

North Carolina State Health Plan

**Governmental Accounting Standards Board
(GASB) Statement 74 Actuarial Valuation and
Review of Other Postemployment Benefits
(OPEB) as of June 30, 2023**



This report has been prepared at the request of the Committee on Actuarial Valuation of Retired Employees' Health Benefits (OPEB) to assist in administering the Plan. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Committee on Actuarial Valuation of Retired Employees' Health Benefits (OPEB) and may only be provided to other parties in its entirety. The measurements shown in this actuarial valuation may not be applicable for other purposes.

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August 31, 2023

Committee on Actuarial Valuation of Retired Employees' Health Benefits (OPEB)
State Health Plan of North Carolina
430 N. Salisbury St.
Raleigh, North Carolina 27603

Dear Committee Members:

We are pleased to submit this Actuarial Valuation and Review of Other Postemployment Benefits (OPEB) as of June 30, 2023 under Governmental Accounting Standards Board Statement No. 74. The report summarizes the actuarial data used in the valuation, discloses the Net OPEB Liability (NOL), and analyzes the preceding year's experience. This report was based on the census data provided by the Department of the State Treasurer, the financial information prepared by the Department of the State Treasurer, and the terms of the Plan. The actuarial calculations were completed under the supervision of Daniel J. Rhodes, FSA, MAAA, Senior Vice President and Consulting Actuary and Peter Wang, PhD, ASA, MAAA, Associate Actuary.

The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and changes in plan provisions or applicable law.

The actuarial valuation has been completed in accordance with generally accepted actuarial principles and practices. To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate. The demographic assumptions were prescribed by the OPEB Valuation Committee to be consistent with the TSERS pension valuation where assumptions overlap. Further, in our opinion, the assumptions used in this valuation and described in Section 3, Exhibit II are reasonably related to the experience of and the expectations for the Plan. The actuarial projections are based on these assumptions and the plan of benefits as summarized in Section 3, Exhibit III.

Sincerely,
Segal

A handwritten signature in black ink, appearing to read "Daniel J. Rhodes", written over a horizontal line.

Daniel J. Rhodes, FSA, MAAA
Senior Vice President and Consulting Actuary

Table of Contents

Actuarial Valuation Summary	4
Purpose and basis	4
Highlights of the valuation	4
Summary of key valuation results	5
Important information about actuarial valuations	6
GASB 74 Information	9
General information about the OPEB plan	9
Net OPEB liability	11
Sensitivity	13
Total OPEB Liability by Status and Payment Age	14
Schedule of changes in Net OPEB Liability – Last two fiscal years	15
Schedule of contributions – Last ten fiscal years	18
Actuarially Determined Contribution	20
Statement of Fiduciary Net Position	21
Supporting Information	22
Exhibit I: Summary of Participant Data	22
Exhibit II: Actuarial Assumptions and Actuarial Cost Method	24
Exhibit III: Summary of Plan	40
Exhibit IV: Definition of Terms	46
Exhibit V: Accounting Requirements	47
Appendix: Sensitivity of Valuation Results as of December 31, 2022	48

Actuarial Valuation Summary

Purpose and basis

This report presents the results of our actuarial valuation of North Carolina State OPEB plan as of June 30, 2023, required by Governmental Accounting Standards Board (GASB) Statement No. 74, *Financial Reporting for Postemployment Benefit Plans Other than Pension Plans*. The actuarial computations made are for purposes of fulfilling plan accounting requirements. Determinations for purposes other than meeting financial accounting requirements may be significantly different from the results reported here.

Highlights of the valuation

Accounting and Financial Reporting

- The Net OPEB Liability (NOL) as of June 30, 2023 is \$26.65 billion, an increase of \$2.90 billion from the prior valuation NOL of \$23.75 billion. Net unfunded plan obligations had been expected to increase to \$24.43 billion, due to normal plan operations. The difference between actual and prior unfunded actuarial accrued liabilities was the net effect of several factors:
 - Actuarial experience losses increased the NOL by \$0.23 billion. This was the net result of (1) a liability loss (\$0.15 billion), the result of demographic changes and actual 2022 benefit payments that were different from expected, and (2) an asset loss (\$0.08 billion), the result of fund investment performance. We have taken these actuarial gains and losses into account in reviewing our assumptions for the current valuation.
 - Valuation assumption changes increased the NOL by \$2.02 billion. This was a net result of (1) an increase in obligations due to increasing the valuation-year per capita health costs (\$0.25 billion), (2) an increase in obligations due to updating the actuarial factors used to estimate individual retiree and spouse costs by age and gender (\$0.28 billion), (3) a decrease due to updating the migration assumption (\$0.12 billion), (4) an increase due to updating future trends (\$1.33 billion), (5) a decrease in obligations due to the new Aetna contract effective January 1, 2025 (\$0.01 billion), and (6) an increase due to updated employer contributions through 2027 (\$0.51 billion), (7) an increase due to the impact of the Inflation Reduction Act (IRA) on future assumed Medicare Advantage/Prescription Drug (M) rates (\$0.27 billion), and (8) a decrease due to increasing the discount rate (\$0.48 billion).
 - During the year ended June 2023, a total of \$0.04 billion was transferred to the Retiree Health Benefit Trust Fund (RHBTf), which reduced the NOL.
- As of June 30, 2023, the ratio of assets to the Total OPEB Liability (the funded ratio) is 10.73%. This is based on the market value of assets at this point in time.

Section 1: Actuarial Valuation Summary

Summary of key valuation results (in thousands)

Measurement Date		June 30, 2023	June 30, 2022
Disclosure elements for fiscal year ending June 30:	• Total OPEB Liability	\$29,850,087	\$26,557,121
	• Plan Fiduciary Net Position (Assets)	3,202,661	2,810,269
	• Net OPEB Liability	26,647,426	23,746,852
	• Plan Fiduciary Net Position as a percentage of Total OPEB Liability	10.73%	10.58%
	• Service Cost at Beginning of Year	1,279,519	2,131,391
	• Covered Payroll	19,839,303	19,034,634
Schedule of contributions for fiscal year ending June 30:	• Actuarially determined contributions	\$2,240,057	\$2,084,130
	• Actual contributions	1,366,928	1,197,278
	• Contribution deficiency / (excess)	873,129	886,852
	• Benefit Payments	1,120,623	1,044,121

Section 1: Actuarial Valuation Summary

Important information about actuarial valuations

An actuarial valuation is a budgeting tool with respect to defining future uncertain obligations of a postretirement health plan. As such, it will never forecast the precise future stream of benefit payments. It is an estimated forecast – the actual cost of the plan will be determined by the benefits and expenses paid, not by the actuarial valuation.

In order to prepare a valuation, Segal relies on a number of input items. These include:

Plan of benefits	Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. For example, a plan may provide health benefits to post-65 retirees that coordinates with Medicare. If so, changes in the Medicare law or administration may change the plan's costs without any change in the terms of the plan itself. It is important for the State to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits.
Participant data	An actuarial valuation for a plan is based on data provided to the actuary by the plan. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is not necessary to have perfect data for an actuarial valuation: the valuation is an estimated forecast, not a prediction. The uncertainties in other factors are such that even perfect data does not produce a "perfect" result. Notwithstanding the above, it is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
Assets	The valuation is based on the market value of assets as of the valuation date, as provided by the State.
Actuarial assumptions	In preparing an actuarial valuation, Segal starts by developing a forecast of the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. To determine the future costs of benefits, Segal collects claims, premiums, and enrollment data in order to establish a baseline cost for the valuation measurement, and then develops short- and long-term health care cost trend rates to project increases in costs in future years. This forecast also requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year, as well as forecasts of the plan's benefits for each of those events. The forecasted benefits are then discounted to a present value, typically based on an estimate of the rate of return that will be achieved on the plan's assets or, if there are no assets, a rate of return based on a yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher (or equivalent quality on another rating scale). All of these factors are uncertain and unknowable. Thus, there will be a range of reasonable assumptions, and the results may vary materially based on which assumptions the actuary selects within that range. That is, there is no right answer (except with hindsight). It is important for any user of an actuarial valuation to understand and accept this constraint. The actuarial model necessarily uses approximations and estimates that may lead to significant changes in our results but will have no impact on the actual cost of the plan. In addition, the actuarial assumptions may change over time, and while this can have a significant impact on the reported results, it does not mean that the previous assumptions or results were unreasonable or wrong.

Section 1: Actuarial Valuation Summary

The user of Segal's actuarial valuation (or other actuarial calculations) should keep the following in mind:

The actuarial valuation is prepared for use by the State financial officers. It includes information for compliance with accounting standards and for the plan's auditor. Segal is not responsible for the use or misuse of its report, particularly by any other party.

If the State is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.

An actuarial valuation is a measurement at a specific date – it is not a prediction of a plan's future financial condition. Accordingly, Segal did not perform an analysis of the potential range of financial measurements, except where otherwise noted. The actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

Critical events for a plan include, but are not limited to, decisions about changes in benefits and contributions. The basis for such decisions needs to consider many factors such as the risk of changes in plan enrollment, emerging claims experience, health care trend, and investment losses, not just the current valuation results.

Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. The State should look to their other advisors for expertise in these areas.

While Segal maintains extensive quality assurance procedures, an actuarial valuation involves complex computer models and numerous inputs. In the event that an inaccuracy is discovered after presentation of Segal's valuation, Segal may revise that valuation or make an appropriate adjustment in the next valuation.

Segal's report shall be deemed to be final and accepted by the State upon delivery and review. The State should notify Segal immediately of any questions or concerns about the final content.

As Segal has no discretionary authority with respect to the management or assets of the Plan, it is not a fiduciary in its capacity as actuaries and consultants with respect to the Plan.

Section 1: Actuarial Valuation Summary

Actuarial Certification

August 31, 2023

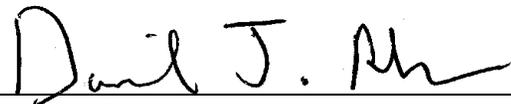
This is to certify that Segal has conducted an actuarial valuation of certain benefit obligations of State Health Plan of North Carolina other postemployment benefit programs as of June 30, 2023, in accordance with generally accepted actuarial principles and practices. The actuarial calculations presented in this report have been made on a basis consistent with our understanding of GASB Statement 74 for the determination of the liability for postemployment benefits other than pensions.

The actuarial valuation is based on the plan of benefits verified by the State Health Plan and reliance on participant, premium, claims and expense data provided by the Plan or from vendors employed by the Plan. Segal does not audit the data provided. The accuracy and comprehensiveness of the data is the responsibility of those supplying the data. Segal, however, does review the data for reasonableness and consistency.

