated by the member, or |
| | Option 2 - At the death of the member his or her allowance shall be continued throughout the life of such other person as the member shall have designated at the time of retirement, or |
| | Option 3 - At the death of the member one-half of his or her allowance shall be continued throughout the life of such other person as the member shall have designated at the time of retirement. |
| | Option 4 - A member may elect to receive a retirement allowance in such amount that, together with his or her Social Security benefit, he or she will receive approximately the same income per annum before and after the earliest age at which he or she becomes eligible to receive the Social Security benefit. |
| | Option 5 - A member retiring prior to July 1, 1993 may elect to receive a reduced retirement allowance under the provisions of Option 2 or Option 3 in conjunction with the provisions of Option 1. |
| | Option 6 - The member may elect Option 2 or 3 with the added provision that should the designated beneficiary predecease the member, the allowance which would have been payable to the member had he not elected the option will be payable thereafter. |
| Post-Retirement Increases in Allowance | Future increases in allowances may be granted by the Board of Trustees or the State in accordance with G.S. 128- 27(k). |



| Service Reciprocity | For the purpose of determining eligibility for a deferred, reduced or unreduced service retirement allowance, the membership and creditable service of a member shall include such prior service earned as a member of the Teachers' and State Employees' Retirement System (TSERS), the Consolidated Judicial Retirement System (CJRS), or the Legislative Retirement System (LRS). In addition, if the member's accumulated contributions and reserves are transferred from the prior System to this System, the creditable service earned as a member of the prior System may be included for purposes of determining the amount of benefits payable under this System. |
|---------------------|--|
| Military Service | Periods of active duty in the United States military may be counted as creditable service if the member was an employee upon entering the military and returned to employment within two years of discharge or for a period of 10 additional years. |
| Service Purchases | Additional creditable service may include service that the member purchased to restore a period of service for which the member (1) received a refund of contributions, (2) had a leave of absence for educational purposes, extended illness or parental or maternity reasons, (3) had full-time temporary or part-time local or State government employment, (4) was in a probationary or waiting period with a unit of the LGERS, (5) had a leave of absence under Workers' Compensation, (6) performed service with a unit of local government not covered by LGERS, (7) performed service with the federal government not covered by any other retirement system, (8) performed service with a public community service entity funded entirely with federal funds, (9) performed service as a member of the General Assembly, (10) performed service as a member of a charter school not participating in the system, (11) was employed by The University of North Carolina and participated in the Optional Retirement Program but not eligible to receive any benefits from that program, or (12) performed service which was omitted by reason of error. |
| Unused Sick Leave | Unused sick leave counts as creditable service at retirement. Sick leave which was converted from unused vacation leave is also creditable. One month of credit is allowed for each 20 days of unused sick leave, plus an additional month for any part of 20 days left over. |



Transfer of Defined Contribution Balances (Special Retirement Allowances)

A member may make a one-time election to transfer any portion of their eligible accumulated contributions to this plan on or after retirement. Eligible accumulated contributions are those from the Supplemental Retirement Income Plan or Public Employee Deferred Compensation Plan, not including Roth after-tax contributions. A member who became a member of the Supplemental Retirement Income Plan prior to retirement and who remains a member of the Supplemental Retirement Income Plan may also make a one-time election to transfer eligible balances, not including any Roth after-tax contributions, from any of the following plans to the Supplemental Retirement Income Plan, subject to the applicable requirements of the Supplemental Retirement Income Plan, and then through the Supplemental Retirement Income Plan to this Retirement System:

- (1) A plan participating in the North Carolina Public School Teachers' and Professional Educators' Investment Plan.
- (2) A plan described in section 403(b) of the Internal Revenue Code.
- (3) A plan described in section 457(b) of the Internal Revenue Code that is maintained by a state, political subdivision of a state, or any agency or instrumentality of a state or political subdivision of a state.
- (4) An individual retirement account or annuity described in Section 408(a) or 408(b) of the Internal Revenue Code that is eligible to be rolled over and would otherwise be includible in gross income.
- (5) A tax-qualified plan described in section 401(a) or 403(a) of the Internal Revenue Code.

The member may elect to convert the accumulated contributions to a life annuity with or without annual increases equal to the annual increase in the U.S. Consumer Price Index. Any ad-hoc COLA increases granted will not apply to benefits under this section. A member may elect Options 2, 3, or 6 under the Plan and may also elect either a guaranteed number of months of payments or a guarantee of total payments at least equal to the amount of contributions transferred to the Plan. In addition, any transfer may be paid in whole or in part with employer contributions paid directly to the Retirement System at the time of transfer.

| Contributions | |
|-------------------------------|---|
| By Members | Members contribute 6% of compensation. |
| By Employers | Participating employers make annual contributions consisting of a normal contribution and an accrued liability contribution. The normal contribution covers the liability on account of current service and is determined by the actuary after each valuation. The accrued liability contribution rate is determined based on eliminating the unfunded actuarial accrued liability over a 12- year period. Some employers have additional prior service |
| | contributions. The minimum total employer contribution rate is 6.00%. |
| Changes Since Prior Valuation | None. |



Assumptions are based on the experience investigation prepared as of December 31, 2019 and adopted by the Board of Trustees on January 28, 2021 for use beginning with the December 31, 2020 annual actuarial valuation.

Interest Rate: 6.50% per annum, compounded annually.

Price Inflation: 2.50% per annum, compounded annually.

Real Wage Growth: 0.75% per annum.

Payroll Growth: 3.25% per annum.

Separations From Active Service: Representative values of the assumed rates of separation from active service are as follows:

| Annual Rates of Withdrawal | | | | | | | | | |
|----------------------------|---|------------|---------------|-----------|--------|--------|--|--|--|
| | | Up to five | e years of me | embership | | | | | |
| | General Firefighters & Rescue Law Enforcement Employees Squad Workers Officers | | | | | | | | |
| Service | Male | Female | Male | Female | Male | Female | | | |
| 0 | 0.1100 | 0.1100 | 0.0750 | 0.0750 | 0.0900 | 0.0900 | | | |
| 1 | 0.1750 | 0.1750 | 0.1250 | 0.1250 | 0.0875 | 0.0875 | | | |
| 2 | 0.1500 | 0.1550 | 0.1100 | 0.1100 | 0.0900 | 0.0900 | | | |
| 3 | 0.1250 | 0.1300 | 0.1000 | 0.0925 | 0.0925 | | | | |
| 4 | 4 0.1050 0.1150 0.1000 0.1000 0.0725 0.0725 | | | | | | | | |

| | After five years of membership | | | | | | | | |
|-----|--------------------------------|--------|-------------------------|-----------------------|-----------------------------|--------|--|--|--|
| | Gen Emplo | | Firefighters Squad V | s & Rescue Vorkers | Law Enforcement Officers | | | | |
| Age | Male | Female | Male | Female | Male | Female | | | |
| 25 | 0.1200 | 0.1750 | 0.0700 | 0.0700 | 0.1000 | 0.1000 | | | |
| 30 | 0.0750 | 0.1100 | 0.0700 | 0.0700 | 0.0600 | 0.0600 | | | |
| 35 | 0.0550 | 0.0900 | 0.0500 | 0.0500 | 0.0600 | 0.0600 | | | |
| 40 | 0.0550 | 0.0700 | 0.0400 | 0.0400 | 0.0400 | 0.0400 | | | |
| 45 | 0.0425 | 0.0500 | 0.0350 | 0.0350 | 0.0300 | 0.0300 | | | |
| 50 | 0.0425 | 0.0450 | 0.0500 | 0.0500 | 0.0450 | 0.0450 | | | |
| 55 | 0.0425 | 0.0450 | 0.0500 | 0.0500 | 0.0450 | 0.0450 | | | |
| 60 | 0.0425 | 0.0450 | 0.0500 | 0.0500 | | | | | |



| | Annual ratios of mortainy for Employees | | | | | | | | | |
|-----|---|---------|--|---------|-----------------------------|---------|--|--|--|--|
| | (Base rates using Pub-2010 Amount weighted) | | | | | | | | | |
| | Gen Emplo | | Firefighters & Rescue Squad Workers | | Law Enforcement Officers | | | | | |
| Age | Male | Female | Male | Female | Male | Female | | | | |
| 25 | 0.00028 | 0.00009 | 0.00037 | 0.00020 | 0.00037 | 0.00020 | | | | |
| 30 | 0.00036 | 0.00015 | 0.00041 | 0.00027 | 0.00041 | 0.00027 | | | | |
| 35 | 0.00047 | 0.00023 | 0.00047 | 0.00036 | 0.00047 | 0.00036 | | | | |
| 40 | 0.00066 | 0.00036 | 0.00059 | 0.00049 | 0.00059 | 0.00049 | | | | |
| 45 | 0.00098 | 0.00056 | 0.00082 | 0.00067 | 0.00082 | 0.00067 | | | | |
| 50 | 0.00149 | 0.00083 | 0.00120 | 0.00091 | 0.00120 | 0.00091 | | | | |
| 55 | 0.00219 | 0.00123 | 0.00175 | 0.00123 | 0.00175 | 0.00123 | | | | |
| 60 | 0.00319 | 0.00186 | 0.00264 | 0.00168 | 0.00264 | 0.00168 | | | | |
| 65 | 0.00468 | 0.00296 | 0.00410 | 0.00228 | 0.00410 | 0.00228 | | | | |
| 70 | 0.00703 | 0.00489 | 0.00766 | 0.00454 | 0.00766 | 0.00454 | | | | |
| 74 | 0.01001 | 0.00731 | 0.01263 | 0.00787 | 0.01263 | 0.00787 | | | | |

Annual Rates of Mortality for Employees

| | Annual Rates of Disability | | | | | | | | | |
|-----|----------------------------|---------|-------------------------|---------|-----------------------------|---------|--|--|--|--|
| | Gen Emplo | | Firefighters Squad V | | Law Enforcement Officers | | | | | |
| Age | Male | Female | Male | Female | Male | Female | | | | |
| 25 | 0.00040 | 0.00050 | 0.00060 | 0.00060 | 0.00060 | 0.00250 | | | | |
| 30 | 0.00050 | 0.00050 | 0.00100 | 0.00090 | 0.00100 | 0.00300 | | | | |
| 35 | 0.00050 | 0.00050 | 0.00070 | 0.00240 | 0.00200 | 0.00400 | | | | |
| 40 | 0.00100 | 0.00050 | 0.00400 | 0.00380 | 0.00300 | 0.00500 | | | | |
| 45 | 0.00200 | 0.00150 | 0.00400 | 0.00480 | 0.00400 | 0.00600 | | | | |
| 50 | 0.00300 | 0.00300 | 0.00800 | 0.00760 | 0.00400 | 0.00700 | | | | |
| 55 | 0.00500 | 0.00450 | 0.01200 | 0.01760 | 0.00400 | 0.00700 | | | | |
| 60 | 0.00650 | 0.00450 | 0.01500 | 0.02760 | 0.00400 | 0.00700 | | | | |
| 64 | 0.00650 | 0.00450 | 0.01500 | 0.02760 | 0.00400 | 0.00700 | | | | |



Retirements: Representative values of the assumed rates of retirement from active service are as follows:

Annual Rates of Retirement

| | General Employees | | | | | | | | |
|------|-------------------|-------|-------|-------|-------|-------|-------|--|--|
| Male | Service | | | | | | | | |
| Age | 5 | 10 | 15 | 20 | 25 | 30 | 35 | | |
| 50 | | | | 0.030 | 0.055 | 0.400 | 0.400 | | |
| 55 | | | | 0.030 | 0.055 | 0.350 | 0.250 | | |
| 60 | 0.080 | 0.070 | 0.070 | 0.075 | 0.200 | 0.400 | 0.225 | | |
| 65 | 0.250 | 0.250 | 0.275 | 0.325 | 0.300 | 0.350 | 0.300 | | |
| 70 | 0.200 | 0.250 | 0.200 | 0.275 | 0.300 | 0.350 | 0.300 | | |
| 75 | 0.250 | 0.200 | 0.300 | 0.275 | 0.300 | 0.350 | 0.300 | | |
| 80 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | | |

| Female | Service | | | | | | | |
|--------|---------|-------|-------|-------|-------|-------|-------|--|
| Age | 5 | 10 | 15 | 20 | 25 | 30 | 35 | |
| 50 | | | | 0.035 | 0.050 | 0.400 | 0.450 | |
| 55 | | | | 0.050 | 0.055 | 0.300 | 0.300 | |
| 60 | 0.080 | 0.090 | 0.070 | 0.100 | 0.250 | 0.375 | 0.250 | |
| 65 | 0.250 | 0.250 | 0.350 | 0.350 | 0.350 | 0.350 | 0.300 | |
| 70 | 0.200 | 0.250 | 0.225 | 0.300 | 0.200 | 0.300 | 0.250 | |
| 75 | 0.200 | 0.200 | 0.225 | 0.300 | 0.200 | 0.250 | 0.250 | |
| 80 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |

Firefighters & Rescue Squad Workers

| | | Service | | | | | | | |
|-----|--------|---------|--------|--------|--------|--------|--------|--|--|
| Age | 5 | 10 | 15 | 20 | 25 | 30 | 35 | | |
| 50 | | | | 0.0325 | 0.0425 | 0.5500 | 0.5000 | | |
| 55 | 0.1200 | 0.0575 | 0.0575 | 0.0325 | 0.0425 | 0.5500 | 0.4000 | | |
| 60 | 0.1000 | 0.0575 | 0.0575 | 0.1250 | 0.3500 | 0.6000 | 0.4000 | | |
| 65 | 0.1000 | 0.2500 | 0.2500 | 0.2500 | 0.3500 | 0.5000 | 0.3250 | | |
| 70 | 0.3200 | 0.2500 | 0.2500 | 0.2500 | 0.3500 | 0.5000 | 0.3250 | | |
| 75 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | | |



| | Law Enforcement Officers | | | | | | | |
|-----|--------------------------|-------|-------|---------|-------|-------|-------|--|
| | | | | Service | | | | |
| Age | 5 | 10 | 15 | 20 | 25 | 30 | 35 | |
| 50 | | | 0.040 | 0.035 | 0.030 | 0.900 | 0.825 | |
| 55 | 0.150 | 0.225 | 0.300 | 0.350 | 0.600 | 0.900 | 0.500 | |
| 60 | 0.150 | 0.150 | 0.125 | 0.250 | 0.325 | 0.350 | 0.250 | |
| 65 | 0.175 | 0.200 | 0.250 | 0.250 | 0.375 | 0.350 | 0.300 | |
| 70 | 0.175 | 0.300 | 0.350 | 0.200 | 0.375 | 0.350 | 0.275 | |
| 75 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |

Salary Increases: Representative values of the assumed annual rates of salary increases are as follows:

| | Annual Rate of Salary Increase | | | | | | | | |
|---------|--------------------------------|-------|-------|--|--|--|--|--|--|
| Service | Law Enforcement Officers | | | | | | | | |
| 0 | 8.25% | 8.00% | 7.75% | | | | | | |
| 5 | 5.95% | 5.90% | 5.85% | | | | | | |
| 10 | 4.98% | 4.93% | 5.06% | | | | | | |
| 15 | 4.33% | 4.28% | 4.61% | | | | | | |
| 20 | 3.94% | 3.89% | 4.35% | | | | | | |
| 25 | 3.80% | 3.75% | 4.10% | | | | | | |
| 30 | 3.80% | 3.75% | 3.85% | | | | | | |
| 35 | 3.25% | 3.75% | 3.60% | | | | | | |
| >=40 | 3.25% | 3.25% | 3.25% | | | | | | |



Post-Retirement Mortality: Representative values of the assumed post-retirement mortality rates as of 2010 (the most recent developed Public Pension mortality tables) prior to any mortality improvements are as follows:

| | (Members | s Healthy a | t Retirement) | |
|-----|--------------|-------------|--|------------|
| | Gen Emplo | | Firefighter Squad Work Enforceme | ers, & Law |
| Age | Male | Female | Male | Female |
| 55 | 0.00477 | 0.00286 | 0.00327 | 0.00279 |
| 60 | 0.00684 | 0.00384 | 0.00549 | 0.00482 |
| 65 | 0.01064 | 0.00613 | 0.00957 | 0.00832 |
| 70 | 0.01828 | 0.01063 | 0.01711 | 0.01438 |
| 75 | 0.03227 | 0.01883 | 0.03085 | 0.02483 |
| 80 | 0.05810 | 0.03360 | 0.05571 | 0.04287 |

Annual Rates of Post-Retirement Mortality

Annual Rates of Post-Retirement Mortality

| | (Contingen of Deceased | t Survivors d members) | (Men | nbers Disab | led at Retiren | nent) |
|-----|---------------------------|---------------------------|-------------|-------------|--|-------------|
| | All Sur | vivors | General E | mployees | Firefighter Squad Work Enforceme | kers, & Law |
| Age | Male | Female | Male Female | | Male | Female |
| 55 | 0.01147 | 0.00742 | 0.02355 | 0.01692 | 0.01818 | 0.01587 |
| 60 | 0.01450 | 0.00975 | 0.02785 | 0.01914 | 0.02280 | 0.01833 |
| 65 | 0.02086 | 0.01332 | 0.03524 | 0.02178 | 0.02677 | 0.02051 |
| 70 | 0.03221 | 0.01931 | 0.04599 | 0.02706 | 0.03353 | 0.02450 |
| 75 | 0.04971 | 0.02946 | 0.06347 | 0.03718 | 0.04344 | 0.03239 |
| 80 | 0.07802 | 0.04698 | 0.09259 | 0.05517 | 0.05921 | 0.04678 |

Mortality Assumption: All mortality rates use Pub-2010 amount-weighted tables.

Mortality Projection: All mortality rates are projected from 2010 using generational improvement with Scale MP-2019.

Deaths After Retirement (General Employees): Mortality rates are based on the General Mortality Table for Retirees. Rates for male members are first Set Forward 2 years, then are multiplied by 96% for ages under 81, and increase until reaching 100% at age 85 and above. Rates for female members are 100% for ages under 92, and increase until reaching 110% at age 94 and above. Because the retiree tables have no rates prior to age 50, the General Mortality Table for Employees is used for ages less than 50.



Deaths After Retirement (Firefighters, Rescue Squad Workers & Law Enforcement Officers): Mortality rates are based on the Safety Mortality Table for Retirees. Rates for all members are multiplied by 97% and Set Forward by 1 year. Because the retiree tables have no rates prior to age 45, the Safety Mortality Table for Employees is used for ages less than 45.

Deaths After Retirement (Survivors of Deceased Members): Mortality rates are based on the Belowmedian Teachers Mortality Table for Contingent Survivors. Rates for male members are Set Forward 3 years. Rates for female members are Set Forward 1 year. Because the contingent survivor tables have no rates prior to age 45, the Below-median Teachers Mortality Table for Employees is used for ages less than 45.

Deaths After Retirement (Disabled Members at Retirement): Mortality rates are based on the General Mortality Table for Disabled Retirees. Rates for General Employee male members are Set Forward 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement Officer male members are Set Back 3 years. Rates for General Employee female members are Set Back 1 year, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while Firefighter, Rescue Squad Worker & Law Enforcement 3 years, while States 3 years, while States 3 years, and the states 3 years.

Deaths Prior to Retirement: Mortality rates for General Employees are based on the General Mortality Table for Employees. Mortality rates for Firefighters, Rescue Squad Workers & Law Enforcement Officers are based on the Safety Mortality Table for Employees.

Line-of-Duty Deaths: 50% of deaths prior to retirement for firefighters, rescue squad workers and law enforcement officers are assumed to occur in the line-of-duty.

Timing of Assumptions: All withdrawals, deaths, disabilities, retirements and salary increases are assumed to occur July 1 of each year. The timing of retirement changes from mid-year to beginning of year at and after the 100% retirement age.

Leave Conversions: Sick leave can be converted to increase creditable service and used to meet the eligibility requirements for retirement. Unused vacation leave can be converted to increase creditable service or compensation, but does not add to the eligibility service. The assumed impact of these conversions is shown in the table below.

| | General Employees | | Firefighters Squad V | s & Rescue Norkers | Law Enforcement Officers | | | |
|--|----------------------|--------|-------------------------|-----------------------|-----------------------------|--------|--|--|
| | Male | Female | Male | Female | Male | Female | | |
| Increase in AFC (percentage) – Unused Vacation Leave | | | | | | | | |
| | 1.50% | 1.50% | 1.75% | 1.75% | 1.50% | 1.50% | | |
| Increase in Service (years) – Unused Sick Leave | | | | | | | | |
| Credited | 0.80 | 0.60 | 1.20 | 1.20 | 1.10 | 1.10 | | |
| Eligibility | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | |

Liability for Inactive Members: For inactive members with five or more years of service, without actual deferred benefit amounts a deferred benefit amount is estimated based on available data and contribution balances projecting backwards assuming 4% salary growth and 4% interest on contribution balances where necessary. For inactive members with less than five years of service the liability is equal to the member's accumulated contributions.



Administrative Expenses: 0.13% of payroll for general employees and firefighters is added to the normal cost.

Marriage Assumption: 100% married with male spouses three years older than female spouses.

Missing Gender Code: For members reported on the data without a gender code, we use the prior year's code where available or assign a code based on inspection.

Reported Compensation: Calendar year compensation as furnished by the system's office.

Valuation Compensation: Reported compensation adjusted to reflect the assumed rate of pay as of the valuation date and the probability of decrement during the year.

Compensation Limits: No compensation limits are applied.

Actuarial Cost Method: Entry age normal cost method. Entry age is established on an individual basis.

Normal Cost: Normal cost rate reflects the impact of new entrants during the year.

Amortization Period: 12-year closed, level-dollar amount. The first amortization base was created for the contribution payable for fiscal year ending 2018.

Asset Valuation Method: Actuarial value, as developed in Table 7. The actuarial value of assets is based upon a smoothed market value method. Under this method, asset returns in excess of or less than the expected return on market value of assets will be reflected in the actuarial value of assets over a five-year period. The calculation of the Actuarial Value of Assets is based on the following formula:

 $MV - 80\% \times G/(L)_1 - 60\% \times G/(L)_2 - 40\% \times G/(L)_3 - 20\% \times G/(L)_4$

MV = the market value of assets as of the valuation date

 $G/(L)_i$ = the asset gain or (loss) for the i-th year preceding the valuation date



Changes Since Prior Valuation:

The assumptions used for the December 31, 2020 actuarial valuation are based on the experience study prepared as of December 31, 2019 and adopted by the Board of Trustees on January 28, 2021. Material assumptions and methods that were changed since the prior valuation:

- The investment return assumption was lowered from 7.00% to 6.50%
- The inflation assumption was lowered from 3.00% to 2.50%
- The real wage growth assumption was increased from 0.50% to 0.75%
- The payroll growth assumption was lowered from 3.50% to 3.25%
- The administrative expense assumption was changed from 0.20% of payroll for general employees and firefighters to 0.13% of payroll for general employees and firefighters
- The withdrawal rates, retirement rates, mortality assumption, annual rate of salary increase assumption and leave conversion assumptions were changed
- The marriage assumption was changed from assuming male spouses are four years older than female spouses to assume that male spouses are three years older than female spouses
- The method for valuing inactive members was changed from 200% of the member's accumulated contributions, to using existing actual data and estimating earnings and average final compensation where actual data isn't available for members with five or more years of service, and using 100% of the member's accumulated contributions for members with less than five years of service



