



Disability Income Plan of North Carolina

Principal Results of Actuarial Valuation as of December 31, 2024

Barry J. Goldberg, ASA, MAAA, FCA
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October 2025, Board of Trustees Meeting



Gallagher

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Disability Income Plan

Principal December 31, 2024 Actuarial Valuation Results

Valuation results as of	December 31, 2024	December 31, 2023
Active Members		
Teachers' and State Employees' Retirement System (TSERS)	298,000	299,037
Optional Retirement Program (ORP)	<u>23,613</u>	<u>21,916</u>
Total	321,613	320,953
Reported Compensation		
TSERS	\$17,701,957,404	\$16,889,491,503
ORP	<u>2,537,806,772</u>	<u>2,314,621,332</u>
Total	\$20,239,764,176	\$19,204,112,835
Valuation Compensation ¹		
TSERS	\$19,189,065,108	\$18,373,589,852
ORP	<u>2,753,677,320</u>	<u>2,498,844,121</u>
Total	\$21,942,742,428	\$20,872,433,973
Number of beneficiaries receiving extended short-term or long-term disability benefits	3,257	3,820
Annual reported benefits	\$26,339,898	\$30,928,720

¹ Reported compensation adjusted to reflect the assumed rate of pay increase prior to the valuation date.

Disability Income Plan (continued)

Principal December 31, 2024 Actuarial Valuation Results

Asset and Liabilities as of	December 31, 2024	December 31, 2023
Assets		
Actuarial Value	\$ 281,012,126	\$ 288,113,114
Market Value	\$ 258,468,913	\$ 260,369,590
Liability for currently disabled members	\$ 125,316,918	\$ 143,379,157
Deficit/(Surplus)versus Actuarial Value	\$ (155,695,208)	\$ (144,733,957)
ADC Rate for Fiscal Year Ending (FYE)	June 30, 2027	June 30, 2026
Preliminary Actuarially Determined Contribution (ADC) Rate		
Normal Cost	0.06%	0.07%
Accrued Liability	<u>N/A</u>	<u>N/A</u>
Total	0.06%	0.07%
ADC Rate with Direct Rate Smoothing	0.06%	0.07%
Impact of Legislative Changes	<u>N/A</u>	<u>0.00%</u>
Final ADC Rate ¹	N/A	0.07%

¹ For FYE 2027, the final ADC Rate may be adjusted to reflect Plan changes or legislation that occurs after the date of this report.

Disability Income Plan (continued)

Employer Contribution Rate History

Valuation Date	Fiscal Year Ending	Preliminary ADC Rate	Change Due to Legislation	Final ADC Rate	Appropriated Rate
12/31/2024	6/30/2027	0.06% ¹	N/A	N/A	N/A
12/31/2023	6/30/2026	0.07%	0.00%	0.07%	0.07%
12/31/2022	6/30/2025	0.11%	0.00%	0.11%	0.13%
12/31/2021	6/30/2024	0.11%	0.00%	0.11%	0.11%
12/31/2020	6/30/2023	0.10%	0.00%	0.10%	0.10%
12/31/2019	6/30/2022	0.09%	0.00%	0.09%	0.09%

¹ This ADC Rate is a preliminary rate that will become the final ADC Rate if no legislation is enacted after the date that this report is issued that would affect the determination of the ADC Rate for the fiscal year ending in 2027.

Disability Income Plan (continued)

Reconciliation of the Actuarially Determined Contribution



Fiscal Year Ending June 30, 2026 Preliminary ADC Rate (Based on the December 31, 2023 Valuation)	0.07%
Impact of Legislative Changes	<u>0.00%</u>
Fiscal Year Ending June 30, 2026 Final ADC Rate	0.07%
Change Due to Demographic (Gain)/Loss	(0.02%)
Change Due to Changes in Assumptions	0.00%
Change Due to Investment (Gain)/Loss	0.01%
Change Due to Contribution (Greater)/Less than ADC	<u>0.00%</u>
Preliminary ADC Rate	0.06%
Impact of Direct Rate Smoothing	0.00%
Impact of Legislative Changes	<u>0.00%</u>
Fiscal Year Ending June 30, 2027 Final ADC Rate (Based on the December 31, 2024 Valuation)	0.06%

Certification

The funded status measurements included in this report are based on the assumptions and methods used to determine the Plan's obligations and asset values as of the valuation and/or measurement date. Funded status measurements for financial accounting purposes may not be appropriate for assessing the sufficiency of Plan assets to cover the estimated cost of settling the Plan's benefit obligations. Likewise, funded status measurements for financial accounting purposes may not be appropriate for assessing the need for or the amount of future actuarially determined contributions. Funded status measurements would also be different if the market value of assets was used in these calculations instead of an actuarial value of assets.

Gallagher Benefit Services, Inc. (hereinafter "Gallagher") , does not provide legal, investment, or accounting advice. Thus, the information in this report is not intended to supersede or supplant the advice and interpretations of the System, OSC, or their legal, investing, or accounting partners.

The undersigned are familiar with the near-term and/or long-term aspects of other postemployment benefit plan valuations and collectively meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained in this report. All sections of this report, including any appendices and attachments, are considered an integral part of the actuarial opinions.

This report has been prepared in accordance with Actuarial Standard of Practice No. 6, as well as all other applicable Actuarial Standards of Practice, and we are available to answer questions about it.

Barry J. Goldberg, ASA, MAAA, FCA

Christian Hershey, ASA, MAAA

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Disability Income Plan of North Carolina

Actuarial Valuation Report
Prepared as of December 31, 2024

October 2025



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October 22, 2025

Board of Trustees
Teachers' and State Employees' Retirement System of North Carolina
3200 Atlantic Avenue
Raleigh, NC 27604

Members of the Board:

This report presents the results of the actuarial valuation of the Disability Income Plan of North Carolina (referred to as "DIPNC", "Disability Income Plan", or "Plan"), prepared as of December 31, 2024. Information contained in our report for plan years prior to December 31, 2021, is based upon valuations performed by the prior actuarial firm.

The primary purpose of the valuation report is to provide the actuarially determined employer contribution rates for DIPNC during the fiscal year ending on June 30, 2027, to describe the current financial condition of DIPNC, to analyze changes in such condition, and to summarize the census data, financial information, assumptions, methods, and plan provisions used to prepare these results.

Additional Information and Disclosures

The information contained in this report is intended to be used by the Board of Trustees for the Teachers' and State Employees' Retirement System of North Carolina (System) for Plan funding purposes for the fiscal year ending on June 30, 2027, and its use for other purposes may not be appropriate. Calculations for purposes other than funding the DIPNC benefits described in this report may produce significantly different results.

This report may also be used in conjunction with other materials for the purposes of auditing the Plan. However, the use of this report for any other purposes or by any parties other than the System and its auditors may not be appropriate and may result in mistaken conclusions because of a failure to appreciate the limitations of census and financial data, understand applicable assumptions and methods, or correctly identify situations that would render the report inappropriate for a given 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 Gallagher Benefit Services, Inc. to review any statement you wish to make on the results contained in this report. Gallagher will not accept any liability for any such statement made without prior review.

The results contained in this report were prepared by qualified actuaries according to generally accepted actuarial principles and practices, and in compliance with Actuarial Standards of Practice issued by the Actuarial Standards Board. Our understanding is that the System has made no changes to the Plan's funding policy since the prior valuation. Thus, actuarially determined employer contribution (ADC) rates as of the valuation date were developed based on the contribution allocation procedure described in GASB Statement Nos. 43 and 45, as approved by the System during prior periods.



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The measurement of Plan obligations used as the basis for much of the information presented in this report was performed as of December 31, 2024 (“the valuation date”) based on the following information provided by the System for valuation purposes:

- Census data for active and disabled members as of December 31, 2024
- Current plan provisions, including changes since December 31, 2023; and,
- Pertinent financial information as of December 31, 2024.

This information is summarized throughout this report. We did not audit the supplied information, but it was reviewed for reasonableness and consistency. In certain situations, the supplied information was adjusted to account for normal differences in collection dates and/or methods. As a result, we have no reason to doubt the substantial accuracy or completeness of the information and believe that it is reliable for the purposes stated herein. The results and conclusions contained in this report depend on the integrity of this information, and if any of the supplied information or analyses change, our results and conclusions may be different, and this report may need to be revised. Likewise, this report may need to be revised to reflect any significant event that affects the Plan after the valuation date.

Valuation results as of December 31, 2024 are based on the assumptions and methods adopted by the Board on January 28, 2021, and prescribed for use in the Plan’s December 31, 2020 annual actuarial valuation, which are summarized in various sections of this report. We have evaluated the assumptions and methods prescribed by the Board and believe that they are reasonable for the purposes of preparing the measurements described above. Based on recent economic conditions, returns on bond index funds are expected to exceed 3.00% over 10- and 20-year periods. As such, the investment rate of return of 3.00% includes a provision for adverse deviation. We will continue to monitor material assumptions. In our professional judgement, the combined effect of the assumptions is expected to have no significant bias.

The actuarial cost method and the asset valuation method used for funding purposes were selected by the System during prior periods and prescribed for use beginning with the Plan’s December 31, 2020 annual actuarial valuation. We believe that these methods are appropriate for funding purposes. Actuarial methods such as the actuarial cost methods, asset valuation methods, and amortization methods used in the contribution allocation procedure are designed to recognize changes in an orderly fashion over a period of years. In certain situations, the actuarial methods used in an allocation procedure may have the effect of deferring changes in contributions or costs into later years. Likewise, the use of these methods could produce deferred gains or losses if any material underlying assumption is not met over a long period of time.

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 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 or additional cost or contribution requirements based on the plan’s funded status); 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. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, we have not performed an analysis of the potential range of such future differences. This report does not consider all possible scenarios.



