Vermont State Employees' Retirement System

Governmental Accounting Standards Board Statement 67 Actuarial Valuation Report as of June 30, 2023







November 28, 2023

Board of Trustees Vermont State Employees' Retirement System Montpelier, Vermont 05609

Dear Board Members:

We are pleased to submit this Governmental Accounting Standards Board (GASB) Statement No. 67 Accounting Valuation as of June 30, 2023, for the Vermont State Employees' Retirement System, a single-employer defined benefit pension plan, based on a June 30, 2023, measurement date. It contains the actuarial information that will need to be disclosed in order to comply with GASB 67.

It is important to note that GASB 67 only defines pension liability for financial reporting purposes and does not apply to contribution amounts for pension funding purposes. The assumptions used in this valuation are the same as those in the Actuarial Valuation and Review report as of June 30, 2022, dated October 25, 2022, except as noted herein. Additional details can be found in that report.

This report was prepared in accordance with generally accepted actuarial principles and practices at the request of the Board to assist the Board and the member units in preparing their financial reports. The financial information on which our calculations were based was provided by the Office of the State Treasurer. That assistance is gratefully acknowledged.

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

The actuarial calculations were directed under the supervision of Matthew A. Strom, FSA, MAAA, EA. I am a member of the American Academy of Actuaries and I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of my knowledge, the information supplied in this actuarial valuation is complete and accurate.

The investment return and inflation assumptions were selected by the Vermont Pension Investment Commission (VPIC). The remaining actuarial assumptions used in this actuarial valuation were selected by the Board based upon our analysis and recommendations. In my opinion, the assumptions are reasonable and take into account the experience of the Plan and reasonable expectations.

I look forward to reviewing this report with you and to answering any questions.

Sincerely,

Segal

Matthew A. Strom, FSA, MAAA, EA Senior Vice President and Actuary



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Section 1: Valuation Summary

Important information about actuarial valuations

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

Plan of benefits	Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits.
Participant data	An actuarial valuation for a plan is based on data provided to the actuary by the System. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
Assets	The valuation is based on the market value of assets as of the valuation date, as provided by the System. The System uses an "actuarial value of assets" that differs from market value to gradually reflect year-to-year changes in the market value of assets in determining the contribution requirements.
Actuarial assumptions	In preparing an actuarial valuation, Segal projects the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. This projection requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year. In addition, the benefits projected to be paid for each of those events in each future year reflect actuarial assumptions as to salary increases and cost-of-living adjustments. The projected benefits are then discounted to a present value, based on the assumed rate of return that is expected to be achieved on the plan's assets. There is a reasonable range for each assumption used in the projection and the results may vary materially based on which assumptions are selected. It is important for any user of an actuarial valuation to understand this concept. Actuarial assumptions are periodically reviewed to ensure that future valuations reflect emerging plan experience. While future changes in actuarial assumptions may have a significant impact on the reported results, that does not mean that the previous assumptions were unreasonable.
Modeling	Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Deterministic cost projections are based on a proprietary forecasting model. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the direction of the supervising actuary.

Section 1: Valuation Summary

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

The actuarial valuation is prepared at the request of the Vermont State Employees' Retirement System. Segal is not responsible for the use or misuse of its report, particularly by any other party.

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

Sections of this report may include actuarial results that are not rounded, but that does not imply precision.

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

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

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

Section 1: Valuation Summary

Purpose and basis

This report has been prepared by Segal to present certain disclosure information required by Governmental Accounting Standards Board Statement No. 67 as of June 30, 2023. This report, based on unaudited financial information as of June 30, 2023, provided by the Office of the State Treasurer and the Vermont State Employees' Retirement System Actuarial Valuation Report as of June 30, 2022, dated October 25, 2022, reflects:

- The benefit provisions of the Pension Plan, as administered by the Board; and
- The characteristics of covered active members, inactive members, and retired members and beneficiaries as of June 30, 2022, provided by the Office of the State Treasurer.