Appendix E: GASB 67 Fiduciary Net Position Projection

| Calendr Year Fiducary Dosition Member Contributions Employer Contributions Benefit Paymes Administrative Expenses Investment Expenses Fidu Expenses 2021 \$ 30,905,571 \$ 444,553 \$ 642,521 \$ 1,955,716 \$ 7,912 \$ 1,995,537 \$ 32,4 2022 32,484,554 421,363 909,712 1,785,276 7,499 2,096,535 34,1 2023 34,413,386 399,809 003,971 1,785,276 7,499 2,096,535 34,1 2026 33,695,711 344,142 671,857 2,170,564 6,125 2,474,093 40,0 2027 40,013,114 326,968 617,857 2,170,209 4,621 2,767,672 44,2 2030 43,456,532 276,060 534,466 2,600,097 4,914 2,767,672 44,2 2031 45,242,733 244,303 330,211 2,808,035 4,348 2,869,196 455, 2033 45,674,120 229,325 2,900,613 3,816 2,929,181 466,62 <t< th=""><th></th><th>.</th><th>•</th><th></th><th></th><th>•</th><th></th><th></th></t<> | | . | • | | | • | | |
|--|------|---------------|------------|------------|--------------|----------|--------------|---------------------------------|
| 2022 32,484,554 421,363 903,712 1,785,278 7,499 2,096,535 34,1 2023 34,113,386 399,830 903,197 1,875,468 7,116 2,198,831 35,7 2024 35,732,661 380,0201 829,652 1,969,850 6,766 2,298,123 37,22 2025 37,284,891 361,695 750,354 2,066,280 6,437 2,391,488 38,66 2026 40,013,114 326,966 617,851 2,277,9,371 5,819 2,57,576 41,2 2028 41,230,719 309,901 599,211 2,389,421 5,515 2,632,468 42,3 2030 43,465,632 276,086 534,466 2,600,097 4,914 2,767,672 44,4 2031 44,432,845 259,860 41,204 2,710,209 4,625 2,823,718 45,2 2033 45,874,1720 29,352 2,902,617 4,081 2,903,509 45,3 2033 46,87,742 144,322 2,148,233 | | | | | | | | Ending Fiduciary Position |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2021 | \$ 30,905,571 | \$ 444,553 | \$ 842,521 | \$ 1,695,716 | \$ 7,912 | \$ 1,995,537 | \$ 32,484,554 |
| 2024 35,732,661 380,201 829,622 1,968,950 6,766 2,298,123 37,2 2025 37,264,891 361,695 750,354 2,066,280 6,437 2,391,488 38,6 2026 38,695,711 344,142 671,857 2,170,564 6,125 2,478,093 40,0 2027 40,013,114 326,968 617,851 2,279,371 5,819 2,557,976 41,2 2028 41,230,719 309,901 599,211 2,389,421 5,515 2,632,468 42,3 2030 43,465,632 276,086 534,466 2,606,097 4,914 2,767,672 44,4 2031 44,322,445 259,860 441,204 2,710,209 4,625 2,823,718 45,2 2033 45,874,170 29,325 2,902,617 4,081 2,909,509 40,3 2034 46,387,782 194,422 2,960,008 3,816 2,929,114 46,6 2035 46,687,782 199,425 199,725 3,0770 | 2022 | 32,484,554 | 421,363 | 903,712 | 1,785,278 | 7,499 | 2,096,535 | 34,113,386 |
| 2025 37,284,891 361,695 750,354 2.066,280 6,437 2.391,488 38,6 2026 38,695,711 344,142 671,857 2,170,564 6,125 2.478,093 40,0 2027 40,013,114 326,966 617,851 2,279,371 5,515 2.632,468 42,3 2028 41,230,719 309,901 599,211 2,389,421 5,515 2.632,468 42,3 2030 43,455,632 276,066 534,466 2,606,097 4,914 2,767,872 44,4 2031 44,432,845 259,860 441,204 2,710,209 4,625 2,823,718 45,2 2033 45,874,120 229,325 2,902,617 4,081 2,903,509 46,3 2034 46,329,580 214,422 2,14,422 2,996,008 3,816 2,929,181 46,6 2035 46,694,329 184,789 13,457,533 3,269 2,948,594 49,0 2034 46,944,329 184,749 144,523 3,207,770 | 2023 | 34,113,386 | 399,830 | 903,197 | 1,875,468 | 7,116 | 2,198,831 | 35,732,661 |
| 2026 38,695,711 344,142 671,857 2,170,564 6,125 2,478,093 40,0 2027 40,013,114 326,968 617,851 2,279,371 5,819 2,557,976 41,23 2028 41,230,719 309,901 599,211 2,389,421 5,515 2,632,468 43,4 2030 43,465,632 276,086 534,466 2,606,097 4,914 2,767,672 44,4 2031 44,432,845 259,860 441,204 2,710,209 4,625 2,823,718 45,2 2032 45,242,793 244,303 330,211 2,808,035 4,348 2,869,196 45,8 2033 45,874,120 229,325 2,902,617 4,081 2,903,509 46,3 2034 46,329,580 214,422 2,996,008 3,816 2,929,181 46,6 2035 46,687,782 199,425 3,207,70 2,779 2,970,817 47,1 2037 47,127,847 170,457 170,453 3,209,350 3,034 <td>2024</td> <td>35,732,661</td> <td>380,201</td> <td>829,622</td> <td>1,968,950</td> <td>6,766</td> <td>2,298,123</td> <td>37,264,891</td> | 2024 | 35,732,661 | 380,201 | 829,622 | 1,968,950 | 6,766 | 2,298,123 | 37,264,891 |
| 2027 40,013,114 326,968 617,851 2,279,371 5,819 2,557,976 41,2 2028 41,230,719 309,901 599,211 2,389,421 5,515 2,632,468 42,3 2029 42,377,363 292,760 597,155 2,499,316 5,210 2,702,880 43,4 2031 44,432,845 259,860 441,204 2,710,209 4,625 2,823,718 45,2 2032 45,874,120 229,325 229,325 2,902,617 4,081 2,903,509 43,3 2034 46,329,580 214,422 214,422 2,996,008 3,816 2,929,181 46,6 2035 46,687,762 199,425 199,425 3,087,284 3,549 2,948,594 46,9 2036 46,644,392 184,789 1,45,733 3,289 2,962,489 47,1 2037 47,127,847 170,457 170,457 3,229,350 3,034 2,970,817 47,2 2038 47,207,193 196,161 166,161 | 2025 | 37,264,891 | 361,695 | 750,354 | 2,066,280 | 6,437 | | 38,695,711 |
| 2028 41,230,719 309,901 599,211 2,389,421 5,515 2,632,468 42,3 2029 42,377,363 292,760 597,155 2,499,316 5,210 2,702,880 44,4 2030 43,465,632 276,086 534,466 2,606,097 4,914 2,767,672 44,4 2031 45,874,120 229,325 2,902,617 4,081 2,903,509 46,3 2033 46,329,580 214,422 214,422 2,996,008 3,816 2,929,181 46,6 2035 46,687,782 199,425 199,425 3,087,284 3,549 2,948,594 46,9 2036 46,944,392 184,789 144,729 3,145,323 3,289 2,962,489 47,1 2037 47,127,847 170,457 170,457 3,207,70 2,779 2,972,559 47,1 2038 47,105,5051 130,377 130,377 3,440,328 2,320 2,966,78 48,60 2044 46,503,740 106,199 1,557,457 </td <td>2026</td> <td>38,695,711</td> <td>344,142</td> <td>671,857</td> <td>2,170,564</td> <td>6,125</td> <td>2,478,093</td> <td>40,013,114</td> | 2026 | 38,695,711 | 344,142 | 671,857 | 2,170,564 | 6,125 | 2,478,093 | 40,013,114 |
| 2029 42,377,363 292,760 597,155 2,499,316 5,210 2,702,880 43,4 2030 43,465,632 276,086 534,466 2,606,097 4,914 2,767,672 44,4 2031 44,432,845 259,860 441,204 2,710,209 4,625 2,823,718 45,22 2032 45,242,793 244,303 330,211 2,808,035 4,344 2,869,196 45,23 2033 45,874,120 229,325 229,026,17 4,081 2,903,509 46,6 2034 46,329,580 214,422 214,422 2,966,088 3,616 2,929,181 46,6 2036 46,644,392 184,789 1,145,323 3,289 2,962,489 47,1 2037 47,127,847 170,457 170,457 3,207,700 2,544 2,967,818 47,0 2038 47,207,193 156,161 3,307,770 2,544 2,967,818 47,0 2040 47,055,051 130,377 130,377 3,440,328 2,320< | 2027 | 40,013,114 | 326,968 | 617,851 | 2,279,371 | 5,819 | 2,557,976 | 41,230,719 |
| 2029 42,377,363 292,760 597,155 2,499,316 5,210 2,702,880 43,4 2030 43,465,632 276,086 534,466 2,606,097 4,914 2,767,672 44,4 2031 44,432,845 259,860 441,204 2,710,209 4,625 2,823,718 45,22 2032 45,242,793 244,303 330,211 2,808,035 4,344 2,869,196 45,23 2033 45,874,120 229,325 229,026,17 4,081 2,903,509 46,6 2034 46,329,580 214,422 214,422 2,966,088 3,616 2,929,181 46,6 2036 46,644,392 184,789 1,145,323 3,289 2,962,489 47,1 2037 47,127,847 170,457 170,457 3,207,700 2,544 2,967,818 47,0 2038 47,207,193 156,161 3,307,770 2,544 2,967,818 47,0 2040 47,055,051 130,377 130,377 3,440,328 2,320< | 2028 | 41,230,719 | 309,901 | 599,211 | 2,389,421 | 5,515 | 2,632,468 | 42,377,363 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2029 | 42,377,363 | 292,760 | 597,155 | 2,499,316 | 5,210 | | 43,465,632 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2030 | 43,465,632 | 276,086 | 534,466 | 2,606,097 | | 2,767,672 | 44,432,845 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2031 | 44,432,845 | 259,860 | 441,204 | 2,710,209 | 4,625 | 2,823,718 | 45,242,793 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2032 | 45,242,793 | 244,303 | 330,211 | | 4,348 | 2,869,196 | 45,874,120 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | 46,329,580 |
| 203546,687,782199,425199,4253,087,2843,5492,948,59446,9203646,944,392184,789184,7893,145,3233,2892,962,48947,1203747,127,847170,457170,4573,229,3503,0342,970,81747,2203847,207,193156,161156,1613,307,7002,7792,972,55947,1203947,181,525142,927142,9273,377,6022,5442,967,18447,00204047,055,051130,377130,3773,440,3282,3202,956,79546,8204146,829,952118,278118,2783,500,1452,1052,939,48346,50204246,503,740106,199106,1993,557,4571,8902,915,68046,00204346,072,47194,28894,2883,609,6831,6782,885,22145,5204445,534,90882,63682,6363,657,4241,4712,848,01444,8204544,889,29870,98970,9893,701,3401,2632,603,90644,1204644,132,57959,54359,5433,739,6101,0602,752,76943,2204743,263,76448,39848,3983,768,9678612,694,65042,2204842,285,38337,6953,769,5326712,694,79941,2205040,025,32318,9451,89453,770,6923372,482,22938,7205138,774,41 | | | | | | | | 46,687,782 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | 46,944,392 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | 47,127,847 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | , | | | | 47,207,193 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | 47,181,525 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | , | | | , , | 47,055,051 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | , | | | | 46,829,952 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | , , | | | | | | 46,503,740 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | , | | | | | 46,072,471 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | 45,534,908 |
| 204544,889,29870,98970,9893,701,3401,2632,803,90644,1204644,132,57959,54359,5433,739,6101,0602,752,76943,2204743,263,76448,39848,3983,768,9678612,694,65042,2204842,285,38337,69537,6953,787,0326712,629,79941,2204941,202,86927,77627,7763,791,2754942,558,67140,0205040,025,32318,94518,9453,770,6923372,482,22938,7205138,774,41313,29213,2923,722,9062372,402,09037,4205237,479,9439,6999,6993,655,7761732,319,86936,1205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>44,889,298</td> | | | | | | | | 44,889,298 |
| 204644,132,57959,54359,5433,739,6101,0602,752,76943,2204743,263,76448,39848,3983,768,9678612,694,65042,2204842,285,38337,69537,6953,787,0326712,629,79941,2204941,202,86927,77627,7763,791,2754942,558,67140,0205040,025,32318,94518,9453,770,6923372,482,22938,7205138,774,41313,29213,2923,722,9062372,402,09037,4205237,479,9439,6999,6993,655,7761732,319,86936,1205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,33205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,03111 | | | | | | | | 44,132,579 |
| 204743,263,76448,39848,3983,768,9678612,694,65042,2204842,285,38337,69537,6953,787,0326712,629,79941,2204941,202,86927,77627,7763,791,2754942,558,67140,0205040,025,32318,94518,9453,770,6923372,482,22938,7205138,774,41313,29213,2923,722,9062372,402,09037,4205237,479,9439,6999,6993,655,7761732,319,86936,1205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,33205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581 | | | | | | | | 43,263,764 |
| 204842,285,38337,69537,6953,787,0326712,629,79941,2204941,202,86927,77627,7763,791,2754942,558,67140,0205040,025,32318,94518,9453,770,6923372,482,22938,7205138,774,41313,29213,2923,722,9062372,402,09037,4205237,479,9439,6999,6993,655,7761732,319,86936,1205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,33205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 42,285,383 |
| 204941,202,86927,77627,7763,791,2754942,558,67140,0205040,025,32318,94518,9453,770,6923372,482,22938,7205138,774,41313,29213,2923,722,9062372,402,09037,4205237,479,9439,6999,6993,655,7761732,319,86936,1205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,33205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 41,202,869 |
| 205040,025,32318,94518,9453,770,6923372,482,22938,7205138,774,41313,29213,2923,722,9062372,402,09037,4205237,479,9439,6999,6993,655,7761732,319,86936,1205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 40,025,323 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | 38,774,413 |
| 205237,479,9439,6999,6993,655,7761732,319,86936,1205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 37,479,943 |
| 205336,163,2617,1297,1293,577,5681272,236,62334,8205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 36,163,261 |
| 205434,836,4485,2545,2543,490,008942,153,06333,5205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | |
| 205533,509,9163,8723,8723,393,879692,069,82532,1205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,33205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 34,836,448 33,509,916 |
| 205632,193,5382,8512,8513,292,889511,987,42730,8205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | |
| 205730,893,7262,0942,0943,186,172371,906,30529,6205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 32,193,538 |
| 205829,618,0101,5341,5343,074,817271,826,91028,3205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 30,893,726 |
| 205928,373,1441,1201,1202,960,257201,749,63227,1206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | , , | | | | | , , | 29,618,010 |
| 206027,164,7388158152,842,626151,674,82925,9206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 28,373,144 |
| 206125,998,5555925922,723,031111,602,83824,8206224,879,5354294292,602,16581,533,95823,8 | | | | | | | | 27,164,738 |
| 2062 24,879,535 429 429 2,602,165 8 1,533,958 23,8 | | | | | | | | 25,998,555 |
| | | | | | | | | 24,879,535 |
| | | | | | | | | 23,812,179 |
| | | , , | | | | | | 22,800,064 |
| | | | | | | | | 21,846,080 |
| | | | | | | | | 20,952,881 |
| | | | | | | | | 20,122,987 |
| | | | | | | | | 19,358,804 |
| | | | | | | | | 18,662,656 |
| | | | | | | 1 | | 18,036,788 |
| | | | | | | - | | 17,483,387 |
| | | 17,483,387 | | | | - | 1,086,353 | 17,004,585 |
| 2072 17,004,585 9 9 1,460,699 - 1,058,573 16,6 | 2072 | 17,004,585 | 9 | 9 | 1,460,699 | - | 1,058,573 | 16,602,477 |

Table E-1: Projection of Fiduciary Net Positions (in thousands)

*Employer contributions are not less than 6.00% of payroll in accordance with G.S. 128-30(d)(10).



Table E-1: Projection of Fiduciary Net Positions (in thousands) (continued)

| Calendar | Beginning Fiduciary | Member | Employer | Benefit | Administrative | Investment | Ending Fiduciary |
|--------------|----------------------------|---------------|---------------|--------------|----------------|------------------------|----------------------------|
| Year | Position | Contributions | Contributions | Payments | Expenses | Earnings | Position |
| 2073 | \$ 16,602,477 | \$6 | \$ 6 | \$ 1,359,055 | \$ - | \$ 1,035,687 | \$ 16,279,121 |
| 2074 | 16,279,121 | 3 | 3 | 1,260,415 | - | 1,017,824 | 16,036,536 |
| 2075 | 16,036,536 | 2 | 2 | 1,164,929 | - | 1,005,111 | 15,876,722 |
| 2076 | 15,876,722 | 1 | 1 | 1,072,745 | - | 997,672 | 15,801,650 |
| 2077 | 15,801,650 | 0 | - | 984,001 | - | 995,631 | 15,813,280 |
| 2078 | 15,813,280 | 0 | - | 898,832 | - | 999,111 | 15,913,560 |
| 2079 | 15,913,560 | 0 | - | 817,370 | - | 1,008,235 | 16,104,425 |
| 2080 | 16,104,425 | 0 | - | 739,741 | - | 1,023,124 | 16,387,808 |
| 2081 | 16,387,808 | 0 | - | 666,066 | - | 1,043,901 | 16,765,643 |
| 2082 | 16,765,643 | 0 | - | 596,458 | - | 1,070,687 | 17,239,872 |
| 2083 | 17,239,872 | 0 | - | 531,015 | - | 1,103,605 | 17,812,463 |
| 2084 | 17,812,463 | 0 | - | 469,817 | - | 1,142,781 | 18,485,427 |
| 2085 | 18,485,427 | 0 | - | 412,924 | - | 1,188,344 | 19,260,848 |
| 2086 | 19,260,848 | 0 | - | 360,368 | - | 1,240,428 | 20,140,908 |
| 2087 | 20,140,908 | 0 | - | 312,148 | - | 1,299,174 | 21,127,934 |
| 2088 | 21,127,934 | 0 | - | 268,230 | - | 1,364,735 | 22,224,439 |
| 2089 | 22,224,439 | 0 | - | 228,540 | - | 1,437,278 | 23,433,177 |
| 2090 | 23,433,177 | 0 | - | 192,970 | - | 1,516,984 | 24,757,190 |
| 2091 | 24,757,190 | 0 | - | 161,374 | - | 1,604,055 | 26,199,872 |
| 2092 | 26,199,872 | 0 | - | 133,567 | - | 1,698,719 | 27,765,024 |
| 2093 | 27,765,024 | 0 | - | 109,337 | - | 1,801,229 | 29,456,916 |
| 2094 | 29,456,916 | 0 | - | 88,450 | - | 1,911,870 | 31,280,336 |
| 2095 | 31,280,336 | 0 | - | 70,650 | - | 2,030,962 | 33,240,648 |
| 2096 | 33,240,648 | 0 | - | 55,671 | - | 2,158,861 | 35,343,838 |
| 2097 | 35,343,838 | 0 | - | 43,239 | - | 2,295,966 | 37,596,566 |
| 2098 | 37,596,566 | 0 | - | 33,072 | - | 2,442,719 | 40,006,213 |
| 2099 | 40,006,213 | 0 | - | 24,893 | - | 2,599,608 | 42,580,928 |
| 2100 | 42,580,928 | 0 | - | 18,424 | - | 2,767,171 | 45,329,674 |
| 2101 | 45,329,674 | 0 | - | 13,403 | - | 2,946,000 | 48,262,272 |
| 2102 | 48,262,272 | 0 | - | 9,579 | - | 3,136,741 | 51,389,435 |
| 2103 | 51,389,435 | 0 | - | 6,725 | - | 3,340,098 | 54,722,808 |
| 2104 | 54,722,808 | 0 | - | 4,640 | - | 3,556,834 | 58,275,001 |
| 2105 | 58,275,001 | 0 | - | 3,150 | - | 3,787,774 | 62,059,626 |
| 2106 | 62,059,626 | 0 | - | 2,108 | - | 4,033,808 | 66,091,326 |
| 2107 | 66,091,326 | 0 | _ | 1,394 | _ | 4,295,892 | 70,385,824 |
| 2108 | 70,385,824 | 0 | _ | 916 | _ | 4,575,049 | 74,959,957 |
| 2109 | 74,959,957 | 0 | _ | 601 | _ | 4,872,378 | 79,831,734 |
| 2100 | 79,831,734 | 0 | _ | 397 | _ | 5,189,050 | 85,020,386 |
| 2110 | 85,020,386 | 0 | _ | 266 | _ | 5,526,317 | 90,546,436 |
| 2112 | 90,546,436 | 0 | _ | 182 | _ | 5,885,513 | 96,431,767 |
| 2112 | 96,431,767 | 0 | _ | 102 | - | 6,268,061 | 102,699,700 |
| 2113 | 102,699,700 | 0 | _ | 91 | | 6,675,478 | 109,375,087 |
| | | | - | | - | | |
| 2115 2116 | 109,375,087 116,484,399 | 0 0 | - | 66 49 | - | 7,109,379 | 116,484,399 |
| | | | - | | - | 7,571,484 | 124,055,834 |
| 2117 | 124,055,834 | 0 | - | 37 27 | - | 8,063,628 8 587 762 | 132,119,426 140 707 160 |
| 2118 | 132,119,426 | 0 | - | 27 20 | - | 8,587,762 | 140,707,160 |
| 2119 2120 | 140,707,160 | 0 | - | 20 15 | - | 9,145,965 | 149,853,105 |
| 2120 | 149,853,105 | 0 | - | 15 | - | 9,740,451 | 159,593,541 |

*Employer contributions are not less than 6.00% of payroll in accordance with G.S. 128-30(d)(10).

Table E-2: Actuarial Present Value of Projected Benefit Payments (in thousands)

| | | | | | Prosent \ | alue of Benefit | Paymonte |
|------------------|------------------------------------|---------------------|-------------------------------|---------------------------------|--------------------------------|-----------------|---|
| Calendar Year | Beginning Fiduciary Position | Benefit Payments | Funded Benefit Payments | Unfunded Benefit Payments | Funded Payments at 6.50% | Unfunded | Using Single Discount Rate of 6.50% |
| 2021 | \$ 30,905,571 | \$ 1,695,716 | \$ 1,695,716 | <u> </u> | \$ 1,643,155 | \$ - | \$ 1,643,155 |
| 2021 | 32,484,554 | 1,785,278 | 1,785,278 | φ - | 1,624,357 | Ψ - | 1,624,357 |
| 2022 | 34,113,386 | 1,875,468 | 1,875,468 | - | 1,602,269 | · _ | 1,602,269 |
| 2020 | 35,732,661 | 1,968,950 | 1,968,950 | _ | 1,579,469 | _ | 1,579,469 |
| 2024 | 37,264,891 | 2,066,280 | 2,066,280 | _ | 1,556,381 | - | 1,556,381 |
| 2025 | 38,695,711 | 2,170,564 | 2,170,564 | | 1,535,146 | - | 1,535,146 |
| 2020 | 40,013,114 | 2,279,371 | 2,279,371 | - | 1,513,710 | - | 1,513,710 |
| 2027 | 41,230,719 | 2,389,421 | 2,389,421 | - | 1,489,946 | - | 1,489,946 |
| 2020 | 42,377,363 | 2,499,316 | 2,499,316 | - | 1,463,354 | - | 1,463,354 |
| 2023 | 43,465,632 | 2,606,097 | 2,606,097 | _ | 1,432,746 | _ | 1,432,746 |
| 2000 | 44,432,845 | 2,710,209 | 2,710,209 | _ | 1,399,046 | - | 1,399,046 |
| 2032 | 45,242,793 | 2,808,035 | 2,808,035 | - | 1,361,075 | _ | 1,361,075 |
| 2032 | 45,874,120 | 2,902,617 | 2,902,617 | - | 1,321,051 | _ | 1,321,051 |
| 2033 | 46,329,580 | 2,996,008 | 2,996,008 | | 1,280,334 | _ | 1,280,334 |
| 2034 | 46,687,782 | 3,087,284 | 3,087,284 | - | 1,238,817 | _ | 1,238,817 |
| 2035 | | | | - | | - | 1,185,076 |
| 2030 | 46,944,392 47,127,847 | 3,145,323 | 3,145,323 | - | 1,185,076 | - | |
| 2037 | 47,127,047 47,207,193 | 3,229,350 | 3,229,350 | - | 1,142,475 1,098,796 | - | 1,142,475 1,098,796 |
| | | 3,307,770 | 3,307,770 | | | - | |
| 2039 | 47,181,525 | 3,377,602 | 3,377,602 | - | 1,053,515 | - | 1,053,515 |
| 2040 | 47,055,051 | 3,440,328 | 3,440,328 | | 1,007,587 | | 1,007,587 |
| 2041 | 46,829,952 | 3,500,145 | 3,500,145 | - | 962,541 | - | 962,541 |
| 2042 | 46,503,740 | 3,557,457 | 3,557,457 | - | 918,593 | - | 918,593 |
| 2043 | 46,072,471 | 3,609,683 | 3,609,683 | - | 875,191 | - | 875,191 |
| 2044 | 45,534,908 | 3,657,424 | 3,657,424 | - | 832,644 | - | 832,644 |
| 2045 | 44,889,298 | 3,701,340 | 3,701,340 | - | 791,213 | - | 791,213 |
| 2046 | 44,132,579 | 3,739,610 | 3,739,610 | - | 750,605 | - | 750,605 |
| 2047 | 43,263,764 | 3,768,967 | 3,768,967 | - | 710,326 | - | 710,326 |
| 2048 | 42,285,383 | 3,787,032 | 3,787,032 | - | 670,170 | - | 670,170 |
| 2049 | 41,202,869 | 3,791,275 | 3,791,275 | - | 629,972 | - | 629,972 |
| 2050 | 40,025,323 | 3,770,692 | 3,770,692 | - | 588,312 | - | 588,312 |
| 2051 | 38,774,413 | 3,722,906 | 3,722,906 | - | 545,405 | - | 545,405 |
| 2052 | 37,479,943 | 3,655,776 | 3,655,776 | - | 502,883 | - | 502,883 |
| 2053 | 36,163,261 | 3,577,568 | 3,577,568 | - | 462,089 | - | 462,089 |
| 2054 | 34,836,448 | 3,490,008 | 3,490,008 | - | 423,267 | - | 423,267 |
| 2055 | 33,509,916 | 3,393,879 | 3,393,879 | - | 386,487 | - | 386,487 |
| 2056 | 32,193,538 | 3,292,889 | 3,292,889 | - | 352,100 | - | 352,100 |
| 2057 | 30,893,726 | 3,186,172 | 3,186,172 | - | 319,896 | - | 319,896 |
| 2058 | 29,618,010 | 3,074,817 | 3,074,817 | - | 289,874 | - | 289,874 |
| 2059 | 28,373,144 | 2,960,257 | 2,960,257 | - | 262,041 | - | 262,041 |
| 2060 | 27,164,738 | 2,842,626 | 2,842,626 | - | 236,271 | - | 236,271 |
| 2061 | 25,998,555 | 2,723,031 | 2,723,031 | - | 212,517 | - | 212,517 |
| 2062 | 24,879,535 | 2,602,165 | 2,602,165 | - | 190,689 | - | 190,689 |
| 2063 | 23,812,179 | 2,481,169 | 2,481,169 | - | 170,725 | - | 170,725 |
| 2064 | 22,800,064 | 2,360,920 | 2,360,920 | - | 152,536 | - | 152,536 |
| 2065 | 21,846,080 | 2,241,805 | 2,241,805 | - | 136,000 | - | 136,000 |
| 2066 | 20,952,881 | 2,124,114 | 2,124,114 | - | 120,996 | - | 120,996 |
| 2067 | 20,122,987 | 2,008,101 | 2,008,101 | - | 107,406 | - | 107,406 |
| 2068 | 19,358,804 | 1,893,992 | 1,893,992 | - | 95,120 | - | 95,120 |
| 2069 | 18,662,656 | 1,782,011 | 1,782,011 | - | 84,034 | - | 84,034 |
| 2070 | 18,036,788 | 1,672,344 | 1,672,344 | - | 74,049 | - | 74,049 |
| 2071 | 17,483,387 | 1,565,185 | 1,565,185 | - | 65,074 | - | 65,074 |