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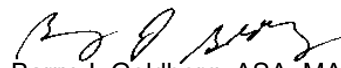
Actuarial Standard of Practice No. 56 (“ASOP 56”) provides guidance to actuaries when performing actuarial services with respect to designing, developing, selecting, modifying, using, reviewing, or evaluating models. Gallagher uses in-house and third-party software in the performance of annual actuarial valuations and projections. The models are intended to calculate the liabilities associated with the provisions of the plan using data and assumptions as of the measurement date under the accounting standards specified in this report. Further, the models apply those accounting standards to the liabilities derived and other inputs, such as plan assets and contributions, to generate the calculations found in this report. Gallagher has an extensive review process whereby the results of the liability calculations are checked using detailed sample output, changes from year to year are summarized by source, and significant deviations from expectations are investigated. Other accounting outputs are similarly reviewed in detail and at a high level for accuracy, reasonability and consistency with prior results. Gallagher also reviews the models when significant changes are made to the software. The review is performed by experts within the company who are familiar with applicable accounting rules as well as the manner in which the models generate their output.

The funded status measurements included in this report are based on the assumptions and methods used to determine the Plan’s obligations and asset values as of the valuation and/or measurement date. Funded status measurements would be different if the market value of assets was used in these calculations instead of an actuarial value of assets.

Gallagher does not provide legal, investment, or accounting advice. Thus, the information in this report is not intended to supersede or supplant the advice and interpretations of the System or its legal, investing, or accounting partners.

The undersigned are familiar with the near-term and/or long-term aspects of other postemployment benefit plan valuations and collectively meet the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinions contained in this report. All sections of this report, including any appendices and attachments, are considered an integral part of the actuarial opinions. We are available to answer questions about this report or the information provided herein.

Respectfully submitted,
Gallagher Benefit Services, Inc. (hereinafter “Gallagher”)


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Principal, Health


Christian Hershey, ASA, MAAA
Sr. Actuarial Consultant, Health

Table of Contents

Section 1: Introduction	1
Section 2: Principal Results	2
Section 3: Membership Data	6
Section 4: Assets	7
Section 5: Condition of the Plan	8
Section 6: Experience	9
Appendices	
A Detailed Tabulations of Active Member Data.....	10
B Detailed Tabulations of Disabled Member Data.....	15
C Development of the Actuarial Value of Assets.....	19
D Summary of Actuarial Assumptions and Methods.....	20
E Summary of Main Benefit Provisions.....	32

Section 1: Introduction

This report presents the results of the actuarial valuation of the Disability Income Plan of North Carolina, prepared as of December 31, 2024. The purpose of the valuation is to determine the present value of future payments to disabled members as of December 31, 2024, to determine the expected cost of new claims for 2024, and to provide the actuarially determined employer contribution (ADC) rate based on the System's funding policy, which is centered on the guidance provided in GASB Statements No. 43 and 45.

Appendix A presents detailed tabulations of the active membership of the Plan as of the valuation date.

Appendix B presents detailed tabulations of the disabled membership of the Plan as of the valuation date.

Appendix C presents the development of the Actuarial Value of Assets.

Appendix D provides the full set of actuarial assumptions and methods employed for funding purposes.

The valuation was based on provisions of the Plan as amended through December 31, 2024. A summary of the main Plan provisions used for valuation purposes appears in Appendix E.

Section 2: Principal Results

The table below provides the principal results of the valuation and a comparison with the preceding year's results.

Table 1: Summary of Principal Results

Valuation Results as of	December 31, 2024	December 31, 2023
Active Members		
Teachers' and State Employees' Retirement System (TSERS)	298,000	299,037
Optional Retirement Program (ORP)	<u>23,613</u>	<u>21,916</u>
Total	321,613	320,953
Reported Compensation		
TSERS	\$ 17,701,957,404	\$ 16,889,491,503
ORP	<u>2,537,806,772</u>	<u>2,314,621,332</u>
Total	\$ 20,239,764,176	\$ 19,204,112,835
Valuation Compensation*		
TSERS	\$ 19,189,065,108	\$ 18,373,589,852
ORP	<u>2,753,677,320</u>	<u>2,498,844,121</u>
Total	\$ 21,942,742,428	\$ 20,872,433,973
Number of beneficiaries receiving extended short term or long-term disability benefits	3,257	3,820
Annual reported benefits	\$ 26,339,898	\$ 30,928,720
Asset and Liabilities as of	December 31, 2024	December 31, 2023
Assets		
Actuarial Value	\$ 281,012,126	\$ 288,113,114
Market Value	\$ 258,468,913	\$ 260,369,590
Liability for currently disabled members	\$ 125,316,918	\$ 143,379,157
Deficit/(Surplus) versus Actuarial Value	\$ (155,695,208)	\$ (144,733,957)
ADC Rate for Fiscal Year Ending (FYE)	June 30, 2027	June 30, 2026
Preliminary Actuarially Determined Contribution (ADC) Rate		
Normal Cost	0.06%	0.07%
Accrued Liability	<u>N/A</u>	<u>N/A</u>
Total	0.06%	0.07%
ADC Rate with Direct Rate Smoothing**	0.06%	0.07%
Impact of Legislative Changes	<u>N/A</u>	<u>0.00%</u>
Final ADC Rate***	N/A	0.07%
* Reported compensation adjusted to reflect the assumed rate of pay increase prior to the valuation date.		
** Assumption and method changes first reflected in the December 31, 2020 actuarial valuation are phased into the ADC rate using 5-year direct rate smoothing. The ADC rate for FY 2023 and FY 2024 were reduced by 0.01% for direct rate smoothing. The direct rate smoothing decrease for FY 2025, FY 2026, and FY 2027 is 0.00%.		
***For FYE 2027, the final ADC Rate may be adjusted to reflect Plan changes or legislation that occurs after the date of this report.		

Section 2: Principal Results (continued)

Table 2: Reconciliation of Change in Actuarially Determined Contribution (ADC)

Fiscal Year Ending June 30, 2026 Preliminary ADC Rate (Based on the December 31, 2023 Valuation)	0.07%
Impact of Legislative Changes	<u>0.00%</u>
Fiscal Year Ending June 30, 2026 Final ADC Rate	0.07%
Change Due to Demographic (Gain)/Loss	(0.02%)
Change Due to Changes in Assumptions	0.00%
Change Due to Investment (Gain)/Loss	0.01%
Change Due to Contribution (Greater)/Less than ADC	<u>0.00%</u>
Preliminary ADC Rate	0.06%
Impact of Direct Rate Smoothing	0.00%
Impact of Legislative Changes	<u>0.00%</u>
Fiscal Year Ending June 30, 2027 Final ADC Rate (Based on the December 31, 2024 Valuation)	0.06%

Section 2: Principal Results (continued)

Table 3: History of Actuarially Determined contribution (ADC) Rates and Appropriated Rates

Valuation Date	Fiscal Year Ending	Preliminary ADC Rate	Change Due to Legislation	Final ADC Rate	Appropriated Rate
12/31/2024	6/30/2027	0.06%*	N/A	N/A	N/A
12/31/2023	6/30/2026	0.07%	0.00%	0.07%	0.07%
12/31/2022	6/30/2025	0.11%	0.00%	0.11%	0.13%**
12/31/2021	6/30/2024	0.11%	0.00%	0.11%	0.11%
12/31/2020	6/30/2023	0.10%	0.00%	0.10%	0.10%
12/31/2019	6/30/2022	0.09%	0.00%	0.09%	0.09%

* This ADC Rate is a preliminary rate that will become the final ADC Rate if no legislation is enacted after the date that this report is issued that would affect the determination of the ADC Rate for the fiscal year ending in 2027.

** This Fiscal Year Ending 6/30/2025 Appropriated Rate was 0.13% as specified in S.L. 2024-55.

Section 2: Principal Results (continued)

The table below provides the schedule of funding progress, which presents multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

The aggregate cost method used for Plan funding purposes does not identify or separately amortize unfunded liabilities. Thus, information about the Plan's funded status and funding progress have been prepared using the entry age normal (level percentage of pay) actuarial cost method as an approximation.

Table 4: Schedule of Funding Progress

Actuarial Valuation Date	Actuarial Value of Assets (a)	Entry Age Actuarial Liability (AAL) (b)	Unfunded AAL (UAAL) (b) – (a)	Funded Ratio (a) / (b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll [(b) – (a)] / (c)
12/31/13	442,422,332	522,940,655	80,518,323	84.6%	14,294,017,494	0.56%
12/31/14	450,598,573	503,060,332	52,461,759	89.6%	14,459,666,607	0.36%
12/31/15	439,955,539	395,950,392	(44,005,147)	111.1%	14,718,736,311	(0.30%)
12/31/16	442,086,171	392,674,478	(49,411,693)	112.6%	15,178,136,876	(0.33%)
12/31/17	424,219,638	383,166,480	(41,053,158)	110.7%	15,763,887,688	(0.26%)
12/31/18	389,599,221	345,399,709	(44,199,512)	112.8%	16,329,558,053	(0.27%)
12/31/19	361,335,426	326,431,066	(34,904,360)	110.7%	16,933,847,753	(0.21%)
12/31/20	340,568,712	323,115,513	(17,453,199)	105.4%	17,481,355,002	(0.10%)
12/31/21	321,657,532	320,183,088	(1,474,444)	100.5%	17,343,086,942	(0.01%)
12/31/22	300,151,811	294,445,719	(5,706,092)	101.9%	18,314,307,283	(0.03%)
12/31/23	288,113,114	223,036,899	(65,076,215)	129.2%	19,204,112,835	(0.34%)
12/31/24	281,012,126	203,945,694	(77,066,432)	137.8%	20,239,764,176	(0.38%)

Please note that the funded status measures shown above do not indicate whether or not the Plan would have sufficient assets if it were terminated, nor do they indicate what level of future contributions would be required.

