



Nashville City Teachers Retirement Plan

ACTUARIAL VALUATION REPORT

as of July 1, 2025

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Introduction

This report has been prepared for the exclusive use of the Metropolitan Board of Public Education. The report summarizes the results of the actuarial valuation of the Nashville City Teachers Retirement Plan as of July 1, 2025. The purpose of the report is to provide an updated measurement of the plan's liabilities and provide information that will inform the financing of the plan and the financial reporting related to the plan. This report provides actuarial advice and does not constitute legal, accounting, tax or investment advice.

The actuarial calculations contained in the report are built on deterministic actuarial modeling, making a single determination of liabilities and costs. Further, these actuarial calculations are based on a combination of demographic and asset data, as well as assumptions concerning future changes in these data. As such, the actuarial calculations contained herein are an estimate of projected future occurrences.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; and changes in plan provisions or applicable law. Due to the limited scope of the assignment, we did not perform an analysis of the potential range of such future measurements. A more detailed discussion of plan-related risks is included herein.

Certification

By signature below, I attest the following:

This report has been prepared under my supervision; I am a member of the American Academy of Actuaries, a Fellow of the Society of Actuaries, and a consulting actuary with USI Consulting Group, and have met the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions herein. To the best of our knowledge this report has been prepared in accordance with generally accepted actuarial standards, including the overall appropriateness of the analysis, assumptions, and results and conforms to appropriate Standards of Practice as promulgated from time to time by the Actuarial Standards Board, which standards form the basis for the actuarial report. We are not aware of any direct or material indirect financial interest or relationship, including investment management or other services that could create, or appear to create, a conflict of interest that would impair the objectivity of our work.

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Summary of Report

An actuarial valuation of the Nashville Teachers City Retirement Plan was performed as of July 1, 2025. The purpose of the valuation was to examine the liabilities and to determine an actuarially determined contribution sufficient to fund the plan. Prior to the implementation of the Guaranteed Payment Program, benefits were financed on a "pay as you go" basis.

Beginning on July 1, 2000, the Plan became a portion of the Guaranteed Payment Program (GPP), an umbrella plan created by the state and local government to ensure actuarially sound funding for a group of five plans supervised by the Metro Benefit Board and the Board of Education. Under the GPP, unfunded liabilities of the aggregate plan are amortized over a period of no more than thirty years. Payments for the Plan move to a payment account from which distributions are paid to the constituent plans of the GPP as necessary to satisfy current benefit needs and to satisfy funding objectives of the GPP. Funding issues that are specific to the GPP are addressed in a separate report.

Comparison of Plan Information from Recent Valuations

	2025*	2024	2023*	2022	2021*
Retired Participants					
Number	27	30	39	43	49
Average Age	92.24	91.54	90.94	89.93	89.00
Gross Pensions	\$1,130,751	\$1,206,739	\$1,641,390	\$1,728,534	\$1,904,761
Total Participants	27	30	39	43	49
Present Value of Future Benefits	\$3,319,775	\$3,973,769	\$5,411,687	\$5,835,602	\$6,804,559
Actuarial Value of Assets	2,993,966	962,965	962,965	962,965	962,965
Funded Status	90.19%	24.23%	17.79%	16.50%	14.15%
Assumed Rate of Return	5.50%	4.50%	4.50%	5.50%	5.50%

* Indicates a change in actuarial assumptions and/or actuarial methods.

The Actuarial Computations section sets forth details of the determination of an actuarially determined contribution. The Basis of Valuation section of this report sets forth a summary of benefits provided under the Nashville City Teachers Retirement Plan, summarizes the actuarial assumptions on which the valuation was based, and summarizes the employee data on which this valuation was based.

The Administrative Retirement Committee adopted a change in actuarial assumptions (lowering the discount rate) for 2021 that increased the present value of future benefits by 7.3%. In 2023 the Administrative Retirement Committee adopted a change in actuarial assumptions (lowering the discount rate) that increased the present value of future benefits by 3.8%. In 2025 the Administrative Retirement Committee adopted a change in actuarial assumptions (increasing the discount rate) that decreased the present value of future benefits by 6.0%

All calculations made in this report have been made utilizing employee data supplied by the Metropolitan Board of Public Education, asset information supplied by the Metropolitan Government of Nashville and Davidson County, and the actuarial assumptions summarized herein.



Actuarial Computations

Determination of Actuarially Determined Contribution

The exhibit below shows the determination of the Actuarially Determined Contribution for the plan year beginning July 1, 2025. The determination is made on an approximate basis.

Present Value of Benefits (Net of State Reimbursements)	
Active Lives	\$ 0
Retired Lives	<u>3,319,775</u>
Total	\$ 3,319,775
Less Actuarial Value of Assets	<u>(2,993,966)</u>
Present Value of Future Costs	\$ 325,809
Amortization Period from Valuation Date *	5.0 Years
Level Dollar Amortization of Future Costs from Valuation Date	72,319
Interest Adjustment for Mid-year Payment	<u>1,989</u>
Actuarially Determined Contribution *	\$ 74,308

- * The above determination is an estimate that may be trued-up upon the determination of the actual benefit payments during the year.

Basis of Valuation

Summary of Actuarial Assumptions

Unless noted below, all assumptions are a combination of estimated future experience and estimates inherent in market data or plan experience.