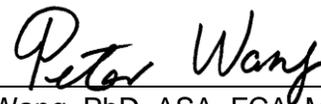
The actuarial computations made are for purposes of fulfilling plan accounting and funding requirements. Determinations for purposes other than meeting financial accounting and funding requirements may be significantly different from the results reported here. Accordingly, additional determinations may be needed for other purposes, such as judging benefit security at termination of the plan, or determining short-term cash flow requirements.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: retiree group benefits program experience or rates of return on assets differing from that anticipated by the assumptions; changes in assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in retiree group benefits program provisions or applicable law. Retiree group benefits models necessarily rely on the use of approximations and estimates, and are sensitive to changes in these approximations and estimates. Small variations in these approximations and estimates may lead to significant changes in actuarial measurements. The scope of the assignment did not include performing an analysis of the potential change of such future measurements except where noted.

To the best of our knowledge, this report is complete and accurate and in our opinion presents the information necessary to comply with GASB Statement 74 with respect to the benefit obligations addressed. The signing actuaries are members of the Society of Actuaries, the American Academy of Actuaries, and other professional actuarial organizations and collectively meet the "General Qualification Standards for Statements of Actuarial Opinions" to render the actuarial opinion contained herein.



Daniel J. Rhodes, FSA, MAAA
Senior Vice President and Consulting Actuary



Peter Wang, PhD, ASA, FCA, MAAA
Associate Actuary

GASB 74 Information

General information about the OPEB plan

Plan Description

Plan administration. The State administers the OPEB plan—a multiple employer cost-sharing OPEB plan that is used to provide postemployment benefits other than pensions for permanent full-time general employees. Management of the OPEB plan is governed by North Carolina General Statutes.

Plan membership. Plan membership consisted of the following:

	As of December 31, 2022	As of December 31, 2021
Number of retirees	220,848	215,811
Number of spouses	25,185	23,405
Number of surviving spouses	2,993	2,970
Number of inactive vested	51,616	48,413
Number of actives	287,783	318,849
Total number of participants and spouses	588,425	609,448

Benefits provided. The Plan benefits employees and former employees of the State, the University of North Carolina System, community colleges, and certain other component units. In addition, Local Education Agencies (LEAs), charter schools, and some select local governments that are not part of the financial reporting entity also participate.

Health benefit programs and premium rates are determined by the State Treasurer upon approval of the Board of Trustees. Plan benefits received by retired employees and disabled employees are other postemployment benefits (OPEB). The healthcare benefits for retired and disabled employees who are not eligible for Medicare are the same as for active employees, a choice between the self-funded 80/20 and 70/30 Preferred Provider Organization (PPO) Plans. The plan options change when former employees become eligible for Medicare. Medicare retirees have the option of selecting one of two fully insured Medicare Advantage/Prescription Drug Plan (MA-PDP) options or the self-funded 70/30 PPO plan option that is also offered to non-Medicare members. If the 70/30 Plan is selected by a Medicare retiree, the self-funded State Health Plan coverage is secondary to Medicare.

Section 2: GASB 74 Information

State Contributions. The Plan is funded by both employer contributions and premiums charged to retirees and their spouses and dependents. A percent of pay is charged to each participating employer; the rate was 6.29% for fiscal 2022 and 6.89% for fiscal 2023. Premiums are charged to retirees, and vary based on the coverage selected. The premiums for spouses are much higher than the premiums for retirees. Additional contributions of \$180.5 million and \$35.0 million were made in FY 2022 and FY 2023 and are not assumed to recur in the future. The RHBTF may also be funded through the Unfunded Liability Solvency Reserve as stated in G.S 143C-4-10. For the year ended June 30, 2023, there has been an \$0.5 million increase in the Plan Fiduciary Net Position sourced from the Unfunded Liability Solvency Reserve.

Section 2: GASB 74 Information

Net OPEB liability (in thousands)

Measurement Date	June 30, 2023	June 30, 2022
Components of the Net OPEB Liability		
Total OPEB Liability	\$29,850,087	\$26,557,121
Plan Fiduciary Net Position	3,202,661	2,810,269
Net OPEB Liability	26,647,426	23,746,852
Plan Fiduciary Net Position as a percentage of the Total OPEB Liability	10.73%	10.58%

The Net OPEB Liability was measured as of June 30, 2023 and 2022. Plan Fiduciary Net Position (plan assets) was valued as of the measurement dates and the Total OPEB Liability was determined from actuarial valuations using data as of December 31, 2022 and 2021, respectively.

Actuarial assumptions. The Total OPEB Liability was measured by an actuarial valuation as of December 31, 2022, and rolled forward to June 30, 2023 using the following actuarial assumptions, applied to all periods included in the measurement, unless otherwise specified:

Inflation	2.50%
Salary increases	Teachers: 7.30% grading down to 3.25% Law Enforcement Officers: 8.05% grading down to 3.25% General Employees: 6.25% grading down to 3.25% Other Education Employees: 7.50% grading down to 3.25%
Discount rate	3.65% for fiscal 2023, 3.54% for fiscal 2022
Healthcare cost trend rates	
Medical (Non-MA)	6.50% grading down to 5.00% by 2029
Prescription drug (Non-MA)	10.00% grading down to 5.00% by 2033
Prescription drug (Non-MA) rebates	7.00% for seven years, grading down to 5.00% by 2033
Medicare Advantage	Rates are guaranteed for 2021-2025; 5.00% for years after 2026
Administrative costs	3.00%
Mortality rates	Pub-2010 Healthy Annuitant Mortality Table for males and females, adjusted for classification for some Participants, further adjusted with scaling factors varying by participant group, and projected for mortality improvement using Scale MP-2019

Section 2: GASB 74 Information

The actuarial assumptions used in the June 30, 2023 valuation were based on the results of an actuarial experience study performed by Cavanaugh Macdonald for the period January 1, 2015 to December 31, 2019.

The Plan does not have a funding policy that covers both the Normal Cost and a payment toward the unfunded liability. The plan is funded based on contributions set each year to target the projected benefit payments for the year and investment returns and current plan assets do not fund a material portion of long-term projected benefits. As such, we have not calculated a blended discount rate.

Detailed information regarding all actuarial assumptions can be found in Section 3, Exhibit II.

Section 2: GASB 74 Information

Sensitivity (in thousands)

The following presents the NOL of the State as well as what the State's NOL would be if it were calculated using a discount rate that is 1-percentage-point lower (2.65%) or 1-percentage-point higher (4.65%) than the current rate. Also, shown is the NOL as if it were calculated using healthcare cost trend rates that were 1-percentage-point lower or 1-percentage-point higher than the current healthcare trend rates.

	1% Decrease (2.65%)	Current Discount Rate (3.65%)	1% Increase (4.65%)
Net OPEB Liability (in thousands)	\$31,435,710	\$26,647,426	\$22,747,687
	1% Decrease in Health Care Cost Trend Rates	Current Health Care Cost Trend Rates	1% Increase in Health Care Cost Trend Rates
Net OPEB Liability (in thousands)	\$21,999,839	\$26,647,426	\$32,640,392

Section 2: GASB 74 Information

Total OPEB Liability by Status and Payment Age (in thousands)

The following presents a breakdown of Total OPEB Liability as of June 30, 2023 by participant status (active, retired, etc.) and payment age (pre-65 and post-65).

Total OPEB Liability	<u>Pre-65</u>	<u>Post-65</u>	<u>Total</u>
Active	\$11,596,593	\$6,185,471	\$17,782,064
Vested	1,714,284	1,743,285	3,457,569
Retired	2,639,976	5,521,617	8,161,593
Beneficiary	8,408	9,002	17,410
Disabled	158,914	272,537	431,451
Total	\$16,118,175	\$13,731,912	\$29,850,087

Section 2: GASB 74 Information

Schedule of changes in Net OPEB Liability – Last two fiscal years (in thousands)

Measurement Date	June 30, 2023	June 30, 2022
Total OPEB Liability		
Service cost	\$1,279,519	\$2,131,391
Interest	965,755	758,427
Change of benefit terms	--	(96,837)
Differences between expected and actual experience	152,230	106,923
Changes of assumptions	2,016,085	(8,798,881)
Benefit payments, including refunds of member contributions	<u>(1,120,623)</u>	<u>(1,044,121)</u>
Net change in Total OPEB Liability	\$3,292,966	(\$6,943,098)
Total OPEB Liability – beginning	<u>26,557,121</u>	<u>33,500,219</u>
Total OPEB Liability – ending	<u>\$29,850,087</u>	<u>\$26,557,121</u>
Plan Fiduciary Net Position		
Contributions – employer	\$1,366,928	\$1,197,278
Contributions – employee	--	--
Net investment income	111,228	(107,846)
Benefit payments, including refunds of member contributions	(1,120,623)	(1,044,121)
Administrative expense	(147)	(174)
Other	<u>35,006</u>	<u>180,506</u>
Net change in Plan Fiduciary Net Position	\$392,392	\$225,643
Plan Fiduciary Net Position – beginning	<u>2,810,269</u>	<u>2,584,626</u>
Plan Fiduciary Net Position – ending	\$3,202,661	\$2,810,269
Net OPEB Liability – ending	<u>\$26,647,426</u>	<u>\$23,746,852</u>
Plan Fiduciary Net Position as a percentage of the Total OPEB Liability	10.73%	10.58%
Covered payroll ¹	\$19,839,303	\$19,034,634
Plan Net OPEB Liability as percentage of covered payroll	134.32%	124.76%

¹ Covered payroll represents total compensation basis for OPEB contributions. This amount is estimated for 2022 and 2023, based on the reported employer contributions divided by the employer contribution rate in effect in the measurement year.

Section 2: GASB 74 Information

Notes to Schedule:

Benefit Changes reflected in the June 30, 2023 Net OPEB Liability:

- None.

Changes in assumptions reflected in the June 30, 2023 Net OPEB Liability:

- The discount rate was updated, changing from 3.54% to 3.65%, based on changes in the Bond Buyer 20-year GO index rate, as selected by the State's OPEB Valuation Committee.
- The medical and prescription drug claims cost were changed based on the most recent experience.
- The actuarial factors used to estimate individual retiree and spouse costs by age and by gender were updated. The new factors are based on a review of historical claims experience by age, gender, and status (active vs retired) from Segal's claims data warehouse.
- The new Aetna contract effective January 1, 2025 was reflected.
- Medical and prescription drug trend rates were changed to current schedule.
- Enrollment assumptions were updated to model expected migrations among plan options over the next five years.
- Employer contribution rates through 2027 were updated based on draft budget legislation, as reflected in Q2 financial projections.
- The impact of the Inflation Reduction Act (IRA) on future assumed Medicare Advantage/Prescription Drug (MAPD) rates was reflected.