Section 3: Membership Data

Data for 298,000 active members of the Teachers' and State Employees' Retirement System with reported compensation of \$17,701,957,404 and 23,613 members of the Optional Retirement Program with reported compensation of \$2,537,806,772 were furnished by the Retirement Systems Division as of December 31, 2024. The number and reported compensation of active members distributed by age and service as of December 31, 2024, are shown in Appendix A.

The contributory membership service requirement for short-term disability benefits under the Plan is one year and the contributory membership service requirement for long-term disability benefits under the Plan is five years. Additionally, the contributory membership service requirement must have occurred during certain time periods, as specified in G.S. 135-105(a) and G.S. 135-106(a).

The Retirement Systems Division also supplied data for 3,257 disabled employees in receipt of annual extended short-term and long-term disability benefits totaling \$26,339,898 as of the valuation date. Of this number, 37 disabled employees are grandfathered under all provisions of the prior Disability Salary Continuation Plan and 3,220 are receiving extended short-term and long-term disability benefits under the provisions of this Plan. Appendix B presents a comparison of the number and annual amount of benefits payable as of the current and previous valuation dates.

Section 4: Assets

Asset information taken into account in this valuation is based principally on information reported by the Retirement Systems Division. The tables below provide the details of the Market Value of Assets for the current and prior years' valuations.

Table 5: Market Value of Assets

Asset Data as of	12/31/2024	12/31/2023
Beginning of Year Market Value of Assets	\$ 260,369,590	\$ 261,531,147
Employer Contributions	25,592,648	20,021,173
Benefit Payments	(29,175,467)	(32,623,491)
Administrative Expenses	(1,177,681)	(1,037,387)
Investment Income	<u>2,859,823</u>	<u>12,478,148</u>
Net Increase/(Decrease)	(1,900,677)	(1,161,557)
End of Year Market Value of Assets	\$ 258,468,913	\$ 260,369,590
Estimated Net Investment Return on Market Value	1.11%	4.90%

The Actuarial Value of Assets for the Plan is \$281,012,126 as of the valuation date based on the "five-year smoothed value" asset valuation method selected by the System. Under this method, investment gains and losses are recognized in equal portions over a five-year period. The development of the Actuarial Value of Assets as of the valuation date is provided in Appendix C.

The following table shows an allocation of investments by category as of December 31, 2024.

Table 6: Allocation of Investments by Category as of December 31, 2024

Cash and Receivables	10.2%
Fixed income (LTIF)	89.8%
Public Equity	0.0%
Other*	<u>0.0%</u>
Total	100.0%

* Real Estate, Alternatives, Inflation, and Credit.

Section 5: Condition of the Plan

The following table shows the assets and liabilities of the Plan as of the current valuation date of December 31, 2024. The items shown in the table, other than the actuarial value of assets, are present values actuarially determined as of the valuation date.

Table 7: Statement of Condition of the Plan as of December 31, 2024

Present value of prospective benefits payable to all disabled members as of the valuation date for:	
Extended STD and LTD approved claims	\$ 92,256,081
LTD incurred but not reported claims	33,060,837
STD incurred but not reported claims	<u>0</u>
Total claim liability	\$ 125,316,918
Actuarial Valuation of Assets at end of year	\$ 281,012,126
Deficit/(Surplus) as of December 31, 2024	\$ (155,695,208)
Prospective present value of benefits for current active members	\$ 264,772,020
Present value of benefits not covered by Actuarial Value of Assets	\$ 109,076,812
Present value of future compensation for active members	\$ 203,990,202,674
Level contribution as a percentage of compensation to fund present value of benefits not covered by Actuarial Value of Assets	0.05%
Estimated administrative expenses	<u>0.01%</u>
Preliminary actuarially determined contribution rate as of December 31, 2024	0.06%
Actuarially determined contribution rate as of December 31, 2024 with Direct Rate Smoothing	0.06%

Claim liabilities are equal to the present value of future claim payments that the Plan is obligated to make to members who are disabled as of the valuation date. The claim liabilities are separated into two classifications, which reflect the status of each claim as of the valuation date.

- (a) Approved claim liabilities are for extended short-term and long-term disabilities which have occurred, have been approved, and are in payment status as of the valuation date.
- (b) LTD incurred but not reported liabilities are for disabilities which have occurred but are not in payment status as of the valuation date. These liabilities are estimated based on the one-year term cost for expected disablements during the year following the valuation date and a reserve of 14/12 of the term cost is added to account for the time after disability to receive LTD benefits.

The method of determining claim liabilities and the assumptions used are described in Appendix D.

Section 6: Experience

Section 5 shows that the surplus under the Plan has increased by \$10,961,251 from \$144,733,957 to \$155,695,208 since the previous valuation date.

The following table shows a detailed reconciliation of the change in the Plan's Deficit / (Surplus)—the difference between the Total Claim Liability and the Actuarial Value of Assets— since the prior valuation.

Table 8: Reconciliation of Change in Deficit/(Surplus) Since the Prior Valuation

Prior Year Deficit/(Surplus)	\$ (144,733,957)
Actual Contributions During the Period	(25,592,648)
Receivable Contributions	0
Interest Adjustment	(4,723,072)
IBNR Experience	(7,087,014)
Demographic Experience ¹	(13,806,235)
Asset Loss/(Gain) ²	10,913,002
Assumption Changes	0
Term Cost for One Year	<u>29,334,716</u>
Current Year Deficit/(Surplus)	\$ (155,695,208)

¹ Demographic experience includes gross benefit increasing less than expected (\$8.0M), Social Security offsets increasing more than expected (\$0.8M), benefit payments higher than expected \$1.8M, mortality and recovery different than expected (\$3.7M), and other sources (\$3.1M).

² The Plan's Actuarial Value of Assets is the basis for the asset (gain)/loss reported above.

Appendix A: Detailed Tabulation of Active Member Data

Table A-1: Number and Average Reported Compensation of Active Members Distributed by Age and Service as of December 31, 2024

Age	Creditable Service										Total	
	Under 1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 & over		
Under 25	5,459	6,431	57	-	-	-	-	-	-	-	-	11,947
	\$ 19,677	\$ 44,904	\$ 46,074									\$ 33,382
25 - 29	5,135	17,087	4,315	13	-	-	-	-	-	-	-	26,550
	\$ 22,722	\$ 49,613	\$ 55,243	\$ 58,005								\$ 45,331
30 - 34	4,056	12,300	11,938	3,568	7	-	-	-	-	-	-	31,869
	\$ 24,360	\$ 55,067	\$ 59,539	\$ 63,373	\$ 53,838							\$ 53,764
35 - 39	3,470	10,876	9,986	10,110	3,015	17	-	-	-	-	-	37,474
	\$ 25,225	\$ 59,544	\$ 67,282	\$ 68,177	\$ 71,192	\$ 62,628						\$ 61,696
40 - 44	2,923	9,451	9,153	7,290	9,789	3,569	60	-	-	-	-	42,235
	\$ 25,512	\$ 56,747	\$ 70,947	\$ 74,767	\$ 74,044	\$ 74,988	\$ 71,131					\$ 66,344
45 - 49	2,284	7,940	7,899	6,625	7,463	8,939	3,206	7	-	-	-	44,363
	\$ 26,686	\$ 56,575	\$ 66,915	\$ 76,437	\$ 79,076	\$ 77,803	\$ 79,775	\$ 60,344				\$ 69,583
50 - 54	2,110	7,295	7,690	6,465	7,612	7,124	7,710	875	6	-	-	46,887
	\$ 26,402	\$ 56,353	\$ 63,393	\$ 71,744	\$ 76,115	\$ 77,999	\$ 81,438	\$ 86,217	\$ 102,809			\$ 69,467
55 - 59	1,661	6,144	6,271	5,651	7,047	6,319	4,782	1,682	253	1	-	39,811
	\$ 25,724	\$ 56,227	\$ 62,300	\$ 66,664	\$ 71,284	\$ 76,153	\$ 79,771	\$ 91,209	\$ 84,850	\$ 71,816		\$ 67,709
60 - 64	940	4,016	4,776	3,968	4,752	4,275	2,566	1,060	519	91	-	26,963
	\$ 26,875	\$ 53,358	\$ 60,370	\$ 66,065	\$ 68,640	\$ 72,489	\$ 81,719	\$ 98,620	\$ 88,238	\$ 90,084		\$ 66,547
65 - 69	395	1,391	1,725	1,465	1,558	1,186	843	517	291	157	-	9,528
	\$ 22,910	\$ 52,099	\$ 65,795	\$ 66,338	\$ 73,384	\$ 77,221	\$ 87,934	\$ 111,970	\$ 120,826	\$ 94,893		\$ 71,389
70 & over	187	705	604	588	575	401	272	217	186	251	-	3,986
	\$ 20,571	\$ 45,680	\$ 56,824	\$ 69,932	\$ 71,895	\$ 74,450	\$ 84,950	\$ 117,415	\$ 149,589	\$ 146,589		\$ 74,232
Total	28,620	83,636	64,414	45,743	41,818	31,830	19,439	4,358	1,255	500	-	321,613
	\$ 23,849	\$ 54,073	\$ 63,898	\$ 70,144	\$ 73,977	\$ 76,418	\$ 81,090	\$ 95,727	\$ 104,273	\$ 119,923		\$ 62,932

Appendix A: Detailed Tabulation of Active Member Data (continued)

Table A–2: Number and Reported Compensation of Active Members Distributed by Age and Gender as of December 31, 2024

