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## GASB STATEMENT NO. 74 REPORT FOR THE

# CONNECTICUT STATE TEACHERS' RETIREMENT SYSTEM RETIREE HEALTH INSURANCE PLAN PREPARED AS OF JUNE 30, 2019



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February 19, 2020

Board of Directors Connecticut State Teachers' Retirement System 765 Asylum Avenue Hartford, CT 06105

Re: June 30, 2019 GASB Statement No. 74 Report for the

Retiree Health Insurance Plan of the Connecticut State Teachers' Retirement System

Members of the Board:

This report presents the results of the actuarial valuation of the Retiree Health Insurance Plan (the Plan) of the Connecticut State Teachers' Retirement System (the System). This report has been prepared by the System's actuary, Cavanaugh Macdonald Consulting (CMC) as of June 30, 2019 (Measurement Date).

The primary purpose of the valuation report is to provide the actuarial information for the Plan required under Governmental Accounting Standards Board (GASB) Statement No. 74 (GASB 74) for the fiscal year ending on June 30, 2019 based on a valuation date of June 30, 2018.

#### **Additional Information and Disclosures**

The information contained in this report is intended to be used by the System for Plan accounting purposes for the fiscal year ending on June 30, 2019, and its use for other purposes may not be appropriate. Calculations for purposes other than reporting the Plan accounting information required under GASB 74 may produce significantly different results.

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. The Plan accounting information provided in this report reflects our current understanding of GASB 74, including any applicable guidance provided by the System or its audit partners, as of the date of this report.

These results supersede all June 30, 2019 actuarial valuation results for the System, including draft versions of this document, issued prior to the date of this report. The System should rely only on the June 30, 2019 actuarial results provided herein.



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The census data for active and retired members as of the Valuation Date, changes in plan provisions since the prior Valuation Date, the net benefits and administrative expenses paid during the fiscal year beginning on July 1, 2018 and ending on June 30, 2019, and pertinent financial information were provided by the System for actuarial valuation and Plan accounting purposes. 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 information may need to be revised to reflect any significant event that affects the Plan subsequent to the Valuation Date.

Valuation results as of June 30, 2019 are based on the assumptions and methods used in the Plan's June 30, 2018 biennial actuarial valuation, which are summarized in various sections of this report. All GASB 74 assumptions—including, but not limited to, discount rates, expected rates of return on assets, long-term health care cost trend rates, and expected active employee health care coverage election assumptions—have been selected for the measurement of the Plan's benefit obligations as of June 30, 2019 based on the June 30, 2018 valuation date, and should reflect best estimates of anticipated Plan experience. Other than the discount rate required under GASB 74, we believe that those assumptions selected for Plan funding and financial accounting purposes as of June 30, 2019 are reasonable for the purposes of preparing the measurements described above.

The actuarial cost method, the asset valuation method, and the amortization methods are prescribed under GASB rules for financial accounting purposes as of the June 30, 2019 measurement date. Actuarial methods such as the actuarial cost methods, asset valuation methods, and amortization methods used in the cost allocation procedure (for financial accounting purposes) 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 other than the sensitivity to changes in the discount rate and healthcare cost trend rates required by GASB 74. **This report does not consider all possible scenarios.** 



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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.

CMC 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 affiliated 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.

To the best of our knowledge, no executive or employee of CMC providing services to the System has any direct financial interest or indirect material interest in the System. As a result, we believe that there is no relationship existing that might affect our capacity to prepare and certify these results for the System's Plan as of June 30, 2019.

Please call us at 678-388-1700 if you have any questions.

Respectfully submitted,

Bradley R. Wild, ASA, FCA, MAAA Senior Actuary

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#### **Section I — Board Summary**

## GASB 74 ACCOUNTING INFORMATION AS OF JUNE 30, 2019 FOR THE SYSTEM'S RETIREE HEALTH INSURANCE PLAN

#### **Summary of Principal Plan Accounting Results**

(\$ in Thousands)			
Valuation Date (VD):	Ju	une 30, 2018	
Prior Measurement Date (PMD):	Ju	une 30, 2018	
Measurement Date (MD):	Ju	une 30, 2019	
Membership Data as of the VD:			
Inactive Members Currently Receiving Benefits		28,530	
Inactive Members Entitled to, but Not Currently Receiving Benefits		10,684	
Active Members		50,594	
Total Membership		89,808	
Discount Rate:			
Long-Term Expected Rate of Return		3.00%	
Municipal Bond Index Rate at PMD	3.87%		
Municipal Bond Index Rate at MD		3.50%	
Year in which Fiduciary Net Position is Projected to be Depleted		2019	
Single Equivalent Interest Rate at Prior Measurement Date		3.87%	
Single Equivalent Interest Rate at Measurement Date		3.50%	
Total OPEB Liability (TOL) as of the MD:	\$	2,719,040	
TOL as a percentage of covered compensation		61.94%	
Net OPEB Liability (NOL) as of the MD:			
Total OPEB Liability (TOL)	\$	2,719,040	
Fiduciary Net Position (FNP)		56,45 <u>3</u>	
Net OPEB Liability (NOL = TOL – FNP)	\$	2,662,587	
FNP as a percentage of TOL		2.08%	
NOL as a percentage of covered compensation		60.66%	



#### Section II — Introduction

The Governmental Accounting Standards Board issued Statement No. 74 (GASB 74), "Financial Reporting for Postemployment Benefit Plans other than Pension Plans" in June 2015. GASB 74's effective date is for a plan's fiscal year beginning after June 15, 2016. If an OPEB plan does not issue a stand-alone financial report, the employer should make the note disclosures required by Statement 74 for an OPEB plan within the employer's financial report. For the purposes of reporting under GASB 74, the Plan is assumed to be a cost-sharing, other than insured, defined benefit OPEB plan with a special funding situation where assets are accumulated in a trust that meets the criteria in paragraph 3 of GASB 74.

This report, prepared as of June 30, 2019 (Measurement Date or MD), presents information to assist the Plan in meeting the requirements of GASB 74. Much of the material provided in this report is based on the data, assumptions and results of the actuarial valuation of the Plan, as of June 30, 2018 (Valuation Date or VD).

GASB 74 requires the determination of the Total OPEB Liability (TOL) utilizing the Entry Age Normal (EAN) actuarial cost method. If the valuation date at which the TOL is determined is before the measurement date, as is the case here, the TOL must be rolled forward to the measurement date. The Net OPEB Liability (NOL) is then set equal to the rolled forward TOL minus the plan's Fiduciary Net Position (FNP) (the market value of assets as of the Measurement Date). The plan provisions recognized in the calculation of the TOL are summarized in Schedule D. The development of the roll-forward of the TOL is shown in the table on page 11.