Table E-2: Actuarial Present Value of Projected Benefit Payments (in thousands) (continued)

| | | | | | | alue of Benefit | |
|------------------|------------------------------------|---------------------|-------------------------------|---------------------------------|--------------------------------|----------------------------------|---|
| Calendar Year | Beginning Fiduciary Position | Benefit Payments | Funded Benefit Payments | Unfunded Benefit Payments | Funded Payments at 6.50% | Unfunded Payments at 2.16% | Using Single Discount Rate of 6.50% |
| 2072 | \$ 17,004,585 | \$ 1,460,699 | \$ 1,460,699 | \$ - | \$ 57,024 | \$ - | \$ 57,024 |
| 2073 | 16,602,477 | 1,359,055 | 1,359,055 | - | 49,818 | | 49,818 |
| 2074 | 16,279,121 | 1,260,415 | 1,260,415 | - | 43,382 | - | 43,382 |
| 2075 | 16,036,536 | 1,164,929 | 1,164,929 | - | 37,648 | - | 37,648 |
| 2076 | 15,876,722 | 1,072,745 | 1,072,745 | - | 32,553 | - | 32,553 |
| 2077 | 15,801,650 | 984,001 | 984,001 | - | 28,038 | - | 28,038 |
| 2078 | 15,813,280 | 898,832 | 898,832 | - | 24,048 | - | 24,048 |
| 2079 | 15,913,560 | 817,370 | 817,370 | - | 20,534 | - | 20,534 |
| 2080 | 16,104,425 | 739,741 | 739,741 | - | 17,449 | - | 17,449 |
| 2081 | 16,387,808 | 666,066 | 666,066 | - | 14,753 | - | 14,753 |
| 2082 | 16,765,643 | 596,458 | 596,458 | - | 12,404 | - | 12,404 |
| 2083 | 17,239,872 | 531,015 | 531,015 | - | 10,369 | - | 10,369 |
| 2084 | 17,812,463 | 469,817 | 469,817 | - | 8,614 | - | 8,614 |
| 2085 | 18,485,427 | 412,924 | 412,924 | - | 7,109 | - | 7,109 |
| 2086 | 19,260,848 | 360,368 | 360,368 | - | 5,826 | - | 5,826 |
| 2087 | 20,140,908 | 312,148 | 312,148 | - | 4,738 | - | 4,738 |
| 2088 | 21,127,934 | 268,230 | 268,230 | - | 3,823 | - | 3,823 |
| 2089 | 22,224,439 | 228,540 | 228,540 | - | 3,059 | | 3,059 |
| 2090 | 23,433,177 | 192,970 | 192,970 | - | 2,425 | | 2,425 |
| 2090 | 24,757,190 | 161,374 | 161,374 | - | 1,904 | _ | 1,904 |
| 2091 | 26,199,872 | 133,567 | 133,567 | - | 1,904 | - | 1,904 |
| 2092 | 27,765,024 | 109,337 | 109,337 | - | 1,400 | - | 1,400 |
| 2093 2094 | 29,456,916 | 88,450 | 88,450 | - | 864 | - | 864 |
| 2094 2095 | | | | - | | - | 648 |
| 2095 2096 | 31,280,336 | 70,650 | 70,650 | - | 648 479 | - | 479 |
| | 33,240,648 | 55,671 | 55,671 | - | | - | |
| 2097 | 35,343,838 | 43,239 | 43,239 | - | 350 | - | 350 |
| 2098 | 37,596,566 | 33,072 | 33,072 | - | 251 | - | 251 |
| 2099 | 40,006,213 | 24,893 | 24,893 | - | 177 | - | 177 |
| 2100 | 42,580,928 | 18,424 | 18,424 | - | 123 | - | 123 |
| 2101 | 45,329,674 | 13,403 | 13,403 | - | 84 | - | 84 |
| 2102 | 48,262,272 | 9,579 | 9,579 | - | 57 | - | 57 |
| 2103 | 51,389,435 | 6,725 | 6,725 | - | 37 | - | 37 |
| 2104 | 54,722,808 | 4,640 | 4,640 | - | 24 | - | 24 |
| 2105 | 58,275,001 | 3,150 | 3,150 | - | 15 | - | 15 |
| 2106 | 62,059,626 | 2,108 | 2,108 | - | 10 | - | 10 |
| 2107 | 66,091,326 | 1,394 | 1,394 | - | 6 | - | 6 |
| 2108 | 70,385,824 | 916 | 916 | - | 4 | - | 4 |
| 2109 | 74,959,957 | 601 | 601 | - | 2 | - | 2 |
| 2110 | 79,831,734 | 397 | 397 | - | 1 | - | 1 |
| 2111 | 85,020,386 | 266 | 266 | - | 1 | - | 1 |
| 2112 | 90,546,436 | 182 | 182 | - | 1 | - | 1 |
| 2113 | 96,431,767 | 127 | 127 | - | - | - | - |
| 2114 | 102,699,700 | 91 | 91 | - | - | - | - |
| 2115 | 109,375,087 | 66 | 66 | - | - | - | - |
| 2116 | 116,484,399 | 49 | 49 | - | - | - | - |
| 2117 | 124,055,834 | 37 | 37 | - | - | - | - |
| 2118 | 132,119,426 | 27 | 27 | - | - | - | - |
| 2119 | 140,707,160 | 20 | 20 | - | - | - | - |
| 2120 | 149,853,105 | 15 | 15 | - | - | - | - |



Appendix F: Additional Disclosures

Table F-1 illustrates the sensitivity of certain valuation results to changes in the discount rate on a market value of assets basis. Table F-2 provides an estimate of future market value of asset returns based on the current portfolio structure and summarized in the "TSERS Asset-Liability and Investment Strategy Project" report dated April 19, 2016.

Section 6(c) of Session Law 2016-108 requires that the actuarial valuation report for certain Retirement Systems provide the valuation results using a 30-year treasury rate as of December 31 of the year of the valuation as the discount rate. This is 1.65% at December 31, 2020 and has been used as the lower bound of the sensitivity analysis presented. The range between the current discount rate (6.50%) and the 30-year treasury rate (1.65%) was used to establish an upper bound for sensitivity analysis (11.35%). The remaining rates illustrated represent mid-points between the selected rates. Table F-2 illustrates our best estimate of the plausibility of such rates. The lower bound of 1.65% falls below the 5th percentile of estimated future 30-year returns while the upper bound of 11.35% falls close to the 95th percentile of estimated future 30-year returns.

Table F-1: Sensitivity of Valuation Results as of December 31, 2020

| Discount Rate | 1.65% | 4.08% | 6.50% | 8.93% | 11.35% |
|--|------------------------------|-----------------------------|---------------------------|--------------------|--------------------|
| Market Value of Asssets | \$ 30,905,570,910 | \$ 30,905,570,910 | \$ 30,905,570,910 | \$ 30,905,570,910 | \$ 30,905,570,910 |
| Actuarial Accrued Liability | \$ 64,605,626,233 | \$ 45,201,397,056 | \$ 33,485,232,590 | \$ 26,011,908,055 | \$ 21,089,815,809 |
| Unfunded Accrued Liability (UAL) | \$ 33,700,055,323 | \$ 14,295,826,146 | \$ 2,579,661,680 | \$ (4,893,662,855) | \$ (9,815,755,101) |
| Funded Ratio | 47.8% | 68.4% | 92.3% | 118.8% | 146.5% |
| 20-Year Amortization of UAL (as % of general local revenue) | \$ 2,024,898,845 11.2% | \$ 1,102,596,763 6.1% | \$ 249,336,918 1.4% | N/A N/A | N/A N/A |



| Horizon | 95% Chance (19 out of every 20 scenarios) | · • | 50% Chance (1 out of every 2 scenarios) | 25% Chance (1 out of every 4 scenarios) | 5% Chance (1 out of every 20 scenarios) |
|--------------------|---|------|---|---|---|
| 10 Years (2025) | 0.2% | 4.0% | 5.9% | 8.0% | 11.5% |
| 20 Years (2035) | 2.2% | 4.8% | 6.7% | 8.5% | 11.8% |
| 30 Years (2045) | 3.1% | 5.3% | 7.1% | 8.7% | 12.0% |

Table F-2: Estimate of Future Asset Returns

Other than the discount rate, these results are based on the other economic and demographic assumptions presented in the report. For purposes of simplicity in this disclosure, no adjustments to the valuation assumption for inflation were reflected in the sensitivities above. The statute also requires that the actuarial valuation report show the results using a market value of assets basis. The "funded ratio" and "unfunded accrued liability" in Table F-1 are based upon the market value of assets. In order to alleviate volatility, future employer contributions are determined based on the actuarial value of assets, which smooths market value returns.

None of the liability amounts shown are intended to imply the amount that might represent the cost of any settlement of the plan's obligations. The various caveats, constraints, and discussions presented earlier in the report apply to these results as well.

This analysis was conducted by the prior actuary as of 12/31/2015, and capital market return expectations (including those of the Board of Trustees) have generally been reduced since that time. We understand that an updated study is being performed for DST.



Appendix G: Data for Section 2 Graphs

The tables below provide the numbers associated with the graphs in Section 2 of this report.

| | Active Member Count | Reported Compensation |
|------|------------------------|--------------------------|
| 2016 | 126,647 | \$ 5,716,583,136 |
| 2017 | 128,779 | 5,944,507,039 |
| 2018 | 129,986 | 6,225,257,140 |
| 2019 | 132,058 | 6,488,881,575 |
| 2020 | 132,397 | 6,846,115,903 |

Graph 1: Active Members

Graph 2: Retired Members and Survivors of Deceased Members

| | Retired and Survivors of Deceased Member Count | Retirement Allowance |
|------|---|-------------------------|
| 2016 | 65,930 | \$ 1,251,874,605 |
| 2017 | 68,766 | 1,324,257,015 |
| 2018 | 72,087 | 1,400,113,021 |
| 2019 | 75,002 | 1,479,483,328 |
| 2020 | 77,556 | 1,553,600,690 |

Graph 3: Market Value of Assets and Asset Returns

| | Market Value of Assets | Asset Return |
|------|---------------------------|--------------|
| 2016 | 23,308,817,567 | 6.22% |
| 2017 | 25,918,361,041 | 13.47% |
| 2018 | 25,045,130,611 | -1.41% |
| 2019 | 28,224,698,297 | 14.83% |
| 2020 | 30,905,570,910 | 11.14% |



| | Total Allowance Increase | National CPI-U |
|------|-----------------------------|----------------|
| 1990 | 0.00% | 6.10% |
| 1991 | 5.20% | 3.10% |
| 1992 | 1.60% | 2.90% |
| 1993 | 3.40% | 2.70% |
| 1994 | 3.30% | 2.70% |
| 1995 | 4.40% | 2.50% |
| 1996 | 6.30% | 3.30% |
| 1997 | 3.10% | 1.70% |
| 1998 | 1.00% | 1.60% |
| 1999 | 4.40% | 2.70% |
| 2000 | 3.70% | 3.40% |
| 2001 | 2.00% | 1.60% |
| 2002 | 3.50% | 2.40% |
| 2003 | 0.00% | 1.90% |
| 2004 | 2.50% | 3.30% |
| 2005 | 2.80% | 3.40% |
| 2006 | 2.20% | 2.50% |
| 2007 | 2.20% | 4.10% |
| 2008 | 0.10% | 0.10% |
| 2009 | 0.00% | 2.70% |
| 2010 | 0.00% | 1.50% |
| 2011 | 0.00% | 3.00% |
| 2012 | 0.00% | 1.70% |
| 2013 | 0.00% | 1.50% |
| 2014 | 0.63% | 0.80% |
| 2015 | 0.11% | 0.70% |
| 2016 | 0.00% | 2.10% |
| 2017 | 0.00% | 2.10% |
| 2018 | 0.00% | 1.90% |
| 2019 | 0.00% | 2.30% |
| 2020 | 0.00% | 1.40% |

Graph 5: Cost-of-Living Increase and CPI-U History

* Allowance increases are effective at July 1 the following year



Appendix G: Data for Section 2 Graphs

Graph 6: Actuarial Value and Market Value of Assets

| | Actuarial Value of Assets | Market Value of Assets |
|------|------------------------------|---------------------------|
| 2016 | 24,424,927,820 | 23,308,817,567 |
| 2017 | 25,520,733,159 | 25,918,361,041 |
| 2018 | 26,307,348,445 | 25,045,130,611 |
| 2019 | 27,435,046,235 | 28,224,698,297 |
| 2020 | 29,387,655,709 | 30,905,570,910 |

Graph 7: Asset Returns

| | Actuarial Value Value of Assets | Market Value Asset Return |
|------|------------------------------------|------------------------------|
| 2016 | 5.34% | 6.22% |
| 2017 | 6.59% | 13.47% |
| 2018 | 5.13% | -1.41% |
| 2019 | 6.23% | 14.83% |
| 2020 | 8.79% | 11.14% |

Graph 8: Actuarial Accrued Liability

| | Liability for Active Members | | Det | Liability for Deferred Members | | Liability for Retired Members | | Total Liability |
|--------------------------------------|---------------------------------|--|-----|---|----|--|----|--|
| 2016 2017 2018 2019 2020 | \$ | 11,498,250,153 12,498,471,452 13,007,988,139 13,488,079,365 15,515,656,027 | \$ | 1,580,234,469 1,689,255,707 1,835,817,327 1,984,320,009 1,442,127,239 | \$ | 12,575,121,366 13,558,140,471 14,379,321,186 15,228,521,929 16,527,449,324 | \$ | 25,653,605,988 27,745,867,630 29,223,126,652 30,700,921,303 33,485,232,590 |



Graph 9:Actuarial Accrued Liability and Actuarial Value of Assets

| | Actuarial Accrued Liability | | | tuarial Value of Assets |
|--------------------------------------|--------------------------------|--|----|--|
| 2016 2017 2018 2019 2020 | \$ | 25,653,605,988 27,745,867,630 29,223,126,652 30,700,921,303 33,485,232,590 | \$ | 24,424,927,820 25,520,733,159 26,307,348,445 27,435,046,235 29,387,655,709 |

Graph 10: Funded Ratios

| | Funded Ratio (Actuarial Basis) | Funded Ratio (Market Value Basis) |
|------|-----------------------------------|--------------------------------------|
| 2016 | 95.2% | 90.9% |
| 2017 | 92.0% | 93.4% |
| 2018 | 90.0% | 85.7% |
| 2019 | 89.4% | 91.9% |
| 2020 | 87.8% | 92.3% |

Graph 11: Actuarially Determined Employer Contribution Rates

| Fiscal Yeaı | General Employees and Firefighters | Law Enforcement Officers | | | |
|-------------|---------------------------------------|-----------------------------|--|--|--|
| 2019 | 7.40% | 8.99% | | | |
| 2020 | 8.56% | 10.22% | | | |
| 2021 | 10.24% | 11.92% | | | |
| 2022* | 11.27% | 12.94% | | | |
| 2023* | 11.22% | 13.00% | | | |
| | | | | | |

* Subject to the impact of future legislative changes effective during that fiscal year



| | Alternate #1 | Baseline | Alternate #2 |
|------|--------------------|------------|---------------------|
| | (0.0% 2020 Return) | Projection | (13.0% 2020 Return) |
| 2021 | 10.24% | 10.24% | 10.24% |
| 2022 | 11.27% | 11.27% | 11.27% |
| 2023 | 11.22% | 11.22% | 11.22% |
| 2024 | 11.49% | 10.82% | 10.14% |
| 2025 | 12.46% | 10.96% | 9.46% |
| 2026 | 12.65% | 10.36% | 8.07% |
| 2027 | 13.38% | 10.28% | 7.18% |
| 2028 | 13.72% | 9.78% | 6.00% |
| 2029 | 13.27% | 9.06% | 6.00% |
| 2030 | 12.89% | 8.57% | 6.00% |
| 2031 | 11.59% | 7.37% | 6.00% |
| 2032 | 10.58% | 6.46% | 6.00% |
| 2033 | 8.86% | 6.00% | 6.00% |
| 2034 | 7.61% | 6.00% | 6.00% |
| 2035 | 6.77% | 6.00% | 6.00% |
| 2036 | 6.00% | 6.00% | 6.00% |
| 2037 | 6.00% | 6.00% | 6.00% |
| 2038 | 6.00% | 6.00% | 6.00% |

Graph 12: Projected Actuarially Determined Employer Contribution Rates

Graph 13: Projected Funded Ratio

| | Alternate #1 | Baseline | Alternate #2 |
|------|--------------------|------------|---------------------|
| | (0.0% 2020 Return) | Projection | (13.0% 2020 Return) |
| 2020 | 87.76% | 87.76% | 87.76% |
| 2021 | 89.04% | 90.19% | 91.33% |
| 2022 | 89.35% | 91.91% | 94.47% |
| 2023 | 91.01% | 94.90% | 98.79% |
| 2024 | 91.80% | 96.95% | 102.10% |
| 2025 | 92.21% | 98.56% | 104.91% |
| 2026 | 93.83% | 100.36% | 106.90% |
| 2027 | 95.41% | 101.76% | 108.12% |
| 2028 | 96.85% | 102.60% | 108.48% |
| 2029 | 98.24% | 103.36% | 108.84% |
| 2030 | 99.51% | 103.99% | 109.20% |
| 2031 | 100.61% | 104.44% | 109.58% |
| 2032 | 101.48% | 104.77% | 109.98% |
| 2033 | 102.10% | 105.03% | 110.40% |
| 2034 | 102.55% | 105.28% | 110.84% |
| 2035 | 102.85% | 105.54% | 111.31% |

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Appendix H: Detailed Table of Rates of Contributions Payable by Employer



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | 12/31/2020 | Estimated Date of |
|----------|-------------|--|-----------|-----------------|----------------|-------------|-------------------|----------------------|
| Employer | LEO Employe | r | General | | General | Law | Unfunded Prior | Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | | Enforcement | Service Liability | Service Liability* |
| | 70505 | Eastern Band of Cherokee Indians | | 13.24% | | 0.14% | | |
| | 72265 | Piedmont Triad Airport Authority | | 13.24% | | 0.14% | | |
| | 72593 | Seagrove, Town | | 13.24% | | 0.14% | | |
| | 72657 | Sparta, Town of | | 13.24% | | 0.14% | | |
| 90001 | 73190 | Yancey County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 90002 | | Yancey Soil & Water Cons | 12.10% | | | | | |
| 90011 | 70330 | Burnsville, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 90092 | | Martin-Tyrrell-Washington Dist Health Dept | 12.14% | | 0.04% | | | |
| 90096 | | Albemarle Regional Health Services | 12.16% | | 0.06% | | | |
| 90098 | | Toe River Health District | 12.16% | | 0.06% | | | |
| 90099 | | Appalachian District Health Dept | 12.12% | | 0.02% | | | |
| 90101 | 70020 | Alamance County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 90111 | 70320 | Burlington, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 90114 | | Mebane, City of | 22.60% | 23.74% | | 0.14% | 3,610,650 | 6/30/2025 |
| 90117 | | Alamance Municipal A.B.C. Board | 12.23% | | 0.13% | | | |
| 90121 | 71080 | Graham, City of | 12.10% | 13.24% | | 0.14% | | |
| 90131 | 70880 | Elon, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 90141 | 71245 | Town of Haw River | 12.10% | 13.24% | | 0.14% | | |
| 90151 | | Alamance, Village of | 12.10% | | | | | |
| 90161 | | Green Level, Town of | 12.10% | | | | | |
| 90201 | 70032 | Alexander County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 90203 | | Alexander County Health Dept | 12.13% | | 0.03% | | | |
| 90205 | | Alexander County Public Library | 12.16% | | 0.06% | | | |
| 90206 | | Alexander County Dept of S S | 12.13% | | 0.03% | | | |
| 90211 | 72775 | Taylorsville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 90301 | 70035 | Alleghany County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 90305 | | Northwestern Regional Library | 12.19% | | 0.09% | | | |
| 90307 | | Sparta A.B.C. Board | 12.63% | | | | 2,194 | 12/31/2028 |
| 90401 | 70040 | Anson County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 90411 | 72930 | Wadesboro, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 90413 | | Wadesboro Housing Authority | 12.17% | | 0.07% | | | |
| 90417 | | Wadesboro A.B.C. Board | 12.21% | | 0.11% | | | |
| 90421 | 71584 | Lilesville, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 90431 | 72345 | Polkton, Town of | 12.22% | 13.24% | 0.12% | 0.14% | | |
| 90441 | | Peachland, Town of | 12.10% | | | | | |
| 90451 | | Ansonville, Town of | 12.10% | | | | | |
| 90461 | | Morven, Town of | 12.10% | | | | | |
| 90501 | 70065 | Ashe County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 90507 | | West Jefferson A.B.C. Board | 15.32% | | | | 24,866 | 6/30/2027 |

North Carolina Local Governmental Employees' Retirement System December 31, 2020 Actuarial Valuation

Appendix H: Detailed Table of Rates of Contributions Payable by Employer



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | | |
|------------------|---------------------|---|----------------------|-----------------|----------------------|--------------------|-------------------------------------|--|
| | | | | | | | 12/31/2020 | Estimated Date of |
| Employer Code | LEO Employe Code | | General Employees | Law Enforcement | General Employees | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| 90511 | 71447 | Employer Jefferson, Town of | 12.10% | 13.24% | Employees | 0.14% | Service Liability | Service Liability |
| 90521 | 73025 | West Jefferson, Town of | 12.10% | 13.24% | | 0.14% | | |
| 90521 | 70090 | Avery County | 12.10% | 13.24% | 0.08% | 0.14% | | |
| 90602 | 70090 | Avery County Fire Commission | 18.35% | 13.24 /0 | 0.00% | 0.1470 | 264,170 | 6/30/2034 |
| 90605 | | Avery-Mitchell-Yancey Reg Library | 12.17% | | 0.07% | | 204,170 | 0/30/2034 |
| 90611 | 70110 | Banner Elk. Town of | 12.10% | 13.24% | 0.0770 | 0.14% | | |
| 90617 | 70110 | High Country A.B. C. Board | 12.15% | 10.2470 | 0.05% | 0.1470 | | |
| 90621 | 72032 | Newland, Town of | 12.10% | 13.24% | 0.0070 | 0.14% | | |
| 90631 | 70146 | Beech Mountain, Town of | 12.10% | 13.24% | | 0.14% | | |
| 90641 | 70140 | Elk Park, Town of | 12.10% | 10.2470 | | 0.1470 | | |
| 90651 | 72724 | Sugar Mountain, Town of | 19.24% | 20.38% | | 0.14% | 181,597 | 6/30/2024 |
| 90701 | 70130 | Beaufort County | 12.14% | 13.24% | 0.04% | 0.14% | 101,001 | 0/00/2021 |
| 90704 | 10100 | Beaufort County A.B.C. Board | 12.22% | 10.2170 | 0.12% | 0.1170 | | |
| 90705 | | B.H.M. Regional Library | 12.21% | | 0.12% | | | |
| 90709 | | Mideast Commission | 12.14% | | 0.04% | | | |
| 90711 | 72990 | Washington, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 90721 | 70085 | Aurora, Town of | 12.22% | 13.24% | 0.12% | 0.14% | | |
| 90731 | 70147 | Belhaven, Town of | 12.10% | 13.24% | | 0.14% | | |
| 90741 | | Washington Park, Town of | 12.10% | | | | | |
| 90751 | 70525 | Chocowinity, Town of | 12.10% | 13.24% | | 0.14% | | |
| 90801 | 70180 | Bertie County | 12.10% | 13.24% | | 0.14% | | |
| 90804 | | Bertie County A.B.C. Board | 12.22% | | 0.12% | | | |
| 90805 | | Albemarle Regional Library | 12.26% | | 0.16% | | | |
| 90808 | | Bertie-Martin Regional Jail Comm | 12.16% | | 0.06% | | | |
| 90811 | | Aulander, Town of | 12.14% | | 0.04% | | | |
| 90812 | 73122 | Windsor, Town of | 12.10% | 13.24% | | 0.14% | | |
| 90813 | | Colerain, Town of | 12.33% | | 0.23% | | | |
| 90861 | 71556 | Lewiston Woodville, Town of | 13.14% | 14.28% | | 0.14% | 1,853 | 6/30/2024 |
| 90901 | 70210 | Bladen County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 90911 | 70850 | Elizabethtown, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 90917 | | Elizabeth A.B.C. Board | 12.10% | | | | | |
| 90918 | | South Eastern Economic Development Comm | 12.12% | | 0.02% | | | |
| 90921 | 73050 | White Lake, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 90931 | 70537 | Clarkton, Town pf | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 90941 | 70215 | Bladenboro, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91001 | 70280 | Brunswick County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91002 | 71540 | Leland, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91003 | | Brunswick Co Health Dept | 12.13% | | 0.03% | | | |
| 91004 | | Brunswick County A.B.C. Board | 12.10% | | | | | |
| 91006 | | Brunswick Co Dept of Social Services | 12.13% | | 0.03% | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death E</u> | enefit Rate | 40/04/0000 | Estimated Data of |
|----------|--------------|---|-----------|-----------------|----------------|-------------|------------------------------|---|
| Employer | LEO Employer | | General | | General | Law | 12/31/2020 Unfunded Prior | Estimated Date of Liguidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | Employees | Enforcement | Service Liability | Service Liability* |
| 91007 | Odde | Calabash A.B.C. Board | 12.10% | Law Enloreement | Employees | Enloreement | Cervice Elability | Cervice Elability |
| 91008 | | Cape Fear Council of Goverments | 12.10% | | | | | |
| 91009 | | Brunswick County Tourism Authority | 13.11% | | | | 6,264 | 6/30/2025 |
| 91010 | | Calabash, Town of | 12.10% | | | | 0,204 | 0/00/2020 |
| 91011 | 72650 | Southport, City of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91012 | 72076 | Northwest, City of | 12.10% | 13.24% | 0.0070 | 0.14% | | |
| 91013 | . 20. 0 | Southeast Brunswick Sanitary District | 18.01% | 1012170 | 0.10% | 0111/0 | 220,832 | 6/30/2038 |
| 91014 | 71375 | Holden Beach, Town of | 12.10% | 13.24% | 011070 | 0.14% | ,00 | 0,00,2000 |
| 91015 | | Cape Fear Regional Jetport | 12.10% | 1012170 | | 0111/0 | | |
| 91017 | | Southport A.B.C. Board | 12.28% | | 0.18% | | | |
| 91020 | | Belville, Town of | 12.74% | | 011070 | | 2,675 | 6/30/2023 |
| 91021 | 71630 | Oak Island, Town of | 12.16% | 13.24% | 0.06% | 0.14% | _, | |
| 91024 | | Carolina Shores Town of | 12.10% | | | | | |
| 91026 | | Navassa, Town of | 19.37% | 20.51% | | 0.14% | 269,474 | 6/30/2035 |
| 91027 | | Oak Island A.B.C. Bd | 12.24% | | 0.14% | | , | |
| 91032 | | St James, Town of | 12.10% | | | | | |
| 91041 | 72723 | Sunset Beach, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91042 | | Brunswick Regional Water and Sewer H2GO | 12.10% | | | | | |
| 91047 | | Sunset Beach A.B.C. Board | 12.41% | | 0.31% | | | |
| 91051 | 70405 | Caswell Beach, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91057 | | Shallotte A.B.C. Board | 12.23% | | 0.13% | | | |
| 91061 | 72135 | Ocean Isle Beach, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91067 | | Ocean Isle Beach A.B.C. | 12.20% | | 0.10% | | | |
| 91071 | 70225 | Boiling Spring Lakes, City of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91077 | | Boiling Spring Lakes A.B.C. Board | 12.10% | | | | | |
| 91081 | 72597 | Shallotte, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91091 | 70107 | Bald Head Island, Village of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91101 | 70290 | Buncombe County | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 91102 | | Land-of-Sky Regional Council | 12.15% | | 0.05% | | | |
| 91104 | | Woodfin A.B.C. Commission | 13.61% | | | | 5,765 | 6/30/2023 |
| 91107 | | Western NC Regional Air Quality | 12.14% | | 0.04% | | | |
| 91108 | | Metro Sewerage Dist of Buncombe County | 12.14% | | 0.04% | | | |
| 91109 | | Woodfin Sanitary Water and Sewer Dist | 12.14% | | 0.04% | | | |
| 91111 | 70190 | Biltmore Forest, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91120 | | West Buncombe Fire Dept | 12.10% | | | | | |
| 91121 | 70070 | Asheville, City of | 12.10% | 13.24% | | 0.14% | | |
| 91127 | 70072 | Asheville A.B.C. Board | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91128 | 70074 | Asheville Regional Airport Authority | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91138 | | Skyland Vol Fire Dept | 12.10% | | | | | |
| 91141 | 73016 | Weaverville, Town of | 12.19% | 13.24% | 0.09% | 0.14% | | |