The assumptions are the same as shown in the Vermont State Employees' Retirement System Actuarial Valuation Report as of June 30, 2022, except as noted herein. Total Pension Liability as of June 30, 2023, reflects changes to actuarial assumptions that were adopted as part of the Actuarial Experience Review dated September 18, 2023.

Highlights of the valuation

The following key findings were the result of this actuarial valuation:

- The Net Pension Liability (NPL) is equal to the difference between the Total Pension Liability (TPL) and the Plan's Fiduciary Net
 Position. The Plan's Fiduciary Net Position is equal to the market value of assets and, therefore, the NPL measure is very similar
 to an Unfunded Actuarial Accrued Liability (UAAL) on a market value basis. The NPL increased from \$1.12 billion as of
 June 30, 2022, to \$1.16 billion as of June 30, 2023, and the Plan's Fiduciary Net Position as a percent of the TPL increased from
 66.95% to 67.69%.
- The NPL, measured as of June 30, 2023, was determined based on the results of the actuarial valuation as of June 30, 2022, adjusted using standard actuarial techniques, and updated to reflect changes in the following assumptions: salary increases, assumed COLAs, death after retirement, death in active service, inactive vested retirement, and disability incidence. The NPL, measured as of June 30, 2022, was determined based on the results of the actuarial valuation as of June 30, 2021, adjusted using standard actuarial techniques.
- The discount rate used to determine the TPL and NPL as of June 30, 2023, and June 30, 2022, was 7.00%.

Exhibit 1 – Net Pension Liability

The components of the Net Pension Liability of the Vermont State Employees' Retirement System are as follows:

	June 30, 2023	June 30, 2022
Total Pension Liability	\$3,579,984,506	\$3,400,578,949
Plan Fiduciary Net Position	2,423,230,404	2,276,645,124
System's Net Pension Liability	1,156,754,102	1,123,933,825
Plan Fiduciary Net Position as a percentage of the Total Pension Liability*	67.69%	66.95%

^{*} These funded percentages are not necessarily appropriate for assessing the sufficiency of Plan assets to cover the estimated cost of settling the Plan's benefit obligation or the need for or the amount of future contributions.

Actuarial assumptions. The Total Pension Liability as of June 30, 2023, was determined by rolling forward the Total Pension Liability as of June 30, 2022, to June 30, 2023, using the following actuarial assumptions:

Investment rate of return	7.00%, net of pension plan investment expense, including inflation			
Inflation	2.30%			
Salary increases	Ranging from 3.76	6% to 6.38%		
Cost of Living Adjustments	For active Group A, C, F, and G members who are first eligible for normal or unreduced early retirement on or after July 1, 2022, and for active Group D members who are first appointed or elected on or after July 1, 2022:			
	 Group A Assumed to occur on January 1 following two years of retirement at the rate of 2.25% per annum. The January 1 2023, COLA was 5.00%¹. The January 1, 2024, COLA is expected to be 2.20%¹. 			
	 Group C Assumed to occur on January 1 following two years of retirement at the rate of 2.10% per annum. The January 2023, COLA was 4.00%¹. The January 1, 2024, COLA is expected to be 2.20%¹. 			
	¹ These amounts were required to be calculated in 2023 and 2024 as a result of Act 114; however, they will not be applied to any members in 2023 or 2024.			



Cost of Living Adjustments • Group D (continued)

Assumed to occur on January 1 following two years of retirement at the rate of 2.25% per annum on the first \$75,000 of retirement benefits paid and 1.10% per annum on retirement benefits paid above \$75,000. The January 1, 2023, COLA was 5.00%¹ on the first \$75,000 of retirement benefits paid and 2.50%¹ on retirement benefits paid above \$75,000. The January 1, 2024, COLA is expected to be 2.20%¹ on the first \$75,000 of retirement benefits paid and 1.10%¹ on retirement benefits paid above \$75,000.