Among the items needed for the liability calculation is the discount rate, as defined by GASB, or a Single Equivalent Interest Rate (SEIR). To determine the SEIR, the FNP must be projected into the future for as long as there are anticipated benefits payable under the plan's provisions applicable to the membership and beneficiaries of the Plan on the Measurement Date. If the FNP is not projected to be depleted at any point in the future, the long term expected rate of return on plan investments expected to be used to finance the benefit payments may be used as the SEIR.

If, however, at a future measurement date, the FNP is projected to be depleted, the SEIR is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long-term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate (Municipal Bond Index Rate). The Municipal Bond Index Rate used for this purpose is the 20-Bond average General Obligation 20-year Municipal Bond Rate published at the end of the last week during the month of June by The Bond Buyer (www.bondbuyer.com). Our calculations indicated the FNP is projected to be depleted in 2019, so the Municipal Bond Index Rate is used in the determination of the SEIR. Please see the "Summary of Key Actuarial Assumptions, Methods, and Other Inputs" in Section III for more explanation into the development of the SEIR.



The FNP projections are based upon the Plan's financial status on the Valuation Date, the indicated set of methods and assumptions, and the requirements of GASB 74. As such, the FNP projections are not reflective of the cash flows and asset accumulations that would occur on an ongoing plan basis, reflecting the impact of future members. Therefore, the results of this test do not necessarily indicate whether or not the fund will actually run out of money, the financial condition of the Plan, or the Plan's ability to make benefit payments in future years.

The sections that follow provide the results of all the necessary calculations for note disclosure and Required Supplementary Information (RSI).



#### Section III — Financial Statement Notes

This section contains accounting information that may be used to satisfy the reporting requirements under Governmental Accounting Standards Board (GASB) Statement No. 74 for the fiscal year ending on June 30, 2019, based on a June 30, 2018 valuation date.

The Plan is assumed to be cost-sharing, other than insured, defined benefit OPEB plan with a special funding situation where assets are accumulated in a trust that meets the criteria in paragraph 3 of GASB 74. Additionally, we have assumed that the System will not restate results for any period prior to the adoption of GASB 74 based on the guidance in paragraph 61 of that Standard. This report does not include any non-actuarial items that may need to be reported or disclosed.

#### **Plan Membership Information**

The Plan's membership data was furnished by the System for valuation purposes as of June 30, 2018. The following table summarizes the membership of the Plan as of the June 30, 2018 valuation date.

Membership Group	Number
Inactive plan members currently receiving benefits	28,530
Inactive plan members entitled to, but not currently receiving benefits	10,684
Active participants	50,594
Total membership	89,808

#### Net OPEB Liability / (Asset) (NOL)

The NOL is equal to the Total OPEB Liability (TOL) minus the Fiduciary Net Position (FNP). The development of the NOL, and the Plan's funded ratio, as of the June 30, 2019 Measurement Date is presented in the table below.

As of June 30, 2019 (\$ in Thousands)								
TOL	\$	2,719,040						
FNP		<u>56,453</u>						
NOL [TOL – FNP]	\$	2,662,587						
Ratio of FNP to TOL		2.08%						



#### **Summary of Key Actuarial Assumptions, Methods, and Other Inputs**

The TOL was determined by an actuarial valuation as of June 30, 2018, using the key actuarial assumptions, methods, and other inputs listed below. Please note that the complete set of actuarial assumptions, methods, and other inputs that were used to develop the TOL are provided in Schedule C.

Inflation	2.50%
Real wage growth	0.75%
Wage inflation	3.25%
Salary increases, including wage inflation	3.25% - 6.50%
Long-term Investment Rate of Return, net of OPEB plan investment expense, including inflation	3.00%
Municipal Bond Index Rate at Prior Measurement Date	3.87%
Municipal Bond Index Rate at Measurement Date	3.50%
Year FNP is projected to be depleted	2019
Single Equivalent Interest Rate, net of OPEB plan investment expense, including price inflation, as of Prior Measurement Date	3.87%
Single Equivalent Interest Rate, net of OPEB plan investment expense, including price inflation, as of Measurement Date	3.50%
Health Care Cost Trend Rates	
Medicare Supplement Plan Options	
Claims / Member Contributions	5.95% for 2018, decreasing to an ultimate rate of 4.75% by 2025
Medicare Advantage Plan Options	
Claims	5.00% for 2018, decreasing to an ultimate rate of 4.75% by 2028
Member Contributions	0.00% for 2018 and 2019, increasing to 5.00% for 2020, and decreasing to an ultimate rate of 4.75% by 2028
Local School District Subsidies	0.00% for members / dependents who are receiving the maximum subsidy; Otherwise, 5.95% for 2018, decreasing to an ultimate rate of 0.00% when the maximum subsidy is reached

Health care cost trend rates are set on an annual basis based on published annual health care inflation surveys in conjunction with actual plan experience (if credible), building block models and heuristics developed by health plan actuaries and administrators, and the views of experts who are familiar with the System's Plan and/or similar plan offerings. Effective June 30, 2018, the health care cost trend rates for the Medicare Supplement and Medicare Advantage medical and prescription drug options were revised to reflect current expectations of future increases in health care claim costs for those options.



Mortality rates were based on the RPH-2014 White Collar table with employee and annuitant rates blended from ages 50 to 80, projected to the year 2020 using the BB improvement scale, and further adjusted to grade in increases (5% for females and 8% for males) to rates over age 80 for the period after service retirement and for dependent beneficiaries as well as for active members. The RPH-2014 Disabled Mortality Table projected to 2017 using the MP-2014 improvement scale is used for the period after disability retirement.

The demographic actuarial assumptions for retirement, disability incidence, and withdrawal used in the June 30, 2018 valuation were based on the results of an actuarial experience study for the period July 1, 2010 – June 30, 2015. The actuarial economic assumptions used in the June 30, 2018 valuation were based on the results of a study of economic assumptions for use in actuarial valuations report dated April 24, 2019.

The remaining actuarial assumptions (e.g., initial per capita costs, rates of plan participation, rates of plan election, etc.) used in the June 30, 2018 valuation are based on a review of recent plan experience that was performed concurrently with the June 30, 2018 valuation and/or based on anticipated changes in participant behavior following the change of benefit terms, effective January 1, 2019, that was adopted by the System on September 12, 2018, and communicated to members prior to January 1, 2019.