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The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | otal Rate** | <u>Death E</u> | <u>enefit Rate</u> | | |
|------------------|----------------------|---------------------------------------|----------------------|-----------------|----------------------|--------------------|---|---|
| Employer Code | LEO Employer Code | Employer | General Employees | Law Enforcement | General Employees | Law Enforcement | 12/31/2020 Unfunded Prior Service Liability | Estimated Date of Liquidation of Prior Service Liability* |
| 91147 | | Weaverville A.B.C. Board | 12.10% | | | | 1,113 | 6/30/2021 |
| 91151 | 70200 | Black Mountain, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91154 | | Black Mountain A.B.C. Board | 12.19% | | 0.09% | | | |
| 91161 | 71820 | Montreat, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91171 | 73160 | Woodfin, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91201 | 70310 | Burke County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91203 | | Burke Co Health Dept | 12.14% | | 0.04% | | | |
| 91206 | | Burke Co Dept of Social Services | 12.14% | | 0.04% | | | |
| 91208 | | Burke County Tourism Dev. Authority | 12.10% | | | | | |
| 91211 | 72883 | Valdese, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91213 | | Valdese Housing Authority | 12.10% | | | | | |
| 91214 | | Rutherford College, Town of | 12.10% | | | | | |
| 91217 | | Morganton A.B.C. Board | 12.19% | | 0.09% | | | |
| 91221 | 70745 | Drexel, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91231 | 71870 | Morganton, City of | 12.10% | 13.24% | | 0.14% | | |
| 91233 | | Morganton Housing Authority | 12.15% | | 0.05% | | | |
| 91241 | 71065 | Glen Alpine, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91251 | | Hildebran, Town of | 12.10% | | | | | |
| 91261 | | Connelly Springs, Town of | 12.10% | | | | | |
| 91301 | 70340 | Cabarrus County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91302 | | Water & Sewer Auth of Cabarrus County | 12.13% | | 0.03% | | | |
| 91306 | | Cabarrus Co Public Health Auth | 12.13% | | 0.03% | | | |
| 91308 | | Cabarrus County Tourism Authority | 12.77% | | | | 44,001 | 6/30/2029 |
| 91311 | 70590 | Concord, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91317 | | Concord A.B.C. Board | 12.19% | | 0.09% | | | |
| 91321 | | Mount Pleasant, Town of | 12.10% | | | | | |
| 91327 | | Mount Pleasant A.B.C. Board | 12.14% | | 0.04% | | | |
| 91331 | 71468 | Kannapolis, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91341 | | Midland, Town of | 12.10% | | | | | |
| 91401 | 70350 | Caldwell County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91411 | 71090 | Granite Falls, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91414 | | Rhodhiss, Town of | 12.10% | | | | | |
| 91417 | | Granite Falls A.B.C. Board | 12.24% | | 0.14% | | | |
| 91421 | | Sawmills, Town of | 12.10% | | | | | |
| 91423 | | Lenoir Housing Authority | 12.15% | | 0.05% | | | |
| 91431 | 71395 | Hudson, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91441 | | Harrisburg, Town of | 12.10% | | | | | |
| 91451 | 71552 | Lenoir, City of | 12.22% | 13.24% | 0.12% | 0.14% | | |
| 91457 | | Lenoir A.B.C.Board | 12.10% | | | | 10,047 | 6/30/2021 |
| 91501 | 70357 | Camden County | 12.17% | 13.24% | 0.07% | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | 40/04/00000 | |
|------------------|----------------------|--|----------------------|-----------------|----------------------|--------------------|-------------------------------------|--|
| Freedower | | | Canaral | | Conorol | Low | 12/31/2020 | Estimated Date of |
| Employer Code | LEO Employer Code | | General Employees | Law Enforcement | General Employees | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| 91504 | Code | Employer Camden County A.B.C. Board | 12.31% | | 0.21% | LINOICEMENT | Oct vice Elability | |
| 91601 | 70380 | Carteret County | 12.16% | 13.24% | 0.21% | 0.14% | | |
| 91604 | 70385 | Carteret County A.B.C. Board | 12.10% | 13.24% | 0.00% | 0.14% | | |
| 91608 | 10000 | Western Carteret Interlocal Cooperation Agency | 12.10% | 10.2470 | 0.1270 | 0.1470 | | |
| 91611 | 71860 | Morehead City, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91621 | 72035 | Newport, Town of | 12.10% | 13.24% | 0.0470 | 0.14% | | |
| 91631 | 70145 | Beaufort, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91633 | 10140 | Beaufort Housing Authority | 12.10% | 10.2470 | 0.0070 | 0.1470 | | |
| 91641 | 72290 | Pine Knoll Shores, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 91651 | 70890 | Emerald Isle, Town of | 12.10% | 13.24% | 0.0070 | 0.14% | | |
| 91661 | 71405 | Indian Beach. Town of | 12.10% | 13.24% | | 0.14% | | |
| 91671 | 70365 | Cape Carteret, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91681 | 70080 | Atlantic Beach, Town of | 18.43% | 19.47% | 0.10% | 0.14% | 782,314 | 6/30/2025 |
| 91691 | 10000 | Cedar Point, Town of | 12.10% | | 011070 | 0 | . 02,0 | 0,00,2020 |
| 91701 | 70415 | Caswell County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91704 | | Caswell County A.B.C. Board | 12.23% | | 0.13% | | | |
| 91706 | | Caswell Co Dept of Social Services | 12.17% | | 0.07% | | | |
| 91719 | | Yanceyville, Town of | 12.13% | | 0.03% | | | |
| 91801 | 70430 | Catawba County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91804 | | Catawba County A.B.C. Board | 12.25% | | 0.15% | | | |
| 91811 | 71330 | Hickory, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91812 | | Hickory Conover Tourism Dev Auth | 12.10% | | | | | |
| 91813 | | Hickory Public Housing Authority | 12.13% | | 0.03% | | | |
| 91818 | | Western Piedmont Council of Gvmts | 12.10% | | | | | |
| 91819 | | Western Piedmont Regional Transit Authority | 12.31% | | 0.21% | | | |
| 91821 | 70535 | Claremont, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91831 | 71700 | Maiden, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91841 | 71640 | Longview, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91851 | 70610 | Conover, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 91861 | 70270 | Brookford, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91871 | 72040 | Newton, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 91881 | 70441 | Catawba, Town of | 12.10% | 13.24% | | 0.14% | | |
| 91901 | 70490 | Chatham County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91903 | | Chatham Co Housing Auth | 12.10% | | | | | |
| 91904 | | Chatham County A.B.C. Board | 12.22% | | 0.12% | | | |
| 91908 | | Goldston-Gulf Sanitary District | 12.10% | | | | | |
| 91911 | 72625 | Siler City, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 91917 | | Siler City A.B.C. Board | 12.16% | | 0.06% | | | |
| 91921 | 72330 | Pittsboro, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92001 | 70500 | Cherokee County | 12.18% | 13.24% | 0.08% | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | To | tal Rate** | <u>Death E</u> | enefit Rate | | |
|----------------|-------------|--|------------------|------------------|----------------|--------------------|-------------------------------------|----------------------|
| | | | | | a . | | 12/31/2020 | Estimated Date of |
| Employer | LEO Employe | | General | Low Enforcement | General | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | Employees | Enforcement | Service Liability | Service Liability* |
| 92005 | 74075 | Nantahala Regional Library | 12.28% | 10.040/ | 0.18% | 0 1 40/ | | |
| 92011 | 71975 | Murphy, Town of | 12.21% | 13.24% | 0.11% | 0.14% | | |
| 92017 92021 | 70036 | Murphy A.B.C. Board Andrews, Town of | 12.15% 12.10% | 13.24% | 0.05% | 0.14% | | |
| 92021 | 70030 | Chowan County | 12.10% | 13.24% | 0.06% | 0.14% | | |
| 92101 | 70530 | Chowan County Chowan County A.B.C. Board | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 92104 92109 | | - | 12.23% | | 0.13% | | | |
| | 70017 | Albemarle Regional Planning & Development Comm | | 10.040/ | | 0 1 4 0/ | | |
| 92111 | 70817 | Edenton, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92113 | 70520 | New Edenton Housing Auth | 12.21% | 10.040/ | 0.11% | 0 1 1 0 / | | |
| 92201 92214 | 70538 | Clay County Clay County A.B.C. Board | 12.16% 12.10% | 13.24% | 0.06% | 0.14% | | |
| 92301 | 70550 | Cleveland County | 12.10% | 13.24% | 0.04% | 0.14% | | |
| 92301 | 70550 | Cleveland County Water | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 92302 | 72610 | , | 12.10% | 13.24% | 0.05% | 0.14% | | |
| 92311 92317 | 72010 | Shelby, City of | 12.15% | 13.24% | | 0.14% | | |
| 92317 | 71490 | Shelby A.B.C. Board Kings Mountain, City of | 12.19% | 13.24% | 0.09% | 0.14% | | |
| 92321 | 7 1490 | Kings Mountain A.B.C. Board | 12.10% | 13.24% | 0.21% | 0.14% | | |
| 92327 | 70230 | Boiling Springs, Town of | 12.31% | 13.24% | 0.21% | 0.14% | | |
| 92331 | 70230 | Lawndale, Town of | 12.20% | 13.24 /0 | 0.1076 | 0.1470 | | |
| 92341 | 71178 | | 12.10% | 12 240/ | 0.08% | 0.14% | | |
| 92351 | 70580 | Grover, Town of Columbus County | 12.18% | 13.24% 13.24% | 0.08% | 0.14% | | |
| 92401 92403 | 70580 | , | 12.18% | 13.24% | 0.08% | 0.14% | | |
| | 72060 | Whiteville Housing Authority | | 10.040/ | 0.069/ | 0 1 4 0/ | | |
| 92411 92417 | 73060 | Whiteville, City of | 12.16% 12.11% | 13.24% | 0.06% 0.01% | 0.14% | | |
| 92421 | | Whiteville A.B.C. Board Brunswick, Town of | 12.11% | | 0.01% | | | |
| 92421 | | Lake Waccamaw A.B.C. Board | 12.10% | | 0.23% | | | |
| 92431 | 70908 | Fair Bluff, Town of | 12.33% | 13.24% | 0.23% | 0.14% | | |
| 92431 | 70908 | Chadbourn, Town of | 12.10% | 13.24% | | 0.14% | | |
| 92441 | 70430 | West Columbus A.B.C. Board | 12.10% | 13.24 /0 | | 0.1470 | | |
| 92444 | 72760 | Tabor City, Town of | 12.10% | 13.24% | | 0.14% | | |
| 92451 | 71519 | Lake Waccamaw, Town of | 12.10% | 13.24% | | 0.14% | | |
| 92501 | 70650 | Craven County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92502 | 10030 | First Craven Sanitary Dist | 12.10% | 13.2470 | 0.0070 | 0.1470 | | |
| 92502 92504 | | Craven Co A.B.C. Bd | 12.10% | | 0.07% | | | |
| 92504 92505 | | Craven-Pamlico-Carteret Regional Library | 12.17% | | 0.07 % | | | |
| 92506 | | Coastal Carolina Regional Airport | 12.21% | | 0.23% | | | |
| 92507 | | Neuse River Council of Governments | 12.33% | | 0.23% | | | |
| 92508 | | Coastal Regional Solid Waste Mngt Auth | 12.12% | | 0.02 % | | | |
| 92508 | 72020 | New Bern, City of | 12.17% | 13.24% | 0.07 % | 0.14% | | |
| 92513 | 12020 | Trillium Health Resources | 12.13% | 13.2470 | 0.03% | 0.1470 | | |
| 92010 | | | 12.13% | | 0.03% | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | 40/04/0000 | Estimated Data of |
|------------------|---------------------|--|-----------|-----------------|----------------|--------------------|-------------------------------------|--|
| Employer | | | General | | General | Low | 12/31/2020 | Estimated Date of |
| Employer Code | LEO Employe Code | Employer | Employees | Law Enforcement | | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| 92521 | 72810 | Trent Woods. Town of | 12.18% | 13.24% | 0.08% | 0.14% | Oct vice Elability | OCIVICE Elability |
| 92531 | 71240 | Havelock, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92541 | 72435 | River Bend, Town of | 12.10% | 13.24% | 0.0070 | 0.14% | | |
| 92551 | 72910 | Vanceboro, Town of | 12.10% | 13.24% | | 0.14% | | |
| 92561 | 72010 | Bridgeton, Town of | 12.10% | 13.24% | | 0.14% | | |
| 92571 | | Cove City, Town of | 12.10% | 10.2170 | | 0.1170 | | |
| 92601 | 70680 | Cumberland County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 92602 | 10000 | Westarea Volunteer Fire Dept | 12.10% | 10.2170 | 0.0170 | 0.1170 | | |
| 92604 | 70685 | Cumberland Co A.B.C. Board | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 92607 | | Mid-Carolina Council Of Governments | 12.14% | 1012170 | 0.04% | 011170 | | |
| 92611 | 70940 | Fayetteville, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92613 | | Fayetteville Metropolitan Housing Auth | 12.16% | | 0.06% | | | |
| 92614 | | Fayetteville Public Works Commission | 17.33% | | | | 3,643,742 | 6/30/2022 |
| 92621 | 72715 | Stedman, Town of | 12.10% | 13.24% | | 0.14% | -,, | |
| 92631 | 71390 | Hope Mills, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92641 | | Wade, Town of | 12.10% | | | | | |
| 92651 | | Linden, Town of | 12.10% | | | | | |
| 92661 | 72676 | Spring Lake, Town of | 18.78% | 19.86% | 0.06% | 0.14% | 986,075 | 6/30/2024 |
| 92671 | | Falcon Town of | 18.52% | | | | 13,693 | 6/30/2026 |
| 92681 | | Eastover, Town of | 12.15% | | 0.05% | | | |
| 92701 | 70700 | Currituck County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92704 | | Currituck Co A.B.C. Board | 12.10% | | | | | |
| 92801 | 70720 | Dare County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92802 | | Dare County Tourism Board | 12.13% | | 0.03% | | | |
| 92804 | 70721 | Dare County A.B.C. Board | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 92811 | 71980 | Nags Head, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 92821 | 71480 | Kill Devil Hills, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92831 | 71705 | Manteo, Town of | 12.20% | 13.24% | 0.10% | 0.14% | | |
| 92841 | 72645 | Southern Shores, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 92851 | 71507 | Kitty Hawk, Town of | 12.21% | 13.24% | 0.11% | 0.14% | | |
| 92861 | 70755 | Duck, Town of | 12.10% | 13.24% | | 0.14% | | |
| 92901 | 70723 | Davidson County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 92911 | 72780 | Thomasville, City of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 92913 | | Thomasville Housing Authority | 28.53% | | | | 137,722 | 6/30/2024 |
| 92914 | | Thomasville A.B.C. Board | 12.10% | | | | | |
| 92917 | | Lexington A.B.C. Board | 12.31% | | 0.21% | | | |
| 92921 | 70730 | Denton, Town of | 12.10% | 13.24% | | 0.14% | | |
| 92931 | 71570 | Lexington, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 92941 | | Midway, Town of | 14.39% | | | | 21,777 | 3/31/2038 |
| 93001 | 70725 | Davie County | 12.14% | 13.24% | 0.04% | 0.14% | | |