Group F/G

Assumed to occur on January 1 following two years of retirement at the rate of 2.15% per annum. For members hired before July 1, 2008, assumed to begin two years after the attainment of age 62 for deferred retirements. For members hired on or after July 1, 2008, assumed to begin two years after the attainment of age 65 for deferred retirements. The January 1, 2023, COLA was 4.00%1. The January 1, 2024, COLA is expected to be 2.20%¹.

For all other members:

- Groups A/C/D
- Assumed to occur on January 1 following one year of retirement at the rate of 2.25% per annum. The January 1, 2023, COLA was 5.00%. The January 1, 2024, COLA is expected to be 2.20%.
- Groups E/F

Assumed to occur on January 1 following one year of retirement at the rate of 1.25% per annum (beginning one year after the attainment of age 62 for deferred retirements) for members who retired on or before June 30, 2008. The January 1, 2023, COLA was 2.50%. The January 1, 2024, COLA is expected to be 1.10%.

For members retiring on or after July 1, 2008, assumed to occur on January 1 following one year of retirement at the rate of 2.35% per annum. For members hired before July 1, 2008, assumed to begin one year after the attainment of age 62 for deferred retirements. For members hired on or after July 1, 2008, assumed to begin one year after the attainment of age 65 for deferred retirements. The January 1, 2023, COLA was 5.00%. The January 1, 2024, COLA is expected to be 2.20%.

¹These amounts were required to be calculated in 2023 and 2024 as a result of Act 114; however, they will not be applied to any members in 2023 or 2024.



Mortality

Pre-Retirement:

Groups A/F – PubG-2010 General Employee Amount-Weighted Table with generational projection using scale MP-2021

Group C/G – PubS-2010 Public Safety Employee Amount-Weighted Table with generational projection using scale MP-2021

Group D* – PubG-2010 General Employee Amount-Weighted Above Median Table with generational projection using scale MP-2021

* 30% of deaths are assumed to be accidental

Healthy Post-Retirement - Retirees:

Groups A/F – PubG-2010 General Healthy Retiree Amount-Weighted Table with credibility adjustments of 101% and 105% for the Male and Female tables, respectively, with generational projection using scale MP-2021

Group C/G – PubS-2010 Public Safety Retiree Amount-Weighted Table with generational projection using scale MP-2021

Group D – PubG-2010 General Healthy Retiree Amount-Weighted Above Median Table with generational projection using scale MP-2021

Healthy Post-Retirement - Beneficiaries:

Groups A/F/C/G – Pub-2010 Contingent Survivor Amount-Weighted Table with generational projection using scale MP-2021

Group D – Pub-2010 Contingent Survivor Amount-Weighted Above Median Table with generational projection using scale MP-2021

Disabled Post-Retirement:

Groups A/F/D – PubNS-2010 Non-Safety Disabled Retiree Amount-Weighted Table with generational projection using scale MP-2021

Group C/G – PubS-2010 Safety Disabled Retiree Amount-Weighted Table with generational projection using Scale MP-2021

The tables with the generational projection to the ages of members as of the measurement date reasonably reflect the mortality experience of the System as of the measurement date. The mortality rates were based on historical and current demographic data, adjusted to reflect health characteristics of the underlying groups and estimated future experience and professional judgment. The mortality tables were then adjusted to future years using the generational projection to reflect future mortality improvement between the measurement date and those years.

Determination of discount rate and investment rates of return

The long-term expected rate of return on pension plan investments was determined using a building-block method in which bestestimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of June 30, 2023, are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return*
Global Equities	44.00%	5.35%
Private Equity	10.00%	7.50%
Emerging Market Debt	2.00%	5.00%
Private and Alternative Credit	10.00%	5.50%
Non-Core Real Estate	4.00%	5.50%
Core Fixed Income	19.00%	1.50%
Core Real Estate	4.00%	3.25%
US TIPS	2.00%	1.50%
Infrastructure/Farmland	<u>5.00%</u>	4.25%
	100.00%	
	100.0070	

^{*} Calculated as the Arithmetic Rates of Return minus the Rate of Inflation, as provided by the Vermont State Treasurers' Office