Benefit Changes reflected in the June 30, 2022 Net OPEB Liability:

- Recent legislation has altered the employer contribution structure. Previously, active employees and non-Medicare retirees had the same employer contribution rate. Under the new legislation, non-Medicare and Medicare retirees will have the same employer contribution rate starting 2022.

Changes in assumptions reflected in the June 30, 2022 Net OPEB Liability:

- The discount rate was updated, changing from 2.16% to 3.54%, based on changes in the Bond Buyer 20-year GO index rate, as selected by the State's OPEB Valuation Committee.
- The medical and prescription drug claims cost were changed based on most recent experience.
- The new PBM contract effective January 1, 2023 was reflected.
- Medical and prescription drug trend rates were changed to current schedule.
- Enrollment assumptions were updated to model expected migrations among plan options over the next five years.

Section 2: GASB 74 Information

Expected Net Benefit Payments (in thousands)

Year Ending December 31	Projected Net Claims	Year Ending December 31	Projected Net Claims	Year Ending December 31	Projected Net Claims	Year Ending December 31	Projected Net Claims
2023	\$718,472	2048	\$2,659,599	2073	\$1,226,186	2098	\$78,375
2024	785,754	2049	2,667,099	2074	1,187,944	2099	60,697
2025	843,153	2050	2,664,569	2075	1,146,410	2100	46,092
2026	1,040,077	2051	2,645,002	2076	1,101,731	2101	34,273
2027	1,132,033	2052	2,602,110	2077	1,054,104	2102	24,920
2028	1,217,828	2053	2,543,592	2078	1,003,798	2103	17,694
2029	1,310,640	2054	2,455,249	2079	951,130	2104	12,249
2030	1,407,726	2055	2,347,842	2080	896,439	2105	8,255
2031	1,509,904	2056	2,230,111	2081	840,134	2106	5,409
2032	1,608,055	2057	2,113,484	2082	782,682	2107	3,442
2033	1,706,678	2058	2,006,683	2083	724,580	2108	2,125
2034	1,791,630	2059	1,898,454	2084	666,392	2109	1,272
2035	1,860,785	2060	1,793,433	2085	608,755	2110	739
2036	1,914,468	2061	1,695,948	2086	552,198	2111	417
2037	1,984,774	2062	1,591,401	2087	497,164	2112	229
2038	2,068,952	2063	1,498,489	2088	444,056	2113	122
2039	2,145,946	2064	1,450,009	2089	393,239	2114	64
2040	2,217,093	2065	1,423,019	2090	345,043	2115	32
2041	2,302,248	2066	1,402,554	2091	299,759	2116	16
2042	2,371,091	2067	1,384,816	2092	257,630	2117	8
2043	2,445,499	2068	1,366,300	2093	218,856	2118	3
2044	2,517,858	2069	1,345,026	2094	183,582	2119	1
2045	2,580,043	2070	1,320,427	2095	151,898	2120	1
2046	2,625,590	2071	1,292,475	2096	123,836	2121	0
2047	2,650,303	2072	1,261,041	2097	99,364	2122	0

Section 2: GASB 74 Information

Schedule of contributions – Last ten fiscal years (in thousands)

Year Ended June 30	Actuarially Determined Contributions	Contributions in Relation to the Actuarially Determined Contributions	Contribution Deficiency / (Excess)	Covered Payroll	Contributions as a Percentage of Covered Payroll
2014	\$2,226,586	\$815,157	\$1,411,429	\$15,095,500	5.40%
2015	2,211,436	854,383	1,357,053	15,562,532	5.49%
2016	2,516,706	880,847	1,635,859	15,729,411	5.60%
2017	2,728,064	950,813	1,777,251	16,365,112	5.81%
2018	2,613,258	1,018,693	1,594,565	16,837,901	6.05%
2019	2,971,069	1,104,902	1,866,167	17,622,035	6.27%
2020	2,823,873	1,162,967	1,660,906	17,974,758	6.47%
2021	3,049,625	1,214,750	1,834,875	18,184,883	6.68%
2022	2,084,130	1,197,278	886,869	19,034,634	6.29%
2023	2,240,057	1,366,928	873,129	19,839,303	6.89%

See accompanying notes to this schedule on next page.

Section 2: GASB 74 Information

Notes to Schedule:

Methods and assumptions used to establish “actuarially determined contribution” rates:

Valuation Date	December 31 prior to the fiscal year end
Actuarial Cost Method	Projected Unit Credit (for years ended June 30, 2017 and earlier) Entry Age Normal (for years ended June 30, 2018 and after)
Amortization Method	Open 30-year level pay
Remaining Amortization Period	30 years
Asset Valuation Method	Market value
Discount Rate:	4.25% (for years ended June 30, 2016 and earlier) Bond Buyer 20-Year GO Index Rate as of fiscal year end (for years ended June 30, 2017 and after)
Timing and Payroll Adjustment:	This includes interest, rounding, and an adjustment for the difference between valuation payroll and covered payroll (not applicable for years ended June 30, 2017 and earlier) Beginning with June 30, 2022 calculation, the payroll adjustment no longer applies, as valuation payroll excludes hires after January 1, 2021
Payroll Increase Assumption:	3.50% (for years ending June 30, 2020 and earlier) 3.25% (for years ending June 30, 2021 and later)

Section 2: GASB 74 Information

Actuarially Determined Contribution (in thousands)

	July 1, 2022 - June 30, 2023	% of Payroll	July 1, 2021 - June 30, 2022	% of Payroll
Normal Cost as of preceding December 31	\$1,318,987	6.65%	\$1,279,519	6.72%
Actuarial Accrued Liability as of preceding December 31	29,016,334	146.26%	25,815,387	135.62%
Assets as of preceding December 31	2,967,694	14.96%	2,716,224	14.27%
Unfunded Actuarial Accrued Liability as of preceding December 31	26,048,640	131.30%	23,099,163	121.35%
Amortization of Unfunded Actuarial Accrued Liability	\$917,846	4.63%	\$801,696	4.21%
Timing Adjustment	3,224	0.02%	2,915	0.02%
Total Actuarially Determined Contribution	\$2,240,057	11.29%	\$2,084,130	10.95%
Covered Payroll	19,839,303		19,034,634	

Section 2: GASB 74 Information

Statement of Fiduciary Net Position (in thousands)

	June 30, 2023	June 30, 2022
Assets		
Cash and deposits	\$1,270,848	\$1,307,380
Receivables		
• Accounts receivable	633	734
• Interest receivable	3,410	629
• Contributions receivable	66,009	51,838
Total receivables	\$70,052	\$53,201
Investments	\$1,861,761	\$1,449,688
Total Assets	\$3,202,661	\$2,810,269
Net position restricted for OPEB	\$3,202,661	\$2,810,269

Supporting Information

Exhibit I: Summary of Participant Data

	As of December 31, 2022	As of December 31, 2021
Number of retirees	220,848	215,811
Average age of retirees	71.6	71.4
Number of spouses	25,185	23,405
Average age of spouses	70.1	69.8
Number of surviving spouses	2,993	2,970
Average age	79.6	79.5
Number inactive vested	51,616	48,413
Average age	49.3	49.2
Number of actives	287,783	318,849
Average age	47.0	46.0
Average service	12.3	11.4

Section 3: Supporting Information

Exhibit I: Summary of Participant Data (continued)

Active Employees Valued as of December 31, 2022 - Count and Average Pay by Age and Service

Age on 12/31/2022	Service										Total
	0	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40+	
Under 25	51	2,250	110	0	0	0	0	0	0	0	2,411
	\$13,729	\$37,992	\$41,776	\$0	\$0	\$0	\$0	\$0	\$0	\$0	37,652
25 - 29	119	11,897	6,900	25	0	0	0	0	0	0	18,941
	\$18,589	\$39,711	\$47,645	\$51,408	\$0	\$0	\$0	\$0	\$0	\$0	42,484
30 - 34	191	8,884	15,067	5,228	43	0	0	0	0	0	29,413
	\$25,677	\$43,853	\$50,816	\$57,337	\$55,191	\$0	\$0	\$0	\$0	\$0	49,715
35 - 39	211	7,196	10,937	9,330	4,583	59	0	0	0	0	32,316
	\$28,078	\$50,143	\$57,654	\$61,389	\$65,056	\$57,282	\$0	\$0	\$0	\$0	57,916
40 - 44	267	6,306	9,665	7,722	11,520	4,131	67	0	0	0	39,678
	\$38,604	\$49,769	\$60,769	\$66,309	\$67,846	\$68,527	\$66,582	\$0	\$0	\$0	62,822
45 - 49	276	5,704	9,104	6,614	8,460	9,306	3,288	27	0	0	42,779
	\$39,906	\$47,973	\$57,756	\$66,733	\$69,059	\$71,094	\$73,759	\$64,983	\$0	\$0	64,096
50 - 54	234	4,939	8,331	7,006	8,829	7,881	8,291	1,350	13	0	46,874
	\$51,319	\$47,840	\$55,583	\$62,475	\$66,781	\$70,910	\$74,437	\$79,972	\$69,978	\$0	64,503
55 - 59	169	4,352	6,905	5,768	8,491	5,980	4,500	1,638	294	4	38,101
	\$47,136	\$48,427	\$53,116	\$58,888	\$61,755	\$68,729	\$72,340	\$81,718	\$76,928	\$63,752	61,488
60 - 64	166	2,753	4,627	3,959	4,988	4,547	2,331	1,129	549	100	25,149
	\$50,548	\$46,116	\$54,063	\$58,320	\$61,799	\$65,461	\$73,220	\$93,838	\$85,883	\$83,685	61,809
65 - 69	83	995	1,697	1,389	1,684	994	753	526	302	186	8,609
	\$68,684	\$43,569	\$57,588	\$63,845	\$65,952	\$71,585	\$82,655	\$109,137	\$118,567	\$95,053	68,627
70 & over	60	460	574	558	585	399	267	200	155	254	3,512
	\$31,799	\$36,723	\$49,772	\$56,972	\$64,012	\$76,593	\$87,682	\$110,193	\$128,846	\$135,446	70,328
Total	1,827	55,736	73,917	47,599	49,183	33,297	19,497	4,870	1,313	544	287,783
	\$38,882	\$45,394	\$54,777	\$62,101	\$65,817	\$69,594	\$74,165	\$88,082	\$96,310	\$111,593	59,845