The State does not have a formal funding policy intended to fully fund OPEB benefits. The State does have statutory obligation to fund one-third of the base plan of the Health Plan and the Prescription Plan.

The long-term expected return on plan assets is reviewed as part of the GASB 74 valuation process. Several factors are considered in evaluating the long-term rate of return assumption, including the Plan's current asset allocations and a log-normal distribution analysis using the best-estimate ranges of expected future real rates of return (expected return, net of investment expense and inflation) for each major asset class compiled by Horizon Actuarial Services, LLC in its "Survey of Capital Market Assumptions, 2019 Edition". The long-term expected rate of return was determined by weighting the expected future real rates of return by the target asset allocation percentage and then adding expected inflation. The assumption is not expected to change absent a significant change in the asset allocation, a change in the inflation assumption, or a fundamental change in the market that alters expected returns in future years.

The target asset allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:

Asset Class	Target Allocation	Expected 10-Year Geometric Real Rate of Return	Standard Deviation				
U.S. Treasuries (Cash Equivalents)	100.00%*	0.41%	2.31%				
Price Inflation		2.50%					
Expected Rate of Return	1.0	041 x 1.0250 – 1 = 2.92	2%				
Expected Rate of Return (Rounded Nearest 0.25%) 3.00%							

<sup>\*</sup>All of the Plan's assets are assumed to be invested in cash equivalents given the need for liquidity.



#### **DEVELOPMENT OF THE DISCOUNT RATE (SEIR)**

The projection of cash flows used to determine the discount rate was performed in accordance with GASB 74. The basis for this projection was the actuarial valuation performed as of June 30, 2018. In addition to the actuarial methods and assumptions of the June 30, 2018 actuarial valuation, the following actuarial methods and assumptions were used in the projection of cash flows:

- Total payroll for the initial projection year consists of the payroll of the active membership present on the Valuation Date. In subsequent projection years, total payroll was assumed to increase annually at a rate of 3.25%.
- Employee contributions were assumed to be made at the current member contribution rate, and were first applied to reduce applicable service costs for these members.
- No future State contributions were assumed to be made.

Based on these assumptions, the Plan's FNP was projected to be depleted in 2019 and, as a result, the Municipal Bond Index Rate was used in the determination of the SEIR. In this analysis, the long-term expected rate of return on Plan investments equal to 3.00% was applied to periods through 2019 and the Municipal Bond Index Rate as of the Measurement Date (3.50%) was applied to periods on or after 2019, resulting in an SEIR equal to 3.50% as of the Measurement Date.

Please note that the FNP projections are based upon the Plan's financial status on the Valuation Date, the indicated set of methods and assumptions, and the requirements of GASB 74. As such, the FNP projections are not reflective of the cash flows and asset accumulations that would occur on an ongoing plan basis, reflecting the impact of future members. Therefore, the results of this test do not necessarily indicate whether or not the fund will actually run out of money, the financial condition of the Plan, or the Plan's ability to make benefit payments in future years.



#### Sensitivity of the Net OPEB Liability to Health Care Cost Trend Rates

The sensitivity of the NOL to changes in health care cost trend rates must be disclosed under GASB accounting rules. The table below provides the NOL of the Plan determined using current health care cost trend rates, as well as what the Plan's NOL would be if health care cost trend rates were 1-percentage-point lower or 1-percentage-point higher than current health care cost trend rates.

Sensitivity of the Net OPEB Liability to Health Care Cost Trend Rates (\$ in Thousands)										
	1% Lower Trend Rates	Current Trend Rates	1% Higher Trend Rates							
Initial Health Care Trend Rates	4.95% / 4.00%	5.95% / 5.00%	6.95% / 6.00%							
Ultimate Health Care Trend Rate	3.75%	4.75%	5.75%							
Net OPEB Liability / (Asset)	\$ 2,218,175	\$ 2,662,587	\$ 3,256,239							

Please keep in mind that the estimates provided in the table above were prepared using streamlined calculation techniques, and they are intended to provide an "order of magnitude" indication of the NOL's sensitivity to changes in these assumptions. Results based on more refined calculations may yield findings and conclusions different than those suggested by the methodology required under GASB accounting rules, as shown above.

#### Sensitivity of the Net OPEB Liability to Discount Rates

The sensitivity of the NOL to changes in the discount rate must also be disclosed under GASB accounting rules. The table below provides the NOL of the Plan determined using the current discount rate of 3.50%, as well as what the Plan's NOL would be if the discount rate was 1-percentage-point lower or 1-percentage-point higher than the current rate:

Sensitivity of the Net OPEB Liability to Discount Rates (\$ in Thousands)								
	Current							
	1%	Discount	1%					
	Decrease	Rate	Increase					
	(2.50%)	(3.50%)	(4.50%)					
Net OPEB Liability / (Asset)	\$ 3,173,004	\$ 2,662,587	\$ 2,256,137					

Please keep in mind that the estimates provided in the table above were prepared using streamlined calculation techniques, and they are intended to provide an "order of magnitude" indication of the NOL's sensitivity to changes in these assumptions. Results based on more refined calculations may yield findings and conclusions different than those suggested by the methodology required under GASB accounting rules, as shown above. For example, one possible refinement would consider the impact of similar changes in bond yields on Plan assets, including (but not limited to) the valuations of certain fixed income investments held by the Plan. However, as required by GASB accounting rules, we have not made any attempt to adjust the Plan's FNP to reflect a potentially related change in fixed income asset pricing.



#### Section IV — Required Supplementary Information

Under GASB 74, information regarding changes to benefit terms and changes to assumptions or other inputs should be noted regarding the Required Supplementary Information (RSI). The information should be listed by the date for which the indicated change was first reflected in reported amounts.

#### **Changes to benefit terms**

June 30, 2019 (Valuation Date: June 30, 2018)

The Plan was amended by the Board, effective January 1, 2019, during the September 12, 2018 meeting. The Board elected a new prescription drug plan, which is expected to reduce overall costs and allow for the Board to receive a government subsidy for members whose claims reach a catastrophic level. These changes were communicated to retired members during the months leading up to the open enrollment period that preceded the January 1, 2019 implementation date.