Mortality Rates

110% of the Pub-2010 Teachers mortality table (fully generational) with mortality improvement projected forward from 2010 using mortality improvement scale MP-2021.

Pre-Retirement Decrements

Not applicable

Salary Scale

Not applicable

Discount Rate/Rate of Investment Return

5.50% per annum

Cost of Living Increases

3.00% per annum

Actuarial Valuation Method

Entry Age Normal – with Level Dollar Amortization

The actuarial liabilities shown in this report are determined using software purchased from an outside vendor which was developed for this purpose. Certain information is entered into this model in order to generate the liabilities. These inputs include economic and non-economic assumptions, plan provisions, and census information. We rely on the coding within the software to value the liabilities using the actuarial methods and assumptions selected. Both the input to and the output from the model is checked for accuracy and reviewed for reasonableness.

Asset Valuation Method

Fair Market Value of Assets

LD-ROM Discount Rate

4.81% per annum, compounded annually

Based on the 6/30 S&P Municipal Bond 20-year high grade rate index



Risk Assessment Associated with Assumptions

Risk Factor	Risk Assessment
Investment	Currently the plan is largely unfunded. However, full funding of the plan is anticipated over the next five years or so if the GPP funding continues at its current pace. Due to the plan's substantial equity exposure, investment returns will likely be much more volatile than liability valuations. Therefore, as the plan becomes better funded, there is a risk that the funded status of the plan, as well as required plan contributions, could be volatile.
Assumed Rate of Return	Due to the plan's estimated duration of 1 to 2, a 1% decrease in the assumed rate of investment return would increase the liability 1% to 2%. More detailed sensitivity analysis is included in the GASB 67 reporting for this plan.
Longevity	Since benefits from the plan must generally be paid as annuities, the plan is sensitive to changes in overall population longevity. As a result, the liabilities will increase if participants live longer than expected and decrease if they live shorter than expected. This risk is largely mitigated due to the maturity of the plan population. All benefits are in pay status and the average participant age exceeds 85.
Other demographic factors	No known significant risks.
Asymmetries in formula	No known significant risks.
Inflation	Inflation is a component of both cost of living allowances (COLAs) and investment returns over a long period. As a result, changes to inflation can affect funded percentages. Retiree benefits are given increases based on increases in the Consumer Price Index (CPI), a measurement of inflation. The risk associated with the COLAs is mitigated since the annual COLA is capped at 3.0%, and the assumed COLA is the maximum 3.0%. So, any impact on plan liabilities due to variations of actual COLAs from assumed COLAs can only result in gains, and not losses.

Low-Default-Risk Obligation Measurement	In accordance with Actuarial Standards of Practice (ASOP) No. 4, the actuary is required to provide a “Low-Default-Risk Obligation Measurement” (LDROM). The intended purpose of the measurement is to show how the pension obligation could hypothetically be settled on the measurement date using current interest rate conditions. This may provide additional information regarding the security of benefits that members have earned. This is not intended to be a precise calculation as assumptions such as early retirement provisions, lump sum election percentages, and various other assumptions may need to be revised to reflect a terminal liability. This disclosure is required and does not imply the plan sponsor has considered or is considering the termination of this plan and may not be appropriate for other uses. As of the valuation date, the Low-Default-Risk Obligation for the plan is \$3,3978,070. Using LDROM interest rates the Plan is 88.13% funded compared to a funded level of 90.19% using the Plan’s ongoing interest rates
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USI Consulting Group can perform more detailed assessments of these risks as desired by the plan sponsor to provide a better understanding of the risks.

This summary is not a Summary Plan Description or a Plan document. You should not rely solely on this summary in making a determination of eligibility for the Plan or its benefits.

Summary of Provisions of the Plan

Eligibility All teachers in the Nashville City schools hired prior to April 1, 1963, are eligible under the plan.

Retirement Dates

a. Normal Retirement Date Age 60 with 15 years of service, or prior to age 60 with 25 years of service.

b. Early Retirement Date Completion of 15 years of service.

Retirement Income

a. Normal Age 60 with 15 years of service – 2.50% of highest annual salary per year of service, not to exceed 60% of pay;
Prior to age 60 with 25 years of service – 2.00% of highest annual salary per year of service, not to exceed 60% of pay.

b. Early A benefit deferred to age 60, calculated as above.

Normal Form of Payment Single life annuity

Cost of Living Adjustments Each July 1, up to 3% of the original retirement benefit is added to a member's retirement benefit. The percentage increase is based on the increase in the Consumer Price Index (all items--United States city average), but will not exceed 3%. In any year when the change of CPI is less than a 1% increase, there is no benefit adjustment made on the following July 1.

**Death Benefit
(After Retirement)** None.



Summary of Participant Data

Distribution of Active Participants - None

Distribution of Inactive Participants with Average Annual Benefit

Age Group	Number	Annual Pensions (Gross)	
		Total	Average
0 - 64	0	\$0	\$0
65 - 69	0	0	0
70 - 74	0	0	0
75 - 79	0	0	0
80 - 84	0	0	0
85 - 89	9	349,892	38,877
90+	18	780,859	43,381
TOTAL	27	\$1,130,751	\$41,880