Section 3: Supporting Information

Exhibit II: Actuarial Assumptions and Actuarial Cost Method

Data:	Detailed census data, premium rates, claim experience, and summary plan descriptions for OPEB were provided by the State. Active participants hired after January 1, 2021, were excluded based on “Membership Begin Date” provided in the data file
Actuarial Cost Method:	Entry Age, Level Percentage of Pay. Decrements are assumed to occur mid-year.
Asset Valuation Method:	Market Value
Basis for Demographic Assumptions:	The demographic assumptions are based on a study performed by Cavanaugh Macdonald for the period ending December 31, 2019. The study was presented to the Board of Trustees for the Teachers' and State Employees' Retirement System (TSERS) of North Carolina in December 2020 and was approved for use. Participants in the Consolidated Judicial Retirement System, the Legislative Retirement System, the University Employees' Optional Retirement Program, and eligible local governments are valued using the General Employees' assumptions. All demographic assumptions were prescribed by the OPEB Valuation Committee to be consistent with the TSERS pension valuation.
Census Valuation Date:	December 31, 2022. Employees that become participants after the valuation date are excluded. Participating employers for sake of the valuation are determined at the beginning of the fiscal year (i.e., included in the total OPEB liability). Allocations to employers are determined based on whether the employer has made contributions during the fiscal year and prior to the valuation date.
Measurement Date:	Liabilities were rolled forward to June 30, 2023. The Entry Age Actuarial Accrued Liability was adjusted from the Valuation Date to the Measurement Date using compound interest adjustments to half the service cost, half the interest cost, and half the expected benefit payments. Financial data was collected as of the Measurement Date
Allocations to Employers:	Pro rata allocation of the NOL based on the Present Value of Future Salaries for employers that made contributions to the Trust during the fiscal year.
Discount Rate:	3.65%. The discount rate is based on the Bond Buyer 20-year GO index as of June 30, 2023. The Plan is funded essentially on a “pay-as-you-go” basis, and any prefunding that results from employer and retiree contributions in excess of benefit payments is not material. The additional contribution of \$35.0 million in FY 2023 was not assumed to recur. As such, a blended discount rate is not applicable.
Salary increases based on service:	Teachers: 7.30% grading down to 3.25% Law Enforcement Officers: 8.05% grading down to 3.25% General Employees: 6.25% grading down to 3.25% Other Education Employees: 7.50% grading down to 3.25%
Payroll Increases:	3.25%.
Investment Return:	6.50%. This rate is provided by the State and the Building Blocks table used for GASB disclosures is provided by the Investment Management Division of the Department of the State Treasurer.

Section 3: Supporting Information

Pre- Retirement Mortality:	Teachers use the Pub-2010 Teachers table. General and other education employees use the Pub-2010 General table. Law enforcement officers use the Pub-2010 Safety table.				
Post-Disablement Mortality:	Non-safety participants use the Pub-2010 General Disabled Retirees Amount-Weighted table, set back 1 year for females and set forward 3 years for males. Safety participants use the Pub-2010 General Disabled Retirees Amount-Weighted table, set back 3 years.				
Post-Retirement Mortality:	Retirees	Mortality Table and adjustments			
	Male General and Other Education	Pub-2010 General Table adjusted by a factor of 105.5%			
	Female General and Other Education	Pub-2010 General Table, adjusted by a factor grading from 95% for 76 and below to 110% for 90 and above			
	Male Teachers	Pub-2010 Teachers Below Median Table, adjusted by a factor grading from 96% for 83 and below to 106% for 87 and above			
	Female Teachers	Pub-2010 Teacher Below Median Table, adjusted by a factor grading from 100% for 81 and below to 105% for 85 and above			
	Law Enforcement	Pub-2010 Safety, set forward 1 year, adjusted by a factor of 97% for both males and females			
	Spouses	Pub-2010 Teachers Contingent Annuitant Below Median Table, set forward 3 years for males and 1 year for females			
Mortality Projection Scale:	MP-2019				
Disability Rates:		Rate		These rates are the non-grandfathered rates used in the DIPNC valuation. The number of members eligible for transitional disability coverage provisions under G.S. 135-112 ("grandfathered") is a relatively small group of individuals.	
		Age	Male		Female
		20-24	0.00045		0.00014
		25-29	0.00018		0.00014
		30-34	0.00029		0.00064
		35-39	0.00059		0.00072
		40-44	0.00084		0.00120
		45-49	0.00123		0.00176
		50-54	0.00230		0.00256
		55-59	0.00346		0.00336
	60-62	0.00302	0.00336		
	63-64	0.00302	0.00240		

Section 3: Supporting Information

Turnover Rates:

Teachers - Male							Teachers - Female						
Service							Service						
Age	0	1	2	3	4	>= 5	Age	0	1	2	3	4	>= 5
25	5.00%	17.50%	15.50%	14.50%	11.50%	30.00%	25	3.50%	16.50%	15.50%	13.75%	11.50%	35.00%
30	5.00%	17.50%	15.50%	14.50%	11.50%	9.00%	30	3.50%	16.50%	15.50%	13.75%	11.50%	10.00%
35	5.00%	17.50%	15.50%	14.50%	11.50%	6.00%	35	3.50%	16.50%	15.50%	13.75%	11.50%	5.75%
40	5.00%	17.50%	15.50%	14.50%	11.50%	4.75%	40	3.50%	16.50%	15.50%	13.75%	11.50%	4.00%
45	5.00%	17.50%	15.50%	14.50%	11.50%	3.75%	45	3.50%	16.50%	15.50%	13.75%	11.50%	3.50%
50	5.00%	17.50%	15.50%	14.50%	11.50%	4.25%	50	3.50%	16.50%	15.50%	13.75%	11.50%	4.00%
55	5.00%	17.50%	15.50%	14.50%	11.50%	4.25%	55	3.50%	16.50%	15.50%	13.75%	11.50%	4.00%
60	5.00%	17.50%	15.50%	14.50%	11.50%	4.25%	60	3.50%	16.50%	15.50%	13.75%	11.50%	4.00%

General - Male							General - Female						
Service							Service						
Age	0	1	2	3	4	>= 5	Age	0	1	2	3	4	>= 5
25	9.00%	17.00%	15.00%	12.50%	11.00%	25.00%	25	9.00%	17.50%	15.75%	14.00%	11.50%	25.00%
30	9.00%	17.00%	15.00%	12.50%	11.00%	12.50%	30	9.00%	17.50%	15.75%	14.00%	11.50%	12.00%
35	9.00%	17.00%	15.00%	12.50%	11.00%	7.50%	35	9.00%	17.50%	15.75%	14.00%	11.50%	10.00%
40	9.00%	17.00%	15.00%	12.50%	11.00%	5.00%	40	9.00%	17.50%	15.75%	14.00%	11.50%	5.75%
45	9.00%	17.00%	15.00%	12.50%	11.00%	4.00%	45	9.00%	17.50%	15.75%	14.00%	11.50%	4.00%
50	9.00%	17.00%	15.00%	12.50%	11.00%	4.00%	50	9.00%	17.50%	15.75%	14.00%	11.50%	4.00%
55	9.00%	17.00%	15.00%	12.50%	11.00%	4.00%	55	9.00%	17.50%	15.75%	14.00%	11.50%	4.00%
60	9.00%	17.00%	15.00%	12.50%	11.00%	4.00%	60	9.00%	17.50%	15.75%	14.00%	11.50%	4.00%

Other - Male							Other - Female						
Service							Service						
Age	0	1	2	3	4	>= 5	Age	0	1	2	3	4	>= 5
25	9.00%	19.00%	17.00%	13.00%	11.00%	25.00%	25	7.00%	17.50%	15.50%	12.50%	10.75%	25.00%
30	9.00%	19.00%	17.00%	13.00%	11.00%	10.00%	30	7.00%	17.50%	15.50%	12.50%	10.75%	15.00%
35	9.00%	19.00%	17.00%	13.00%	11.00%	5.50%	35	7.00%	17.50%	15.50%	12.50%	10.75%	7.50%
40	9.00%	19.00%	17.00%	13.00%	11.00%	5.00%	40	7.00%	17.50%	15.50%	12.50%	10.75%	6.50%
45	9.00%	19.00%	17.00%	13.00%	11.00%	5.00%	45	7.00%	17.50%	15.50%	12.50%	10.75%	4.75%
50	9.00%	19.00%	17.00%	13.00%	11.00%	5.00%	50	7.00%	17.50%	15.50%	12.50%	10.75%	4.50%
55	9.00%	19.00%	17.00%	13.00%	11.00%	4.00%	55	7.00%	17.50%	15.50%	12.50%	10.75%	3.50%
60	9.00%	19.00%	17.00%	13.00%	11.00%	4.00%	60	7.00%	17.50%	15.50%	12.50%	10.75%	3.50%

Section 3: Supporting Information

Turnover Rates (continued):

Law Enforcement Officers - Male and Female

Service

<u>Age</u>	0	1	2	3	4	>= 5
25	3.50%	9.25%	9.25%	9.50%	8.00%	7.50%
30	3.50%	9.25%	9.25%	9.50%	8.00%	7.50%
35	3.50%	9.25%	9.25%	9.50%	8.00%	3.50%
40	3.50%	9.25%	9.25%	9.50%	8.00%	2.50%
45	3.50%	9.25%	9.25%	9.50%	8.00%	2.00%
50	3.50%	9.25%	9.25%	9.50%	8.00%	2.00%
55	3.50%	9.25%	9.25%	9.50%	8.00%	5.00%
60	3.50%	9.25%	9.25%	9.50%	8.00%	5.00%

Section 3: Supporting Information

Active Retirement Rates:

		Teachers - Male								
		Service								
Age	<=4	5 to 9	10 to 14	15 to 19	20 to 23	24	25	26 to 28	29	>=30
<=48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.700	0.700
50	0.000	0.000	0.000	0.000	0.030	0.030	0.030	0.0425	0.700	0.700
51	0.000	0.000	0.000	0.000	0.030	0.030	0.030	0.0425	0.700	0.700
52	0.000	0.000	0.000	0.000	0.030	0.030	0.030	0.0425	0.700	0.700
53	0.000	0.000	0.000	0.000	0.030	0.030	0.030	0.0550	0.400	0.700
54	0.000	0.000	0.000	0.000	0.030	0.030	0.030	0.0550	0.400	0.450
55	0.000	0.000	0.000	0.000	0.045	0.045	0.030	0.0550	0.400	0.450
56	0.000	0.000	0.000	0.000	0.045	0.045	0.030	0.0550	0.400	0.300
57	0.000	0.000	0.000	0.000	0.045	0.045	0.030	0.0550	0.400	0.300
58	0.000	0.000	0.000	0.000	0.045	0.045	0.030	0.1100	0.400	0.300
59	0.000	0.000	0.000	0.000	0.045	0.045	0.030	0.1100	0.400	0.300
60	0.000	0.085	0.080	0.100	0.100	0.300	0.300	0.3000	0.400	0.300
61	0.000	0.085	0.080	0.100	0.100	0.400	0.400	0.3000	0.350	0.300
62	0.000	0.125	0.135	0.200	0.250	0.400	0.400	0.3000	0.350	0.350
63	0.000	0.125	0.135	0.200	0.200	0.400	0.400	0.3000	0.300	0.350
64	0.000	0.125	0.135	0.200	0.200	0.400	0.400	0.3000	0.300	0.250
65	0.000	0.175	0.225	0.250	0.325	0.325	0.400	0.3000	0.300	0.250
66	0.000	0.175	0.225	0.250	0.325	0.325	0.400	0.3500	0.300	0.300
67	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.3500	0.150	0.300
68	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.2500	0.150	0.300
69	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.2500	0.150	0.300
70	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.2500	0.150	0.300
71	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.2500	0.250	0.300
72	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.2500	0.250	0.300
73	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.2500	0.250	0.100
74	0.000	0.175	0.225	0.250	0.250	0.250	0.250	0.2500	0.250	0.100
>=75	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.0000	1.000	1.000