Discount rate: The discount rate used to measure the Total Pension Liability was 7.00%. In accordance with paragraph 43 of GASB 67, professional judgement was applied to determine that the System's projected Fiduciary Net Position exceeds projected benefit payments for current active and inactive members for all years. Our analysis was based on the expectation that the employer will continue to contribute an amount at least equal to the actuarially determined contribution, which is comprised of an employer normal cost payment and a payment to reduce the unfunded liability to zero by June 30, 2038, in accordance with Vermont statute. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

Discount rate sensitivity

Sensitivity of the Net Pension Liability to changes in the discount rate. The following presents the Net Pension Liability, calculated using the discount rate of 7.00%, as well as what the Net Pension Liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.00%) or 1-percentage-point higher (8.00%) than the current rate:

		Current	
	1% Decrease (6.00%)	Discount Rate (7.00%)	1% Increase (8.00%)
Net Pension Liability as of June 30, 2023	\$1,611,168,253	\$1,156,754,102	\$781,298,115

Exhibit 2 – Schedule of changes in Net Pension Liability – last ten fiscal years

			Year End June 30,		
	2023	2022	2021	2020	2019
Total Pension Liability					
Service cost	\$73,319,150	\$67,751,943	\$70,993,081	\$53,009,586	\$51,945,814
Interest	236,673,222	226,513,442	214,277,050	204,548,093	194,126,755
Differences between expected and actual experience	38,771,090	74,200,948	59,817,790	5,122,992	40,475,950
Changes of assumptions	16,346,222	0	0	209,786,856	0
Changes of benefit terms	0	-49,146,013	0	0	0
Benefit payments, including refunds of employee contributions	<u>-185,704,127</u>	<u>-173,791,473</u>	<u>-160,290,898</u>	<u>-153,025,531</u>	<u>-144,296,719</u>
Net change in Total Pension Liability	\$179,405,557	\$145,528,847	\$184,797,023	\$319,441,996	\$142,251,800
Total Pension Liability – beginning	\$3,400,578,949	\$3,255,050,102	3,070,253,079	2,750,811,083	2,608,559,283
Total Pension Liability – ending (a)	\$3,579,984,506	\$3,400,578,949	\$3,255,050,102	\$3,070,253,079	\$2,750,811,083
Plan Fiduciary Net Position					
Contributions – employer	\$116,387,502	\$197,523,008	\$88,944,172	\$84,429,972	\$66,617,894
Contributions – employee	48,580,695	44,654,960	42,113,318	40,902,188	40,818,039
Net investment income	168,509,405	-215,473,911	497,422,655	78,964,510	106,777,462
Benefit payments, including refunds of employee contributions	-185,704,127	-173,791,473	-160,290,898	-153,025,531	-144,296,719
Administrative expenses	-2,578,013	-2,352,151	-2,280,512	-2,268,390	-2,246,008
Other	<u>1,389,818</u>	<u>862,283</u>	<u>247,032</u>	<u>594,069</u>	<u>298,872</u>
Net change in Fiduciary Net Position	146,585,280	-148,577,284	466,155,767	49,596,818	\$67,969,540
Plan Fiduciary Net Position – beginning	<u>2,276,645,124</u>	2,425,222,408	<u>1,959,066,641</u>	1,909,469,823	<u>1,841,500,283</u>
Plan Fiduciary Net Position – ending (b)	\$2,423,230,404	\$2,276,645,124	\$2,425,222,408	\$1,959,066,641	\$1,909,469,823
Net Pension Liability – ending: (a)-(b)	\$1,156,754,102	\$1,123,933,825	\$829,827,694	\$1,111,186,438	\$841,341,260
Plan's Fiduciary Net Position as a percentage of the Total Pension Liability	67.69%	66.95%	74.51%	63.81%	69.41%
Covered-employee payroll	\$576,951,813	\$552,316,523	\$551,981,002	\$527,571,033	\$521,670,606
Net Pension Liability as a percentage of covered-employee payroll	200.49%	203.49%	150.34%	210.62%	161.28%

Note: Covered-employee payroll reflects actual compensation amounts from the prior Plan year.