#### Changes to assumptions or other inputs

June 30, 2019 (Valuation Date: June 30, 2018)

- Based on the procedure described in GASB 74, the discount rate used to measure Plan obligations for financial accounting purposes as of June 30, 2019 was updated to equal the Municipal Bond Index Rate of 3.50% as of June 30, 2019;
- Expected annual per capita claims costs were updated to better reflect anticipated medical and prescription drug claim experience both before and after the plan change that became effective on January 1, 2019; and
- The expected rate of inflation was decreased, and the Real Wage Growth assumption was increased.

## SUMMARY OF METHODS AND ASSUMPTIONS USED IN THE DETERMINATION OF ACTUARIALLY DETERMINED CONTRIBUTIONS

The actuarially determined contribution (ADC) rates, as a percentage of payroll, used to determine the actuarially determined State contribution amounts that will be shown in the "Schedule of Governmental Nonemployer Contributing Entity Contributions" (See Schedule A) are calculated as of the most recent Valuation Date. The following actuarial methods and assumptions as of June 30, 2018 were used to determine the contribution rates shown in Table V of the Retiree Health Insurance Plan Funding and Plan Accounting Report, prepared as of June 30, 2018, that will be applicable for fiscal years ending on June 30, 2019 and June 30, 2020:

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Actuarial cost method	Entry age
Amortization method	Level percentage of payroll over an open period
Amortization period	30 years
Asset valuation method	Market value of assets
Long-term investment rate of return, net of pension plan investment expense, including price inflation	3.00%
Price inflation	2.75%
Real wage growth	0.50%
Wage inflation	3.25%
Salary increases, including wage inflation	3.25% to 6.50%
Initial health care cost trend rates	
Medicare Supplement / Advantage Claims Medicare Supplement / Advantage Retiree Contributions Local School District Subsidies	5.95% / 5.00% 5.95% / 0.00% 0.00% or 5.95%
Ultimate health care cost trend rates	
Medicare Supplement / Advantage Claims Medicare Supplement / Advantage Retiree Contributions Local School District Subsidies	4.75% / 4.75% 4.75% / 4.75% 0.00% when maximum is reached
Year ultimate trend rates reached	
Medicare Supplement Claims and Contributions Medicare Advantage Claims and Contributions Local School District Subsidies	2025 2028 Varies
Basis for Postretirement Mortality Rates	RP–2014 Headcount-weighted
Basis for Postretirement Mortality Improvement Rates For Healthy / Disabled Lives	Scale BB / MP-2014
Projection of Mortality Improvements for Healthy / Disabled Lives	Static Projection to 2020 / 2017



#### Schedule A — Required Supplementary Information

The table below provides the change in the Net OPEB Liability (NOL) during the current measurement period that must be disclosed under GASB accounting rules, as well as the most recent five years of the 10-year schedule of changes in the Net OPEB Liability and related ratios that must be included in Required Supplementary Information (RSI). We have assumed that the System will not restate results for any period prior to the adoption of GASB 74 or 75, so only results for the years since adoption are shown. Additional periods within the five year window will be added in the future.

#### Reconciliation of Changes in the Plan's Total OPEB Liability (TOL)

(\$ in Thousands)							
Fiscal Years Ending on June 30	2019		2018		2017	2016	2015
Total OPEB Liability (TOL)							
Service Cost	\$	87,313	\$ 132,392	\$	148,220		
Interest on the TOL		105,702	133,597		111,129		
Changes of benefit terms		(339,076)	(1,044,628)		0		
Difference between expected and actual experience		66,502	217,853		0		
Changes of assumptions or other inputs		182,438	(196,049)		(370,549)		
Net benefit payments		<u>(55,154)</u>	 (110,622)		(84,071)		
Net change in TOL	\$	47,725	\$ (867,457)	\$	(195,271)		
TOL—beginning of period	\$	2,671,315	\$ 3,538,772	\$	3,734,043		
TOL—end of period	\$	2,719,040	\$ 2,671,315	\$	3,538,772		

#### Reconciliation of Changes in the Plan's Fiduciary Net Position (FNP) and Net OPEB Liability / (Asset) (NOL)

(\$ in Thousands)								
Fiscal Years Ending on June 30		2019		2018		2017	2016	2015
TOL—end of period	(a)	\$ 2,719,040	\$	2,671,315	\$	3,538,772		
Fiduciary Net Position (FNP)								
Contributions – State of Connecticut		\$ 35,320	\$	35,299	\$	19,922		
Contributions – active member		51,944		51,484		50,436		
Net investment income		1,090		411		369		
Net benefit payments		(55,154)		(110,622)		(84,071)		
Administrative expenses		(383)		(264)		(150)		
Other		 (16,100)		0		42		
Net change in FNP		\$ 16,717	\$	(23,692)	\$	(13,452)		
FNP—beginning of period		\$ 39,736	\$	63,428	\$	76,880		
FNP—end of period	(b)	\$ 56,453	\$	39,736	\$	63,428		
FNP as a percentage of the TOL	[(b) / (a)]	2.08%		1.49%		1.79%		
Net OPEB Liability / (Asset) (NOL)—6 [(a) – (b)]	end of period	\$ 2,662,587	\$	2,631,579	\$	3,475,344		
Covered Payroll <sup>1</sup>		\$ 4,389,654	\$	4,075,939	\$	4,279,755		
NOL as a percentage of Covered Pay	roll	60.66%		64.56%		81.20%		

<sup>&</sup>lt;sup>1</sup> Covered Payroll provided by the System for active employees who would be eligible for benefits at retirement.

#### **Schedule of Governmental Nonemployer Contributing Entity Contributions**

(\$ in Thousands) Fiscal Year										
Ending on June 30	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Actuarially Determined State Contribution	\$ 167,819	\$ 172,223	\$ 166,802	\$ 130,331	\$ 125,620	\$ 187,227	\$ 180,460	\$ 184,145	\$ 177,063	\$ 121,334
Contributions in relation to the Actuarially Determined Contribution	35,320	35,299	19,922	19,960	<u>25,145</u>	<u>25,955</u>	27,040	49,486	5,312	12,108
Annual Contribution Deficiency (Excess)	\$ 132,499	\$ 136,924	\$ 146,880	\$ 110,371	\$ 100,475	\$ 161,272	\$ 153,420	\$ 134,659	\$ 171,751	\$ 109,226
Covered Payroll <sup>2</sup>	\$4,389,654	\$4,075,939	\$4,279,755	\$4,125,066	\$4,078,367	\$3,930,957	\$4,101,750	\$3,943,990	\$3,823,754	\$3,676,686
Actual Contributions as a Percentage of Covered Payroll	0.80%	0.87%	0.47%	0.48%	0.62%	0.66%	0.66%	1.25%	0.14%	0.33%

 $<sup>^{2}</sup>$  Covered Payroll provided by the System for active employees who would be eligible for benefits at retirement.