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| | | | <u>To</u> | tal Rate** | <u>Death E</u> | enefit Rate | 10/01/00000 | Estimated Date of |
|------------------|----------------------|---|-----------|-----------------|----------------|-------------|------------------------------|---|
| Employer | | | General | | General | Law | 12/31/2020 Unfunded Prior | Estimated Date of Liquidation of Prior |
| Employer Code | LEO Employer Code | Employer | Employees | Law Enforcement | | Enforcement | Service Liability | Service Liability* |
| 93009 | Code | Davie Soil and Water Conservation Dist | 12.10% | | Linployees | LINOICEMENT | Oct vice Elability | OCIVICE Elability |
| 93011 | 71790 | Mocksville, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 93021 | 11150 | Bermuda Run, Town of | 12.10% | 10.2470 | 0.0070 | 0.1470 | | |
| 93028 | | Mocksville-Cooleemee A.B.C. Board | 12.10% | | | | | |
| 93031 | 70624 | Cooleemee, Town of | 18.30% | 19.44% | | 0.14% | 13,228 | 9/30/2027 |
| 93101 | 70770 | Duplin County | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 93108 | | Eastpointe Human Services | 12.14% | | 0.04% | | | |
| 93111 | 70160 | Beulaville, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 93121 | 71469 | Kenansville, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 93127 | | Kenansville A.B.C. Board | 12.10% | | | | | |
| 93131 | 72981 | Warsaw, Town of | 12.46% | 13.24% | 0.36% | 0.14% | | |
| 93137 | | Warsaw A.B.C. Board | 12.10% | | | | | |
| 93141 | | Faison, Town of | 12.15% | | 0.05% | | | |
| 93151 | 72970 | Wallace, Town of | 12.10% | 13.24% | | 0.14% | | |
| 93157 | | Wallace A.B.C. Bd | 12.10% | | | | | |
| 93161 | 72487 | Rose Hill, Town of | 12.20% | 13.24% | 0.10% | 0.14% | | |
| 93171 | | Calypso, Town of | 12.10% | | | | | |
| 93181 | | Teachey, Town of | 12.10% | | | | | |
| 93191 | 71690 | Magnolia, Town of | 12.10% | 13.24% | | 0.14% | | |
| 93201 | 70790 | Durham County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 93204 | 70800 | Durham County A.B.C. Board | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 93209 | | Alliance Behavioral Healthcare | 12.10% | | | | | |
| 93211 | 70780 | Durham, City of | 12.10% | 13.24% | | 0.14% | | |
| 93212 | | Durham Convention & Visitors Bureau | 17.81% | | | | 407,233 | 6/30/2025 |
| 93219 | | Triangle J Council of Governments | 12.13% | | 0.03% | | | |
| 93301 | 70820 | Edgecombe County | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 93304 | | Edgecombe County A.B.C. Board | 12.20% | | 0.10% | | | |
| 93305 | | Edgecombe County Memorial Library | 12.19% | | 0.09% | | | |
| 93309 | | Upper Coastal Plain Council of Governements | 12.14% | | 0.04% | | | |
| 93311 | 72770 | Tarboro, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 93317 | | Tarboro Redevelopment Commission | 12.16% | | 0.06% | | | |
| 93321 | 72480 | Rocky Mount, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 93323 | | Rocky Mount-Wilson Airport Authority | 12.14% | | 0.04% | | | |
| 93331 | 72296 | Pinetops, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 93333 | | Rocky Mt Housing Authority | 12.10% | | | | | |
| 93341 | | Macclesfield, Town of | 12.13% | | 0.03% | | | |
| 93351 | 72351 | Princeville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 93401 | 70951 | Forsyth County | 12.10% | 13.24% | | 0.14% | | |
| 93406 | | Piedmont Triad Regional Council | 12.20% | | 0.10% | | | |
| 93411 | 73130 | Winston-Salem, City of | 12.10% | 13.24% | | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death E</u> | enefit Rate | | |
|------------------|---------------------|---------------------------------------|-----------|-----------------|----------------|--------------------|-------------------------------------|--|
| Employer | | | General | | General | Low | 12/31/2020 | Estimated Date of |
| Employer Code | LEO Employe Code | Employer | Employees | Law Enforcement | Employees | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| 93413 | Code | Winston-Salem Housing Authority | 12.15% | | 0.05% | LINOICEMENT | Oct vice Elability | OCIVICE Elability |
| 93413 | 73140 | Triad Municipal A.B.C. Board | 12.13% | 13.24% | 0.03 % | 0.14% | | |
| 93421 | 71470 | Kernersville, Town of | 12.10% | 13.24% | 0.1170 | 0.14% | | |
| 93431 | 11470 | Rural Hall, Town of | 12.10% | 10.2470 | 0.04% | 0.1470 | | |
| 93441 | | Clemmons, Village of | 12.10% | | 0.0470 | | | |
| 93442 | | Clemmons Fire Department | 12.10% | | | | | |
| 93451 | | Lewisville, Town of | 12.10% | | | | | |
| 93461 | | Walkertown, Town of | 12.10% | | | | | |
| 93471 | | Tobaccoville, Village of | 12.10% | | | | | |
| 93501 | 70960 | Franklin County | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 93511 | 70970 | Franklinton, Town of | 12.10% | 13.24% | 0101.70 | 0.14% | | |
| 93517 | | Franklinton A.B.C Board | 12.32% | | 0.22% | | | |
| 93521 | 71650 | Louisburg, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 93527 | | Louisburg A.B.C. Board | 12.18% | | 0.08% | | | |
| 93531 | 70295 | Bunn, Town of | 12.10% | 13.24% | | 0.14% | | |
| 93537 | | Bunn A.B.C. Board | 12.10% | - | | | | |
| 93541 | 73200 | Youngsville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 93601 | 71030 | Gaston County | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 93602 | 72682 | Stanley, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 93604 | | Cramerton A.B.C. Board | 12.10% | | | | | |
| 93609 | | Partners Behavioral Health Management | 12.14% | | 0.04% | | | |
| 93610 | | Mcadenville, Town of | 12.13% | | 0.03% | | | |
| 93611 | 71040 | Gastonia, City of | 12.10% | 13.24% | | 0.14% | | |
| 93617 | | Gastonia A.B.C. Board | 12.33% | | 0.23% | | | |
| 93618 | | Gaston County Economic Dev Commission | 22.17% | | | | 30,066 | 12/31/2022 |
| 93621 | 70150 | Belmont, City of | 12.10% | 13.24% | | 0.14% | | |
| 93623 | | Belmont Housing Authority | 12.10% | | | | | |
| 93631 | 70640 | Cramerton, Town of | 12.25% | 13.24% | 0.15% | 0.14% | | |
| 93641 | 70520 | Cherryville, City of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 93647 | | Cherryville A.B.C. Board | 25.31% | | | | 17,081 | 6/30/2023 |
| 93651 | 70705 | Dallas, Town of | 12.10% | 13.24% | | 0.14% | | |
| 93661 | 71655 | Lowell, City of | 12.10% | 13.24% | | 0.14% | | |
| 93671 | | Bessemer City, City of | 12.21% | 13.24% | 0.11% | 0.14% | | |
| 93681 | 72390 | Ranlo, Town of | 12.10% | 13.24% | | 0.14% | | |
| 93691 | 71930 | Mount Holly, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 93701 | 71050 | Gates County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 93704 | | Gates County A.B.C. Board | 12.29% | | 0.19% | | | |
| 93801 | 71085 | Graham County | 12.10% | 13.24% | | 0.14% | | |
| 93803 | | Graham Co Health Dept | 12.14% | | 0.04% | | | |
| 93806 | | Graham County Dept of S S | 12.14% | | 0.04% | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | Death Benefit Rate | | 40/04/0000 | |
|------------------|-------------|--|-----------|-----------------|--------------------|--------------------|------------------------------|---|
| Employer | LEO Employe | | General | | General | Low | 12/31/2020 Unfunded Prior | Estimated Date of Liguidation of Prior |
| Employer Code | Code | Employer | Employees | Law Enforcement | | Law Enforcement | Service Liability | Service Liability* |
| 93821 | Code | Robbinsville, Town of | 12.18% | | 0.08% | LINOICEMENT | Oct vice Elability | |
| 93901 | 71110 | Granville County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 93904 | 71110 | Granville Co A.B.C. Bd | 12.10% | 10.2470 | 0.15% | 0.1470 | | |
| 93906 | | Granville County Hospital | 12.13% | | 0.03% | | | |
| 93908 | | Granville-Vance Public Health | 12.13% | | 0.03% | | | |
| 93910 | | South Granville Water and Sewer Authority | 12.22% | | 0.12% | | | |
| 93911 | 72200 | Oxford, City of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 93913 | | Oxford Housing Authority | 12.16% | | 0.06% | | | |
| 93914 | | Stovall, Town of | 12.35% | | 0.25% | | | |
| 93921 | 70660 | Creedmoor, City of | 12.10% | 13.24% | | 0.14% | | |
| 93931 | | Butner, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 94001 | 71130 | Greene County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 94002 | | Maury Sanitary Land District | 12.10% | | | | | |
| 94004 | | Greene County A.B.C. Board | 12.22% | | 0.12% | | | |
| 94005 | | Neuse Regional Library-Greene County | 12.27% | | 0.17% | | | |
| 94011 | | Hookerton, Town of | 12.12% | | 0.02% | | | |
| 94021 | | Snow Hill, Town of | 12.10% | 13.24% | | 0.14% | | |
| 94031 | | Walstonburg, Town of | 19.38% | | | | 41,371 | 9/30/2033 |
| 94101 | 71180 | Guilford County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 94102 | | Guil-Rand Fire Department | 12.10% | | | | | |
| 94108 | | Pinecroft-Sedgefield Fire Dist Inc | 12.10% | | | | | |
| 94109 | | Alamance Commuity Fire District | 12.10% | | | | | |
| 94111 | 71140 | Greensboro, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 94112 | | Piedmont Triad Reg Water Auth | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 94117 | | Greensboro A.B.C. Bd | 12.18% | | 0.08% | | | |
| 94118 | | Guilford Fire District #13 Inc | 12.10% | | | | | |
| 94121 | 71340 | High Point, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 94127 | | High Point A.B.C. Bd | 12.19% | | 0.09% | | | |
| 94131 | | Jamestown, Town of | 12.15% | | 0.05% | a <i>i i</i> ai | | |
| 94151 | 71060 | Gibsonville, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 94157 | | Gibsonville A.B.C. Board | 12.10% | | | | | |
| 94161 | | Oak Ridge, Town of | 12.10% | | | | | |
| 94168 | | Colfax Volunteer Fire Department | 12.10% | | | | | |
| 94171 | | Summerfield, Town of | 12.10% | | 0.00% | | | |
| 94172 | 74000 | Summerfield Fire District | 12.13% | 40.040/ | 0.03% | 0.4.40/ | | |
| 94201 | 71200 | Halifax County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 94204 | | Halifax County A.B.C. Board | 12.18% | | 0.08% | | | |
| 94205 | | Halifax County Tourism Development Authority | 12.20% | | 0.10% | | | |
| 94209 | 70905 | Roanoke Rapids Sanitary District | 12.15% | 12 040/ | 0.05% | 0 1 4 9/ | | |
| 94211 | 70895 | Enfield, Town of | 12.24% | 13.24% | 0.14% | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death E</u> | enefit Rate | | |
|----------------|----------------|---|------------------|-----------------|----------------|-------------|-------------------|----------------------|
| | | | | | | | 12/31/2020 | Estimated Date of |
| Employer | LEO Employe | | General | | General | Law | Unfunded Prior | Liquidation of Prior |
| Code | Code | Employer | | Law Enforcement | | Enforcement | Service Liability | Service Liability* |
| 94221 | 72440 | Roanoke Rapids, City of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 94231 | 73017 | Weldon, Town of | 12.20% | 13.24% | 0.10% | 0.14% | | |
| 94241 | 72590 | Scotland Neck, Town of | 12.22% | 13.24% | 0.12% | 0.14% | | |
| 94251 | 71015 | Hobgood, Town of | 12.16% | 10.010/ | 0.06% | 0.4.49/ | | |
| 94261 | 71615 | Littleton, Town of | 12.10% | 13.24% | 0.05% | 0.14% | | |
| 94301 | 71230 | Harnett County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 94311 | 70760 | Dunn, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 94313 | | Dunn Housing Authority | 12.20% | | 0.10% | | | |
| 94317 | | Dunn A.B.C. Board | 12.22% | 10.0101 | 0.12% | | | |
| 94321 | 71585 | Lillington, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 94331 | 70900 | Erwin, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 94341 | 70570 | Coats, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 94347 | 70000 | Angier A.B.C. Board | 12.15% | 10.04% | 0.05% | 0.4.40/ | | |
| 94351 | 70038 | Angier, Town of | 12.10% | 13.24% | 0.050/ | 0.14% | | |
| 94401 | 71250 | Haywood County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 94403 | | Haywood County Tourism Development Authority | 12.10% | | 0.000/ | | | |
| 94408 | 70040 | Junaluska Sanitary District | 12.16% | 40.040/ | 0.06% | 0.4.40/ | | |
| 94411 | 73010 | Waynesville, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 94412 | 74005 | Waynesville A.B.C. Board | 12.22% | 40.040/ | 0.12% | 0.4.40/ | | |
| 94421 | 71685 | Maggie Valley, Town of | 12.10% | 13.24% | | 0.14% | | |
| 94427 | | Maggie Valley A.B.C. Board | 12.10% | | | | | |
| 94428 | 70000 | Maggie Valley Sanitary Dist | 12.10% | 10.04% | 0.00% | 0.4.40/ | | |
| 94431 | 70362 | Canton, Town of | 12.16% | 13.24% | 0.06% | 0.14% | 00.074 | C/20/2007 |
| 94437 | 74075 | Canton A.B.C. Board | 16.98% | 40.040/ | 0.040/ | 0.4.40/ | 36,374 | 6/30/2027 |
| 94501 | 71275 | Henderson County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 94511 | 71280 | Hendersonville, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 94517 | 74505 | Hendersonville A.B.C. Bd | 12.10% | 40.040/ | 0.070/ | 0.4.40/ | | |
| 94521 | 71525 | Laurel Park, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 94527 94531 | | Laurel Park A.B.C. Board | 12.17% | | 0.07% | | | |
| | | Flat Rock, Village of | 12.10% | | 0.049/ | | | |
| 94532 94541 | 70943 | Blue Ridge Fire Department Fletcher, Town of | 12.14% 12.10% | 13.24% | 0.04% | 0.14% | | |
| 94541 94547 | 10943 | Fletcher A.B.C. Board | 12.10% | 13.2470 | | U.1470 | | |
| 94547 94551 | | Hetcher A.B.C. Board Mills River, Town of | 12.10% | | 0.22% | | | |
| 94551 94601 | 71010 | | 12.32% | 12 040/ | 0.22% | 0 1 4 0/ | | |
| 94601 | 71310 | Hertford County Hertford County A.B.C. Board | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 94604 94611 | 70007 | Ahoskie, Town of | 12.10% | 13.24% | 0.08% | 0.14% | | |
| 94611 | 70007 71970 | Murfreesboro, Town of | 12.20% | 13.24% | 0.1070 | 0.14% | | |
| 94621 94631 | 11970 | Winton, Town of | 12.10% | 13.24 /0 | 0.15% | 0.1470 | | |
| 94631 94641 | | | 12.25% | | 0.15% | | | |
| 9404 1 | | Cofield, Town of | 12.10% | | | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | | Estimated Date of |
|----------------|----------------------|--|---------------------|-----------------|--------------------|----------------------|-------------------------------------|--|
| | | | | | | | 12/31/2020 | Estimated Date of |
| Employer | LEO Employer Code | | General | Law Enforcement | General | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| Code 94701 | 71370 | Employer | Employees 12.16% | 13.24% | Employees 0.06% | Enforcement 0.14% | Service Liability | Service Liability |
| | /13/0 | Hoke County | | 13.24% | | 0.14% | | |
| 94704 94711 | 72355 | Hoke County A.B.C. Board Raeford, Town of | 12.20% 12.17% | 13.24% | 0.10% | 0.14% | | |
| 94711 94801 | 72355 71400 | Hyde County | 12.17% | 13.24% | 0.07% 0.06% | 0.14% | | |
| 94801 94804 | 7 1400 | Hyde County A.B.C. Board | 12.10% | 13.24% | 0.00% | 0.14% | | |
| 94804 | | Ocracoke Sanitary Dist | 12.10% | | 0.07% | | | |
| 94901 | 71420 | Iredell County | 12.17 % | 13.24% | 0.07 % | 0.14% | | |
| 94901 | 7 1420 | Greater Statesville Development Corp | 12.14 % | 13.24 /0 | 0.04 /0 | 0.1470 | | |
| 94908 | 72700 | Statesville, City of | 12.10% | 13.24% | 0.05% | 0.14% | | |
| 94917 | 12100 | Statesville A.B.C. Board | 12.13% | 13.2470 | 0.00% | 0.1470 | | |
| 94917 | 71850 | Mooresville, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 94923 | 71000 | Mooresville Housing Authority | 12.16% | 10.2470 | 0.06% | 0.1470 | | |
| 94927 | | Mooresville A.B.C. Board | 12.16% | | 0.06% | | | |
| 94931 | 72815 | Troutman, Town of | 12.23% | 13.24% | 0.13% | 0.14% | | |
| 94937 | 72010 | Troutman A.B.C. Board | 12.10% | 10.2470 | 0.1070 | 0.1470 | | |
| 94941 | | Mi Connection Communications System | 12.10% | | | | | |
| 94947 | | Valdese A.B.C. Board | 12.10% | | | | | |
| 95001 | 71430 | Jackson County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 95002 | | Tuckaseigee Water Authority | 12.16% | 1012170 | 0.06% | 011170 | | |
| 95005 | | Fontana Regional Library | 12.18% | | 0.08% | | | |
| 95008 | | Southwestern NC Planning & Econ Dev Comm | 12.14% | | 0.04% | | | |
| 95009 | | Vaya Health | 12.13% | | 0.03% | | | |
| 95010 | | Jackson County Tourism Development Authority | 12.10% | | | | | |
| 95011 | 72750 | Sylva, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 95017 | | Jackson County A.B.C. Board | 12.18% | | 0.08% | | | |
| 95101 | 71460 | Johnston County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 95103 | | Benson Housing Authority | 16.03% | | | | 154,526 | 12/31/2036 |
| 95104 | | Johnston County A.B.C. Board | 12.22% | | 0.12% | | , | |
| 95105 | | Public Library of Johnston Co and Smithfield | 12.15% | | 0.05% | | | |
| 95106 | | Archer Lodge, Town of | 12.85% | | 0.22% | | 2,476 | 6/30/2024 |
| 95110 | | Johnston Health Center | 12.19% | | 0.09% | | | |
| 95111 | 72630 | Smithfield, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 95113 | | Smithfield Housing Authority | 22.78% | | | | 106,315 | 6/30/2023 |
| 95121 | 72594 | Selma, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 95122 | | Micro, Town of | 12.10% | 15.71% | | 0.14% | 13,064 | 6/30/2030 |
| 95123 | | Selma Houing Authority | 12.13% | | 0.03% | | | |
| 95131 | 70540 | Clayton, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 95141 | 70170 | Benson, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 95151 | 70954 | Four Oaks, Town of | 12.10% | 13.24% | | 0.14% | | |
| 95161 | 72295 | Pine Level, Town of | 12.10% | 13.24% | | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death E</u> | enefit Rate | | |
|------------------|----------------------|-------------------------------------|---------------------|-----------------|----------------------|--------------------|-------------------------------------|--|
| | | | 0 | | • • | | 12/31/2020 | Estimated Date of |
| Employer Code | LEO Employer Code | | General | Law Enforcement | General Employees | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| 95171 | 71472 | Employer Kenly, Town of | Employees 12.10% | 13.24% | Employees | 0.14% | Service Liability | Service Liability |
| 95171 | 72349 | Princeton, Town of | 12.10% | 13.24% | | 0.14% | | |
| 95181 | 12349 | Wilson's Mills, Town of | 14.92% | 16.06% | | 0.14% | 137,615 | 3/31/2032 |
| 95191 95201 | 71465 | Jones County | 14.92% | 13.24% | 0.04% | 0.14% | 137,015 | 3/31/2032 |
| 95201 | 7 1405 | Jones County A.B.C. Board | 12.14 % | 13.2470 | 0.04 % | 0.1470 | | |
| 95204 | | Neuse Regional Library-Jones County | 12.23 % | | 0.13% | | | |
| 95205 95211 | | Pollocksville, Town of | 12.18% | | 0.08% | | | |
| 95221 | 71745 | Maysville, Town of | 12.10% | 13.24% | 0.40 /6 | 0.14% | | |
| 95301 | 71535 | Lee County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 95301 95311 | 71535 | Sanford,City of | 12.10% | | 0.00% | 0.14% | | |
| 95317 | 72303 | Sanford A.B.C. Board | 12.10% | 13.24% | 0.11% | 0.14% | | |
| 95321 | 70265 | Broadway, Town of | 12.21% | 13.24% | 0.11% | 0.14% | | |
| 95401 | 71550 | Lenoir County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 95401 95404 | 71550 | Lenoir County A.B.C. Board | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 95404 95405 | | Neuse Regional Library | 12.14% | 13.2470 | 0.04% | 0.1470 | | |
| 95405 | 71500 | Kinston, City of | 12.14% | 13.24% | 0.04 % | 0.14% | | |
| 95413 | 71500 | Kinston Housing Authority | 12.17% | 13.2470 | 0.05% | 0.1470 | | |
| 95415 | | Kinston-Lenoir Co Pub Library | 12.10% | | 0.10% | | | |
| 95421 | 72305 | Pink Hill, Town of | 12.20% | 13.24% | 0.06% | 0.14% | | |
| 95431 | 72505 | Lagrange, Town of | 12.14% | 13.2470 | 0.00% | 0.1470 | | |
| 95501 | 71590 | Lincoln County | 12.14 % | 13.24% | 0.04 % | 0.14% | | |
| 95504 | 71550 | Lincoln County A.B.C. Board | 13.24% | 13.2470 | 0.0370 | 0.1470 | 5,834 | 6/30/2023 |
| 95504 95511 | 71600 | Lincolnton, City of | 13.24 % | 13.24% | 0.05% | 0.14% | 5,054 | 0/30/2023 |
| 95513 | 71000 | Lincolnton Housing Authority | 12.13% | 13.24 /0 | 0.03% | 0.1476 | | |
| 95517 | | Lincolnton A.B.C. Board | 12.10% | | 0.00% | | | |
| 95601 | 71680 | Macon County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 95611 | 70955 | Franklin, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 95617 | 10000 | Highlands A.B.C. Board | 12.30% | 10.2470 | 0.20% | 0.1470 | | |
| 95621 | 71335 | Highlands, Town of | 12.10% | 13.24% | 0.2070 | 0.14% | | |
| 95701 | 71684 | Madison County | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 95711 | 71718 | Mars Hill, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 95721 | 71711 | Marshall, Town of | 12.10% | 13.24% | 0.11% | 0.14% | | |
| 95733 | | Hot Springs Housing Authority | 12.10% | | 0 | 0 | | |
| 95801 | 71730 | Martin County | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 95802 | | Martin Co Travel & Tourism Auth | 12.37% | | 0.27% | | | |
| 95804 | | Martin County A.B.C. Board | 12.14% | | 0.04% | | | |
| 95811 | 73080 | Williamston, Town of | 12.10% | 13.24% | | 0.14% | | |
| 95813 | | Williamston Housing Authority | 12.21% | | 0.11% | | | |
| 95821 | | Oak City, Town of | 12.10% | | | | | |
| 95831 | | Hamilton, Town of | 12.17% | | 0.07% | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | 10/01/0000 | |
|----------|--------------|--|-----------|-----------------|----------------|-------------|------------------------------|---|
| Employer | LEO Employer | | General | | General | Law | 12/31/2020 Unfunded Prior | Estimated Date of Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | | Enforcement | Service Liability | Service Liability* |
| 95841 | Obac | Jamesville, Town of | 12.10% | Law Enlorcement | Employees | Enloreement | Cervice Elability | Colvice Elability |
| 95851 | 72445 | Robersonville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 95853 | 12110 | Robersonville Authority | 12.10% | 10.2170 | | 0.1170 | | |
| 95901 | 71762 | McDowell County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 95908 | | Pleasant Garden Fire Dept | 12.10% | | | | | |
| 95911 | 71710 | Marion, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 95917 | | Marion A.B.C. Board | 12.10% | | | | | |
| 95921 | 72140 | Old Fort, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96001 | 71770 | Mecklenburg County | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 96003 | | Charlotte Housing Authority | 12.10% | | | | | |
| 96004 | 71780 | Mecklenburg County A.B.C. Board | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 96005 | | Charlotte Mecklenburg Public Library | 12.13% | | 0.03% | | | |
| 96008 | | Mecklenburg Emer Med Svcs Agcy | 12.12% | | 0.02% | | | |
| 96009 | | Centralina Council Of Governments | 12.10% | | | | | |
| 96011 | 70480 | Charlotte, City of | 12.10% | 13.24% | | 0.14% | | |
| 96012 | | Charlotte Regional Visitors Authority | 12.10% | | | | | |
| 96018 | | Charlotte Firemen's Ret Sys | 12.10% | | | | | |
| 96021 | 72300 | Pineville, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96031 | 71775 | Mint Hill, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96041 | 71397 | Huntersville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96051 | 70625 | Cornelius, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96061 | 72679 | Stallings, Town of | 12.19% | 13.24% | 0.09% | 0.14% | | |
| 96071 | 71740 | Matthews, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96081 | 70724 | Davidson, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 96101 | 71788 | Mitchell County | 12.21% | 13.24% | 0.11% | 0.14% | | |
| 96102 | | Mitchell Soil & Water Conservation Dist | 12.10% | | | | | |
| 96111 | 72678 | Spruce Pine, Town of | 12.20% | 13.24% | 0.10% | 0.14% | | |
| 96121 | 70105 | Bakersville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96201 | 71815 | Montgomery County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 96204 | | Montgomery-Municpal A.B.C. Board | 12.19% | | 0.09% | | | |
| 96211 | 72685 | Star, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96221 | 72822 | Troy, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96231 | 70192 | Biscoe, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96241 | 70360 | Candor, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96251 | 71920 | Mount Gilead, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 96301 | 71830 | Moore County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 96302 | 72776 | Taylortown, Town of | 12.10% | 13.24% | 0.40% | 0.14% | | |
| 96304 | | Moore County A.B.C. Board | 12.20% | | 0.10% | | | |
| 96305 | | Moore County Tourism Development Authority | 12.25% | | 0.15% | | | |
| 96310 | | Moore County Airport Authority | 12.17% | | 0.07% | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | | |
|-------|--------------|---|-----------|-----------------|----------------|-------------|-------------------|----------------------|
| | | | | | | | 12/31/2020 | Estimated Date of |
| | LEO Employer | | General | | General | Law | Unfunded Prior | Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | 1 7 | Enforcement | Service Liability | Service Liability* |
| 96311 | 72640 | Southern Pines, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96312 | 70358 | Cameron, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96318 | | Sandhills Center | 12.10% | | | | | |
| 96321 | 72920 | Vass, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 96331 | 70005 | Aberdeen, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 96341 | 72443 | Robbins, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96351 | 72287 | Pinehurst, Village of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96361 | 72285 | Pinebluff, Town of | 12.32% | 13.24% | 0.22% | 0.14% | | |
| 96371 | 73040 | Whispering Pines, Village of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 96381 | 70953 | Foxfire Village | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 96391 | 70390 | Carthage, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96401 | 71990 | Nash County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96404 | 72000 | Nash County A.B.C. Board | 12.19% | 13.24% | 0.09% | 0.14% | | |
| 96405 | | Braswell Memorial Library | 12.10% | | | | 62,549 | 6/30/2026 |
| 96411 | 72675 | Spring Hope, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96421 | 71995 | Nashville, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 96431 | 71785 | Middlesex, Town of | 12.21% | 13.24% | 0.11% | 0.14% | | |
| 96441 | 73045 | Whitakers, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96451 | 70104 | Bailey, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96461 | 72600 | Sharpsburg, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96501 | 72030 | New Hanover County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96502 | 72024 | New Hanover Airport Auth | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 96503 | | Wilmington Housing Authority | 18.45% | | | | 576,910 | 6/30/2024 |
| 96504 | | New Hanover County A.B.C. Board | 12.27% | | 0.17% | | , | |
| 96507 | | Cape Fear Public Utility Authority | 12.10% | | | | | |
| 96508 | | Lower Cape Fear Water & Sewer Auth | 12.20% | | 0.10% | | | |
| 96511 | 73165 | Wrightsville Beach, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 96512 | | Cape Fear Public Transportation Authority | 12.10% | | | | | |
| 96521 | 70375 | Carolina Beach, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96531 | 73090 | Wilmington, City of | 12.10% | 13.24% | | 0.14% | | |
| 96541 | 71515 | Kure Beach, Town of | 12.22% | 13.24% | 0.12% | 0.14% | | |
| 96601 | 72060 | Northampton County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 96604 | | Northampton County A.B.C. Board | 12.32% | | 0.22% | | | |
| 96611 | 72432 | Rich Square, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96612 | | Choanoke Public Transportation Auth | 12.10% | | | | | |
| 96621 | 73162 | Woodland. Town of | 12.10% | 13.24% | | 0.14% | | |
| 96631 | 71020 | Garysburg, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96641 | 70620 | Conway, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96651 | 71032 | Gaston, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96661 | 71435 | Jackson, Town of | 12.10% | 13.24% | | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | 10/04/00000 | |
|------------------|-------------|---|-----------|-----------------|----------------|-------------|------------------------------|--|
| Employer | LEO Employe | | General | | General | Law | 12/31/2020 Unfunded Prior | Estimated Date of |
| Employer Code | Code | Employer | Employees | Law Enforcement | Employees | Enforcement | Service Liability | Liquidation of Prior Service Liability* |
| 96671 | Code | Severn, Town of | 12.10% | | Employees | Enlorcement | Service Liability | |
| 96681 | 72591 | Seaboard, Town | 16.81% | 17.95% | | 0.14% | 32,960 | 12/31/2025 |
| 96701 | 72150 | Onslow County | 12.14% | 13.24% | 0.04% | 0.14% | 52,500 | 12/31/2023 |
| 96704 | 72100 | Onslow County A.B.C. Board | 12.18% | 10.2470 | 0.08% | 0.1470 | | |
| 96708 | | Onslow Water & Sewer Authority | 13.42% | | 0.10% | | 432,618 | 6/30/2027 |
| 96711 | 71440 | Jacksonville, City of | 12.15% | 13.24% | 0.05% | 0.14% | 102,010 | 0/00/2021 |
| 96721 | 72745 | Swansboro, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 96722 | | Swepsonville, Town of | 12.10% | 1012170 | 0.0070 | 0 | | |
| 96731 | 71380 | Holly Ridge, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96741 | 72420 | Richlands, Town of | 12.10% | 13.24% | 0.0170 | 0.14% | | |
| 96751 | 72789 | North Topsail Beach, Town of | 12.23% | 13.24% | 0.13% | 0.14% | | |
| 96801 | 72170 | Orange County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96804 | | Orange County A.B.C. Board | 12.14% | | 0.04% | | | |
| 96808 | | Orange Water and Sewer Authority | 12.14% | | 0.04% | | | |
| 96811 | 70470 | Chapel Hill, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 96821 | 70372 | Carrboro, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96831 | 71360 | Hillsborough, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 96901 | 72210 | Pamlico County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 96911 | | Bayboro, Town of | 12.10% | | | | | |
| 96912 | 72195 | Oriental, Town of | 12.10% | 13.24% | | 0.14% | | |
| 96918 | | Bay River Metro Sewerage District | 12.25% | | 0.15% | | | |
| 97001 | 72220 | Pasquotank County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 97002 | | Pasquotank-Camden Ambulance Service | 12.14% | | 0.04% | | | |
| 97004 | | Pasquotank Co A.B.C. Board | 12.15% | | 0.05% | | | |
| 97005 | | East Albemarle Regional Library | 12.15% | | 0.05% | | | |
| 97008 | | Albemarle District Jail Commission | 12.10% | | | | | |
| 97011 | 70840 | Elizabeth City | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 97012 | | Elizabeth City-Pasquotank Co Airport Auth | 12.10% | | | | 2,575 | 6/30/2021 |
| 97013 | | Elizabeth City Pasquotank County TDA | 14.37% | | | | 28,899 | 6/30/2032 |
| 97015 | | Pasquotank-Camden Library | 12.18% | | 0.08% | | | |
| 97018 | | Elizabeth City-Pasquotank Co Industrial Development | 12.15% | | 0.05% | | | |
| 97101 | 72235 | Pender County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 97104 | | Pender County A.B.C. Board | 12.22% | | 0.12% | | | |
| 97111 | 70300 | Burgaw, Town of | 12.10% | 13.24% | | 0.14% | | |
| 97121 | 72790 | Topsail Beach, Town of | 12.19% | 13.24% | 0.09% | 0.14% | | |
| 97131 | 72725 | Surf City, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 97201 | 72245 | Perquimans County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 97211 | 71300 | Hertford, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 97213 | | Hertford Housing Auth | 12.10% | | | | | |
| 97217 | | Hertford A.B.C. Board | 12.22% | | 0.12% | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | | |
|------------------|---------------------|---|-------------------------|-----------------|----------------|----------------------|-------------------------------------|--|
| | | | o 1 | | | | 12/31/2020 | Estimated Date of |
| Employer Code | LEO Employe Code | | General | Law Enforcement | General | Law | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| 97221 | 73124 | Employer Winfall, Town of | Employees | 13.24% | Employees | Enforcement 0.14% | Service Liability | Service Liability |
| | | | 12.10% | | 0.05% | | | |
| 97301 97302 | 72250 | Person County | 12.15% 12.10% | 13.24% | 0.05% | 0.14% | | |
| 97302 97304 | | Roxboro Housing Authority Person Co A.B.C. Bd | 12.10% | | 0.16% | | | |
| 97311 | 72520 | Roxboro, City of | 12.20% | 13.24% | 0.06% | 0.14% | | |
| 97401 | 72520 | | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 97401 | 72310 | Pitt County Pitt-Greenville Conv & Vistors | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 97402 97404 | 72320 | Pitt County A.B.C. Board | 12.10% | 13.24% | 0.05% | 0.14% | | |
| | 12320 | | 12.15% | 13.24% | | 0.14% | | |
| 97405 | | Sheppard Memorial Library | | | 0.08% | | | |
| 97408 97411 | 71160 | Contennea Metropolitan Sewerage Dist Greenville, City of | <u>12.16%</u> 12.14% | 13.24% | 0.06% | 0.14% | | |
| 97412 | 71100 | Greenville Utilities Commission | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 97412 | | | 12.14% | | 0.04% | | | |
| 97413 | 70930 | Greenville Housing Authority Farmville, Town of | | 13.24% | | 0 1 40/ | | |
| 97421 | 70930 | Farmville Housing Authority | 12.14% 19.04% | 13.24% | 0.04% | 0.14% | 60.404 | 6/30/2025 |
| 97423 | 71170 | Grifton, Town of | 19.04% | 13.24% | 0.08% | 0.14% | 69,404 | 6/30/2025 |
| 97431 | 70157 | Bethel, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| | | | | 13.24% | | 0.14% | | |
| 97451 | 73150 | Winterville, Town of | 12.14% | | 0.04% | | | |
| 97461 | 70100 | Ayden, Town of | 12.10% | 13.24% | 0.000/ | 0.14% | | |
| 97471 | 70000 | Grimesland, Town of | 12.19% | 40.040/ | 0.09% | 0.4.40/ | | |
| 97481 | 72626 | Simpson, Village of | 12.10% | 13.24% | 0.000/ | 0.14% | | |
| 97501 | 72340 | Polk County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 97511 | 72823 | Tryon, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 97521 | 70581 | Columbus, Town of | 12.10% | 13.24% | | 0.14% | | |
| 97527 | 70500 | Columbus A.B.C. Board | 12.10% | 40.040/ | 0.05% | 0.4.40/ | | |
| 97531 | 72560 | Saluda, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 97601 | 72380 | Randolph County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 97607 | 70004 | Asheboro A.B.C. Board | 12.10% | 10.04% | 0.05% | 0.4.40/ | | |
| 97611 | 70064 | Asheboro, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 97613 | 70077 | Asheboro Housing Authority | 12.19% | 40.040/ | 0.09% | 0.4.40/ | | |
| 97621 | 72377 | Randleman, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 97623 | | Randleman Housing Authority | 12.16% | | 0.06% | | | |
| 97627 | 74500 | Randleman A.B.C. Board | 12.14% | 40.040/ | 0.04% | 0.4.40/ | | |
| 97631 | 71582 | Liberty, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 97641 | 72375 | Ramseur, Town of | 12.10% | 13.24% | 0.000/ | 0.14% | | |
| 97651 | 70063 | Archdale, City of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 97661 | 70400 | Trinity, City of | 12.10% | 10.040/ | 0.059/ | 0 1 40/ | | |
| 97701 | 72430 | Richmond County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 97705 | 70400 | Sandhill Regional Library | 12.18% | 40.040/ | 0.08% | 0.4.40/ | | |
| 97711 | 72460 | Rockingham, City of | 12.16% | 13.24% | 0.06% | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death E</u> | enefit Rate | | |
|------------------|---------------------|-------------------------------------|-----------|-----------------|----------------|--------------------|-------------------------------------|--|
| F | | _ | General | | General | 1 | 12/31/2020 | Estimated Date of |
| Employer Code | LEO Employe Code | ۱ Employer | Employees | Law Enforcement | | Law Enforcement | Unfunded Prior Service Liability | Liquidation of Prior Service Liability* |
| 97713 | Code | Rockingham Authority | 12.13% | | 0.03% | LINOICEMENT | Oct vice Elability | OCIVICE LIADIIITY |
| 97717 | | Hamlet A.B.C. Board | 12.15% | | 0.05% | | | |
| 97721 | 71220 | Hamlet, City of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 97727 | 11220 | Rockingham A.B.C. Board | 12.17% | 10.2470 | 0.09% | 0.1470 | | |
| 97731 | | Ellerbe, Town of | 12.10% | | 0.0070 | | | |
| 97801 | 72450 | Robeson County | 12.10% | 13.24% | 0.04% | 0.14% | | |
| 97802 | 12100 | Lumber River Council of Governments | 12.13% | 10.2170 | 0.03% | 0.1170 | | |
| 97803 | | Robeson County Housing Authority | 12.24% | | 0.14% | | | |
| 97805 | | Robeson County Public Library | 12.17% | | 0.07% | | | |
| 97811 | 71670 | Lumberton, City of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 97817 | | Lumberton A.B.C. Board | 12.10% | | | | | |
| 97818 | | Lumberton Airport Comm | 12.10% | | | | | |
| 97821 | 70910 | Fairmont, Town of | 12.23% | 13.24% | 0.13% | 0.14% | | |
| 97823 | | Fairmont Housing Authority | 12.15% | | 0.05% | | | |
| 97831 | 72540 | St Pauls, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 97837 | | St Paul's Brd of Alcoholic CTL | 12.10% | | | | | |
| 97840 | 71750 | Maxton, Town of | 17.16% | 18.21% | 0.09% | 0.14% | 124,040 | 6/30/2023 |
| 97841 | | Parkton, Town of | 14.15% | | | | 24,012 | 6/30/2034 |
| 97847 | | Maxton A.B.C. Board | 12.26% | | 0.16% | | | |
| 97851 | 72228 | Pembroke, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 97853 | | Pembroke Housing Authority | 12.10% | | | | | |
| 97861 | 72510 | Rowland, Town of | 12.24% | 13.24% | 0.14% | 0.14% | | |
| 97871 | 72395 | Red Springs, Town of | 18.77% | 19.83% | 0.08% | 0.14% | 224,186 | 6/30/2022 |
| 97877 | | Red Springs A.B.C. Board | 12.10% | | | | | |
| 97901 | 72470 | Rockingham County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 97911 | 72400 | Reidsville, City of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 97913 | | New Reidsville Housing Auth | 12.20% | | 0.10% | | | |
| 97917 | | Reidsville A.B.C. Board | 12.16% | | 0.06% | | | |
| 97921 | 71755 | Mayodan, Town of | 12.22% | 13.24% | 0.12% | 0.14% | | |
| 97931 | 72721 | Stoneville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 97941 | 71683 | Madison, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 97947 | | Madison A.B.C. Board | 15.66% | | | | 9,697 | 12/31/2022 |
| 97948 | | Madison-Mayodan Recreation Comm | 12.10% | | | | | |
| 97951 | 70815 | Eden, City of | 12.10% | 13.24% | | 0.14% | | |
| 97957 | | Eden A.B.C. Board | 12.10% | | | | | |
| 98001 | 72490 | Rowan County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98002 | | rowen Convention & Visitors Bureau | 12.19% | | | | 161 | 6/30/2026 |
| 98003 | | Rowan Co Housing Authority | 12.10% | | | | 13,324 | 6/30/2021 |
| 98004 | | Rowan County A.B.C. Board | 12.22% | | 0.12% | | | |
| 98008 | | Rowan Co Soil & Water Conv Dist | 13.14% | | | | 1,222 | 6/30/2023 |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | | |
|----------|--------------|---|-----------|-----------------|----------------|-------------|-------------------|----------------------|
| | | | | | | | 12/31/2020 | Estimated Date of |
| Employer | LEO Employer | | General | | General | Law | Unfunded Prior | Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | 1 7 | Enforcement | Service Liability | Service Liability* |
| 98011 | 72550 | Salisbury, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 98013 | | Salisbury Housing Authority | 12.10% | | | | | |
| 98021 | 70812 | East Spencer, Town of | 12.25% | 13.24% | 0.15% | 0.14% | | |
| 98023 | | East Spencer Housing Authority | 12.13% | | 0.03% | | | |
| 98031 | 72665 | Spencer, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 98041 | 70522 | China Grove, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98051 | 71522 | Landis, Town of | 12.10% | 13.24% | | 0.14% | | |
| 98061 | 71105 | Granite Quarry, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 98071 | 72475 | Rockwell, Town of | 12.10% | 13.24% | | 0.14% | | |
| 98081 | | Faith, Town of | 12.10% | | | | | |
| 98091 | 70552 | Cleveland, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98101 | 72530 | Rutherford County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98102 | | Broad River Water Authority | 12.14% | | 0.04% | | | |
| 98103 | | Rutherford Polk McDowell Dist Brd of Health | 12.14% | | 0.04% | | | |
| 98107 | | Forest City A.B.C. Board 168 | 12.10% | | | | | |
| 98109 | | Isothermal Planning and Dev Comm | 12.15% | | 0.05% | | | |
| 98111 | 70950 | Forest City, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98113 | | Forest City Housing Authority | 12.10% | | | | | |
| 98121 | 72670 | Spindale, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98131 | 71518 | Lake Lure, Town of | 12.10% | 13.24% | | 0.14% | | |
| 98141 | 72535 | Rutherfordton, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98147 | | Rutherfordton A.B.C. Board | 12.10% | | | | | |
| 98161 | | Ellenboro, Town of | 12.10% | | | | | |
| 98201 | 72563 | Sampson County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 98205 | | J C Holiday Mem Library | 12.14% | | 0.04% | | | |
| 98211 | 70555 | Clinton, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98218 | | Clinton A.B.C. Board | 12.15% | | 0.05% | | | |
| 98221 | | Salemburg, Town of | 12.14% | | 0.04% | | | |
| 98231 | 72050 | Newton Grove, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 98237 | | Roseboro A.B.C. Board | 12.10% | | | | | |
| 98241 | 71000 | Garland, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98251 | | Turkey, Town of | 12.23% | | 0.13% | | | |
| 98261 | | Roseboro, Town of | 12.17% | | 0.07% | | | |
| 98271 | | Autryville, Town of | 12.14% | | 0.04% | | | |
| 98301 | 72580 | Scotland County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98304 | | Scotland County A.B.C. Board | 12.20% | | 0.10% | | | |
| 98308 | | Laurinburg-Maxton Airport Commission | 12.10% | | | | | |
| 98311 | 71530 | Laurinburg, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98313 | | Laurinburg Housing Authority | 18.84% | | 0.09% | | 683,131 | 12/31/2026 |
| 98321 | 72935 | Wagram, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | | |
|----------|--------------|---------------------------------------|-----------|-----------------|----------------|-------------|-------------------|----------------------|
| | | | | | | | 12/31/2020 | Estimated Date of |
| Employer | LEO Employer | | General | | General | Law | Unfunded Prior | Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | Employees | Enforcement | Service Liability | Service Liability* |
| 98331 | | Gibson, Town of | 13.69% | | | | 2,970 | 3/31/2025 |
| 98401 | 72683 | Stanly County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98404 | | Locust A.B.C. Board | 12.10% | | | | | |
| 98411 | 70030 | Albemarle, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98414 | 71786 | Misenheimer, Village of | 12.28% | 13.24% | 0.18% | 0.14% | | |
| 98417 | | Albemarle A.B.C. Board | 12.10% | | | | 7,930 | 12/31/2023 |
| 98421 | 72110 | Norwood, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 98427 | | Norwood A.B.C. Bd | 12.10% | | | | | |
| 98431 | 71620 | Locust, City of | 12.10% | 13.24% | | 0.14% | | |
| 98441 | 72120 | Oakboro, Town of | 12.10% | 13.24% | | 0.14% | | |
| 98451 | 70103 | Badin, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98471 | | New London, Town of | 12.10% | | | | | |
| 98481 | 72680 | Stanfield, Town of | 12.10% | 13.24% | | 0.14% | | |
| 98501 | 72720 | Stokes County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 98511 | | Walnut Cove, Town of | 12.16% | | 0.06% | | | |
| 98517 | | Walnut Cove A.B.C. Board | 12.10% | | | | | |
| 98521 | 71487 | King, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98601 | 72730 | Surry County | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 98604 | | Yadkin Valley A.B.C. Board | 12.10% | | | | | |
| 98607 | | Pilot Mountain A.B.C. Board | 12.10% | | | | | |
| 98608 | | Yadkin Valley Sewer Authority | 12.10% | | | | | |
| 98611 | 72280 | Pilot Mountain, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 98621 | 70735 | Dobson, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98627 | | Dobson A.B.C. Bd | 12.10% | | | | | |
| 98631 | 71910 | Mount Airy, City of | 12.24% | 13.24% | 0.14% | 0.14% | | |
| 98637 | | Mount Airy Alcoholic Board of Control | 12.17% | | 0.07% | | | |
| 98641 | 70855 | Elkin, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98701 | 72740 | Swain County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98711 | 70285 | Bryson City, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 98717 | | Bryson City A.B.C. Board | 12.18% | | 0.08% | | | |
| 98801 | 72800 | Transylvania County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 98811 | 70260 | Brevard, City of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 98817 | | Brevard A.B.C. Board | 12.10% | - | | - | | |
| 98901 | 72825 | Tyrrell County | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 98904 | | Tyrrell Co A.B.C. Board | 12.18% | | 0.08% | | | |
| 98911 | | Columbia, Town of | 12.10% | | | | | |
| 99001 | 72830 | Union County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99011 | 71800 | Monroe, City of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99013 | 000 | Monroe Housing Authority | 12.17% | | 0.07% | 0 | | |
| 99014 | | Indian Trail A.B.C. Board | 13.96% | | 0.14% | | 35,568 | 6/30/2039 |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | 12/31/2020 | Estimated Date of |
|----------|--------------|---|-----------|-----------------|----------------|-------------|-------------------|----------------------|
| Employer | LEO Employer | | General | | General | Law | Unfunded Prior | Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | Employees | Enforcement | Service Liability | Service Liability* |
| 99017 | | Monroe A.B.C. Board | 12.17% | | 0.07% | | | |
| 99021 | 71720 | Marshville, Town of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 99022 | | Mineral Springs, Town of | 16.80% | | | | 54,616 | 6/30/2034 |
| 99031 | 73125 | Wingate, Town of | 12.19% | 13.24% | 0.09% | 0.14% | | |
| 99041 | 72995 | Waxhaw, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99047 | | Waxhaw A.B.C. Board | 12.10% | | | | | |
| 99051 | | Indian Trail, Town of | 12.14% | | 0.04% | | | |
| 99061 | | Unionville, Town of | 12.10% | | | | | |
| 99071 | | Weddington, Town of | 15.20% | | 0.09% | | 30,702 | 6/30/2027 |
| 99081 | | Marvin, Village of | 12.10% | | | | | |
| 99091 | | Wesley Chapel, Village of | 12.10% | | | | | |
| 99101 | 72890 | Vance County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 99104 | | Vance County A.B.C. Bd | 12.10% | | | | | |
| 99109 | | Kerr-Tar Regional Council of Govts | 12.14% | | 0.04% | | | |
| 99110 | | Kerr Area Transportation Authority | 12.10% | | | | | |
| 99111 | 71270 | Henderson, City of | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 99201 | 72940 | Wake County | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 99202 | 71385 | Holly Springs, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 99203 | 72485 | Rolesville, Town of | 12.19% | 13.24% | 0.09% | 0.14% | | |
| 99204 | 72950 | Wake County A.B.C. Board | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 99206 | 71882 | Morrisville, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 99207 | | Wake County Housing Authority | 22.51% | | | | 1,095,553 | 6/30/2031 |
| 99208 | | Bayleaf Fire Department | 12.10% | | | | | |
| 99210 | | Electricities of NC | 12.10% | | | | | |
| 99211 | 72360 | Raleigh, City of | 12.10% | 13.24% | | 0.14% | | |
| 99212 | | Durham Hwy Fire Protection Assoc | 12.10% | | | | | |
| 99213 | | Raleigh Housing Authority | 12.15% | | 0.05% | | | |
| 99218 | 72370 | Raleigh-Durham Airport Authority | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99219 | | Lincolnton-Lincoln County Airport Authority | 12.10% | | | | | |
| 99221 | 70400 | Cary, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99222 | | Centennial Authority | 12.13% | | 0.03% | | | |
| 99231 | 73020 | Wendell, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99241 | 73210 | Zebulon, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 99251 | 71010 | Garner, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99252 | | Garner Fire Dept | 12.12% | | 0.02% | | | |
| 99261 | 70990 | Fuquay-Varina, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99271 | 70050 | Apex, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 99281 | 72960 | Wake Forest, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 99291 | 71510 | Knightdale, Town of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 99301 | 72980 | Warren County | 12.17% | 13.24% | 0.07% | 0.14% | | |