Section 3: Supporting Information

Active Retirement Rates (continued):

Age	Teachers - Female									
	Service									
	<=4	5 to 9	10 to 14	15 to 19	20 to 23	24	25	26 to 28	29	>=30
<=48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.650	0.750
50	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.050	0.650	0.750
51	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.050	0.650	0.750
52	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.050	0.500	0.750
53	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.050	0.400	0.550
54	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.050	0.400	0.400
55	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.070	0.400	0.375
56	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.070	0.400	0.375
57	0.000	0.000	0.000	0.000	0.050	0.050	0.045	0.070	0.450	0.375
58	0.000	0.000	0.000	0.000	0.075	0.075	0.045	0.070	0.450	0.375
59	0.000	0.000	0.000	0.000	0.075	0.075	0.045	0.070	0.450	0.375
60	0.000	0.080	0.100	0.100	0.130	0.250	0.250	0.400	0.500	0.375
61	0.000	0.080	0.100	0.100	0.130	0.475	0.475	0.400	0.450	0.400
62	0.000	0.135	0.200	0.200	0.225	0.475	0.475	0.400	0.450	0.400
63	0.000	0.135	0.200	0.200	0.225	0.475	0.475	0.400	0.375	0.400
64	0.000	0.135	0.200	0.200	0.225	0.475	0.475	0.400	0.375	0.400
65	0.000	0.250	0.300	0.250	0.350	0.350	0.475	0.400	0.450	0.400
66	0.000	0.250	0.300	0.350	0.350	0.350	0.475	0.400	0.450	0.400
67	0.000	0.250	0.300	0.350	0.350	0.350	0.475	0.400	0.400	0.400
68	0.000	0.225	0.300	0.250	0.350	0.350	0.300	0.400	0.400	0.325
69	0.000	0.225	0.250	0.250	0.350	0.350	0.300	0.300	0.400	0.325
70	0.000	0.225	0.250	0.300	0.300	0.300	0.300	0.300	0.400	0.325
71	0.000	0.225	0.250	0.300	0.300	0.300	0.400	0.300	0.400	0.325
72	0.000	0.225	0.250	0.300	0.300	0.300	0.400	0.300	0.400	0.325
73	0.000	0.225	0.250	0.300	0.300	0.300	0.400	0.300	0.400	0.325
74	0.000	0.225	0.250	0.300	0.300	0.300	0.400	0.300	0.400	0.325
>=75	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Section 3: Supporting Information

Active Retirement Rates (continued):

Age	General - Male									
	Service									
	<=4	5 to 9	10 to 14	15 to 19	20 to 23	24	25	26 to 28	29	>=30
<=48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.600	0.600
50	0.000	0.000	0.000	0.000	0.030	0.030	0.040	0.070	0.600	0.600
51	0.000	0.000	0.000	0.000	0.030	0.030	0.040	0.070	0.500	0.500
52	0.000	0.000	0.000	0.000	0.030	0.030	0.040	0.070	0.500	0.500
53	0.000	0.000	0.000	0.000	0.030	0.030	0.040	0.070	0.400	0.500
54	0.000	0.000	0.000	0.000	0.030	0.030	0.040	0.070	0.400	0.350
55	0.000	0.000	0.000	0.000	0.030	0.030	0.040	0.070	0.400	0.350
56	0.000	0.000	0.000	0.000	0.030	0.030	0.040	0.070	0.400	0.350
57	0.000	0.000	0.000	0.000	0.060	0.060	0.040	0.070	0.400	0.350
58	0.000	0.000	0.000	0.000	0.060	0.060	0.040	0.070	0.400	0.270
59	0.000	0.000	0.000	0.000	0.060	0.060	0.040	0.070	0.400	0.270
60	0.000	0.090	0.070	0.070	0.100	0.225	0.225	0.300	0.400	0.270
61	0.000	0.090	0.070	0.070	0.100	0.300	0.300	0.300	0.400	0.270
62	0.000	0.090	0.200	0.175	0.225	0.400	0.400	0.300	0.400	0.300
63	0.000	0.090	0.150	0.175	0.200	0.400	0.400	0.250	0.400	0.300
64	0.000	0.090	0.150	0.150	0.200	0.400	0.400	0.250	0.275	0.300
65	0.000	0.180	0.250	0.250	0.300	0.300	0.400	0.350	0.275	0.300
66	0.000	0.180	0.250	0.325	0.300	0.300	0.400	0.350	0.400	0.300
67	0.000	0.180	0.250	0.225	0.250	0.250	0.400	0.300	0.400	0.300
68	0.000	0.180	0.250	0.225	0.225	0.225	0.250	0.300	0.300	0.300
69	0.000	0.180	0.250	0.225	0.225	0.225	0.250	0.300	0.300	0.300
70	0.000	0.180	0.250	0.225	0.225	0.225	0.250	0.300	0.300	0.300
71	0.000	0.180	0.250	0.225	0.225	0.225	0.200	0.300	0.300	0.250
72	0.000	0.200	0.250	0.225	0.225	0.225	0.250	0.300	0.300	0.250
73	0.000	0.200	0.250	0.225	0.150	0.150	0.150	0.300	0.300	0.250
74	0.000	0.200	0.250	0.225	0.150	0.150	0.150	0.300	0.300	0.250
>=75	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Section 3: Supporting Information

Active Retirement Rates (continued):

Age	General - Female									
	Service									
	<=4	5 to 9	10 to 14	15 to 19	20 to 23	24	25	26 to 28	29	>=30
<=48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.400
50	0.000	0.000	0.000	0.000	0.035	0.035	0.040	0.060	0.400	0.400
51	0.000	0.000	0.000	0.000	0.035	0.035	0.040	0.060	0.400	0.400
52	0.000	0.000	0.000	0.000	0.035	0.035	0.040	0.060	0.400	0.400
53	0.000	0.000	0.000	0.000	0.035	0.035	0.040	0.060	0.400	0.400
54	0.000	0.000	0.000	0.000	0.035	0.035	0.040	0.060	0.400	0.300
55	0.000	0.000	0.000	0.000	0.040	0.040	0.040	0.060	0.400	0.250
56	0.000	0.000	0.000	0.000	0.040	0.040	0.040	0.060	0.400	0.250
57	0.000	0.000	0.000	0.000	0.050	0.050	0.040	0.060	0.400	0.250
58	0.000	0.000	0.000	0.000	0.050	0.050	0.040	0.060	0.400	0.250
59	0.000	0.000	0.000	0.000	0.050	0.050	0.040	0.060	0.400	0.250
60	0.000	0.070	0.080	0.090	0.095	0.200	0.200	0.300	0.400	0.250
61	0.000	0.070	0.080	0.090	0.095	0.350	0.350	0.300	0.350	0.250
62	0.000	0.100	0.160	0.170	0.200	0.350	0.350	0.300	0.350	0.300
63	0.000	0.100	0.160	0.170	0.200	0.350	0.350	0.300	0.350	0.300
64	0.000	0.100	0.160	0.170	0.200	0.350	0.350	0.300	0.350	0.300
65	0.000	0.200	0.250	0.300	0.300	0.300	0.350	0.300	0.350	0.300
66	0.000	0.200	0.250	0.300	0.300	0.300	0.350	0.350	0.350	0.300
67	0.000	0.150	0.250	0.300	0.300	0.300	0.350	0.350	0.350	0.300
68	0.000	0.150	0.200	0.225	0.300	0.300	0.350	0.250	0.350	0.250
69	0.000	0.150	0.200	0.225	0.250	0.250	0.350	0.250	0.350	0.250
70	0.000	0.150	0.200	0.225	0.250	0.250	0.350	0.250	0.300	0.300
71	0.000	0.175	0.200	0.225	0.250	0.250	0.200	0.250	0.300	0.300
72	0.000	0.175	0.200	0.225	0.250	0.250	0.200	0.250	0.300	0.300
73	0.000	0.125	0.200	0.175	0.200	0.200	0.200	0.250	0.300	0.300
74	0.000	0.125	0.200	0.175	0.200	0.200	0.200	0.250	0.300	0.300
>=75	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Section 3: Supporting Information

Active Retirement Rates (continued):

Age	Other - Male									
	Service									
	<=4	5 to 9	10 to 14	15 to 19	20 to 23	24	25	26 to 28	29	>=30
<=48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.500
50	0.000	0.000	0.000	0.000	0.035	0.035	0.045	0.045	0.500	0.500
51	0.000	0.000	0.000	0.000	0.035	0.035	0.045	0.045	0.500	0.500
52	0.000	0.000	0.000	0.000	0.035	0.035	0.045	0.045	0.500	0.500
53	0.000	0.000	0.000	0.000	0.035	0.035	0.045	0.045	0.300	0.500
54	0.000	0.000	0.000	0.000	0.035	0.035	0.045	0.045	0.300	0.500
55	0.000	0.000	0.000	0.000	0.040	0.040	0.050	0.050	0.300	0.300
56	0.000	0.000	0.000	0.000	0.040	0.040	0.050	0.050	0.300	0.275
57	0.000	0.000	0.000	0.000	0.040	0.040	0.050	0.050	0.300	0.275
58	0.000	0.000	0.000	0.000	0.040	0.040	0.050	0.050	0.300	0.275
59	0.000	0.000	0.000	0.000	0.040	0.040	0.050	0.050	0.300	0.275
60	0.000	0.080	0.070	0.100	0.090	0.200	0.200	0.200	0.300	0.275
61	0.000	0.080	0.070	0.100	0.125	0.200	0.200	0.200	0.300	0.275
62	0.000	0.125	0.200	0.250	0.280	0.350	0.350	0.350	0.300	0.275
63	0.000	0.125	0.150	0.175	0.220	0.275	0.275	0.275	0.300	0.275
64	0.000	0.125	0.150	0.175	0.190	0.275	0.275	0.275	0.300	0.275
65	0.000	0.100	0.250	0.250	0.300	0.300	0.275	0.275	0.250	0.275
66	0.000	0.225	0.250	0.275	0.250	0.250	0.300	0.300	0.250	0.350
67	0.000	0.100	0.250	0.275	0.175	0.175	0.300	0.300	0.250	0.350
68	0.000	0.100	0.250	0.300	0.200	0.200	0.300	0.300	0.250	0.350
69	0.000	0.100	0.250	0.250	0.225	0.225	0.300	0.300	0.250	0.350
70	0.000	0.100	0.250	0.250	0.225	0.225	0.300	0.300	0.250	0.350
71	0.000	0.100	0.250	0.250	0.225	0.225	0.250	0.250	0.250	0.350
72	0.000	0.100	0.250	0.250	0.225	0.225	0.175	0.175	0.250	0.350
73	0.000	0.250	0.250	0.250	0.225	0.225	0.175	0.175	0.250	0.350
74	0.000	0.250	0.250	0.250	0.225	0.225	0.175	0.175	0.250	0.350
>=75	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Section 3: Supporting Information