## Schedule B — Summary of Actuarial Assumptions and Methods

#### **ECONOMIC AND OTHER ASSUMPTIONS AND METHODS**

#### **Discount Rate**

3.50% per year for all periods after June 30, 2019 (adopted June 30, 2019).

#### **Expected Long-term Rate of Return on Assets**

3.00% per year, net of investment expenses, for all periods after June 30, 2018 (adopted June 30, 2018).

#### **Expected Long-term Rates of Inflation**

**CPI:** 2.50% per year for all periods after June 30, 2019.

MEDICAL CPI: 3.25% per year for all periods after June 30, 2019.

#### **Expected Long-term Real Wage Growth**

0.75% per year for all periods after June 30, 2019.

#### **Expected Long-term Wage Inflation**

3.25% per year for all periods after June 30, 2019. This rate does not reflect any expected future increase in the number of active members.

#### **Expected Administrative Expenses Included in Service Cost**

None.

#### **Municipal Bond Index Rate Basis**

The 20-Bond average General Obligation 20-year Municipal Bond Rate published at the end of the last week during the month of June by The Bond Buyer (www.bondbuyer.com) was used as the 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate required under GASB rules.

#### **Measurement Date**

June 30, 2019

#### **Measurement Period**

July 1, 2018 to June 30, 2019



#### **Long-term Health Care Cost Trend Rates**

Annual per capita health care claims costs are expected to increase in future years as a result of medical inflation, utilization, leverage in the plan design, and improvements in technology adjusted for any implicit and/or explicit cost containment features. Initial health care cost trend rates were selected based on an analysis of national average health trend surveys specific to similarly structured plans for Medicare-eligible participants.

The assumed annual assumed rates of increases in retiree expected health care claims costs and contributions<sup>1</sup> during each period subsequent to the valuation date are shown in the table below (adopted June 30, 2018).

Fiscal Year Beginning July 1,	Medicare Supplement Plan Claims / Contributions	Medicare Advantage Plan Claims	Medicare Advantage Plan Contributions
2018	5.95%	5.00%	0.00%
2019	5.90%	5.00%	0.00%
2020	5.80%	5.00%	5.00%
2021	5.70%	5.00%	5.00%
2022	5.60%	5.00%	5.00%
2023	5.35%	5.00%	5.00%
2024	5.10%	5.00%	5.00%
2025	4.75%	5.00%	5.00%
2026	4.75%	4.95%	4.95%
2027	4.75%	4.85%	4.85%
2028+	4.75%	4.75%	4.75%

A 7.00% trend rate for the fiscal year ending on the valuation date, and a 7.25% trend rate for all periods prior to July 1, 2017, were used to project health care claim costs and contributions backward from the valuation year to entry year in measurements of benefit obligations based on the Entry Age Normal (Level Percentage of Pay) actuarial cost method.



#### **DEMOGRAPHIC ASSUMPTIONS**

The demographic actuarial assumptions for retirement, disability incidence, and withdrawal were developed based on the results of an actuarial experience study for the five-year period from July 1, 2010 to June 30, 2015, adopted by the System, and prescribed for use in the Plan's June 30, 2018 actuarial valuation.

#### **Expected Annual Subsidies for Local School District Coverage**

#### **FUTURE RETIREES AND DEPENDENTS**

The lesser of \$1,320 per year (\$110 per month) and the Maximum Annual Subsidy for all future retired members and dependents who are expected to be covered under local school district OPEB plans in future periods.

#### **CURRENT RETIREES AND DEPENDENTS**

The lesser of the annualized actual monthly subsidy amounts provided by the System for retired members and dependents who are covered under local school district OPEB plans as of June 30, 2018 and the applicable Maximum Annual Subsidy. Reported subsidies are expected to increase each year based on the assumed long-term health care cost trend rates for Medicare Supplement Plans until the Maximum Annual Subsidy is reached.

The following table provides Maximum Annual Subsidy amounts for Medicare-ineligible and Medicare-eligible members and dependents who are receiving health care coverage under a local school district OPEB plan:

Medicare Status	Maximum Annual Subsidy
Ineligible	\$1,320 per year (\$110 per month)
Eligible	\$2,640 per year (\$220 per month) for those without "premium free" Medicare Part A, and contribute at least \$220 per month for coverage under a local school district plan;
	\$1,320 per year (\$110 per month), otherwise.

The Maximum Annual Subsidies provided in the table above have not increased since July of 1996. Our understanding is that these types of benefit improvements would not be considered "substantially automatic" (as that term is defined in GASB 74 and 75) based on the Plan's history of such changes. As a result, the Maximum Annual Subsidy Amounts shown above are not expected to increase in any future period.



#### **Expected Annual Per Capita Health Care Claims Costs**

#### **MEDICAL AND PRESCRIPTION DRUGS**

Assumed annual per capita health care claims costs were developed for the Medicare Supplement Plan and the Medicare Advantage Plan based on the medical and prescription drug premium / premium equivalent rates for each plan and period provided by the System. Our understanding is that these premium / premium equivalent rates include all relevant medical, prescription drug, and/or third-party administrative costs, and represent the amounts paid by the System as "the full contribution amount" for each coverage provided.

Age-adjusted health care premium / premium equivalent rates for covered adults were trended forward to the midpoint of the measurement period. The expected annual age 65 per capita health care claims costs for the Medicare Supplement Plan and Medicare Advantage Plan for the year following the valuation date are shown below:

Expected Annual Age 65 Per Capita Claims Cost for	
Medicare Supplement Plans	\$2,961
Medicare Advantage Plans	\$1,714

Future experience may differ significantly from the cost estimates presented in this report due to unforeseen and random events, including, but not limited to, any event that would affect one or more insurers' ability to provide coverage under the terms of the Plan, any significant change to existing Department of Health and Human Services (HHS) and/or Centers for Medicare & Medicaid Services (CMS) regulations, and/or any insolvency of Social Security and/or Medicare Trust Funds on any future date. As such, these results should be viewed as having a likely range of variability.