Age	Male		Female	
	Number	Compensation	Number	Compensation
Under 19	34	\$ 401,367	30	\$ 277,875
19	130	2,486,560	112	1,639,174
20	196	5,319,731	227	4,493,972
21	303	8,292,372	507	11,691,252
22	580	17,235,755	1,576	40,284,675
23	900	31,614,500	2,681	92,807,516
24	1,275	50,888,677	3,396	131,388,731
25	1,431	61,473,089	3,727	153,961,515
26	1,563	70,737,605	3,732	160,490,089
27	1,575	73,653,278	3,707	165,438,318
28	1,596	79,655,920	3,748	171,863,448
29	1,679	86,252,723	3,792	180,018,571
30	1,798	96,298,894	3,835	187,811,100
31	1,871	104,538,138	4,077	203,313,229
32	1,902	109,641,838	4,412	227,714,883
33	2,080	126,122,049	4,705	246,944,584
34	2,191	136,437,976	4,998	274,572,499
35	2,198	138,336,410	5,084	288,075,174
36	2,199	148,409,271	5,155	296,486,061
37	2,282	157,146,669	5,165	302,776,651
38	2,281	164,521,534	5,231	310,905,553
39	2,365	173,151,751	5,514	332,180,739
40	2,389	172,244,389	5,640	344,899,577
41	2,462	185,454,760	5,675	352,670,294
42	2,614	195,417,479	6,020	377,612,919
43	2,508	191,083,812	6,118	385,077,987
44	2,668	202,839,018	6,141	394,729,194
45	2,604	206,414,023	6,260	405,170,796
46	2,605	205,406,981	6,128	398,648,109
47	2,646	206,047,175	6,492	426,906,048
48	2,591	211,221,097	6,239	409,003,186
49	2,581	209,674,025	6,217	408,426,463
50	2,761	216,985,904	6,479	425,833,865
51	2,724	216,950,313	6,380	416,707,259
52	2,837	223,113,197	6,371	412,613,371
53	2,882	231,777,836	6,719	433,376,890
54	2,971	239,062,125	6,763	440,693,413
55	2,675	213,033,518	6,251	399,471,114
56	2,557	206,650,569	5,751	364,812,287
57	2,388	192,259,055	5,497	339,936,725

Appendix A: Detailed Tabulation of Active Member Data (continued)

Table A–2: Number and Reported Compensation of Active Members Distributed by Age and Gender as of December 31, 2024 (continued)

Age	Male		Female	
	Number	Compensation	Number	Compensation
58	2,312	\$ 179,880,937	5,128	\$ 314,586,320
59	2,374	185,900,350	4,878	299,028,897
60	2,206	170,248,863	4,621	282,572,298
61	2,054	160,636,330	4,138	247,033,171
62	1,842	140,521,537	3,592	217,657,046
63	1,510	112,692,912	3,058	185,527,423
64	1,406	114,596,819	2,536	162,822,322
65	1,037	87,763,360	1,845	116,455,295
66	890	77,019,196	1,395	87,564,821
67	710	61,940,177	1,056	66,632,368
68	592	49,623,327	840	52,269,619
69	491	38,427,519	672	42,496,829
70	415	37,782,807	470	28,379,349
71	320	27,708,790	386	22,842,173
72	255	21,242,096	262	14,645,528
73	232	23,471,061	213	12,703,231
74	169	14,377,656	185	11,739,914
75	154	14,115,588	126	6,850,492
76	132	10,572,750	97	5,362,282
77	83	7,583,228	76	4,201,865
78	70	5,348,899	52	3,207,383
79	53	5,724,976	28	1,380,850
80	34	3,345,304	23	1,310,973
81	28	2,536,863	23	1,143,784
82	26	2,275,305	15	630,988
83	15	1,765,513	7	313,133
84	6	646,806	6	282,594
85	4	471,048	7	521,148
86	4	629,388	-	-
87	2	62,346	1	73,731
88	1	118,778	1	37,887
89	-	-	-	-
90	1	241,791	1	81,962
91	-	-	1	33,535
92	-	-	1	34,563
93	-	-	-	-
94	1	91,602	-	-
95	-	-	-	-
Over 95	-	-	-	-
Total	99,321	\$ 7,127,615,302	222,292	\$ 13,112,148,874

Appendix A: Detailed Tabulation of Active Member Data (continued)

Table A–3: Number and Reported Compensation of Active Members Distributed by Service and Gender as of December 31, 2024

Service	Male		Female	
	Number	Compensation	Number	Compensation
0	9,235	\$ 247,452,788	19,385	\$ 435,096,813
1	8,520	486,734,819	19,041	913,803,324
2	7,188	444,075,129	17,383	878,046,930
3	5,297	330,630,461	13,526	706,620,614
4	3,848	261,264,864	8,833	501,300,076
5	4,555	320,779,054	10,255	582,241,863
6	4,299	308,902,093	9,467	552,641,968
7	3,885	284,049,220	8,615	519,362,797
8	3,930	292,515,491	8,313	506,536,868
9	3,623	274,391,152	7,472	474,488,002
10	3,291	248,300,158	7,211	456,122,256
11	3,180	248,612,980	6,713	443,138,257
12	3,104	241,925,189	6,750	440,843,817
13	2,411	198,001,124	5,208	356,289,880
14	2,629	212,797,631	5,246	362,550,570
15	1,721	142,744,057	4,171	291,268,694
16	2,729	231,420,758	5,966	414,233,807
17	2,886	240,247,748	6,572	454,646,690
18	2,746	231,613,699	6,578	461,775,254
19	2,501	209,923,732	5,948	415,681,455
20	2,284	194,168,989	5,571	391,365,292
21	2,010	174,764,078	4,684	334,969,149
22	1,662	147,393,587	3,952	288,550,747
23	1,754	156,634,721	4,121	296,624,449
24	1,695	151,299,431	4,097	296,611,188
25	1,621	152,729,755	3,746	277,411,366
26	1,410	132,053,466	3,190	238,926,198
27	1,269	117,615,499	2,712	207,121,484
28	948	89,785,498	2,309	177,480,586
29	685	64,782,561	1,549	118,399,784
30	522	55,695,954	947	77,076,920
31	396	45,143,202	685	56,428,348
32	323	38,202,800	527	46,949,195
33	208	25,053,820	282	23,879,998
34	198	23,441,509	270	25,307,845

Appendix A: Detailed Tabulation of Active Member Data (continued)

Table A-3: Number and Reported Compensation of Active Members Distributed by Service and Gender as of December 31, 2024 (continued)

Service	Male		Female	
	Number	Compensation	Number	Compensation
35	173	\$ 21,169,641	232	\$ 19,278,346
36	111	16,601,082	182	15,403,011
37	100	11,451,907	139	12,933,617
38	76	9,577,144	87	8,364,424
39	65	8,007,790	90	8,076,187
40	46	5,748,536	61	5,652,184
41	43	6,916,454	46	3,868,660
42	35	5,872,524	29	3,718,101
43	18	3,012,165	24	2,334,115
44	23	3,418,913	10	708,384
45	11	1,314,876	19	1,419,485
46	14	2,257,365	21	1,821,293
47	14	2,544,602	17	1,199,605
48	6	1,218,845	9	875,794
49	7	1,244,934	8	947,840
50	6	856,085	4	287,545
51	1	99,880	4	312,490
52	2	218,355	1	62,663
53	1	91,488	3	300,196
54	1	134,274	7	547,827
55	2	201,804	2	95,287
56	2	341,861	1	67,374
57	1	167,757	-	-
58	-	-	-	-
59	-	-	-	-
Over 59	-	-	1	81,962
Total	99,321	\$ 7,127,615,302	222,292	\$ 13,112,148,874

Appendix B: Detailed Tabulation of Disabled Member Data

Table B–1: Number and Annual Amount of Disability Benefits Reported for Each Disability Group

Disability Group	As of December 31, 2024		As of December 31, 2023	
	Number	Annual Reported Benefits	Number	Annual Reported Benefits
Disabled Prior to January 1, 1988	37	\$ 79,908	41	\$ 83,551
Disabled after December 31, 1987	<u>3,220</u>	<u>\$ 26,259,990</u>	<u>3,779</u>	<u>\$ 30,485,169</u>
Total	3,257	\$ 26,339,898	3,820	\$ 30,928,720

Appendix B: Detailed Tabulation of Disabled Member Data (continued)

Table B–2: Number and Annual Long-Term Disability Benefits of Members Disabled Prior to January 1, 1988, by Age and Gender as of December 31, 2024

Age	Male		Female	
	Number	Allowances	Number	Allowances
Under 64	0	\$ 0	0	\$ 0
64	0	0	1	4,973
65	0	0	0	0
66	0	0	0	0
67	0	0	0	0
68	0	0	2	7,254
69	0	0	4	7,899
70	1	471	1	2,172
71	0	0	1	4,770
72	2	3,393	3	7,031
73	0	0	0	0
74	1	2,073	1	176
75	0	0	1	472
76	0	0	2	6,240
77	0	0	3	12,108
78	1	2,047	2	4,057
79	0	0	0	0
80	0	0	1	722
81	1	2,203	0	0
82	0	0	1	353
83	0	0	1	120
84	1	723	1	1,166
85	0	0	0	0
86	0	0	1	2,298
87	0	0	1	1,764
88	0	0	0	0
89	0	0	1	1,059
90	0	0	0	0
91	0	0	0	0
92	0	0	0	0
93	0	0	0	0
94	0	0	0	0
95	0	0	1	2,077
Over 95	0	0	1	2,286
Total	7	\$ 10,911	30	\$ 68,997

Appendix B: Detailed Tabulation of Disabled Member Data (continued)

Table B–3: Number and Annual Disability Benefits of Members Disabled After December 31, 1987, by Age and Gender as of December 31, 2024