North Carolina Local Governmental Employees' Retirement System

December 31, 2020 Actuarial Valuation



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death B</u> | enefit Rate | 12/31/2020 | Estimated Date of |
|----------|--------------|---|-----------|-----------------|----------------|-------------------------|-------------------|----------------------|
| Employer | LEO Employer | | General | | General | Law | Unfunded Prior | Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | | Enforcement | Service Liability | Service Liability* |
| 99304 | | Warren County A.B.C. Board | 12.10% | | | | · · · | |
| 99311 | 72055 | Norlina, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99321 | 72991 | Warrenton, Town of | 18.95% | 20.09% | | 0.14% | 545,393 | 6/30/2033 |
| 99401 | 72985 | Washington County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 99404 | | Washington County A.B.C. Board | 12.20% | | 0.10% | | | |
| 99405 | | Pettigrew Regional Library | 12.18% | | 0.08% | | | |
| 99411 | 72335 | Plymouth, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 99413 | | Plymouth Housing Authority | 12.17% | | 0.07% | | | |
| 99421 | | Roper, Town of | 12.10% | | | | | |
| 99431 | | Creswell, Town of | 12.15% | | 0.05% | | | |
| 99501 | 72983 | Watauga County | 12.17% | 13.24% | 0.07% | 0.14% | | |
| 99502 | | Region D Council of Governments | 12.10% | | | | | |
| 99508 | | Blowing Rock Tourisim Development Authority | 12.10% | | | | 950 | 6/30/2021 |
| 99509 | | Watauga County District Tourism Dev Auth | 12.10% | | | | | |
| 99511 | 70240 | Boone, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 99521 | 70220 | Blowing Rock, Town of | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99527 | | Blowing Rock A.B.C. Board | 12.10% | | | | | |
| 99531 | 72596 | Seven Devils, Town of | 17.08% | 18.22% | | 0.14% | 165,629 | 6/30/2026 |
| 99601 | 72997 | Wayne County | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 99602 | | Fork Township Sanitary Dist | 12.13% | | 0.03% | | | |
| 99603 | | Eastern Carolina Reg'l Housing Auth | 12.10% | | | | | |
| 99604 | | Wayne County A.B.C. Board | 12.21% | 13.24% | 0.11% | 0.14% | | |
| 99609 | | Southern Wayne Sanitary District | 12.15% | | 0.05% | | | |
| 99610 | | Eastern Wayne Sanitary Dist | 12.23% | | 0.13% | | | |
| 99611 | 71070 | Goldsboro, City of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 99613 | | Goldsboro Housing Authority | 12.15% | | 0.05% | | | |
| 99621 | 71940 | Mount Olive, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99623 | | Mt Olive Housing Authority | 12.10% | | | | | |
| 99624 | | Washington Housing Authority | 12.10% | | | a <i>i i a i</i> | | |
| 99631 | 70980 | Fremont, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99651 | 72270 | Pikeville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99661 | 72977 | Walnut Creek, Village of | 12.10% | 13.24% | | 0.14% | | |
| 99701 | 73075 | Wilkes County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99705 | 70 10 5 | Appalachian Regional Library | 12.10% | 40.040 | 0.000 | 0.4.404 | | |
| 99711 | 72105 | North Wilkesboro, Town of | 12.18% | 13.24% | 0.08% | 0.14% | | |
| 99717 | 70070 | North Wilkesboro A.B.C. Board | 12.18% | 40.040/ | 0.08% | 0.4.40/ | | |
| 99721 | 73072 | Wilkesboro, Town of | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 99727 | 70440 | Wilkesboro A.B.C. Board | 12.10% | 40.040/ | 0.049/ | 0.4.40/ | | |
| 99801 | 73110 | Wilson County | 12.14% | 13.24% | 0.04% | 0.14% | | |
| 99802 | | Wilson County Tourism Development Auth | 12.10% | | | | | |



The table below provides the total contribution rates payable for the year beginning July 1, 2022 by all participating employers.

| | | | <u>To</u> | tal Rate** | <u>Death E</u> | <u>Benefit Rate</u> | | |
|----------|--------------|-------------------------------|-----------|-----------------|----------------|---------------------|------------------------------|---|
| Employer | LEO Employer | | General | | General | Law | 12/31/2020 Unfunded Prior | Estimated Date of Liquidation of Prior |
| Code | Code | Employer | Employees | Law Enforcement | Employees | Enforcement | Service Liability | Service Liability* |
| 99804 | | Wilson County A.B.C. Board | 12.16% | | 0.06% | | | |
| 99811 | 73100 | Wilson, City of | 12.13% | 13.24% | 0.03% | 0.14% | | |
| 99812 | | Wilson Economic Dev Council | 12.10% | | | | | |
| 99818 | | Wilson Cemetary Commission | 12.10% | | | | | |
| 99821 | 72684 | Stantonsburg, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99831 | 70195 | Black Creek, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99841 | | Lucama, Town of | 12.15% | | 0.05% | | | |
| 99851 | 70870 | Elm City, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99901 | 73170 | Yadkin County | 12.15% | 13.24% | 0.05% | 0.14% | | |
| 99911 | 73180 | Yadkinville, Town of | 12.16% | 13.24% | 0.06% | 0.14% | | |
| 99921 | 71467 | Jonesville, Town of | 12.28% | 13.24% | 0.18% | 0.14% | | |
| 99931 | 70805 | East Bend, Town of | 12.19% | 13.24% | 0.09% | 0.14% | | |
| 99941 | 70250 | Boonville, Town of | 12.10% | 13.24% | | 0.14% | | |
| 99991 | | N C Assoc of Co Commissioners | 12.13% | | 0.03% | | | |
| 99999 | | N C League of Municipalities | 12.13% | | 0.03% | | | |

* Must be recalculated annually and adjusted according to each employer's actual experience. The estimated date for liquidation as of the valuation date does not constitute a guarantee that an employer will complete the liquidation as of the estimated date.

** Based on the preliminary contribution rate approved by the Board based on the Employer Contribution Rate Stabilization Policy. Total rate for Law Enforcement employees is subject to reduction for the court cost offset pursuant to G.S. 143-166.50(d).

Appendix I: Prior Service Contribution Rates Estimated Dates of Liquidation by Employer



The table below provides the contribution rates payable for the year beginning July 1, 2022 by the participating employers paying prior service liability rate at the valuation date.

| | Liquidation of Prior Service Liability* 6/30/2025 12/31/2028 6/30/2027 6/30/2034 6/30/2024 |
|--|--|
| 90307 Sparta A.B.C. Board 2,194 0.53% 12/31/2028 90507 West Jefferson ABC Board 24,866 3.22% 6/30/2035 90602 Avery County Fire Commission 264,170 6.25% 12/31/2038 90651 72724 Sugar Mountain, Town Of 181,597 7.14% 3/31/2027 90861 71556 Lewiston-Woodville, Town Of 1,853 1.04% 6/30/2024 91009 Brunswick County Tourism Develop. Authority 6,264 1.01% 9/30/2031 91013 Southeast Brunswick Sanitary District 220,832 5.81% 9/30/2039 | 12/31/2028 6/30/2027 6/30/2034 6/30/2024 |
| 90507 West Jefferson ABC Board 24,866 3.22% 6/30/2035 90602 Avery County Fire Commission 264,170 6.25% 12/31/2038 90651 72724 Sugar Mountain, Town Of 181,597 7.14% 3/31/2027 90861 71556 Lewiston-Woodville, Town Of 1,853 1.04% 6/30/2034 91009 Brunswick County Tourism Develop. Authority 6,264 1.01% 9/30/2031 91013 Southeast Brunswick Sanitary District 220,832 5.81% 9/30/2039 | 6/30/2027 6/30/2034 6/30/2024 |
| 90602 Avery County Fire Commission 264,170 6.25% 12/31/2038 90651 72724 Sugar Mountain, Town Of 181,597 7.14% 3/31/2027 90861 71556 Lewiston-Woodville, Town Of 1,853 1.04% 6/30/2024 91009 Brunswick County Tourism Develop. Authority 6,264 1.01% 9/30/2031 91013 Southeast Brunswick Sanitary District 220,832 5.81% 9/30/2039 | 6/30/2034 6/30/2024 |
| 90651 72724 Sugar Mountain, Town Of 181,597 7.14% 3/31/2027 90861 71556 Lewiston-Woodville, Town Of 1,853 1.04% 6/30/2024 91009 Brunswick County Tourism Develop. Authority 6,264 1.01% 9/30/2031 91013 Southeast Brunswick Sanitary District 220,832 5.81% 9/30/2039 | 6/30/2024 |
| 90861 71556 Lewiston-Woodville, Town Of 1,853 1.04% 6/30/2024 91009 Brunswick County Tourism Develop. Authority 6,264 1.01% 9/30/2031 91013 Southeast Brunswick Sanitary District 220,832 5.81% 9/30/2039 | |
| 91009Brunswick County Tourism Develop. Authority6,2641.01%9/30/203191013Southeast Brunswick Sanitary District220,8325.81%9/30/2039 | 6/30/2024 |
| 91013Southeast Brunswick Sanitary District220,8325.81%9/30/2039 | |
| | 6/30/2025 |
| 91020 Belville. Town Of 2.675 0.64% 6/30/2031 | 6/30/2038 |
| | 6/30/2023 |
| 91026 Town Of Navassa 269,474 7.27% 6/30/2035 | 6/30/2035 |
| 91104 Woodfin Abc Commission 5,765 1.51% 9/30/2033 | 6/30/2023 |
| 91147 Weaverville A.B.C. Board 1,113 9/30/2034 | 6/30/2021 |
| 91308 Cabarrus Co. Tourism Authority 44,001 0.67% 9/30/2032 | 6/30/2029 |
| 91457 Lenoir A.B.C. Board 10,047 3/31/2023 | 6/30/2021 |
| 91681 70080 Atlantic Beach, Town Of 782,314 6.23% 3/31/2028 | 6/30/2025 |
| 92614 Fayetteville Public Works Commission 3,643,742 5.23% 3/31/2027 | 6/30/2022 |
| 92661 72676 Spring Lake, Town Of 986,075 6.62% 9/30/2024 | 6/30/2024 |
| 92671 Falcon, Town Of 13,693 6.42% 6/30/2026 | 6/30/2026 |
| 92913 Thomasville Housing Authority 137,722 16.43% 6/30/2027 | 6/30/2024 |
| 92941 Midway, Town Of 21,777 2.29% 3/31/2038 | 3/31/2038 |
| 93031 70624 Cooleemee, Town Of 13,228 6.20% 9/30/2027 | 9/30/2027 |
| 93212 Durham Convention and Visitors Bureau 407,233 5.71% 9/30/2028 | 6/30/2025 |
| 93618 Gaston Co. Economic Dev. Commission 30,066 10.07% 12/31/2022 | |

Appendix I: Prior Service Contribution Rates Estimated Dates of Liquidation by Employer



The table below provides the contribution rates payable for the year beginning July 1, 2022 by the participating employers paying prior service liability rate at the valuation date.

| Employer Code | LEO Employer Code | Employer | 12/31/2020 Prior Service Liability | 7/1/2022 Prior Service Rate | Original Date of Liquidation of Prior Service Liability | Estimated Date of Liquidation of Prior Service Liability* |
|------------------|-------------------------|--|---------------------------------------|--------------------------------|---|---|
| 93647 | | Cherryville A.B.C. Board | 17.081 | 13.21% | 12/31/2023 | 6/30/2023 |
| 94031 | | Walstonburg, Town Of | 41,371 | 7.28% | 9/30/2033 | 9/30/2033 |
| 94437 | | Canton A.B.C. Board | 36,374 | 4.88% | 12/31/2027 | 6/30/2027 |
| 95103 | | Benson Housing Authority | 154,526 | 3.93% | 12/31/2036 | 12/31/2036 |
| 95106 | | Archer Lodge, Town Of | 2,476 | 0.53% | 9/30/2037 | 6/30/2024 |
| 95113 | | Smithfield Housing Authority | 106,315 | 10.68% | 6/30/2023 | 6/30/2023 |
| 95122 | | Micro, Town Of | 13,064 | 2.47% | 3/31/2036 | 6/30/2030 |
| 95191 | | Wilson's Mills, Town Of | 137,615 | 2.82% | 3/31/2032 | 3/31/2032 |
| 95504 | | Lincoln County A.B.C. Board | 5,834 | 1.14% | 12/31/2028 | 6/30/2023 |
| 96405 | | Braswell Memorial Library | 62,549 | | 6/30/2026 | 6/30/2026 |
| 96503 | | Wilmington Housing Authority | 576,910 | 6.35% | 6/30/2024 | 6/30/2024 |
| 96681 | 72591 | Seaboard, Town Of | 32,960 | 4.71% | 12/31/2025 | 12/31/2025 |
| 96708 | | Onslow Water & Sewage Authority | 432,618 | 1.22% | 12/31/2028 | 6/30/2027 |
| 97012 | | Elizabeth-Pasquotank Co Airport Authority | 2,575 | | 9/30/2024 | 6/30/2021 |
| 97013 | | Elizabeth City-Pasquotank Co. Tourism Dev. Auth. | 28,899 | 2.27% | 6/30/2033 | 6/30/2032 |
| 97423 | | Farmville Housing Authority | 69,404 | 6.94% | 3/31/2028 | 6/30/2025 |
| 97840 | 71750 | Maxton, Town Of | 124,040 | 4.97% | 6/30/2027 | 6/30/2023 |
| 97841 | | Town of Parkton | 24,012 | 2.05% | 9/30/2035 | 6/30/2034 |
| 97871 | 72395 | Red Springs, Town Of | 224,186 | 6.59% | 6/30/2023 | 6/30/2022 |
| 97947 | | Madison A.B.C. Board | 9,697 | 3.56% | 12/31/2022 | 12/31/2022 |
| 98002 | | Rowan County Tourism Development Board | 161 | 0.09% | 6/30/2026 | 6/30/2026 |
| 98003 | | Rowan County Housing Authority | 13,324 | | 12/31/2021 | 6/30/2021 |
| 98008 | | Rowan Soil and Water Conservation District | 1,222 | 1.04% | 6/30/2023 | 6/30/2023 |
| 98313 | | Laurinburg Housing Authority | 683,131 | 6.65% | 12/31/2026 | 12/31/2026 |
| 98331 | 71051 | Gibson, Town Of | 2,970 | 1.59% | 3/31/2025 | 3/31/2025 |
| 98417 | | Albemarle A.B.C. Board | 7,930 | | 12/31/2023 | 12/31/2023 |
| 99014 | | Indian Trail Abc Board | 35,568 | 1.72% | 6/30/2039 | 6/30/2039 |
| 99022 | | Town Of Mineral Springs | 54,616 | 4.70% | 9/30/2034 | 6/30/2034 |