#### AFFORDABLE CARE ACT (ACA)

The impact of the Affordable Care Act (ACA) was addressed in this valuation. A review of the information currently available did not identify any specific provisions of the ACA that are anticipated to significantly impact results. While the impact of certain provisions—if applicable—such as the future implementation of the excise tax on high-value health insurance plans, mandated benefits, and participation changes due to the individual mandate should be recognized in the determination of liabilities, overall future plan costs and the resulting liabilities are driven by amounts employers and retirees can afford (i.e., trend). As stated previously, the trend assumption forecasts the anticipated increase to initial per capita costs, taking into account health care cost inflation, increases in benefit utilization, plan changes, government-mandated benefits, and technological advances. Given the uncertainty regarding the ACA's implementation, continued monitoring of the ACA's impact on the Plan's liability will be required.

#### **AGE RELATED MORBIDITY**

Expected annual age 65 per capita health care claims costs are adjusted to reflect anticipated age-related cost changes. The assumed annual percentage increases in expected annual per capita health care costs/net incurred claims that were used to adjust Medicare Supplement and Medicare Advantage Plan amounts from one age to the next are provided in the following table for both retirees and their dependents (adopted June 30, 2018):



Payment Age	Medicare Supplement Annual Increase	Medicare Advantage Annual Increase
Under 30	0.000%	0.000%
30 – 34	0.329%	0.329%
35 – 39	-0.077%	-0.077%
40 – 44	1.566%	1.566%
45 – 49	3.992%	3.992%
50 – 54	5.076%	5.076%
55 – 59	3.928%	3.928%
60 – 64	0.141%	0.141%
65 – 69	2.468%	4.741%
70 – 74	1.764%	2.239%
75 – 79	1.123%	1.090%
80 – 84	0.129%	0.000%
85 – 89	0.000%	0.000%
Over 89	0.000%	0.000%

#### **Mortality and Mortality Improvement Rates**

#### **Pre-Retirement**

The table below provides pre-retirement mortality rates for males and females at sample ages:

Annual Rates of Pre-Retirement Mortality					
Age	Male	Female	Age	Male	Female
20	0.0377%	0.0147%	45	0.0818%	0.0622%
25	0.0412%	0.0162%	50	0.1476%	0.1116%
30	0.0404%	0.0205%	55	0.2800%	0.1927%
35	0.0448%	0.0272%	60	0.4557%	0.2914%
40	0.0539%	0.0375%	64	0.6572%	0.4272%

#### **Postretirement**

RPH-2014 White Collar mortality table with healthy employee and annuitant rates blended from ages 50 to 80 with projected mortality improvements to the year 2020 using Scale BB and further adjusted to grade-in increases (5% for females and 8% for males) to rates over age 80.

#### **Post-Disablement**

RPH-2014 disabled retiree mortality table with projected mortality improvements to the year 2017 using the MP-2014 improvement scale.



#### **Retirement Rates**

The following table contains age and service based annual rates of retirement at sample ages:

			Annual Rates	of Retirement		
	<u>Unre</u>	<u>duced</u>	<u>Pror</u>	<u>atable</u>	Red	<u>ıced</u>
Age	Male	Female	Male	Female	Male	Female
50	27.5%	27.5%			1.00%	1.00%
55	38.5%	27.5%			4.00%	4.75%
60	22.0%	27.5%	6.0%	5.5%		
65	36.3%	32.5%	13.0%	12.5%		
70	100.0%	32.5%	30.0%	14.5%		
75	100.0%	32.5%	30.0%	18.0%		
80	100.0%	100.0%	100.0%	100.0%		

#### **Withdrawal Rates**

The following table contains service based annual rates of withdrawal (separation from service for causes other than death, disability, or retirement) for males and females:

Annual Rates of Withdrawal					
Years of	10 or More Years of Service				
Service	Male	Female	Age	Male	Female
0	14.00%	12.00%	25	1.50%	4.00%
1	11.00%	10.50%	30	1.50%	4.00%
2	8.00%	8.75%	35	1.50%	3.50%
3	6.50%	7.50%	40	1.50%	2.30%
4	4.50%	6.75%	45	1.59%	1.50%
5	3.50%	6.00%	50	2.04%	2.00%
6	3.00%	5.25%	55	3.44%	2.50%
7	2.75%	4.75%	59	4.00%	2.90%
8	2.50%	4.25%			
9	2.50%	4.00%			



#### **Disability Rates**

The table below provides age based annual rates of disability for males and females at sample ages:

Annual Rates of Disability				
Age	Male	Female		
20	0.0341%	0.0500%		
25	0.0341%	0.0500%		
30	0.0341%	0.0410%		
35	0.0341%	0.0410%		
40	0.0536%	0.0720%		
45	0.1219%	0.1200%		
50	0.2438%	0.2630%		
55	0.5363%	0.4380%		
60	0.9604%	0.5000%		

#### **Rates of Annual Salary Increases**

Rates of annual salary increases are constructed geometrically based on the expected long-term rate of inflation (currently, 2.50%), an expected productivity component (currently, 0.75%), and a variable expected merit component that is dependent on years of service. The following table provides a sample of the service-based rates of salary increases that are used to project a member's total salary as of the valuation date to future years.

Years of Service	Total Increase (Next Year)
Under 2	6.50%
2 – 9	6.25%
10 – 11	5.50%
12 – 14	5.00%
15	4.75%
16	4.50%
17	4.25%
18	4.00%
19	3.75%
20	3.50%
Over 20	3.25%



#### **Decrement Timing and Adjustment**

Decrements—retirement, withdrawal, death, and disability—are assumed to occur at the middle of the year, except that 100% retirement is assumed to occur at the beginning of the year. Decrement rates (or "probabilities") are assumed to be uniformly distributed throughout the year, and reflect multiple decrement effects.

## Subsidized Local School District Coverage and System-Sponsored Health Care Plan Participation Rates<sup>1</sup>

#### **FUTURE RETIREES AND DEPENDENTS**

The table below provides the percentage of future retired members and dependents who are expected to be covered under local school district OPEB plans or the System-sponsored health care plan options in future periods.

Membership Class	Subsidized Local School District Coverage	System-Sponsored Health Care Plans
Pre-65 Members	60.0%	N/A
Post-64 Members	20.0%	60.0%
Pre 65 Spouses/Survivors*	45.0%	N/A
Post-64 Spouses/Survivors*	40.0%	45.0%

<sup>\*</sup> Percentage of participating members electing spouse coverage.