Age	Male		Female	
	Number	Allowances	Number	Allowances
Under 29	0	\$ 0	2	\$ 44,998
29	0	0	0	0
30	0	0	1	31,050
31	0	0	2	63,617
32	0	0	3	78,405
33	1	36,000	1	30,734
34	3	38,152	2	29,975
35	1	28,943	2	41,694
36	3	60,512	6	119,553
37	1	6,931	6	46,190
38	4	78,538	6	126,660
39	1	33,722	3	72,118
40	5	29,888	12	212,245
41	3	29,810	12	106,675
42	6	50,965	15	198,441
43	7	80,577	13	60,405
44	8	57,534	25	268,089
45	9	163,687	30	358,800
46	14	215,705	44	540,487
47	15	172,650	48	485,163
48	18	147,098	61	718,222
49	24	189,748	65	808,592
50	31	170,547	64	756,507
51	31	142,747	81	775,489
52	32	275,220	96	794,131
53	32	196,690	117	1,110,606
54	39	240,450	123	1,450,751
55	40	445,212	114	1,175,752
56	48	453,575	147	1,358,225
57	64	333,409	142	1,246,857
58	67	548,492	176	1,245,946
59	62	303,169	190	1,186,225
60	52	356,775	135	865,897
61	63	384,654	131	956,842

Appendix B: Detailed Tabulation of Disabled Member Data (continued)

Table B-3: Number and Annual Disability Benefits of Members Disabled After December 31, 1987, by Age and Gender as of December 31, 2024 (continued)

Age	Male		Female	
	Number	Allowances	Number	Allowances
62	57	\$ 310,866	139	\$ 834,698
63	68	283,371	155	695,289
64	57	316,577	143	796,825
65	3	52,374	3	84,460
66	1	3,078	1	12,640
67	0	0	2	7,142
68	1	1,172	1	3,325
69	3	9,096	1	9,402
70	1	34,989	1	36,000
71	2	13,163	1	12,852
72	0	0	1	13,000
73	1	4,633	2	29,927
74	1	4,238	1	5,074
75	0	0	2	1,527
76	0	0	1	120
77	0	0	3	14,146
78	0	0	0	0
79	1	120	1	15,495
80	0	0	1	5,713
81	0	0	0	0
82	0	0	1	5,383
83	0	0	0	0
84	0	0	0	0
85	0	0	0	0
86	2	5,652	0	0
87	0	0	1	660
88	0	0	0	0
89	0	0	0	0
90	0	0	1	120
91	0	0	0	0
92	0	0	0	0
93	0	0	0	0
94	0	0	0	0
95	0	0	0	0
Over 95	0	0	1	120
Total	882	\$ 6,310,729	2,338	\$ 19,949,261

Appendix C: Development of the Actuarial Value of Assets

The Actuarial Value of Assets is determined using a method that attempts to “flatten” the peaks and valleys inherent in market values of assets. Under the “five-year smoothed value” asset valuation method selected by the System, investment gains and losses are recognized in equal portions over a five-year period. The calculation of the Actuarial Value of Assets is based on a formula that is mathematically equivalent to the process described above:

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

where,

MV is the market value of assets as of the valuation date; and,

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

However, the resulting Actuarial Value of Assets cannot be less than 80% or more than 120% of the market value of assets as of the measurement date. The development of the Actuarial Value of Assets as of December 31, 2024 is shown in the table below:

Development of the Actuarial Value of Assets for the Year Ending	December 31, 2024
Market Value of Assets, Beginning of Year	\$ 260,369,590
Employer Contributions	\$ 25,592,648
Employer Contributions Receivable	0
Benefit Payments and Administrative Expenses	<u>(30,353,148)</u>
Net Cash Flow	\$ (4,760,500)
Expected Investment Return	\$ 7,740,208
Expected Market Value of Assets, End of Year	\$ 263,349,298
Market Value of Assets, End of Year	\$ 258,468,913
Excess Market Value over Expected Market Value of Assets	\$ (4,880,385)
80% of 2024 Asset Gain/(Loss)	\$ (3,904,308)
60% of 2023 Asset Gain/(Loss)	2,901,179
40% of 2022 Asset Gain/(Loss)	(18,378,863)
20% of 2021 Asset Gain/(Loss)	<u>(3,161,221)</u>
Total Deferred Asset Gain/(Loss)	\$ (22,543,213)
Preliminary Actuarial Value of Assets, End of Year (not less than 80% and not greater than 120% of Market Value)	\$ 281,012,126
Final End of Year Actuarial Value of Assets	\$ 281,012,126
Estimated Net Investment Return on Actuarial Value	(0.82%)

Appendix D: Actuarial Assumptions and Methods

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.

Economic Assumptions

Discount Rate

3.00% per year, compounded annually.

Expected Rate of Return on Assets

3.00% per year, net of investment expenses.

Expected Long-term Rates of Inflation

Both general and wage inflation are assumed to be 2.50% per year.

Expected Long-term Real Wage Growth

0.75% per year.

Expected Across-the-Board Salary Increases

For disability events that first occur on or after January 1, 1988, extended STD and LTD benefits (before reductions) are assumed to increase 3.25% per year. Otherwise, no increases have been assumed.

Expected Long-term National Average Wage Growth

3.25% per year for the purposes of calculating Social Security benefits.

Expected Future Increases in Social Security Benefits

For disability events that first occur on or after January 1, 1988, Social Security disability benefits are assumed to increase by 2.50% per year. Otherwise, no increases have been assumed.

Expected Administrative Expenses Included in Normal Cost

Estimated administrative expenses equal to 0.01% of payroll were included in the normal cost rate.

Appendix D: Actuarial Assumptions and Methods (continued)

Demographic Assumptions

Separations From Active Service

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

Rates of Withdrawal

Up to five years of membership								
Service	General Employees		Teachers, Librarians, and Counselors		Law Enforcement Officers		Other Education	
	Male	Female	Male	Female	Male	Female	Male	Female
0	0.0900	0.0900	0.0500	0.0350	0.0350	0.0350	0.0900	0.0700
1	0.1700	0.1750	0.1750	0.1650	0.0925	0.0925	0.1900	0.1750
2	0.1500	0.1575	0.1550	0.1550	0.0925	0.0925	0.1700	0.1550
3	0.1250	0.1400	0.1450	0.1375	0.0950	0.0950	0.1300	0.1250
4	0.1100	0.1150	0.1150	0.1150	0.0800	0.0800	0.1100	0.1075

After five years of Membership								
Service	General Employees		Teachers, Librarians, and Counselors		Law Enforcement Officers		Other Education	
	Male	Female	Male	Female	Male	Female	Male	Female
25	0.2500	0.2500	0.3000	0.3500	0.0750	0.0750	0.2500	0.2500
30	0.1250	0.1200	0.0900	0.1000	0.0750	0.0750	0.1000	0.1500
35	0.0750	0.1000	0.0600	0.0575	0.0350	0.0350	0.0550	0.0750
40	0.0500	0.0575	0.0475	0.0400	0.0250	0.0250	0.0500	0.0650
45	0.0400	0.0400	0.0375	0.0350	0.0200	0.0200	0.0500	0.0475
50	0.0400	0.0400	0.0425	0.0400	0.0200	0.0200	0.0500	0.0450
55	0.0400	0.0400	0.0425	0.0400			0.0400	0.0350
60	0.0400	0.0400	0.0425	0.0400			0.0400	0.0350

Appendix D: Actuarial Assumptions and Methods (continued)

Pre-Retirement Mortality

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

Annual Rates of Mortality for Employees (Base rates using Pub-2010 Amount Weighted)								
Service	General Employees		Teachers, Librarians, and Counselors		Law Enforcement Officers		Other Education	
	Male	Female	Male	Female	Male	Female	Male	Female
25	0.00028	0.00009	0.00016	0.00009	0.00037	0.00020	0.00028	0.00009
30	0.00036	0.00015	0.00022	0.00014	0.00041	0.00027	0.00036	0.00015
35	0.00047	0.00023	0.00030	0.00020	0.00047	0.00036	0.00047	0.00023
40	0.00066	0.00036	0.00042	0.00031	0.00059	0.00049	0.00066	0.00036
45	0.00098	0.00056	0.00067	0.00048	0.00082	0.00067	0.00098	0.00056
50	0.00149	0.00083	0.00111	0.00073	0.00120	0.00091	0.00149	0.00083
55	0.00219	0.00123	0.00172	0.00107	0.00175	0.00123	0.00219	0.00123
60	0.00319	0.00186	0.00264	0.00161	0.00264	0.00168	0.00319	0.00186
65	0.00468	0.00296	0.00435	0.00270	0.00410	0.00228	0.00468	0.00296
70	0.00703	0.00489	0.00709	0.00485	0.00766	0.00454	0.00703	0.00489
74	0.01001	0.00731	0.00993	0.00809	0.01263	0.00787	0.01001	0.00731

Retirements

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

Annual Rates of Retirement

General Employees - Males							
Age	Service						
	5	10	15	20	25	30	35
50				0.030	0.040	0.600	0.600
55				0.030	0.040	0.400	0.350
60	0.090	0.070	0.070	0.100	0.225	0.400	0.270
65	0.180	0.250	0.250	0.300	0.400	0.275	0.300
70	0.180	0.250	0.225	0.225	0.250	0.300	0.300
75	1.000	1.000	1.000	1.000	1.000	1.000	1.000

General Employees - Females							
Age	Service						
	5	10	15	20	25	30	35
50				0.035	0.040	0.400	0.400
55				0.040	0.040	0.400	0.250
60	0.070	0.080	0.090	0.095	0.200	0.400	0.250
65	0.200	0.250	0.300	0.300	0.350	0.350	0.300
70	0.150	0.200	0.225	0.250	0.350	0.300	0.300
75	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Appendix D: Actuarial Assumptions and Methods (continued)