Active Retirement Rates (continued):

Age	Other - Female									
	Service									
	<=4	5 to 9	10 to 14	15 to 19	20 to 23	24	25	26 to 28	29	>=30
<=48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.400	0.500
50	0.000	0.000	0.000	0.000	0.045	0.045	0.045	0.045	0.400	0.500
51	0.000	0.000	0.000	0.000	0.045	0.045	0.045	0.045	0.400	0.500
52	0.000	0.000	0.000	0.000	0.045	0.045	0.045	0.045	0.400	0.500
53	0.000	0.000	0.000	0.000	0.045	0.045	0.045	0.045	0.300	0.350
54	0.000	0.000	0.000	0.000	0.045	0.045	0.045	0.045	0.300	0.300
55	0.000	0.000	0.000	0.000	0.045	0.045	0.060	0.060	0.300	0.300
56	0.000	0.000	0.000	0.000	0.060	0.060	0.060	0.060	0.300	0.300
57	0.000	0.000	0.000	0.000	0.060	0.060	0.060	0.060	0.300	0.300
58	0.000	0.000	0.000	0.000	0.060	0.060	0.060	0.060	0.300	0.300
59	0.000	0.000	0.000	0.000	0.060	0.060	0.060	0.060	0.300	0.300
60	0.000	0.070	0.090	0.100	0.100	0.300	0.300	0.300	0.375	0.300
61	0.000	0.070	0.090	0.100	0.100	0.300	0.300	0.300	0.375	0.300
62	0.000	0.125	0.200	0.225	0.225	0.300	0.300	0.300	0.375	0.350
63	0.000	0.125	0.200	0.200	0.200	0.300	0.300	0.300	0.375	0.350
64	0.000	0.125	0.200	0.200	0.200	0.300	0.300	0.300	0.300	0.350
65	0.000	0.175	0.250	0.250	0.300	0.300	0.350	0.350	0.300	0.350
66	0.000	0.175	0.250	0.250	0.300	0.300	0.350	0.350	0.300	0.350
67	0.000	0.150	0.250	0.250	0.300	0.300	0.350	0.350	0.200	0.350
68	0.000	0.150	0.200	0.225	0.300	0.300	0.275	0.275	0.200	0.350
69	0.000	0.150	0.200	0.225	0.300	0.300	0.275	0.275	0.200	0.350
70	0.000	0.150	0.200	0.225	0.200	0.200	0.275	0.275	0.200	0.350
71	0.000	0.150	0.175	0.225	0.200	0.200	0.275	0.275	0.200	0.350
72	0.000	0.150	0.175	0.225	0.200	0.200	0.250	0.250	0.200	0.350
73	0.000	0.150	0.175	0.200	0.200	0.200	0.250	0.250	0.200	0.350
74	0.000	0.150	0.175	0.200	0.200	0.200	0.250	0.250	0.200	0.350
>=75	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Section 3: Supporting Information

Active Retirement Rates (continued):

Law Enforcement - Male and Female

Age	Service							
	≤4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 28	29	≥30
≤48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
49	0.000	0.000	0.000	0.000	0.000	0.000	0.900	0.800
50-54	0.000	0.000	0.000	0.040	0.050	0.050	0.900	0.800
55	0.000	0.200	0.200	0.350	0.350	0.500	0.900	0.650
56	0.000	0.200	0.200	0.175	0.300	0.250	0.900	0.650
57	0.000	0.100	0.200	0.175	0.300	0.250	0.900	0.650
58	0.000	0.150	0.200	0.175	0.300	0.250	0.900	0.650
59	0.000	0.100	0.200	0.175	0.300	0.250	0.900	0.500
60	0.000	0.100	0.200	0.125	0.250	0.250	0.500	0.500
61	0.000	0.100	0.200	0.125	0.250	0.250	0.500	0.500
62	0.000	0.150	0.450	0.125	0.250	0.250	0.500	0.500
63	0.000	0.150	0.450	0.125	0.250	0.250	0.500	0.500
64	0.000	0.150	0.450	0.125	0.250	0.250	0.500	0.500
65	0.000	0.150	0.450	0.250	0.250	0.250	0.500	0.500
66	0.000	0.200	0.450	0.250	0.250	0.250	0.500	0.500
67-74	0.000	0.250	0.150	0.250	0.250	0.250	0.250	0.500
≥75	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

The eligibility for retirement is determined as of the timing of the assumed decrement (middle of year), rather than as of the anniversary of the Valuation Date (the beginning of year). This creates assumed retirements for participants with 4.5, 24.5, and 29.5 years of service as of the anniversary of the Valuation Date.

Inactive Vested Retirement Expected Enrollment Age:

Age 55 with 20 or more years of service; age 63 with 5 or more years of service, but less than 20 years of service

Missing Participant Data:

Actives and terminated vested who do not have plan codes are assumed to be enrolled in plans based on enrollment assumptions.

Missing, invalid, or unreasonable dates of birth are assumed an average value of the group. Invalid gender codes are replaced with the default of male.

Any other missing census item for a given participant was assumed to equal the average value of that item over all other participants of the same status for whom the item is known.

Participation and Coverage Election:

100% of employees eligible to retire and receive subsidized postretirement health coverage were assumed to elect medical and prescription drug coverage. All participants are assumed to be enrolled in plans based on enrollment assumptions.

Dependents:

Demographic data was available for spouses of current retirees. For future retirees, husbands were assumed to be four years older than their wives. 10% of future retirees who elect to continue their health coverage at retirement were assumed to have an eligible spouse who also opts for health coverage at that time.

Section 3: Supporting Information

Data Adjustments:

Since child records under split contract were reported as subscribers, we assumed retirees under age 27 were children.

For participants with both an active and terminated vested records, the active record was maintained. For participants with multiple active records from different employers, service was merged, earliest provided membership date was used to determine pre-2006 vs post-2006 status, and (if applicable), the teacher record was used to determine assumptions and plan provisions.

Matching spouses of retirees to retirees when they were covered under split contracts (one Medicare eligible and the other not) was problematic. Additionally, surviving spouses who are not receiving survivor benefits under the retirement plan were not readily distinguishable from retirees. We believe that there are spouses of retirees that we have valued as retirees without paying the spouse premium. No adjustment has been made to the valuation liabilities.

Per Capita Cost Development:

Medical and Prescription Drug: Per capita claims costs were based on actual incurred claim experience for the periods January 1, 2020 through December 31, 2022. 2020/2021 claims were adjusted for COVID-19 impact by factors of +6.06%/-0.78% for medical and -1.17%/0% for prescription drug. Medical claims for 2022 were further adjusted by a factor of 1.25% to account for claims incurred in 2022 but not yet processed through March 2023. Drug claims for 2021/2022 were also adjusted by -1.50%/-1.48% for the performance guarantees received in March 2022 and March 2023. Claims were separated by Medicare and Non-Medicare participants, then adjusted as follows:

- Total claims were divided by the number of adult members to yield a per capita claim
- The per capita claim was trended to the midpoint of the valuation year at assumed trend rates
- The per capita claim was adjusted for the effect of any plan changes
- Prescription drug claims were adjusted by -3.8% to reflect initial PBM contract savings
- Actuarial factors were then applied to the per capita claims to estimate individual retiree and spouse costs by age and by gender.

Medicare Advantage plans were valued by actuarially adjusting the insured premium rates by age and gender.

Administrative Expenses: Administrative expenses were based on a recent quarterly projection prepared by Segal, using detailed administrative expense data provided by the State.

Section 3: Supporting Information

Per Capita Health Costs (2023): Non-Medicare	Non-Medicare Retiree and Spouse								
		70/30 Medical		80/20 Medical		70/30 Rx		80/20 Rx	
	Age	Male	Female	Male	Female	Male	Female	Male	Female
	50	6,580	6,948	9,423	9,950	1,821	1,913	3,049	3,219
	55	7,425	7,542	10,633	10,801	2,044	2,076	3,440	3,495
	60	8,549	8,176	12,243	11,709	2,354	2,251	3,961	3,788
	65	10,909	9,061	15,622	12,976	3,003	2,494	5,054	4,198
	70	12,252	10,136	17,546	14,516	3,373	2,791	5,677	4,696
	75	13,535	10,656	19,383	15,261	3,726	2,934	6,271	4,937
	80	14,172	11,374	20,296	16,289	3,902	3,131	6,566	5,270
Per Capita Health Costs (2023): Medicare	Medicare Retiree and Spouse								
		MA Base		MA Enhanced		70/30 Medical		70/30 Rx	
	Age	Male	Female	Male	Female	Male	Female	Male	Female
	50	\$0	\$0	\$489	\$517	704	743	1,812	1,913
	55	0	0	552	561	795	807	2,044	2,076
	60	0	0	636	608	915	875	2,354	2,251
	65	0	0	811	674	1,167	970	3,003	2,494
	70	0	0	911	754	1,311	1,085	3,373	2,791
	75	0	0	1,006	792	1,448	1,140	3,726	2,934
	80	0	0	1,054	846	1,516	1,217	3,902	3,131

Section 3: Supporting Information

Health Care Cost Trend Rates:

Health care trend measures the anticipated overall rate at which health plan costs are expected to increase in future years. The rates shown below are “net” and are applied to the net per capita costs shown above. The trend shown for a particular plan year is the rate that is applied to that year’s cost to yield the next year’s projected cost.