#### **CURRENT RETIREES AND DEPENDENTS—ENROLLED**

All current retirees and dependents who are eligible for Medicare as of the valuation date are assumed to continue current coverage. For retirees and surviving spouses who are not eligible for Medicare and are covered under local school district OPEB plans as of the valuation date, the following table shows the assumed migration from subsidized local school district coverage to a System-sponsored health care plan option at age 65:

Membership Class	Assumed Percentage Electing Subsidized Local School District Coverage On or After Age 65	Assumed Percentage Electing System-Sponsored Health Care Plans On or After Age 65	
Pre-65 Members	25.0%	75.0%	
Pre-65 Spouses/Survivors*	47.1%	52.9%	

<sup>\*</sup> Percentage of participating members electing spouse coverage.

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Long-term Plan participation and spouse coverage election and enrollment rates are uncertain due to the recent plan change that became effective on July 1, 2018, and future experience may differ significantly from the assumptions that were used to measure Plan obligations as of June 30, 2018. As such, these assumptions will need to be reviewed as experience evolves, and the results provided in this report should be viewed as having a likely range of variability.



#### CURRENT RETIREES AND DEPENDENTS—NOT ENROLLED

50% of retired members who are not eligible for Medicare, are currently receiving a retirement or disability benefit, but are not participating in the Plan, are expected to be covered under a System-sponsored health care plan option at age 65. Of these participants, 50% are assumed to cover a spouse (adopted June 30, 2018).

Of those participating, the percentage of current and future retirees and surviving spouses who are assumed to enroll in the coverage options available on July 1, 2018 are shown in the table below. In each future year that begins on or after July 1, 2019, 50% of the current and future retirees and surviving spouses are expected to choose the Medicare Advantage Plan in lieu of their existing Medicare Supplement Plan coverage (adopted June 30, 2018). The first five years of the aforementioned progression are illustrated in the table below.

	Grandfathered Members		All Other M	embers
Initial Enrollment Percentages Beginning on	Medicare Supplement Plan	Medicare Advantage Plan	Medicare Supplement Plan	Medicare Advantage Plan
July 1, 2018	25.00%	75.00%	15.00%	85.00%
July 1, 2019	12.50%	87.50%	7.50%	92.50%
July 1, 2020	6.25%	93.75%	3.75%	96.25%
July 1, 2021	3.13%	96.87%	1.88%	98.12%
July 1, 2022	1.56%	98.44%	0.94%	99.06%
			•••	

#### Assumed Eligibility for "Premium Free" Medicare Part A Benefits

#### **FUTURE RETIREES AND DEPENDENTS**

100% of future Medicare-eligible retirees and dependents are expected to be eligible for "premium free" Medicare Part A benefits.

#### **CURRENT RETIREES AND DEPENDENTS**

0% of retired members and dependents who are currently receiving a subsidy equal to \$2,640 per year (\$220 per month) as of June 30, 2018 are expected to be eligible for "premium free" Medicare Part A benefits. Otherwise, 100% of retired members and dependents are expected to be eligible for these benefits when they reach age 65 or, if they are older, their attained age on the valuation date.



#### **Assumed Commencement Age for Eligible Deferred Vested Members**

Eligible deferred vested members and their dependents are expected to begin receiving health care benefits when members reach age 60 or, if they are older, the member's attained age on the valuation date.

The following table contains the age based assumed percentages of deferred vested members who will become ineligible for future health care benefits because they are expected to withdraw their contributions from the System (adopted June 30, 2018):

Attained Ages on the Later of the Valuation Date or Date of Decrement								
Under Age 55	Age 56	Age 57	Age 58	Age 59	Over Age 59			
30.00%	24.00%	18.00%	12.00%	6.00%	0.00%			

#### **Marital and Spouse Assumptions**

#### **FUTURE RETIREES**

100% of future retired members are assumed to be married to a spouse of the opposite gender. Husbands are assumed to be three years older than their wives.

#### **CURRENT RETIREES**

Actual spouse age is used where available. If relevant spouse information is not available, husbands are assumed to be three years older than their wives.

#### **Valuation Date**

June 30, 2018

#### **Benefits Not Valued**

Dental, vision, and hearing benefits for retirees and their dependents are paid by the retiree on a full cost basis, and without an implicit subsidy. As a result, no dental, vision, or hearing benefit liabilities are included in the Plan's GASB 74 results as of June 30, 2019.



#### **Changes Since the Prior Valuation**

The June 30, 2018 measurements used in the development of June 30, 2019 financial accounting results for the Plan reflect the following prescribed changes in assumptions and methods:

- Based on the procedure described in GASB 74, the discount rate used to measure Plan obligations for financial accounting purposes as of June 30, 2019 was updated to equal the Municipal Bond Index Rate of 3.50% as of June 30, 2019;
- Expected annual per capita claims costs were updated to better reflect anticipated medical and prescription drug claim experience both before and after the plan change that became effective on January 1, 2019; and
- The expected rate of inflation was decreased, and the Real Wage Growth assumption was increased.

The aggregate effect of the changes described above was an increase in the Plan's Total OPEB Liability and Service Cost measured as of June 30, 2019.

#### Schedule C — Summary of Actuarial Cost and Amortization Methods

#### **Actuarial Cost Method**

The 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 3.50%), of each member's expected benefits at retirement is determined, based upon age, service, and gender. The calculations take into account the probability of a member's death 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 retired members and beneficiaries 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 the valuation is known as the Entry Age Normal (Level Percentage of Pay) actuarial cost method, and has the following characteristics:

- (i) The annual normal costs for each individual active participant are sufficient to accumulate the value of the participant's postemployment benefits at time of retirement.
- (ii) Each annual normal cost is a constant percentage of the participant's year-by-year projected covered compensation.

The Entry Age Normal (Level Percentage of Pay) actuarial cost method allocates the actuarial present value of each participant's projected benefits on a level basis over the participant's assumed compensation rates between the entry age of the participant and the assumed ages at which the participant will leave active service.

The portion of the actuarial present value allocated to the valuation year is called the service cost (SC). The portion of the actuarial present value of expected benefits not provided for by the actuarial present value of future service costs is called the Total OPEB Liability (TOL). The difference between the TOL and the Actuarial Asset Value is the Net OPEB Liability / (Asset) (NOL).

The actuarial cost method is prescribed by GASB 74 and 75 for financial accounting purposes.

#### **Asset Valuation Method**

The Actuarial Asset Value for financial accounting purposes is equal to the market value of plan assets.

The asset valuation method is prescribed by GASB 74 and 75 for financial accounting purposes.



#### **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 June 30, 2018.

Please see the June 30, 2018 Funding and Plan Accounting Report for additional information about the data, assumptions, methods, and plan provisions used to prepare financial accounting results as of the June 30, 2019 measurement date.