Annual Rates of Retirement (continued)

Teachers, Librarians, and Counselors - Males							
Age	Service						
	5	10	15	20	25	30	35
50				0.030	0.030	0.700	0.700
55				0.045	0.030	0.400	0.450
60	0.085	0.080	0.100	0.100	0.300	0.400	0.300
65	0.175	0.225	0.250	0.325	0.400	0.300	0.250
70	0.175	0.225	0.250	0.250	0.250	0.150	0.300
75	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Teachers, Librarians, and Counselors - Females							
Age	Service						
	5	10	15	20	25	30	35
50				0.050	0.045	0.650	0.750
55				0.050	0.045	0.400	0.375
60	0.080	0.100	0.100	0.130	0.250	0.500	0.375
65	0.250	0.300	0.250	0.350	0.475	0.450	0.400
70	0.225	0.250	0.300	0.300	0.300	0.400	0.325
75	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Law Enforcement Officers							
Age	Service						
	5	10	15	20	25	30	35
50			0.040	0.050	0.050	0.900	0.800
55	0.200	0.200	0.350	0.350	0.500	0.950	0.650
60	0.100	0.200	0.125	0.250	0.250	0.500	0.500
65	0.150	0.450	0.250	0.250	0.250	0.500	0.500
70	0.250	0.150	0.250	0.250	0.250	0.250	0.500
75	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Other Education Employees - Males							
Age	Service						
	5	10	15	20	25	30	35
50				0.035	0.045	0.500	0.500
55				0.040	0.050	0.300	0.300
60	0.080	0.070	0.100	0.090	0.200	0.300	0.275
65	0.100	0.250	0.250	0.300	0.275	0.250	0.275
70	0.100	0.250	0.250	0.225	0.300	0.250	0.350
75	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Appendix D: Actuarial Assumptions and Methods (continued)

Annual Rates of Retirement (continued)

Other Education Employees - Females							
Age	Service						
	5	10	15	20	25	30	35
50				0.045	0.045	0.400	0.500
55				0.045	0.060	0.300	0.300
60	0.070	0.090	0.100	0.100	0.300	0.375	0.300
65	0.175	0.250	0.250	0.300	0.350	0.300	0.350
70	0.150	0.200	0.225	0.200	0.275	0.200	0.350
75	1.000	1.000	1.000	1.000	1.000	1.000	1.000

Salary Merit Increases

Total assumed salary increases are these merit rates combined with the wage inflation assumption of 3.25% (2.50% price inflation plus 0.75% real wage growth). Representative values of the assumed annual rates of salary merit increases are as follows:

Service	General Employees	Teachers, Librarians and Counselors	Law Enforcement Officers	Other Education
0	3.00%	4.05%	4.80%	4.25%
5	1.80%	2.87%	3.10%	2.65%
10	1.10%	2.04%	2.00%	1.85%
15	0.60%	1.13%	0.80%	1.33%
20	0.50%	0.00%	0.80%	0.83%
25	0.40%	0.00%	0.80%	0.33%
30	0.00%	0.00%	0.40%	0.00%
>=35	0.00%	0.00%	0.00%	0.00%

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:

Annual Rates of Post-Retirement Mortality (Healthy Members at Retirement)								
Service	General Employees		Teachers, Librarians, and Counselors		Law Enforcement Officers		Other Education	
	Male	Female	Male	Female	Male	Female	Male	Female
55	0.00455	0.00272	0.00335	0.00266	0.00327	0.00279	0.00455	0.00272
60	0.00649	0.00365	0.00471	0.00344	0.00549	0.00482	0.00649	0.00365
65	0.00963	0.00582	0.00672	0.00456	0.00957	0.00832	0.00963	0.00582
70	0.01610	0.01010	0.01183	0.00789	0.01711	0.01438	0.01610	0.01010
75	0.02818	0.01789	0.02187	0.01499	0.03085	0.02483	0.02818	0.01789
80	0.05037	0.03360	0.04030	0.02895	0.05571	0.04287	0.05037	0.03360

Appendix D: Actuarial Assumptions and Methods (continued)

Annual Rates of Post-Retirement Mortality						
Age	Contingent Survivors of Deceased Members		Members Disabled at Retirement			
	All Survivors		Non-Law Enforcement Officers		Law Enforcement Officers	
	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 and Other Education)

Mortality rates are based on the General Mortality Table for Retirees. Rates for male members are multiplied by 105.5% at all ages. Rates for female members are multiplied by 95% for ages under 76, increased by 1% for each age up to age 90 and by 110% for all ages greater than 89. 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 (Teachers)

Mortality rates are based on the Below-median Teachers Mortality Table for Retirees. Rates for male members are multiplied by 96% for ages under 83, increased by 2% for each age up to 87 and by 106% for all ages greater than 86. Rates for female members are multiplied by 101% for age 81, increased by 1% for each age up to 85, and by 105% for all ages greater than 84. Because the retiree tables have no rates prior to age 55, the Below-median Teachers Mortality Table for Employees is used for ages less than 55.

Deaths After Retirement (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 Below-median Mortality Table for Contingent Survivors. Rates for male members are Set Forward 3 years. Rate 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.

Appendix D: Actuarial Assumptions and Methods (continued)

Deaths After Retirement (Disabled Members at Retirement)

Mortality rates are based on the General Mortality Table for Disabled Retirees. Rates for male members not in Law Enforcement are Set Forward 3 years, while male members in Law Enforcement are Set Back 3 years. Rates for female members not in Law Enforcement are Set Back 1 year, while female members in Law Enforcement are Set Back 3 years.

Deaths Prior to Retirement

Mortality rates are based on the General Mortality Table for Employees for all employees except law enforcement officers. Mortality rates for law enforcement officers are based on the Safety Mortality Table for Employees.

Disability Rates

The table below provides age and gender based annual rates of disability per 1,000 lives exposed at sample ages:

Age	Male	Age	Female
20–24	0.74	20–24	0.65
25–29	0.74	25–29	0.65
30–34	1.06	30–34	2.52
35–39	1.91	35–39	2.54
40–44	2.43	40–44	3.80
45–49	3.19	45–49	4.97
50–55	5.31	50–53	8.38
56–61	7.37	54–62	7.63
62–64	5.96	63–64	5.05

Decrement Timing and Adjustment

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.

Appendix D: Actuarial Assumptions and Methods (continued)

Disability Claim Termination Rates

Monthly select disability claim termination rates were used for the first 24 months of disability. The following tables contain age-at-disability and gender-based rates of disability claim termination per 1,000 lives for sample durations of disability:

Males

Disability Duration (in months)	Age at Disability								
	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64
5	187.7	166.3	150.7	135.4	121.8	108.3	94.4	83.9	75.6
10	51.5	44.4	38.3	33.3	29.5	26.6	23.1	21.2	19.8
15	32.7	27.9	23.7	20.2	17.8	16.1	13.8	12.6	12.0
20	23.0	20.1	17.1	14.7	12.8	11.6	9.6	9.0	8.6
24	20.6	18.1	15.4	13.3	11.4	10.2	8.3	7.7	7.3

Females

Disability Duration (in months)	Age at Disability								
	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64
5	177.5	157.7	139.5	126.0	115.0	106.0	96.0	88.7	81.3
10	46.5	40.8	36.5	33.2	31.0	29.1	26.3	24.6	22.6
15	29.7	25.8	22.6	20.2	18.4	17.1	15.2	14.1	13.0
20	21.8	18.7	16.3	14.3	12.8	11.8	10.2	9.5	8.9
24	19.8	16.8	14.6	12.7	11.2	10.3	8.6	8.1	7.5

Annual select and ultimate disability claim termination rates were used after the first 24 months of disability, with select rates effective from 5 to 25 years. The following tables contain age-at-disability and gender-based rates of disability claim termination per 1,000 lives for sample durations of disability:

Males

Disability Duration (in years)	Age at Disability								
	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64
5	94.7	83.8	72.9	63.5	56.3	51.2	42.3	43.8	43.2
10	42.0	40.3	36.3	32.2	30.0	31.2	34.3	38.0	40.9
15	29.2	28.3	28.4	27.3	28.3	32.2	35.9	40.8	47.2
20	25.2	26.3	29.3	31.4	36.1	42.2	47.8	58.5	68.4
25	28.3	28.5	33.6	36.2	38.1	53.1	59.6	88.8	129.4

Appendix D: Actuarial Assumptions and Methods (continued)

Females

Disability Duration (in Years)	Age at Disability								
	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64
5	90.9	76.3	64.7	55.4	48.5	44.4	37.2	38.5	37.1
10	40.0	35.6	29.3	25.4	23.0	23.0	24.5	27.9	29.5
15	28.5	26.5	22.4	20.6	20.5	22.2	25.1	26.2	37.5
20	26.8	23.8	21.8	21.5	24.2	27.7	31.9	39.8	55.7
25	27.6	25.5	25.1	24.2	27.1	41.7	41.5	76.6	130.2

Dates of Disability

The date of disability is the calendar month, day, and year on which a claimant meets the definition of disability under Plan. This date is used to estimate the member's age-at-disability and the duration of the member's disability, which are used in the determination of the applicable monthly select, and annual select and ultimate, disability claim termination rates described above.