Appendix I: Prior Service Contribution Rates Estimated Dates of Liquidation by Employer



The table below provides the contribution rates payable for the year beginning July 1, 2022 by the participating employers paying prior service liability rate at the valuation date.

| Employer Code | LEO Employer Code | Employer | 12/31/2020 Prior Service Liability | 7/1/2022 Prior Service Rate | Original Date of Liquidation of Prior Service Liability | Estimated Date of Liquidation of Prior Service Liability* |
|------------------|-------------------------|--|---------------------------------------|--------------------------------|---|---|
| 99071 | | Weddington, Town Of | 30,702 | 3.01% | 3/31/2029 | 6/30/2027 |
| 99207 | | Wake County Housing Authority | 1,095,553 | 10.41% | 12/31/2032 | 6/30/2031 |
| 99321 | 72991 | Warrenton, Town Of | 545,393 | 6.85% | 9/30/2037 | 6/30/2033 |
| 99508 | | Blowing Rock Tourism Development Authority | 950 | | 3/31/2029 | 6/30/2021 |
| 99531 | 72596 | Seven Devils, Town Of | 165,629 | 4.98% | 6/30/2026 | 6/30/2026 |

| Employer | Employer Code | LEO Employer Code | |
|--|------------------|-------------------------|------------|
| Aberdeen, Town of | 96331 | 70005 | Avery-Mi |
| Ahoskie, Town of | 94611 | 70007 | Ayden, T |
| Alamance Commuity Fire District | 94109 | | B.H.M. R |
| Alamance County | 90101 | 70020 | Badin, To |
| Alamance Municipal A.B.C. Board | 90117 | | Bailey, T |
| Alamance, Village of | 90151 | | Bakersvi |
| Albemarle A.B.C. Board | 98417 | | Bald Hea |
| Albemarle District Jail Commission | 97008 | | Banner E |
| Albemarle Regional Health Services | 90096 | | Bay Rive |
| Albemarle Regional Library | 90805 | | Bayboro, |
| Albemarle Regional Planning & Development Comm | 92109 | | Bayleaf F |
| Alexander County | 90201 | 70032 | Beaufort |
| Alexander County Dept of S S | 90206 | | Beaufort |
| Alexander County Health Dept | 90203 | | Beaufort |
| Alexander County Public Library | 90205 | | Beaufort |
| Alleghany County | 90301 | 70035 | Beech M |
| Alliance Behavioral Healthcare | 93209 | | Belhaver |
| Andrews, Town of | 92021 | 70036 | Belmont |
| Angier A.B.C. Board | 94347 | | Belmont, |
| Angier, Town of | 94351 | 70038 | Belville, |
| Anson County | 90401 | 70040 | Benson H |
| Ansonville, Town of | 90451 | | Benson, |
| Apex, Town of | 99271 | 70050 | Bermuda |
| Appalachian District Health Dept | 90099 | | Bertie Co |
| Appalachian Regional Library | 99705 | | Bertie Co |
| Archdale, City of | 97651 | 70063 | Bertie-Ma |
| Archer Lodge, Town of | 95106 | | Besseme |
| Ashe County | 90501 | 70065 | Bethel, T |
| Asheboro A.B.C. Board | 97607 | | Beulaville |
| Asheboro Housing Authority | 97613 | | Biltmore |
| Asheboro, City of | 97611 | 70064 | Biscoe, T |
| Asheville A.B.C. Board | 91127 | 70072 | Black Cre |
| Asheville Regional Airport Authority | 91128 | 70074 | Black Mo |
| Asheville, City of | 91121 | 70070 | Black Mo |
| Atlantic Beach, Town of | 91681 | 70080 | Bladen C |
| Aulander, Town of | 90811 | 70082 | Bladenbo |
| Aurora, Town of | 90721 | 70085 | Blowing I |
| Autryville, Town of | 98271 | | Blowing I |
| Avery County | 90601 | 70090 | Blowing I |
| Avery County Fire Commission | 90602 | 70090 | Blue Ride |
| | | | |

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|---|----------------------|------------------|
| Enveloper | Employer Code | Employer Code |
| Employer | Code | Code |
| Avery-Mitchell-Yancey Reg Library | 90605 | |
| Ayden, Town of | 97461 | 70100 |
| B.H.M. Regional Library | 90705 | |
| Badin, Town of | 98451 | 70103 |
| Bailey, Town of | 96451 | 70104 |
| Bakersville, Town of | 96121 | 70105 |
| Bald Head Island, Village of | 91091 | 70107 |
| Banner Elk, Town of | 90611 | 70110 |
| Bay River Metro Sewerage District | 96918 | |
| Bayboro, Town of | 96911 | |
| Bayleaf Fire Department | 99208 | |
| Beaufort County | 90701 | 70130 |
| Beaufort County A.B.C. Board | 90704 | |
| Beaufort Housing Authority | 91633 | |
| Beaufort, Town of | 91631 | 70145 |
| Beech Mountain, Town of | 90631 | 70146 |
| Belhaven, Town of | 90731 | 70147 |
| Belmont Housing Authority | 93623 | |
| Belmont, City of | 93621 | 70150 |
| Belville, Town of | 91020 | |
| Benson Housing Authority | 95103 | |
| Benson, Town of | 95141 | 70170 |
| Bermuda Run, Town of | 93021 | |
| Bertie County | 90801 | 70180 |
| Bertie County A.B.C. Board | 90804 | |
| Bertie-Martin Regional Jail Comm | 90808 | |
| Bessemer City, City of | 93671 | |
| Bethel, Town of | 97441 | 70157 |
| Beulaville, Town of | 93111 | 70160 |
| Biltmore Forest, Town of | 91111 | 70190 |
| Biscoe, Town of | 96231 | 70192 |
| Black Creek, Town of | 99831 | 70195 |
| Black Mountain A.B.C. Board | 91154 | |
| Black Mountain, Town of | 91151 | 70200 |
| Bladen County | 90901 | 70210 |
| Bladenboro, Town of | 90941 | 70215 |
| Blowing Rock A.B.C. Board | 99527 | |
| Blowing Rock Tourisim Development Authority | 99508 | |
| Blowing Rock, Town of | 99521 | 70220 |
| Blue Ridge Fire Department | 94532 | 70220 |



| Employer | Employer Code | LEO Employer Code | |
|---|------------------|-------------------------|-------------|
| Boiling Spring Lakes A.B.C. Board | 91077 | | Camden C |
| Boiling Spring Lakes, City of | 91071 | 70225 | Camden C |
| Boiling Springs, Town of | 92331 | 70230 | Cameron, |
| Boone, Town of | 99511 | 70240 | Candor, T |
| Boonville, Town of | 99941 | 70250 | Canton A. |
| Braswell Memorial Library | 96405 | | Canton, To |
| Brevard A.B.C. Board | 98817 | | Cape Cart |
| Brevard, City of | 98811 | 70260 | Cape Fear |
| Bridgeton, Town of | 92561 | | Cape Fea |
| Broad River Water Authority | 98102 | | Cape Fea |
| Broadway, Town of | 95321 | 70265 | Cape Fea |
| Brookford, Town of | 91861 | 70270 | Carolina B |
| Brunswick Co Dept of Social Services | 91006 | | Carolina S |
| Brunswick Co Health Dept | 91003 | | Carrboro, |
| Brunswick County | 91001 | 70280 | Carteret C |
| Brunswick County A.B.C. Board | 91004 | | Carteret C |
| Brunswick County Tourism Authority | 91009 | | Carthage, |
| Brunswick Regional Water and Sewer H2GO | 91042 | | Cary, Tow |
| Brunswick, Town of | 92421 | | Caswell B |
| Bryson City A.B.C. Board | 98717 | | Caswell C |
| Bryson City, Town of | 98711 | 70285 | Caswell C |
| Buncombe County | 91101 | 70290 | Caswell C |
| Bunn A.B.C. Board | 93537 | | Catawba (|
| Bunn, Town of | 93531 | 70295 | Catawba (|
| Burgaw, Town of | 97111 | 70300 | Catawba, |
| Burke Co Dept of Social Services | 91206 | | Cedar Poi |
| Burke Co Health Dept | 91203 | | Centennia |
| Burke County | 91201 | 70310 | Centralina |
| Burke County Tourism Dev. Authority | 91208 | | Chadbour |
| Burlington, City of | 90111 | 70320 | Chapel Hil |
| Burnsville, Town of | 90011 | 70330 | Charlotte I |
| Butner, Town of | 93931 | | Charlotte I |
| Cabarrus Co Public Health Auth | 91306 | | Charlotte I |
| Cabarrus County | 91301 | 70340 | Charlotte I |
| Cabarrus County Tourism Authority | 91308 | | Charlotte, |
| Calabash A.B.C. Board | 91007 | | Chatham (|
| Calabash, Town of | 91010 | | Chatham (|
| Albemarle, City of | 98411 | 70030 | Chatham (|
| Caldwell County | 91401 | 70350 | Cherokee |
| Calypso, Town of | 93171 | | Cherryville |

| Employer | Employer Code | LEO Employer Code |
|---|------------------|-------------------------|
| Camden County | 91501 | 70357 |
| Camden County A.B.C. Board | 91504 | |
| Cameron. Town of | 96312 | 70358 |
| Candor. Town of | 96241 | 70360 |
| Canton A.B.C. Board | 94437 | 10000 |
| Canton, Town of | 94431 | 70362 |
| Cape Carteret, Town of | 91671 | 70365 |
| Cape Fear Council of Goverments | 91008 | |
| Cape Fear Public Transportation Authority | 96512 | |
| Cape Fear Public Utility Authority | 96507 | |
| Cape Fear Regional Jetport | 91015 | |
| Carolina Beach, Town of | 96521 | 70375 |
| Carolina Shores Town of | 91024 | |
| Carrboro, Town of | 96821 | 70372 |
| Carteret County | 91601 | 70380 |
| Carteret County A.B.C. Board | 91604 | 70385 |
| Carthage, Town of | 96391 | 70390 |
| Cary, Town of | 99221 | 70400 |
| Caswell Beach, Town of | 91051 | 70405 |
| Caswell Co Dept of Social Services | 91706 | |
| Caswell County | 91701 | 70415 |
| Caswell County A.B.C. Board | 91704 | |
| Catawba County | 91801 | 70430 |
| Catawba County A.B.C. Board | 91804 | 70440 |
| Catawba, Town of | 91881 | 70441 |
| Cedar Point, Town of | 91691 | |
| Centennial Authority | 99222 | |
| Centralina Council Of Governments | 96009 | |
| Chadbourn, Town of | 92441 | 70450 |
| Chapel Hill, Town of | 96811 | 70470 |
| Charlotte Firemen's Ret Sys | 96018 | |
| Charlotte Housing Authority | 96003 | |
| Charlotte Mecklenburg Public Library | 96005 | |
| Charlotte Regional Visitors Authority | 96012 | |
| Charlotte, City of | 96011 | 70480 |
| Chatham Co Housing Auth | 91903 | |
| Chatham County | 91901 | 70490 |
| Chatham County A.B.C. Board | 91904 | |
| Cherokee County | 92001 | 70500 |
| Cherryville A.B.C. Board | 93647 | |



| Employer | Employer Code | LEO Employer Code | |
|--|------------------|-------------------------|---------------|
| Cherryville, City of | 93641 | 70520 | Craven Co A |
| China Grove, Town of | 98041 | 70522 | Craven Coun |
| Choanoke Public Transportation Auth | 96612 | TOOLL | Creedmoor, (|
| Chocowinity, Town of | 90751 | 70525 | Creswell, To |
| Chowan County | 92101 | 70530 | Cumberland |
| Chowan County A.B.C. Board | 92104 | | Cumberland |
| Claremont, City of | 91821 | 70535 | Currituck Co |
| Clarkton, Town pf | 90931 | 70537 | Currituck Cou |
| Clay County | 92201 | 70538 | Dallas, Town |
| Clay County A.B.C. Board | 92214 | | Dare County |
| Clayton, Town of | 95131 | 70540 | Dare County |
| Clemmons Fire Department | 93442 | | Dare County |
| Clemmons, Village of | 93441 | | Davidson Co |
| Cleveland County | 92301 | 70550 | Davidson, To |
| Cleveland County Water | 92302 | | Davie County |
| Cleveland, Town of | 98091 | 70552 | Davie Soil an |
| Clinton A.B.C. Board | 98218 | | Denton, Tow |
| Clinton, City of | 98211 | 70555 | Dobson A.B. |
| Coastal Carolina Regional Airport | 92506 | | Dobson, Tow |
| Coastal Regional Solid Waste Mngt Auth | 92508 | | Drexel, Town |
| Coats, Town of | 94341 | 70570 | Duck, Town of |
| Cofield, Town of | 94641 | | Dunn A.B.C. |
| Colerain, Town of | 90813 | 70575 | Dunn Housin |
| Colfax Volunteer Fire Department | 94168 | | Dunn, City of |
| Columbia, Town of | 98911 | | Duplin Count |
| Columbus A.B.C. Board | 97527 | | Durham Con |
| Columbus County | 92401 | 70580 | Durham Cou |
| Columbus, Town of | 97521 | 70581 | Durham Cou |
| Concord A.B.C. Board | 91317 | | Durham Hwy |
| Concord, City of | 91311 | 70590 | Durham, City |
| Connelly Springs, Town of | 91261 | | East Albema |
| Conover, Town of | 91851 | 70610 | East Bend, T |
| Contennea Metropolitan Sewerage Dist | 97408 | | East Spence |
| Conway, Town of | 96641 | 70620 | East Spence |
| Cooleemee, Town of | 93031 | 70624 | Eastern Band |
| Cornelius, Town of | 96051 | 70625 | Eastern Caro |
| Cove City, Town of | 92571 | | Eastern Way |
| Cramerton A.B.C. Board | 93604 | | Eastover, To |
| Cramerton, Town of | 93631 | 70640 | Eastpointe H |
| Craven-Pamlico-Carteret Regional Library | 92505 | | Eden A.B.C. |

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| | Employer | Employer |
| Employer | Code | Code |
| Craven Co A.B.C. Bd | 92504 | |
| Craven County | 92501 | 70650 |
| Creedmoor, City of | 93921 | 70660 |
| Creswell, Town of | 99431 | |
| Cumberland Co A.B.C. Board | 92604 | 70685 |
| Cumberland County | 92601 | 70680 |
| Currituck Co A.B.C. Board | 92704 | |
| Currituck County | 92701 | 70700 |
| Dallas, Town of | 93651 | 70705 |
| Dare County | 92801 | 70720 |
| Dare County A.B.C. Board | 92804 | 70721 |
| Dare County Tourism Board | 92802 | |
| Davidson County | 92901 | 70723 |
| Davidson, Town of | 96081 | 70724 |
| Davie County | 93001 | 70725 |
| Davie Soil and Water Conservation Dist | 93009 | |
| Denton, Town of | 92921 | 70730 |
| Dobson A.B.C. Bd | 98627 | |
| Dobson, Town of | 98621 | 70735 |
| Drexel, Town of | 91221 | 70745 |
| Duck, Town of | 92861 | 70755 |
| Dunn A.B.C. Board | 94317 | |
| Dunn Housing Authority | 94313 | |
| Dunn, City of | 94311 | 70760 |
| Duplin County | 93101 | 70770 |
| Durham Convention & Visitors Bureau | 93212 | |
| Durham County | 93201 | 70790 |
| Durham County A.B.C. Board | 93204 | 70800 |
| Durham Hwy Fire Protection Assoc | 99212 | |
| Durham, City of | 93211 | 70780 |
| East Albemarle Regional Library | 97005 | |
| East Bend, Town of | 99931 | 70805 |
| East Spencer Housing Authority | 98023 | |
| East Spencer, Town of | 98021 | 70812 |
| Eastern Band of Cherokee Indians | 70505 | 70505 |
| Eastern Carolina Reg'l Housing Auth | 99603 | |
| Eastern Wayne Sanitary Dist | 99610 | 70505 |
| Eastover, Town of | 92681 | |
| Eastpointe Human Services | 93108 | |
| Eden A.B.C. Board | 97957 | |

North Carolina Local Governmental Employees' Retirement System December 31, 2020 Actuarial Valuation



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| F -veloue | Employer Code | LEO Employer Code |
|---|------------------|-------------------------|
| Employer | Code | Code |
| Eden, City of | 97951 | 70815 |
| Edenton, Town of | 92111 | 70817 |
| Edgecombe County | 93301 | 70820 |
| Edgecombe County A.B.C. Board | 93304 | |
| Edgecombe County Memorial Library | 93305 | |
| Electricities of NC | 99210 | |
| Elizabeth A.B.C. Board | 90917 | |
| Elizabeth City | 97011 | 70840 |
| Elizabeth City Pasquotank County TDA | 97013 | |
| Elizabeth City-Pasquotank Co Airport Auth | 97012 | |
| Elizabeth City-Pasquotank Co Industrial Development | 97018 | |
| Elizabethtown, Town of | 90911 | 70850 |
| Elk Park, Town of | 90641 | 70860 |
| Elkin, Town of | 98641 | 70855 |
| Ellenboro, Town of | 98161 | |
| Ellerbe, Town of | 97731 | |
| Elm City, Town of | 99851 | 70870 |
| Elon, Town of | 90131 | 70880 |
| Emerald Isle, Town of | 91651 | 70890 |
| Enfield, Town of | 94211 | 70895 |
| Erwin, Town of | 94331 | 70900 |
| Fair Bluff, Town of | 92431 | 70908 |
| Fairmont Housing Authority | 97823 | |
| Fairmont, Town of | 97821 | 70910 |
| Faison, Town of | 93141 | 70920 |
| Faith, Town of | 98081 | |
| Falcon Town of | 92671 | |
| Farmville Housing Authority | 97423 | |
| Farmville, Town of | 97421 | 70930 |
| Fayetteville Metropolitan Housing Auth | 92613 | |
| Fayetteville Public Works Commission | 92614 | |
| Fayetteville, City of | 92611 | 70940 |
| First Craven Sanitary Dist | 92502 | |
| Flat Rock, Village of | 94531 | |
| Fletcher A.B.C. Board | 94547 | |
| Fletcher, Town of | 94541 | 70943 |
| Fontana Regional Library | 95005 | |
| Forest City A.B.C. Board 168 | 98107 | |
| Forest City Housing Authority | 98113 | |
| Forest City, Town of | 98111 | 70950 |

| | | LEO |
|---------------------------------------|----------|----------|
| | Employer | Employer |
| Employer | Code | Code |
| Fork Township Sanitary Dist | 99602 | |
| Forsyth County | 93401 | 70951 |
| Four Oaks, Town of | 95151 | 70954 |
| Foxfire Village | 96381 | 70953 |
| Franklin County | 93501 | 70960 |
| Franklin, Town of | 95611 | 70955 |
| Franklinton A.B.C Board | 93517 | |
| Franklinton, Town of | 93511 | 70970 |
| Fremont, Town of | 99631 | 70980 |
| Fuguay-Varina, Town of | 99261 | 70990 |
| Garland, Town of | 98241 | 71000 |
| Garner Fire Dept | 99252 | |
| Garner, Town of | 99251 | 71010 |
| Garysburg, Town of | 96631 | 71020 |
| Gaston County | 93601 | 71030 |
| Gaston County Economic Dev Commission | 93618 | |
| Gaston, Town of | 96651 | 71032 |
| Gastonia A.B.C. Board | 93617 | |
| Gastonia, City of | 93611 | 71040 |
| Gates County | 93701 | 71050 |
| Gates County A.B.C. Board | 93704 | 71052 |
| Gibson, Town of | 98331 | 71051 |
| Gibsonville A.B.C. Board | 94157 | |
| Gibsonville, Town of | 94151 | 71060 |
| Glen Alpine, Town of | 91241 | 71065 |
| Goldsboro Housing Authority | 99613 | |
| Goldsboro, City of | 99611 | 71070 |
| Goldston-Gulf Sanitary District | 91908 | |
| Graham Co Health Dept | 93803 | |
| Graham County | 93801 | 71085 |
| Graham County Dept of S S | 93806 | |
| Graham, City of | 90121 | 71080 |
| Granite Falls A.B.C. Board | 91417 | |
| Granite Falls, Town of | 91411 | 71090 |
| Granite Quarry, Town of | 98061 | 71105 |
| Granville Co A.B.C. Bd | 93904 | |
| Granville County | 93901 | 71110 |
| Granville County Hospital | 93906 | |
| Granville-Vance Public Health | 93908 | |
| Greater Statesville Development Corp | 94908 | |



| Employer | Employer |
|----------|---|
| | |
| Code | Code |
| 90161 | |
| 94001 | 71130 |
| 94004 | |
| 94117 | 71150 |
| 94111 | 71140 |
| 97413 | |
| 97412 | |
| 97411 | 71160 |
| 97431 | 71170 |
| 97471 | |
| 92351 | 71178 |
| 94101 | 71180 |
| 94118 | |
| 94102 | |
| 94201 | 71200 |
| 94204 | |
| 94205 | |
| | |
| 97717 | |
| 97721 | 71220 |
| 94301 | 71230 |
| 91441 | |
| 92531 | 71240 |
| | 71250 |
| | |
| 94501 | 71275 |
| 99111 | 71270 |
| | |
| | 71280 |
| | 71305 |
| | 71310 |
| | 71320 |
| | |
| | 71300 |
| | |
| | |
| | 71330 |
| | 11000 |
| | |
| | 71340 |
| | 94001 94004 94117 94111 97413 97412 97412 97411 97431 97471 92351 94101 94101 94102 94201 94204 94205 95831 97717 97721 94301 91441 92531 94401 94403 |

| Hoke County A.B.C. Board 94704 Holden Beach, Town of 91014 71375 Holly Ridge, Town of 96731 71380 Holly Springs, Town of 99202 71385 Hookerton, Town of 94011 94011 Hope Mills, Town of 92631 71390 Hot Springs Housing Authority 95733 91431 71395 Hudson, Town of 91431 71397 94801 71400 Hyde County 94801 71400 94804 101 Hudian Beach, Town of 91661 71405 101 11405 Indian Beach, Town of 91661 71405 101 11405 Indian Trail A.B.C. Board 99014 11405 1 | | | |
|---|--|-----------|----------|
| Employer Code Code Highlands A.B.C. Board 95617 | | | LEO 🚿 |
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| Jackson, Town of 96661 71435 Jacksonville, City of 96711 71440 | Jackson County A.B.C. Board | 95017 | |
| Jacksonville, City of 96711 71440 | Jackson County Tourism Development Authority | 95010 | |
| | Jackson, Town of | 96661 | 71435 |
| Jamestown, Town of 94131 71442 | Jacksonville, City of | 96711 | 71440 |
| | Jamestown, Town of | • • • • • | 71442 |
| Jamesville, Town of 95841 | | | |
| Jefferson, Town of 90511 71447 | | | |
| Johnston County 95101 71460 | 5 | | 71460 |
| Johnston County A.B.C. Board 95104 | 5 | | |
| Johnston Health Center 95110 | Johnston Health Center | 95110 | |
| Jones County 95201 71465 | | | 71465 |
| Jones County A.B.C. Board 95204 | 5 | | |
| Jonesville, Town of 99921 71467 | - | | 71467 |
| Junaluska Sanitary District 94408 | | | |
| Kannapolis, City of9133171468 | | | 71468 |
| Kenansville A.B.C. Board 93127 | Kenansville A.B.C. Board | 93127 | |

North Carolina Local Governmental Employees' Retirement System December 31, 2020 Actuarial Valuation