#### **Changes in Assumptions and Methods Since the Previous Valuation**

There were no changes in actuarial cost or amortization methods since the previous valuation on June 30, 2018.

#### Schedule D — Summary of Main Plan Provisions for Valuation Purposes

This summary of main plan provisions is intended to describe only the principal features of the Retiree Health Insurance Plan (RHIP, or the Plan), a cost-sharing, other than insured, defined benefit OPEB plan with a special funding situation sponsored by the Connecticut State Teachers' Retirement System (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.

#### **Key Plan Terms**

#### **COVERED EMPLOYEES**

Any teacher, principal, superintendent or supervisor engaged in service of public schools, plus professional employees at State schools of higher education if they choose to be covered.

#### **CREDITED SERVICE**

One month for each month of service as a teacher in Connecticut public schools, maximum 10 months for each school year. Ten months of credited service constitutes one year of Credited Service. Certain other types of teaching service, State employment, or wartime military service may be purchased prior to retirement, if the Member pays one-half the cost.

#### NORMAL RETIREMENT

Eligibility—Age 60 with 20 years of Credited Service in Connecticut, or 35 years of Credited Service including at least 25 years of service in Connecticut.

#### **EARLY RETIREMENT**

Eligibility—25 years of Credited Service including 20 years of Connecticut service, or age 55 with 20 years of Credited Service including 15 years of Connecticut service.

#### PRORATABLE RETIREMENT

Eligibility—Age 60 with 10 years of Credited Service.

#### **DISABILITY RETIREMENT**

Eligibility—5 years of Credited Service in Connecticut if not incurred in the performance of duty and no service requirement if incurred in the performance of duty.

#### **TERMINATION OF EMPLOYMENT**

Eligibility—10 or more years of Credited Service.

#### **Teachers' Required Contribution**

1.25% of annual salaries in excess of \$500,000 is contributed for health insurance of retired teachers.

#### **State Contribution**

The State pays for one third of the costs through an annual appropriation in the General Fund. Administrative costs of the Plan are financed by the State. Based upon Chapter 167a, Subsection D of Section 10-183t of the Connecticut statutes, it is assumed the State will pay for any long-term shortfall arising from insufficient active member contributions.



#### **Retiree Health Care Coverage**

Any member who is currently receiving a retirement or disability benefit is eligible to participate in the Plan. There are two types of the health care benefits offered through the system. Subsidized Local School District Coverage provides a subsidy paid to members still receiving coverage through their former employer and the CTRB Sponsored Medical Plans provide coverage for those participating in Medicare, but not receiving Subsidized Local School District Coverage.

Any member who is not currently participating in Medicare Parts A & B is eligible to continue health care coverage with their former employer. A subsidy of up to \$110 per month for a retired member plus an additional \$110 per month for a spouse enrolled in a local school district plan is provided to the school district to first offset the retiree's share of the cost of coverage, any remaining portion is used to offset the district's cost. The subsidy amount is set by statute, and has not increased since July of 1996. A subsidy amount of \$220 per month may be paid for a retired member, spouse or the surviving spouse of a member who has attained the normal retirement age to participate in Medicare, is not eligible for Part A of Medicare without cost, and contributes at least \$220 per month towards coverage under a local school district plan.

Any member that is currently participating in Medicare Parts A & B is eligible to either continue health care coverage with their former employer, if offered, or enroll in the plan sponsored by the System. If they elect to remain in the plan with their former employer, the same subsidies as above will be paid to offset the cost of coverage.

If a member participating in Medicare Parts A & B so elects, they may enroll in one of the CTRB Sponsored Medicare Supplement Plan(s). Effective July 1, 2018, the System added a Medicare Advantage Plan option. Active members, retirees, and the State pay equally toward the cost of the basic coverage (medical and prescription drug benefits) under the Medicare Advantage plan. Retired members who choose to enroll in the Medicare Supplement Plan are responsible for the full difference in the premium cost between the two plans. Additionally, effective July 1, 2018, retired members who cancel their health care coverage(s) or elect not enroll in a CTRB sponsored health care coverage option must wait two years to re-enroll.

#### **Survivor Health Care Coverage**

Survivors of former employees or retirees remain eligible to participate in the Plan and continue to be eligible to receive either the \$110 monthly subsidy or participate in the CTRB Sponsored Medicare Supplement or Medicare Advantage Plan options, as long as they do not remarry.

#### **System Determined Monthly Retiree Contributions Since 2014**

Eligible retirees who elect to enroll in a health care coverage option under the Plan contribute a monthly amount based on the coverages that they selected during the enrollment process. Effective January 1, 2015, new enrollees will only be able to elect the "all coverages" package (Medical with Prescription Drugs, Dental, Vision and Hearing). Existing retired members and dependents were grandfathered into the health care option elections that they had made prior to January 1, 2015.



The following tables provide the monthly health care contributions for retiree and dependent coverage options during the periods beginning on January 1, 2014 and ending on January 1, 2019.

Monthly Funding Rates for the CTRB Sponsored Medicare Supplemental Plan Options								
Coverage	2014	2015	2016	2017	Jan. 1 2018	July 1 2018	Jan. 1 2019	
Medical with Prescriptions	\$97	\$91	\$95	\$92	\$101	\$199	\$173	
Medical with Prescriptions and Dental	\$141	\$136	\$143	\$136	\$151	\$254	\$231	
Medical with Prescriptions, Dental, Vision & Hearing	\$146	\$140	\$148	\$141	\$156	\$259	\$238	

Monthly Funding Rates for the CTRB Sponsored Medicare Advantage Plan Options								
Coverage	2014	2015	2016	2017	Jan. 1 2018	July 1 2018	Jan. 1 2019	
Medical with Prescriptions	N/A	N/A	N/A	N/A	N/A	\$74	\$65	
Medical with Prescriptions and Dental	N/A	N/A	N/A	N/A	N/A	\$129	\$123	
Medical with Prescriptions, Dental, Vision & Hearing	N/A	N/A	N/A	N/A	N/A	\$134	\$130	

#### **Changes in Plan Provisions Since the Previous Valuation**

The Plan was amended by the Board, effective January 1, 2019, during the September 12, 2018 meeting. The Board elected a new prescription drug plan, which is expected to reduce overall costs and allow for the Board to receive a government subsidy for members whose claims reach a catastrophic level. These changes were communicated to retired members during the months leading up to the open enrollment period that preceded the January 1, 2019 implementation date.

We have reflected these changes in the measurement of the Plan's benefit obligations for Plan accounting purposes as of June 30, 2019.