Year Ending Dec 31	Rate (%)				
	Medical Self-Funded	Prescription Drug	Prescription Drug Rebates	Medicare Advantage	Admin.
2023	6.50%	10.00%	7.00%	N/A	3.00%
2024	6.25%	9.50%	7.00%	N/A	3.00%
2025	6.00%	9.00%	7.00%	N/A	3.00%
2026	5.75%	8.50%	7.00%	5.00%	3.00%
2027	5.50%	8.00%	7.00%	5.00%	3.00%
2028	5.25%	7.50%	7.00%	5.00%	3.00%
2029	5.00%	7.00%	7.00%	5.00%	3.00%
2030	5.00%	6.50%	6.50%	5.00%	3.00%
2031	5.00%	6.00%	6.00%	5.00%	3.00%
2032	5.00%	5.50%	5.50%	5.00%	3.00%
2033 & later ¹	5.00%	5.00%	5.00%	5.00%	3.00%

The trend rate assumptions were based on the trends consistent with the Quarterly Financial Projections, and were developed using Segal’s internal guidelines. The guidelines are established each year using data sources such as the 2023 Segal Health Trend Survey, internal client results, trends from other published surveys prepared by the S&P Dow Jones Indices, consulting firms and brokers, and CPI statistics published by the Bureau of Labor Statistics.

Adjustments to the base trends above were made as follows:

- Medical trend for 2025 was adjusted by -0.5% to reflect the estimated savings from Aetna starting in 2025.
- MA Base/Enhanced premiums are assumed to be \$0/\$69 for year 2023-2025, per 5-year contract guarantee. Rates are assumed to increase to \$57/\$126 in year 2026. An additional \$3 was added to prior assumed 2025 rates to account for anticipated cost increases due to the Inflation Reduction Act.
- Net prescription drug trend rates for 2023 through 2028, including claims, rebates, and PBM contract savings, are 5.70%, 5.50%, 10.74%, 10.12%, 8.70%, and 7.84%.
- Administrative trends for 2023-2026 were adjusted for assumed additional administrative costs for new PBM contract in 2023 and for new Aetna TPA contract starting in 2025.

¹ The ultimate trend rate was used to roll claims backward from the valuation date for purposes of the Entry Age Normal Cost Method

Section 3: Supporting Information

Medicare Part D Subsidy Assumption:	GASB guidelines prohibit the offset of OPEB obligations by the future value of Medicare Part D subsidies. Therefore, these calculations do not include an estimate for retiree prescription drug plan federal subsidies that the North Carolina State Health Plan may be eligible to receive.					
Retiree Contribution Increase Rate:	2023 trend on contributions was adjusted to projected 2023 contribution rates, including anticipated wellness credits and enrollment migration. A monthly contribution of \$4 was assumed for spouses and contributory retirees in the MA Base plan for years in which the premium is \$0. Retiree/spouse contributions for the 80/20 and 70/30 plans were assumed to remain flat for five years. Employer contributions are assumed to change over the next five years in accordance with the draft budget legislation. Beyond that point, retiree contributions for medical and prescription drugs were assumed to increase at the same blended trend rate as medical and prescription drug cost. After 10 years, all contributions are assumed to increase at ultimate trend of 5.0%.					
Assumption for Tobacco Attestation	The percentage of participants in the 80/20 Plan that complete a Tobacco Attestation is assumed to be 99.3% in all years.					
Administrative Expenses:	Administrative expense loads of \$269 per participant (retiree and spouse) for Non-Medicare retiree and of \$69 for Medicare retirees (blended MA & non-MA), increasing at 3.0% per year thereafter were added to projected incurred claims cost in developing the benefit obligations. The additional prescription drug administrative expenses to account for the new PBM contract are included.					
Plan Design:	Development of plan liabilities was based on the substantive plan of benefits in effect as described in Exhibit III.					
Maximum Benefits:	There are no annual or lifetime maximum benefits assumed.					
Plan Enrollment Assumptions	Based on most recent financial report: Plan Enrollment Assumptions are valued by adjusting the trend for 2023-2027 for enrollment migration.					
	Non-Medicare Retiree	2023	2024	2025	2026	2027
	80/20 Plan	42.4%	41.9%	41.4%	40.9%	40.4%
	70/30 Plan	57.6%	58.1%	58.6%	59.1%	59.6%
	Medicare Retiree	2023	2024	2025	2026	2027
	MA Base	77.1%	75.0%	75.0%	75.0%	75.0%
	MA Enhanced	8.5%	10.0%	10.0%	10.0%	10.0%
	70/30 Plan	14.4%	15.0%	15.0%	15.0%	15.0%

Section 3: Supporting Information

Models

Segal accounting results are based on proprietary actuarial modeling software. The accounting valuation models generate a comprehensive set of liability and cost calculations that are presented to meet accounting standards and client requirements. Our Actuarial Technology and Systems unit, comprising both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuaries.

The results are also based on models for cost projections developed by Segal actuaries and programmers. The client team customizes and validates the models, and reviews the results, under the supervision of the responsible actuary.

Our claims costs assumptions are based on proprietary modeling software as well as models that were developed by others. These models generate per capita claims cost calculations that are used in our valuation software. Our Health Technical Services Unit, comprised of actuaries and programmers, is responsible for the initial development and maintenance of our health models. They are also responsible for testing models that we purchase from other vendors for reasonableness. The client team inputs the paid claims, enrollments, plan provisions and assumptions into these models and reviews the results for reasonableness, under the supervision of the responsible actuary.

Assumption Changes since Prior Valuation:

- The discount rate was updated, changing from 3.54% to 3.65%, based on changes in the Bond Buyer 20-year GO index rate, as selected by the State's OPEB Valuation Committee.
- The medical and prescription drug claims cost were changed based on the most recent experience.
- The actuarial factors used to estimate individual retiree and spouse costs by age and by gender were updated. The new factors are based on a review of historical claims experience by age, gender, and status (active vs retired) from Segal's claims data warehouse.
- The new Aetna contract effective January 1, 2025 was reflected.
- Medical and prescription drug trend rates were changed to current schedule.
- Enrollment assumptions were updated to model expected migrations among plan options over the next five years.
- Employer contribution rates through 2027 were updated based on draft budget legislation, as reflected in Q2 financial projections.
- The impact of the Inflation Reduction Act (IRA) on future assumed Medicare Advantage/Prescription Drug (MAPD) rates was reflected.

Section 3: Supporting Information

Exhibit III: Summary of Plan

This exhibit summarizes the major benefit provisions as included in the valuation. To the best of our knowledge, the summary represents the substantive plans as of the measurement date. It is not intended to be, nor should it be interpreted as, a complete statement of all benefit provisions.

<p>Eligibility:</p>	<p>Participants in the North Carolina State Health Plan for Teachers and State Employees who retire from the State, the University of North Carolina System, community colleges, local school systems, and certain other component units are eligible to continue to participate in the State Health Plan in retirement if they meet certain criteria. Employees hired on or after January 1, 2021, are not eligible for OPEB benefits.</p> <p>Former employees who are eligible to receive medical benefits are long-term disability beneficiaries of the Disability Income Plan of North Carolina (DIPNC) and retirees of the Teachers' and State Employees' Retirement System (TSERS), the Consolidated Judicial Retirement system (CJRS), the Legislative Retirement System (LRS), the University Employees' Optional Retirement Program (UEORP), and a small number of local governments. General retirement requirements are as follows:</p> <p>Law Enforcement Officer:</p> <ul style="list-style-type: none"> • age 50 and 15 years of service; • age 55 and 5 years of service; or • any age with 25 or more years of service. <p>All Others:</p> <ul style="list-style-type: none"> • age 50 and 20 years of service; • age 60 and 5 years of service; or • any age with 30 or more years of service. • Members achieve vesting at any age with 5 years of service. Members who separate from service after becoming vested and do not withdraw their contributions from the Retirement System may later retire (and enroll in the plan) once they have attained the retirement eligibility age.
<p>Benefit Types:</p>	<p>70/30 and 80/20 Plans are offered to non-Medicare participants, and the 70/30 Plan, Medicare Advantage Base (MA Base) and Medicare Advantage Enhanced (MA Enhanced) plans are offered to Medicare eligible participants. Coverage under 70/30 Plan becomes secondary when former employees become eligible for Medicare.</p>
<p>Duration of Coverage:</p>	<p>Lifetime for retirees and dependents</p>
<p>Dependent Benefits:</p>	<p>Same as retirees</p>

Section 3: Supporting Information

Retiree Contributions:

Monthly contributions, effective January 1, 2023, are shown below.

For Retirees hired prior to October 1, 2006 (February 1, 2007 for legislators):

	Non-Medicare			Medicare		
	70/30 Plan	80/20 Plan		70/30 Plan	MA Base	MA Enhanced
		Tobacco Attest. Not Complete	Tobacco Attest. Complete			
Retiree	\$0.00	\$110.00	\$50.00	\$0.00	\$0.00	\$73.00
Spouse	\$590.00	\$650.00		\$425.00	\$4.00	\$73.00

For Retirees hired on or after October 1, 2006 (February 1, 2007 for legislators), contributions are defined as a percentage of the total premium costs based on the following service based schedule:

Years of Service at Retirement	Retiree Contribution Percentage	Spouse Contribution Percentage
5 – 9.99	100%	100%
10 – 19.99	50%	100%
20 or more	0%	100%

100% and 50% of the total premium costs are shown below:

	Non-Medicare			Medicare		
	70/30 Plan	80/20 Plan		70/30 Plan	MA Base	MA Enhanced
		Tobacco Attest. Not Complete	Tobacco Attest. Complete			
Retiree 100% of Premium	\$472.08	\$582.08	\$522.08	\$472.08	\$4.00	\$73.00
Retiree 50% of Premium	\$236.04	\$346.04	\$286.04	\$236.04	\$4.00	\$73.00
Spouse	\$590.00	\$650.00		\$425.00	\$4.00	\$73.00

Section 3: Supporting Information

Benefit Descriptions (as of January 1, 2023): PPO 70/30 Plan	PPO 70/30 Plan	In-Network	Out-Of-Network
	Medical		
<i>Annual Deductible</i>		\$1,500/\$4,500	\$3,000/\$9,000
<i>Member Coinsurance</i>		30%	50%
<i>Out-of-Pocket Maximum</i>		\$5,900/\$16,300	\$11,800/\$32,600
<i>Primary Care Office Visit Copay</i>		\$45 (\$30/\$0 when using PCP/CCP PCP on ID card)	Ded. & Coins.
<i>Specialist Office Visit Copay</i>		\$94 (\$47 when using CPP Specialist)	Ded. & Coins.
<i>Preventive Care</i>		\$0	N/A
<i>Urgent Care Copay</i>		\$100	\$100
<i>Inpatient Hospitalization Copay</i>		\$337 + Ded. & Coins	\$337 + Ded. & Coins.
<i>Outpatient Hospitalization Copay</i>		Ded. & coins	Ded. & Coins
<i>Emergency Room</i>		\$337 + Ded. & Coins.	same as In-Network
<i>Physical, Occupational, Speech, or Chiropractic Therapy</i>		\$72 (\$36 when using CPP Provider)	Ded. & Coins.
<i>Mental Health and Substance Abuse Office Visit Copay</i>		\$45	Coinsurance
Prescription Drugs (up to 30 day supply – copays are 2x for 31-60 day supply and 3x for 61-90 day supply)			
<i>Tier 1 - Generic</i>		\$16	
<i>Tier 2 - Preferred Brand</i>		\$47	
<i>Tier 3 - Non-Preferred Brand</i>		Ded. & Coins.	
<i>Tier 4 - Generic Specialty</i>		\$200	
<i>Tier 5 - Preferred Specialty</i>		\$350	
<i>Tier 6 - Non-Preferred Specialty</i>		Ded. & Coins.	
<i>Preferred diabetic testing supplies</i>		\$10	
<i>Non-Preferred diabetic testing supplies</i>		Ded. & Coins.	
<i>Out-of-Pocket Maximum</i>		Combined with Medical	