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| Employer | Employer Code | LEO Employer Code | |
|--------------------------------------|------------------|-------------------------|-----------------|
| Kenansville, Town of | 93121 | 71469 | Lillington, Tov |
| Kenly, Town of | 95171 | 71472 | Lincoln Count |
| Kernersville, Town of | 93421 | 71470 | Lincoln Count |
| Kerr Area Transportation Authority | 99110 | | Lincolnton A.E |
| Kerr-Tar Regional Council of Govts | 99109 | | Lincolnton Ho |
| Kill Devil Hills, Town of | 92821 | 71480 | Lincolnton, Ci |
| King, City of | 98521 | 71487 | Lincolnton-Lin |
| Kings Mountain A.B.C. Board | 92327 | | Linden, Town |
| Kings Mountain, City of | 92321 | 71490 | Littleton, Tow |
| Kinston Housing Authority | 95413 | | Locust A.B.C. |
| Kinston, City of | 95411 | 71500 | Locust, City o |
| Kinston-Lenoir Co Pub Library | 95415 | | Longview, To |
| Kitty Hawk, Town of | 92851 | 71507 | Louisburg A.E |
| Knightdale, Town of | 99291 | 71510 | Louisburg, To |
| Kure Beach, Town of | 96541 | 71515 | Lowell, City of |
| Lagrange, Town of | 95431 | 71517 | Lower Cape F |
| Lake Lure, Town of | 98131 | 71518 | Lucama, Tow |
| Lake Waccamaw A.B.C. Board | 92427 | | Lumber River |
| Lake Waccamaw, Town of | 92461 | 71519 | Lumberton A. |
| Landis, Town of | 98051 | 71522 | Lumberton Air |
| Land-of-Sky Regional Council | 91102 | | Lumberton, C |
| Laurel Park A.B.C. Board | 94527 | | Macclesfield, |
| Laurel Park, Town of | 94521 | 71525 | Macon Count |
| Laurinburg Housing Authority | 98313 | | Madison A.B. |
| Laurinburg, City of | 98311 | 71530 | Madison Cour |
| Laurinburg-Maxton Airport Commission | 98308 | | Madison, Tow |
| Lawndale, Town of | 92341 | 71532 | Madison-May |
| Lee County | 95301 | 71535 | Maggie Valley |
| Leland, Town of | 91002 | 71540 | Maggie Valley |
| Lenoir A.B.C.Board | 91457 | | Maggie Valley |
| Lenoir County | 95401 | 71550 | Magnolia, Tov |
| Lenoir County A.B.C. Board | 95404 | | Maiden, Towr |
| Lenoir Housing Authority | 91423 | | Manteo, Towr |
| Lenoir, City of | 91451 | 71552 | Marion A.B.C |
| Lewiston Woodville, Town of | 90861 | 71556 | Marion, Town |
| Lewisville, Town of | 93451 | | Mars Hill, Tow |
| Lexington A.B.C. Board | 92917 | | Marshall, Tow |
| Lexington, City of | 92931 | 71570 | Marshville, To |
| Liberty, Town of | 97631 | 71582 | Martin Co Tra |
| Lilesville, Town of | 90421 | 71584 | Martin County |
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| | Employer | Employer |
| Employer | Code | Code |
| Lillington, Town of | 94321 | 71585 |
| Lincoln County | 95501 | 71590 |
| Lincoln County A.B.C. Board | 95504 | |
| Lincolnton A.B.C. Board | 95517 | |
| Lincolnton Housing Authority | 95513 | |
| Lincolnton, City of | 95511 | 71600 |
| Lincolnton-Lincoln County Airport Authority | 99219 | |
| Linden, Town of | 92651 | |
| Littleton, Town of | 94261 | 71615 |
| Locust A.B.C. Board | 98404 | |
| Locust, City of | 98431 | 71620 |
| Longview, Town of | 91841 | 71640 |
| Louisburg A.B.C. Board | 93527 | |
| Louisburg, Town of | 93521 | 71650 |
| Lowell, City of | 93661 | 71655 |
| Lower Cape Fear Water & Sewer Auth | 96508 | |
| Lucama, Town of | 99841 | 71660 |
| Lumber River Council of Governments | 97802 | |
| Lumberton A.B.C. Board | 97817 | |
| Lumberton Airport Comm | 97818 | |
| Lumberton, City of | 97811 | 71670 |
| Macclesfield, Town of | 93341 | |
| Macon County | 95601 | 71680 |
| Madison A.B.C. Board | 97947 | |
| Madison County | 95701 | 71684 |
| Madison, Town of | 97941 | 71683 |
| Madison-Mayodan Recreation Comm | 97948 | |
| Maggie Valley A.B.C. Board | 94427 | |
| Maggie Valley Sanitary Dist | 94428 | |
| Maggie Valley, Town of | 94421 | 71685 |
| Magnolia, Town of | 93191 | 71690 |
| Maiden, Town of | 91831 | 71700 |
| Manteo, Town of | 92831 | 71705 |
| Marion A.B.C. Board | 95917 | |
| Marion, Town of | 95911 | 71710 |
| Mars Hill, Town of | 95711 | 71718 |
| Marshall, Town of | 95721 | 71711 |
| Marshville, Town of | 99021 | 71720 |
| Martin Co Travel & Tourism Auth | 95802 | |
| Martin County | 95801 | 71730 |



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| Employer | Code | Code | Employer | Code |
| Martin County A.B.C. Board | 95804 | | Moore County Tourism Development Authority | 96305 |
| Martin-Tyrrell-Washington Dist Health Dept | 90092 | | Mooresville A.B.C. Board | 94927 |
| Marvin, Village of | 99081 | | Mooresville Housing Authority | 94923 |
| Matthews, Town of | 96071 | 71740 | Mooresville, City of | 94921 |
| Maury Sanitary Land District | 94002 | | Morehead City, Town of | 91611 |
| Maxton A.B.C. Board | 97847 | | Morganton A.B.C. Board | 91217 |
| Maxton, Town of | 97840 | 71750 | Morganton Housing Authority | 91233 |
| Mayodan, Town of | 97921 | 71755 | Morganton, City of | 91231 |
| Maysville, Town of | 95221 | 71745 | Morrisville, Town of | 99206 |
| Mcadenville, Town of | 93610 | 71760 | Morven, Town of | 90461 |
| McDowell County | 95901 | 71762 | Mount Airy Alcoholic Board of Control | 98637 |
| Mebane, City of | 90114 | | Mount Airy, City of | 98631 |
| Mecklenburg County | 96001 | 71770 | Mount Gilead, Town of | 96251 |
| Mecklenburg County A.B.C. Board | 96004 | 71780 | Mount Holly, City of | 93691 |
| Mecklenburg Emer Med Svcs Agcy | 96008 | | Mount Olive, Town of | 99621 |
| Metro Sewerage Dist of Buncombe County | 91108 | | Mount Pleasant, Town of | 91321 |
| Mi Connection Communications System | 94941 | | Mount Pleasant A.B.C. Board | 91327 |
| Micro, Town of | 95122 | | Mt Olive Housing Authority | 99623 |
| Mid-Carolina Council Of Governments | 92607 | | Murfreesboro, Town of | 94621 |
| Middlesex, Town of | 96431 | 71785 | Murphy A.B.C. Board | 92017 |
| Mideast Commission | 90709 | | Murphy, Town of | 92011 |
| Midland, Town of | 91341 | | N C Assoc of Co Commissioners | 99991 |
| Midway, Town of | 92941 | | N C League of Municipalities | 99999 |
| Mills River, Town of | 94551 | | Nags Head, Town of | 92811 |
| Mineral Springs, Town of | 99022 | | Nantahala Regional Library | 92005 |
| Mint Hill, Town of | 96031 | 71775 | Nash County | 96401 |
| Misenheimer, Village of | 98414 | 71786 | Nash County A.B.C. Board | 96404 |
| Mitchell County | 96101 | 71788 | Nashville, Town of | 96421 |
| Mitchell Soil & Water Conservation Dist | 96102 | | Navassa, Town of | 91026 |
| Mocksville-Cooleemee A.B.C. Board | 93028 | | Neuse Regional Library | 95405 |
| Mocksville, Town of | 93011 | 71790 | Neuse Regional Library-Greene County | 94005 |
| Monroe A.B.C. Board | 99017 | | Neuse Regional Library-Jones County | 95205 |
| Monroe Housing Authority | 99013 | | Neuse River Council of Governments | 92507 |
| Montgomery County | 96201 | 71815 | New Bern, City of | 92511 |
| Montgomery-Municpal A.B.C. Board | 96204 | | New Edenton Housing Auth | 92113 |
| Montreat, Town of | 91161 | 71820 | New Hanover Airport Auth | 96502 |
| Monroe, City of | 99011 | 71800 | New Hanover County | 96501 |
| Moore County | 96301 | 71830 | New Hanover County A.B.C. Board | 96504 |
| Moore County A.B.C. Board | 96304 | 71840 | New London, Town of | 98471 |
| Moore County Airport Authority | 96310 | | New Reidsville Housing Auth | 97913 |

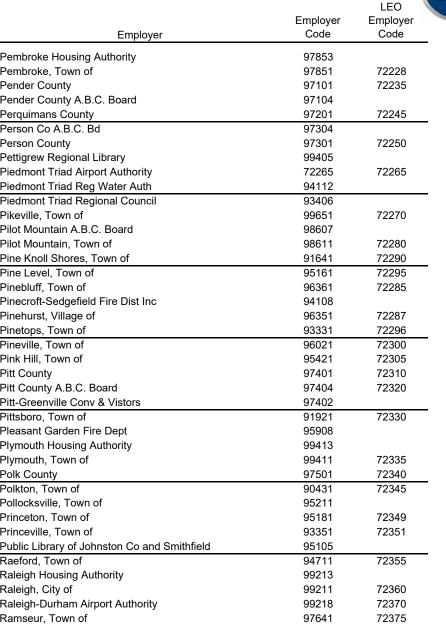
North Carolina Local Governmental Employees' Retirement System December 31, 2020 Actuarial Valuation



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| Employer | Employer Code | LEO Employer Code | Employer |
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| Newland, Town of | 90621 | 72032 | Pembroke Housing Authority |
| Newport, Town of | 91621 | 72032 | Pembroke, Town of |
| Newton Grove, Town of | 98231 | 72050 | Pender County |
| Newton, City of | 91871 | 72040 | Pender County A.B.C. Board |
| Norlina, Town of | 99311 | 72040 | Perguimans County |
| North Topsail Beach, Town of | 96751 | 72789 | Person Co A.B.C. Bd |
| North Wilkesboro A.B.C. Board | 99717 | 12103 | Person County |
| North Wilkesboro, Town of | 99717 | 72105 | Pettigrew Regional Library |
| Northampton County | 96601 | 72060 | Piedmont Triad Airport Authority |
| Northampton County A.B.C. Board | 96604 | 72000 | Piedmont Triad Reg Water Auth |
| Northwest, City of | 91012 | 72076 | Piedmont Triad Regional Council |
| Northwestern Regional Library | 90305 | 12010 | Pikeville, Town of |
| Norwood A.B.C. Bd | 90303 | | Pilot Mountain A.B.C. Board |
| Norwood, Town of | 98421 | 72110 | Pilot Mountain, Town of |
| | 95821 | 72110 | Pine Knoll Shores, Town of |
| Oak City, Town of Oak Island A.B.C. Bd | 91027 | | Pine Level. Town of |
| Oak Island, Town of | 91027 | 71630 | Pinebluff, Town of |
| Oak Ridge, Town of | 94161 | 71030 | Pinecroft-Sedgefield Fire Dist Inc |
| Oakboro, Town of | 98441 | 72120 | Pinehurst, Village of |
| Ocean Isle Beach A.B.C. | 91067 | 72120 | Pinetops, Town of |
| Ocean Isle Beach, Town of | 91067 | 72135 | Pinetops, rown of |
| Ocean Isle Beach, Town of Ocracoke Sanitary Dist | 94812 | 12135 | Pineville, Town of Pink Hill, Town of |
| Old Fort, Town of | 94812 | 72140 | Pitt County |
| On Fort, Town of Onslow County | 95921 | 72140 | Pitt County Pitt County A.B.C. Board |
| , | 96701 96704 | 72150 | Pitt-Greenville Conv & Vistors |
| Onslow County A.B.C. Board | 96704 | 72100 | |
| Onslow Water & Sewer Authority Orange County | 96708 96801 | 72170 | Pittsboro, Town of Pleasant Garden Fire Dept |
| | 96804 | 72170 | • |
| Orange County A.B.C. Board | 96804 96808 | | Plymouth Housing Authority |
| Orange Water and Sewer Authority | | 70405 | Plymouth, Town of |
| Oriental, Town of | 96912 | 72195 | Polk County |
| Oxford Housing Authority | 93913 93911 | 72200 | Polkton, Town of |
| Oxford, City of | | | Pollocksville, Town of |
| Pamlico County | 96901 | 72210 | Princeton, Town of |
| Parkton, Town of | 97841 | | Princeville, Town of |
| Partners Behavioral Health Management | 93609 | | Public Library of Johnston Co and Smithfie |
| Pasquotank Co A.B.C. Board | 97004 | 70000 | Raeford, Town of |
| Pasquotank County | 97001 | 72220 | Raleigh Housing Authority |
| Pasquotank-Camden Ambulance Service | 97002 | | Raleigh, City of |
| Pasquotank-Camden Library | 97015 | | Raleigh-Durham Airport Authority |
| Peachland, Town of | 90441 | | Ramseur, Town of |





| Employer | Employer Code | LEO Employer Code | En |
|--------------------------------------|------------------|-------------------------|-----------------------------|
| Randleman A.B.C. Board | 97627 | | Rowan County A.B.C. Boar |
| Randleman Housing Authority | 97623 | | Rowen Convention & Visito |
| Randleman, City of | 97621 | 72377 | Rowland, Town of |
| Randolph County | 97601 | 72380 | Roxboro, City of |
| Ranlo, Town of | 93681 | 72390 | Roxboro Housing Authority |
| Red Springs A.B.C. Board | 97877 | | Rural Hall, Town of |
| Red Springs, Town of | 97871 | 72395 | Rutherford College, Town o |
| Region D Council of Governments | 99502 | | Rutherford County |
| Reidsville A.B.C. Board | 97917 | | Rutherford Polk McDowell |
| Reidsville, City of | 97911 | 72400 | Rutherfordton A.B.C. Board |
| Rhodhiss, Town of | 91414 | | Rutherfordton, Town of |
| Rich Square, Town of | 96611 | 72432 | Salemburg, Town of |
| Richlands, Town of | 96741 | 72420 | Salisbury Housing Authority |
| Richmond County | 97701 | 72430 | Salisbury, City of |
| River Bend, Town of | 92541 | 72435 | Saluda, City of |
| Roanoke Rapids Sanitary District | 94209 | | Sampson County |
| Roanoke Rapids, City of | 94221 | 72440 | Sandhill Regional Library |
| Robbins, Town of | 96341 | 72443 | Sandhills Center |
| Robbinsville, Town of | 93821 | | Sanford A.B.C. Board |
| Robersonville Authority | 95853 | | Sanford,City of |
| Robersonville, Town of | 95851 | 72445 | Sawmills, Town of |
| Robeson County | 97801 | 72450 | Scotland County |
| Robeson County Housing Authority | 97803 | | Scotland County A.B.C. Bo |
| Robeson County Public Library | 97805 | | Scotland Neck, Town of |
| Rockingham A.B.C. Board | 97727 | | Seaboard, Town |
| Rockingham Authority | 97713 | | Seagrove, Town |
| Rockingham County | 97901 | 72470 | Selma Houing Authority |
| Rockingham, City of | 97711 | 72460 | Selma, Town of |
| Rockwell, Town of | 98071 | 72475 | Seven Devils, Town of |
| Rocky Mount, City of | 93321 | 72480 | Severn, Town of |
| Rocky Mount-Wilson Airport Authority | 93323 | | Shallotte A.B.C. Board |
| Rocky Mt Housing Authority | 93333 | | Shallotte, Town of |
| Rolesville, Town of | 99203 | 72485 | Sharpsburg, Town of |
| Roper, Town of | 99421 | | Shelby A.B.C. Board |
| Rose Hill, Town of | 93161 | 72487 | Shelby, City of |
| Roseboro A.B.C. Board | 98237 | | Sheppard Memorial Library |
| Roseboro, Town of | 98261 | 72486 | Siler City A.B.C. Board |
| Rowan Co Housing Authority | 98003 | | Siler City, Town of |
| Rowan Co Soil & Water Conv Dist | 98008 | | Simpson, Village of |
| Rowan County | 98001 | 72490 | Skyland Vol Fire Dept |

| Employer | Employer Code | LEO Employer Code |
|---|------------------|-------------------------|
| | | - |
| Rowan County A.B.C. Board | 98004 | 72500 |
| Rowen Convention & Visitors Bureau | 98002 | 70540 |
| Rowland, Town of | 97861 | 72510 |
| Roxboro, City of | 97311 | 72520 |
| Roxboro Housing Authority | 97302 | |
| Rural Hall, Town of | 93431 | |
| Rutherford College, Town of | 91214 | |
| Rutherford County | 98101 | 72530 |
| Rutherford Polk McDowell Dist Brd of Health | 98103 | |
| Rutherfordton A.B.C. Board | 98147 | 70505 |
| Rutherfordton, Town of | 98141 | 72535 |
| Salemburg, Town of | 98221 | 72547 |
| Salisbury Housing Authority | 98013 | 70550 |
| Salisbury, City of | 98011 | 72550 |
| Saluda, City of | 97531 | 72560 |
| Sampson County | 98201 | 72563 |
| Sandhill Regional Library | 97705 | |
| Sandhills Center | 96318 | |
| Sanford A.B.C. Board | 95317 | |
| Sanford,City of | 95311 | 72565 |
| Sawmills, Town of | 91421 | |
| Scotland County | 98301 | 72580 |
| Scotland County A.B.C. Board | 98304 | |
| Scotland Neck, Town of | 94241 | 72590 |
| Seaboard, Town | 96681 | 72591 |
| Seagrove, Town | 72593 | 72593 |
| Selma Houing Authority | 95123 | |
| Selma, Town of | 95121 | 72594 |
| Seven Devils, Town of | 99531 | 72596 |
| Severn, Town of | 96671 | 72595 |
| Shallotte A.B.C. Board | 91057 | |
| Shallotte, Town of | 91081 | 72597 |
| Sharpsburg, Town of | 96461 | 72600 |
| Shelby A.B.C. Board | 92317 | |
| Shelby, City of | 92311 | 72610 |
| Sheppard Memorial Library | 97405 | |
| Siler City A.B.C. Board | 91917 | |
| Siler City, Town of | 91911 | 72625 |
| Simpson, Village of | 97481 | 72626 |
| Skyland Vol Fire Dept | 91138 | |



| Employer | Employer Code | LEO Employer Code |
|---|------------------|-------------------------|
| | - | 0000 |
| Smithfield Housing Authority | 95113 | |
| Smithfield, Town of | 95111 | 72630 |
| Snow Hill, Town of | 94021 | |
| South Eastern Economic Development Comm | 90918 | |
| South Granville Water and Sewer Authority | 93910 | |
| Southeast Brunswick Sanitary District | 91013 | |
| Southern Pines, Town of | 96311 | 72640 |
| Southern Shores, Town of | 92841 | 72645 |
| Southern Wayne Sanitary District | 99609 | |
| Southport A.B.C. Board | 91017 | |
| Southport, City of | 91011 | 72650 |
| Southwestern NC Planning & Econ Dev Comm | 95008 | |
| Sparta A.B.C. Board | 90307 | |
| Sparta, Town of | 72657 | 72657 |
| Spencer, Town of | 98031 | 72665 |
| Spindale, Town of | 98121 | 72670 |
| Spring Hope, Town of | 96411 | 72675 |
| Spring Lake, Town of | 92661 | 72676 |
| Spruce Pine, Town of | 96111 | 72678 |
| St James, Town of | 91032 | |
| St Paul's Brd of Alcoholic CTL | 97837 | |
| St Pauls, Town of | 97831 | 72540 |
| Stallings, Town of | 96061 | 72679 |
| Stanfield, Town of | 98481 | 72680 |
| Stanley, Town of | 93602 | 72682 |
| Stanly County | 98401 | 72683 |
| Stantonsburg, Town of | 99821 | 72684 |
| Star, Town of | 96211 | 72685 |
| Statesville A.B.C. Board | 94917 | 72710 |
| Statesville, City of | 94911 | 72700 |
| Stedman, Town of | 92621 | 72715 |
| Stokes County | 98501 | 72720 |
| Stoneville, Town of | 97931 | 72721 |
| Stovall, Town of | 93914 | |
| Sugar Mountain, Town of | 90651 | 72724 |
| Summerfield Fire District | 94172 | _ |
| Summerfield, Town of | 94171 | |
| Sunset Beach A.B.C. Board | 91047 | |
| Sunset Beach, Town of | 91041 | 72723 |
| Surf City, Town of | 97131 | 72725 |

| Employer | Employer Code | LEO Employer Code |
|---|------------------|-------------------------|
| Surry County | 98601 | 72730 |
| Swain County | 98701 | 72740 |
| Swansboro, Town of | 96721 | 72745 |
| Swepsonville, Town of | 96722 | |
| Sylva, Town of | 95011 | 72750 |
| Tabor City, Town of | 92451 | 72760 |
| Tarboro Redevelopment Commission | 93317 | |
| Tarboro, Town of | 93311 | 72770 |
| Taylorsville, Town of | 90211 | 72775 |
| Taylortown, Town of | 96302 | 72776 |
| Teachey, Town of | 93181 | |
| Thomasville A.B.C. Board | 92914 | |
| Thomasville Housing Authority | 92913 | |
| Thomasville, City of | 92911 | 72780 |
| Tobaccoville, Village of | 93471 | |
| Toe River Health District | 90098 | |
| Topsail Beach, Town of | 97121 | 72790 |
| Town of Haw River | 90141 | 71245 |
| Transylvania County | 98801 | 72800 |
| Trent Woods, Town of | 92521 | 72810 |
| Triad Municipal A.B.C. Board | 93417 | 73140 |
| Triangle J Council of Governments | 93219 | |
| Trillium Health Resources | 92513 | |
| Trinity, City of | 97661 | |
| Troutman A.B.C. Board | 94937 | |
| Troutman, Town of | 94931 | 72815 |
| Troy, Town of | 96221 | 72822 |
| Tryon, Town of | 97511 | 72823 |
| Tuckaseigee Water Authority | 95002 | |
| Turkey, Town of | 98251 | |
| Tyrrell Co A.B.C. Board | 98904 | |
| Tyrrell County | 98901 | 72825 |
| Union County | 99001 | 72830 |
| Unionville, Town of | 99061 | |
| Upper Coastal Plain Council of Governements | 93309 | |
| Valdese A.B.C. Board | 94947 | |
| Valdese Housing Authority | 91213 | |
| Valdese, Town of | 91211 | 72883 |
| Vance County | 99101 | 72890 |
| Vance County A.B.C. Bd | 99104 | |

North Carolina Local Governmental Employees' Retirement System December 31, 2020 Actuarial Valuation



| Employer | Employer Code | LEO Employer Code |
|---|------------------|-------------------------|
| · · · | 00554 | 72040 |
| Vanceboro, Town of | 92551 | 72910 W |
| Vass, Town of | 96321 | 72920 W |
| Vaya Health | 95009 92641 | N V |
| Wade, Town of Wadesboro A.B.C. Board | | |
| - | 90417 90413 | <u></u> <u></u> |
| Wadesboro Housing Authority | | |
| Wadesboro, Town of | 90411 98321 | 72930 V 72935 V |
| Wagram, Town of Wake County | 96321 99201 | 72935 W |
| 5 | | |
| Wake County A.B.C. Board | 99204 | <u>72950 V</u> W |
| Wake County Housing Authority | 99207 | |
| Wake Forest, Town of Walkertown, Town of | 99281 93461 | 72960 W |
| Walkertown, Town of Wallace A.B.C. Bd | | |
| | 93157 | V 22070 W |
| Wallace, Town of | 93151 | <u>72970 V</u> W |
| Walnut Cove A.B.C. Board | 98517 | |
| Walnut Cove, Town of | 98511 | 72975 V 72977 V |
| Walnut Creek, Village of | 99661 | |
| Walstonburg, Town of | 94031 | 72000 W |
| Warren County | 99301 | 72980 V |
| Warren County A.B.C. Board | 99304 | 72979 W |
| Warrenton, Town of | 99321 | 72991 W |
| Warsaw A.B.C. Board | 93137 | W |
| Warsaw, Town of | 93131 | 72981 W |
| Washington County | 99401 | 72985 V |
| Washington County A.B.C. Board | 99404 | N N |
| Washington Housing Authority | 99624 | Ŵ |
| Washington Park, Town of | 90741 | W |
| Washington, City of | 90711 | 72990 W |
| Watauga County | 99501 | 72983 V |
| Watauga County District Tourism Dev Auth | 99509 | W |
| Water & Sewer Auth of Cabarrus County | 91302 | Ŵ |
| Waxhaw A.B.C. Board | 99047 | W |
| Waxhaw, Town of | 99041 | 72995 W |
| Wayne County | 99601 | 72997 V |
| Wayne County A.B.C. Board | 99604 | W |
| Waynesville A.B.C. Board | 94412 | 73015 W |
| Waynesville, Town of | 94411 | 73010 W |
| Weaverville A.B.C. Board | 91147 | W |
| Weaverville, Town of | 91141 | 73016 W |

| | Employer | LEO Employer |
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| Employer | Code | Code |
| Weddington, Town of | 99071 | |
| Weldon, Town of | 94231 | 73017 |
| Wendell, Town of | 99231 | 73020 |
| Wesley Chapel, Village of | 99091 | |
| West Buncombe Fire Dept | 91120 | |
| West Columbus A.B.C. Board | 92444 | |
| West Jefferson A.B.C. Board | 90507 | |
| West Jefferson, Town of | 90521 | 73025 |
| Westarea Volunteer Fire Dept | 92602 | |
| Western Carteret Interlocal Cooperation Agency | 91608 | |
| Western NC Regional Air Quality | 91107 | |
| Western Piedmont Council of Gvmts | 91818 | |
| Western Piedmont Regional Transit Authority | 91819 | |
| Whispering Pines, Village of | 96371 | 73040 |
| Whitakers, Town of | 96441 | 73045 |
| White Lake, Town of | 90921 | 73050 |
| Whiteville A.B.C. Board | 92417 | |
| Whiteville Housing Authority | 92403 | |
| Whiteville, City of | 92411 | 73060 |
| Wilkes County | 99701 | 73075 |
| Wilkesboro A.B.C. Board | 99727 | |
| Wilkesboro, Town of | 99721 | 73072 |
| Williamston Housing Authority | 95813 | |
| Williamston, Town of | 95811 | 73080 |
| Wilmington Housing Authority | 96503 | |
| Wilmington, City of | 96531 | 73090 |
| Wilson Cemetary Commission | 99818 | |
| Wilson County | 99801 | 73110 |
| Wilson County A.B.C. Board | 99804 | |
| Wilson County Tourism Development Auth | 99802 | |
| Wilson Economic Dev Council | 99812 | |
| Wilson, City of | 99811 | 73100 |
| Wilson's Mills, Town of | 95191 | |
| Windsor, Town of | 90812 | 73122 |
| Winfall, Town of | 97221 | 73124 |
| Wingate, Town of | 99031 | 73125 |
| Winston-Salem Housing Authority | 93413 | |
| Winston-Salem, City of | 93411 | 73130 |
| Winterville, Town of | 97451 | 73150 |
| Winton, Town of | 94631 | 73155 |



| Employer | Employer Code | LEO Employer Code |
|---------------------------------------|------------------|-------------------------|
| Woodfin A.B.C. Commission | 91104 | |
| Woodfin Sanitary Water and Sewer Dist | 91109 | |
| Woodfin, Town of | 91171 | 73160 |
| Woodland, Town of | 96621 | 73162 |
| Wrightsville Beach, Town of | 96511 | 73165 |
| Yadkin County | 99901 | 73170 |
| Yadkin Valley A.B.C. Board | 98604 | |
| Yadkin Valley Sewer Authority | 98608 | |
| Yadkinville, Town of | 99911 | 73180 |

| Employer | Employer Code | LEO Employer Code |
|--------------------------|------------------|-------------------------|
| Yancey County | 90001 | 73190 |
| Yancey Soil & Water Cons | 90002 | |
| Yanceyville, Town of | 91719 | 73192 |
| Youngsville, Town of | 93541 | 73200 |
| Zebulon, Town of | 99241 | 73210 |