The Retirement Systems Division (RSD) did not provide date of disability or age-at-disability for members who are receiving extended short-term and long-term disability benefits under the Plan as of December 31, 2024. As instructed by RSD, we assumed that dates of disability for these members occurred twelve months before their benefit start dates. We note that benefit start dates could be deferred as a result of member decisions, any delay in the disability application and/or certification process(es), or any change in the applicable disability program (for example, if a new benefit start date would be generated for members who begin receiving long-term disability benefits after having exhausted extended short-term disability benefits). Nevertheless, we believe that the prescribed method is a reasonable approach because, generally speaking, members must have been enrolled for twelve months under the short-term disability program before extended short-term or long-term disability benefits can be paid, and the number of members whose estimated dates of disability reflect more recent event dates than actual experience would support is likely not significant.

Assumed Social Security Disability Benefit Approval Rates

Future Disabled Members

50% of members who had less than five years of service as of July 31, 2007 are assumed to receive approval for Social Security disability benefits from the conclusion of the waiting period and prior to the completion of four years of disability. All other members are assumed to receive approval for Social Security disability benefits.

Current Disabled Members

Actual Social Security disability benefit approval information is used where available. If actual Social Security disability decisions are not available, 50% of currently disabled members who had less than five years of service as of July 31, 2007 are assumed to receive approval for Social Security disability benefits. Otherwise, all other currently disabled members are assumed to receive approval for Social Security disability benefits.

Future State Health Plan Enrollment

Not applicable on a prospective basis. DIPNC does not pay any health care related benefits except to reimburse employers for health care costs during the second six months of the short-term disability period for members whose benefits were effective before July 1, 2019.

Appendix D: Actuarial Assumptions and Methods (continued)

Other Assumptions and Methods

Gross Benefit Adjustments

Our understanding is that the gross benefit amounts provided by the Retirement Systems Division (RSD) as of December 31, 2024, reflect the multipliers and/or limits applicable to the disability program in which the claimant is enrolled, as reported on the census data. For the purposes of estimating incurred but not reported (IBNR) liabilities, gross benefit amounts payable to members who are currently receiving extended short-term disability benefits were adjusted to reflect the multipliers used under the long-term disability program. However, if “unlimited” gross benefits were not provided on the census data, we assumed that claimants would have the highest allowable gross benefit under the Plan’s long-term disability provisions if the highest allowable extended short-term gross benefit was provided on the census data.

Social Security Benefit Offsets

Future Disabled Members

Estimated projected Social Security benefits for future disabled members are based on expected long-term National Average Wage growth assumptions, assumptions about future increases in Social Security benefits, valuation salaries from age at entry to future decrement dates, and the Social Security benefit determination rules applicable to the law year in effect on future decrement dates.

Estimated projected Social Security retirement benefits were adjusted to reflect reductions / increases for early / late commencement.

Current Disabled Members

Social Security benefit offsets were not provided for some claimants—for example, members who are currently receiving extended short-term disability benefits—as of December 31, 2024. We estimated Social Security benefits for affected claimants based on the relevant assumptions listed above, wages at termination projected backward reflecting relative changes in National Average Wages to member aged 20, and the Social Security benefit determination rules applicable to the 2024 law year. Estimated Social Security benefits for claimants with more than three years of disability were provided as of December 31, 2024. These were used to offset the benefits for claimants with more than three years of disability who had over 5 years of service in 2007 and were denied or did not receive approval for Social Security disability benefits.

Other Offsets

No additional offsets—including but not limited to Worker’s Compensation, VA benefits, and Outside Earnings—other than those reported, have been assumed.

Reported Compensation

Calendar year compensation provided 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.

Appendix D: Actuarial Assumptions and Methods (continued)

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.

Valuation Date

December 31, 2024

Benefits Not Valued

None.

Actuarial Cost Method

The funding valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 3.00%), of each member's expected benefits at future disability events is determined, based upon age, service, and gender. The calculations take into account the probability of a member's disability, recovery from disability, death, retirement, or termination of employment prior to receiving benefits under the Plan. The present value of the expected benefits payable on account of active members is added to the present value of the expected future payments to currently disabled members to obtain the present value of all expected benefits payable by the Plan.

The actuarial cost method is a procedure for allocating the actuarial present value of postemployment benefits and expenses to time periods. The method used for funding purposes is known as the Aggregate actuarial cost method, and has the following characteristics:

- (i) The annual normal cost is determined for the entire group active participants rather than individually for each participant.
- (ii) This cost method does not identify or separately amortize unfunded actuarial liabilities. Thus, actuarial gains (losses), as they occur, reduce (increase) future normal costs.

The Aggregate actuarial cost method allocates the actuarial present value of postemployment benefits for all active participants and currently disabled members in excess of the Actuarial Value of Assets on a level basis over the present value of projected compensation for all active participants between the valuation date and the date that the last employee retires (collectively).

The portion of the actuarial present value allocated to the valuation year is called the normal cost. Under the Aggregate actuarial cost method, the annual normal cost is a percentage of the year-by-year projected total covered compensation for all employees. This actuarial cost method does not produce an Actuarial Accrued Liability, so the Actuarial Accrued Liability based on the Entry Age Normal (Level Percentage of Pay) actuarial cost method is often reported in connection with results based on the Aggregate actuarial cost method.

The actuarial cost method was prescribed by the System for the purposes of preparing the actuarially determined employer contribution rate for the Plan as of December 31, 2024.

Appendix D: Actuarial Assumptions and Methods (continued)

Asset Valuation Method

The Actuarial Value of Assets for the funding valuation is determined using the “five-year smoothed value” asset valuation method, which attempts to “flatten” the peaks and valleys inherent in market values of assets. Under this method, investment gains and losses are recognized in equal portions over a five-year period. Investment gains and losses are determined by comparing the actual return on market value for a given period to the anticipated earnings over the same period if the market value of assets at the beginning of the period, contributions, benefit payments, and administrative expenses during the period earned the expected rate of return for the portion of the period that each was expected to be including in, or excluded from, plan assets. The expected rate of return for this purpose is equal to the expected long-term rate of return assumption selected at the beginning of the experience period (in this case, 3.00% as of January 1, 2024). The resulting Actuarial Value of Assets cannot be less than 80% or more than 120% of the market value of assets. Please see Appendix C for the development of the Actuarial Value of Assets as of the valuation date.

The asset valuation method was prescribed by the System for the purposes of preparing the actuarially determined employer contribution rate for the Plan as of December 31, 2024.

Incurred But Not Reported Claims (IBNR)

IBNR claims are based on the one-year term cost for expected disablements during the year. For long-term disability, a reserve of 14/12 of the term cost is added to account for the waiting time after disability to receive LTD benefits.

Funding Policy

The actuarial cost method, asset valuation method, and other components of the contribution allocation procedure were considered and approved by the Board during the most recent experience study. ADC rates as of the valuation date were developed based on the Plan’s Normal Cost as a percent of pay plus an allowance for administrative expenses, as approved by the System.

Other Assumptions and Methods

Unless otherwise stated above, all other actuarial assumptions and methods are the same as those used for the purpose of determining periodic funding contributions as of December 31, 2023.

Please see the December 31, 2023 actuarial valuation report for additional information about the data, assumptions, methods, and plan provisions used to prepare results as of the December 31, 2023 measurement date. Likewise, additional information concerning historical results can be found in the relevant actuarial valuation report for each valuation date. Please keep in mind that any information that may be included in this report for periods prior to December 31, 2021 was produced by other actuarial consulting firms.

Changes in Funding Assumptions and Methods Since the Prior Valuation

The assumptions used for the December 31, 2024 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. There were no material assumptions or methods that were changed since the prior valuation.

Appendix E: Summary of Main Benefit Provisions

This summary of main benefit provisions is intended to describe only the principal features of the Disability Income Plan of North Carolina (DIPNC, or the Plan), a cost-sharing, multiple employer defined benefit OPEB plan sponsored by the Teachers' and State Employees' Retirement System of North Carolina (the System) as interpreted for valuation purposes. All actual eligibility requirements and benefit amounts will be determined in accordance with the Plan document and any System practices, processes, and procedures.

Overview of the Plan

The Disability Income Plan of North Carolina became effective January 1, 1988. The Plan replaced the Disability Salary Continuation Plan for Teachers and State Employees of North Carolina (DSC Plan). Those beneficiaries disabled prior to January 1, 1988 continue to be covered under the provisions of the DSC Plan as in effect December 31, 1987. Beneficiaries disabled on or after January 1, 1988 are covered under the provisions of the Disability Income Plan.

Membership in the Plan

All teachers and other employees who are in active service and are members of the Teachers' and State Employees' Retirement System (TSERS) or the UNC Optional Retirement Program (ORP) on or after January 1, 1988 are eligible to participate in the Plan.

Definition of Disability

The mental or physical incapacity for the further performance of duty of a beneficiary; provided that such incapacity was not the result of terrorist activity, of active participation in a riot, of the commission or attempt to commit a felony, or of the intentional self-infliction of an injury.

Definition of Base Rate of Compensation

The regular monthly rate of compensation not including pay for shift premiums, overtime, or other types of extraordinary pay as determined by the Board of Trustees.

Definition of Annual Longevity Payment

Full-time and part-time (20 hours or more) permanent, probationary, and time-limited employees are eligible for annual longevity payments, whereas, part-time (less than 20 hours) and temporary employees are not eligible for these payments.

Annual longevity pay amounts are based on the length of total State service and a percentage of the eligible employee's annual base rate of compensation on the date of eligibility. Longevity pay amounts are determined by multiplying the eligible employee's annual base rate of compensation by the appropriate percentage from the following table:

Years of Total State Service	Longevity Pay Percentage
Under 10 years	0.00%
10 but less than 15 years	1.50%
15 but less than 20 years	2.25%
20 but less than 25 years	3.25%
25 or more years	4.50%

Appendix E: Summary of Main Benefit Provisions (continued)

Short-Term Disability Benefits

Short-Term Disability benefits are paid by the employer and not by DIPNC. However, they are summarized in this report because of their administrative connection to Extended Short-Term Disability benefits and Long-Term Disability benefits, which are paid by DIPNC.