Section 3: Supporting Information

Benefit Descriptions (as of January 1, 2023): PPO 80/20 Plan	PPO 80/20 Plan	In-Network	Out-Of-Network
	Medical		
<i>Annual Deductible</i>		\$1,250/\$3,750	\$2,500/\$7,500
<i>Member Coinsurance</i>		20%	40%
<i>Out-of-Pocket Maximum</i>		\$4,890/\$14,670	\$9,780/\$29,340
<i>Primary Care Office Visit Copay</i>		\$25 (\$10/\$0 when using PCP/CCP PCP on ID card)	Ded. & Coins.
<i>Specialist Office Visit Copay</i>		\$80 (\$40 when using CPP Specialist)	Ded. & Coins.
<i>Preventive Care</i>		\$0	N/A
<i>Urgent Care Copay</i>		\$70	\$70
<i>Inpatient Hospitalization Copay</i>		\$300 + Ded. & Coins.	\$300 + Ded. & Coins.
<i>Outpatient Hospitalization Copay</i>		Ded. & coins	Ded. & Coins
<i>Emergency Room</i>		\$300 + Ded. & Coins.	same as In-Network
<i>Physical, Occupational, Speech, or Chiropractic Therapy</i>		\$52 (\$26 when using CPP Provider)	Ded. & Coins.
<i>Mental Health and Substance Abuse Office Visit Copay</i>		\$25	Coinsurance
Prescription Drugs (up to 30-day supply – copays are 2x for 31-60 day supply and 3x for 61-90 day supply)			
<i>Tier 1 - Generic</i>		\$5	
<i>Tier 2 - Preferred Brand</i>		\$30	
<i>Tier 3 - Non-Preferred Brand</i>		Ded. & Coins.	
<i>Tier 4 - Generic Specialty</i>		\$100	
<i>Tier 5 - Preferred Specialty</i>		\$250	
<i>Tier 6 - Non-Preferred Specialty</i>		Ded. & Coins.	
<i>Preferred diabetic testing supplies</i>		\$5	
<i>Non-Preferred diabetic testing supplies</i>		Ded. & Coins.	
<i>Out-of-Pocket Maximum</i>		Combined with Medical	

Section 3: Supporting Information

Benefit Descriptions (as of January 1, 2023): Medicare Advantage Plans

Medicare Advantage	MA-PDP Base	MA-PDP Enhanced
Medical		
<i>Annual Deductible</i>	\$0	\$0
<i>Member Coinsurance</i>	20%	20%
<i>Out-of-Pocket Maximum</i>	\$4,000	\$3,300
<i>Primary Care Office Visit Copay</i>	\$20	\$10
<i>Specialist Office Visit Copay</i>	\$40	\$35
<i>Preventive Care</i>	\$0	\$0
<i>Urgent Care Copay</i>	\$50	\$40
<i>Inpatient Hospitalization Copay</i>	Days 1-10: \$160/day; Days 11+: \$0	Days 1-10: \$125/day; Days 11+: \$0
<i>Outpatient Hospitalization Copay</i>	\$125	\$100
<i>Emergency Room Copay</i>	\$65	\$65
<i>Physical, Occupational, Speech, or Chiropractic Therapy</i>	\$20	\$20
<i>Mental Health and Substance Abuse Office Visit Copay</i>	\$20	\$10
Prescription Drugs		
<i>Retail (up to 31 day supply)</i>		
<i>Tier 1 - Preferred Generic</i>	\$10	\$10
<i>Tier 2 - Preferred Brand</i>	\$40	\$40
<i>Tier 3 - Non-Preferred</i>	\$64	\$50
<i>Tier 4 - Specialty</i>	25% coins., \$100 max.	25% coins., \$100 max.
<i>Out-of-Pocket Maximum</i>	\$2,500	\$2,500
<i>Mail Order (up to 90 day supply)</i>		
<i>Tier 1 - Preferred Generic</i>	\$24	\$24
<i>Tier 2 - Preferred Brand</i>	\$80	\$80
<i>Tier 3 - Non-Preferred</i>	\$128	\$100
<i>Tier 4 - Specialty</i>	25% coins., \$300 max.	25% coins., \$200 max.
<i>Out-of-Pocket Maximum</i>	\$2,500	\$2,500

Section 3: Supporting Information

Plan Changes since Prior Valuation	None
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Section 3: Supporting Information

Exhibit IV: Definition of Terms

Definitions of certain terms as they are used in Statement 75. The terms may have different meanings in other contexts.

Actuarially Determined Contribution:	A target or recommended contribution to an OPEB plan for the reporting period based on the most recent measurement available.
Assumptions or Actuarial Assumptions:	The estimates on which the cost of the Plan is calculated including: <ul style="list-style-type: none"> a) Investment return — the rate of investment yield that the Plan will earn over the long-term future; b) Mortality rates — the death rates of employees and pensioners; life expectancy is based on these rates; c) Retirement rates — the rate or probability of retirement at a given age; d) Turnover rates — the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.
Covered Payroll:	The payroll of the employees that are provided OPEB benefits
Discount Rate:	The single rate of return, that when applied to all projected benefit payments results in an actuarial present value that is the sum of the following: <ul style="list-style-type: none"> 1) the actuarial present value of projected benefit payments projected to be funded by plan assets using a long term rate of return, and 2) the actuarial present value of projected benefit payments that are not included in (1) using a yield or index rate for 20 year tax exempt general obligation municipal bonds with an average rating of AA/Aa or higher
Entry Age Actuarial Cost Method:	An actuarial cost method where the present value of the projected benefits for an individual is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age
Healthcare Cost Trend Rates:	The rate of change in per capita health costs over time
Net OPEB Liability:	The Total OPEB Liability less the Plan Fiduciary Net Position
Plan Fiduciary Net Position:	Market Value of Assets
Real Rate of Return:	The rate of return on an investment after removing inflation
Service Cost:	The amount of contributions required to fund the benefit allocated to the current year of service.
Total OPEB Liability:	Present value of all future benefit payments for current retirees and active employees taking into account assumptions about demographics, turnover, mortality, disability, retirement, health care trends, and other actuarial assumptions.
Valuation Date:	The date at which the actuarial valuation is performed

Section 3: Supporting Information

Exhibit V: Accounting Requirements

The Governmental Accounting Standards Board (GASB) issued Statement Number 74 – Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, and Statement Number 75 – Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions. Under these statements, all state and local government entities that provide other post-employment benefits are required to report the cost of these benefits on their financial statements. The accounting standards supplement cash accounting, under which the expense for postemployment benefits is equal to benefit and administrative costs paid on behalf of retirees and their dependents (i.e., a pay-as-you-go basis).

The statements cover postemployment benefits of medical, prescription drugs, dental, vision and life insurance coverage for retirees; long-term care coverage, life insurance and death benefits that are *not* offered as part of a pension plan; and long-term disability insurance for employees. The benefits valued in this report are limited to those described in Exhibit III of Section 3, which are based on those provided under the terms of the substantive plan in effect at the time of the valuation and on the pattern of sharing costs between the employers and plan members. The projection of benefits is not limited by legal or contractual limits on funding the plan unless those limits clearly translate into benefit limits on the substantive plan being valued.

The new standards prescribe an accrual-basis accounting requirement, thereby recognizing the employer cost of postemployment benefits over an employee's career. The standards also prescribe a consistent accounting requirement for both pension and non-pension benefits.

The total cost of providing postemployment benefits is projected, taking into account assumptions about demographics, turnover, mortality, disability, retirement, health care trends, and other actuarial assumptions. These assumptions are summarized in Exhibit II of Section 3. This amount is then discounted to determine the Total OPEB Liability. The Net OPEB Liability (NOL) is the difference between the Total OPEB Liability and market value of assets in the Plan, called the Plan Fiduciary Net Position.

Once the NOL is determined, the Annual OPEB Expense is determined as the change in NOL from the prior year with deferred recognition of certain elements. In addition, Required Supplementary Information (RSI) must be reported, including historical information about the Net OPEB Liability and the contributions made to the Plan. Exhibit IV of Section 3 contains a definition of terms.

The calculation of an accounting obligation does not, in and of itself, imply that there is any legal liability to provide the benefits valued, nor is there any implication that the plan is required to implement a funding policy to satisfy the projected expense.

Actuarial calculations reflect a long-term perspective, and the methods and assumptions use techniques designed to reduce short-term volatility in accrued liabilities and the actuarial value of assets, if any.

Actuarial valuations involve estimates of the value of reported amounts and assumptions about the probability of events far into the future, and the actuarially determined amounts are subject to continual revision as actual results are compared to past expectations and new estimates are made about the future.

Section 3: Supporting Information

Appendix: Sensitivity of Valuation Results as of December 31, 2022 (in thousands)

Discount Rate	3.97%	5.24%	6.50%	7.77%	9.03%
Normal Cost	\$1,206,354	\$856,386	\$619,891	\$454,386	\$338,498
Actuarial Accrued Liability	27,718,587	23,308,222	19,870,945	17,114,690	14,913,183
Market Value of Assets	2,967,694	2,967,694	2,967,694	2,967,694	2,967,694
Unfunded Actuarial Accrued Liability	24,750,893	20,340,528	16,903,251	14,146,996	11,945,489
Amortization of Unfunded Actuarial Accrued Liability	\$910,846	\$882,155	\$852,115	\$820,150	\$786,791
Timing Adjustment	3,305	3,515	3,625	3,683	3,711
Total Actuarially Determined Contribution	\$2,120,505	\$1,742,056	\$1,475,631	\$1,278,219	\$1,129,000
Total Actuarially Determined Contribution as a percentage of pay	10.69%	8.78%	7.44%	6.44%	5.69%

Actuarially determined contributions shown here are calculated using the same methodology as described in Section 2 of the valuation report, except for use of the various discount rates shown above. Covered payroll is \$19,839,303,000