Eligibility for Short-Term Disability Benefits

Prior to June 25, 2018, any participant who becomes disabled and is no longer able to perform his usual occupation after at least 365 calendar days succeeding his date of initial employment and at least one year of contributing membership service in the System may be eligible for STD benefits.

Effective June 25, 2018, any participant who becomes disabled and is no longer able to perform his or her usual occupation may be eligible for STD benefits provided all of the following conditions are met:

- (1) Application for the benefit occurs at least 365 calendar days succeeding the participant's date of initial employment as a teacher or employee;
- (2) The participant has at least one year of contributing membership service earned within 36 calendar months immediately preceding the date of disability. Salary continuation (see below) used during the period shall count toward this one-year requirement;
- (3) The member applies for short-term disability within one year of the end of the waiting period;
- (4) The participant's employer and attending physician certify that the participant is mentally or physically incapacitated for the further performance of duty; and,
- (5) The participant's incapacity was incurred at the time of active employment and has been continuous thereafter.

Waiting Period

A beneficiary shall receive no benefits from the Plan for a period of 60 continuous calendar days from the onset of disability determined as the last actual day of service, the day that the physician certified the disability, or the day succeeding at least 365 calendar days after the commencement of service as a teacher or employee, whichever is later.

Salary Continuation Benefits

During the waiting period, a beneficiary may be paid such salary continuation as provided by an employer through the use of sick leave, vacation leave or any other salary continuation.

A disabled beneficiary may elect to receive any such salary continuation in lieu of STD benefits provided such election shall not extend the 365 days duration of the STD period.

Commencement of STD Benefits

The STD benefit commences on the first day succeeding the waiting period.

Monthly STD Benefit Amounts

50% of 1/12th of the annual base rate of compensation last payable to the beneficiary prior to the beginning of the STD period plus 50% of 1/12th of the annual longevity payment to which the beneficiary would be eligible, to a maximum of \$3,000 per month, reduced by any other benefits that are payable to the beneficiary including but not limited to:

- (1) Monthly temporary total Workers' Compensation payments by any employer*;
- (2) Monthly Veterans Administration (VA) disability payments for the same (or for a related) disability;

* However, STD benefits are not offset by permanent, partial Workers' Compensation benefits.

Appendix E: Summary of Main Benefit Provisions (continued)

- (3) Monthly benefits payable under other Federal or certain statutory disability plans;
- (4) Monthly wages or other income paid by public or private employers in excess of the participant's earnable allowance. If a beneficiary has earnings in excess of the STD benefit, the STD benefit shall be also reduced on a dollar-for-dollar basis by the amount that exceeds the STD benefit; and,
- (5) Monthly severance pay as a result of a reduction-in-force from the State.

Post Disability Benefit Adjustments

The compensation upon which the STD benefit is calculated may be increased by any percentage across-the-board salary increases granted by the General Assembly.

Duration of STD Benefits

STD benefits are payable for up to 365 days following the waiting period.

Extended Short-Term Disability Benefits

Eligibility for Extended Short-Term Disability Benefits

Any beneficiary who completes 365 days of short-term disability benefits may be eligible to receive extended STD benefits if the disability is expected to end during the extended period, and the extension is approved by the Medical Board.

Waiting Period

There is no waiting period for extended STD benefits. However, a member must exhaust STD benefits before extended STD benefits can be paid.

Salary Continuation Benefits

Same as for STD benefits.

Commencement of Extended STD Benefits

The extended STD benefit commences on the first day succeeding the conclusion of the short-term disability period.

Monthly Extended STD Benefit Amounts

Same as STD benefit amounts.

Post Disability Benefit Adjustments

Same as for STD benefits.

Duration of Extended STD Benefits

Extended STD benefits are payable for up to an additional 365 days beyond the initial 365 day short-term period. During this extended period, STD benefits are paid directly from the trust.

Appendix E: Summary of Main Benefit Provisions (continued)

Long-Term Disability Benefits

Eligibility for Long-Term Disability Benefits

Any beneficiary who has five or more years of contributing membership service in the System, earned within the 96 calendar months prior to becoming disabled or the cessation of continuous salary continuation payments, whichever is later, may be eligible to receive LTD benefits from the Plan upon approval by the Board of Trustees provided that the disability is likely to be permanent, and the beneficiary or participant withdraws from active service by terminating employment as a teacher or State employee.

Waiting Period

There is no waiting period for LTD benefits. However, a member must exhaust STD benefits before LTD benefits can be paid.

Salary Continuation Benefits

A disabled beneficiary may elect to receive any such salary continuation in lieu of LTD benefits provided such election shall not extend the first 36 consecutive calendar months of the LTD period.

Commencement of LTD Benefits

Benefits commence on the first day succeeding the conclusion of the short-term disability period provided the beneficiary makes application for such benefits within 180 days after the short-term disability period ceases or after salary continuation payments cease, whichever is later.

Monthly LTD Benefit Amounts

65% of 1/12th of the annual base rate of compensation last payable to the beneficiary prior to the beginning of the STD benefit period plus 65% of 1/12th of the annual longevity payment to which the beneficiary would be eligible, to a maximum of \$3,900 per month, reduced by any other benefits that are payable to the beneficiary including but not limited to:

- (1) Monthly primary Social Security disability benefits*;
- (2) Monthly temporary total or partial Workers' Compensation payments by any employer;
- (3) Monthly Veterans Administration (VA) disability payments for the same (or for a related) disability; Monthly benefits payable under other Federal or certain statutory disability plans;
- (4) Monthly benefits payable from TSERS, or other retirement systems supported by the State;
- (5) Monthly benefits payable through other insurance plans to which the State contributes;
- (6) Monthly wages or other income paid by public or private employers in excess of the participant's earnable allowance; and,
- (7) Monthly severance pay as a result of a reduction-in-force from the State.

However, in any event, the monthly LTD benefit payable after all offsets have been deducted cannot be less than \$10 per month.

* For members with less than five years of service as of July 31, 2007, LTD benefits terminate after 36 months if the member has not been approved for Social Security disability benefits. For members with five or more years of service as of July 31, 2007 who have not been approved for Social Security benefits after 36 months, the beneficiary's benefit shall be reduced by an amount—as determined by the Board of Trustees—equal to the primary Social Security disability benefit to which the beneficiary might have been entitled had the beneficiary been awarded Social Security disability benefits. This amount was provided in the December 31, 2024 census data.

Appendix E: Summary of Main Benefit Provisions (continued)

Post Disability Benefit Adjustments

The compensation upon which the long-term disability benefit is calculated may be increased by any percentage across-the-board salary increases granted by the General Assembly. Benefits shall be reduced by future increases granted by the Social Security Administration.

Duration of LTD Benefits

Under N.C. G.S. § 135-112, some participants who were actively employed on January 1, 1988 and started receiving LTD benefits before completing 5 years of contributory membership service will receive lifetime benefits in lieu of service accruals under the System.

For all other participants, the LTD benefit is payable until the earliest date at which the beneficiary is eligible for an unreduced service retirement allowance from TSERS, or the termination of disability, whichever occurs first.

Please see the actuarial valuation report for TSERS presented concurrently with this report for a complete description of the eligibility requirements related to TSERS unreduced service retirement allowances for various employee groups.

DSC Plan Long-Term Disability Benefits

Eligibility for DSC Plan Long-Term Disability Benefits

Only participants who were first disabled prior to January 1, 1988 and are currently receiving LTD payments are eligible for LTD benefits under the predecessor Disability Salary Continuation Plan (DSC Plan).

Monthly DSC Plan LTD Benefit Amounts

60% of monthly salary to a maximum of \$1,000 per month reduced by benefits payable from other plans including but not limited to:

- (1) Social Security benefits payable:
Before July 1, 1974—full family benefits.
On or after July 1, 1974—primary benefits only;
- (2) Workers' Compensation, and other Federal and certain statutory disability benefits;
- (3) Benefits payable from TSERS, or other retirement systems supported by the State;
- (4) Benefits payable through other insurance plans to which the State contributes; and,
- (5) Wages or other income paid by public or private employers in excess of the participant's earnable allowance.

Post Disability Benefit Adjustments

DSC Plan LTD benefits shall not be increased by future across-the-board salary increases granted by the General Assembly nor decreased by any future increases granted by the Social Security Administration.

Duration of DSC Plan LTD Benefits

The LTD benefit under the DSC Plan is payable until the termination of disability.

Appendix E: Summary of Main Benefit Provisions (continued)

Termination of Disability Benefits

Disability benefits will end—and all future disability benefits will be forfeited—if a beneficiary receives a refund of his or her contributions or, in the case of STD benefits, starts receiving a retirement benefit from the System. Disability benefits can also be terminated by member request.

Plan benefits may be terminated by the System for reasons including but not limited to:

- (1) The beneficiary returns to a contributing membership position with TSERS or ORP;
- (2) Beneficiary earnings consistently exceed his or her earnable allowance;
- (3) A medical professional does not continue to certify the beneficiary's disability when a reexamination is requested by the Medical Board;
- (4) The Medical Board certifies that the beneficiary is no longer disabled;
- (5) The beneficiary did not have 5 years of service as of July 31, 2007 and was denied or did not receive approval for Social Security disability benefits after receiving 36 months of LTD payments;
- (6) The beneficiary becomes eligible (or would have become eligible) for a TSERS unreduced service retirement benefit while he or she is receiving LTD benefits; or
- (7) The beneficiary dies.

Contributions

The Plan is funded solely through contributions made by the State and/or employing units. Participants do not contribute.

Changes in Benefit Provisions Since the Prior Valuation

Gallagher reviewed legislative changes with RSD and no material changes since the prior valuation were identified.

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