Exhibit 2 – Schedule of changes in Net Pension Liability – last ten fiscal years *(continued)*

			Year End June 30,		
	2018	2017	2016	2015	2014
Total Pension Liability					
Service cost	\$49,743,850	\$42,703,770	\$47,012,283	\$41,786,352	\$39,368,808
Interest	180,860,845	178,958,654	171,562,804	164,404,550	156,634,668
Differences between expected and actual experience	83,265,679	19,283,274	25,051,322	3,979,303	0
Changes of assumptions	0	42,724,968	-21,853,404	62,246,999	0
Changes of benefit terms	0	0	0	0	0
Benefit payments, including refunds of employee contributions	<u>-134,090,344</u>	<u>-126,479,801</u>	<u>-120,093,586</u>	<u>-111,396,184</u>	<u>-104,492,554</u>
Net change in Total Pension Liability	\$179,780,030	\$157,190,865	\$101,679,419	\$161,021,020	\$91,510,922
Total Pension Liability – beginning	2,428,779,253	2,271,588,388	2,169,908,969	2,008,887,949	<u>1,917,377,027</u>
Total Pension Liability – ending (a)	\$2,608,559,283	\$2,428,779,253	\$2,271,588,388	\$2,169,908,969	\$2,008,887,949
Plan Fiduciary Net Position					
Contributions – employer	\$64,564,323	\$60,280,480	\$54,347,060	\$55,881,364	\$56,482,985
Contributions – employee	40,423,239	35,966,987	34,055,217	33,296,248	31,745,692
Net investment income	123,632,169	170,358,016	17,962,424	-8,484,694	203,721,748
Benefit payments, including refunds of employee contributions	-134,090,344	-126,479,801	-120,093,586	-111,396,184	-104,492,554
Administrative expenses	-1,720,253	-1,776,653	-1,468,605	-1,858,854	-1,158,183
Other	<u>248,855</u>	<u>443,113</u>	<u>-13,597</u>	<u>177,491</u>	<u>453,853</u>
Net change in Fiduciary Net Position	\$93,057,989	\$138,792,142	-\$15,211,087	-\$32,384,629	\$186,753,541
Plan Fiduciary Net Position – beginning	1,748,442,294	<u>1,609,650,152</u>	<u>1,624,861,239</u>	1,657,245,868	<u>1,470,492,327</u>
Plan Fiduciary Net Position – ending (b)	\$1,841,500,283	\$1,748,442,294	\$1,609,650,152	\$1,624,861,239	\$1,657,245,868
Net Pension Liability – ending: (a)-(b)	\$767,059,000	\$680,336,959	\$661,938,236	\$545,047,730	\$351,642,081
Plan's Fiduciary Net Position as a percentage of the Total Pension Liability	70.59%	71.99%	70.86%	74.88%	82.50%
Covered-employee payroll	\$504,553,289	\$471,268,111	\$462,057,022	\$437,675,917	\$416,766,302
Net Pension Liability as a percentage of covered-employee payroll	152.03%	144.36%	143.26%	124.53%	84.37%

Note: Covered-employee payroll reflects actual compensation amounts from the prior Plan year.

Notes to Exhibit 2:

Changes in Assumptions:

Effective for the June 30, 2023, actuarial valuation, the following assumptions were updated:

- Assumed rates of salary increase were increased based on plan experience.
- COLA assumptions were decreased as follows:
 - Active Group A, C, F, and G members first eligible for normal or unreduced early retirement on or after July 1, 2022, and active Group D members first appointed or elected on or after July 1, 2022:
 - Group A: decreased from 2.40% to 2.25%.
 - Group C: decreased from 2.15% to 2.10%.
 - Group D:
 - First \$75,000 of retirement benefits paid: decreased from 2.40% to 2.25%.
 - Retirement benefits paid above \$75,000: decreased from 1.15% to 1.10%.
 - Groups F and G: decreased from 2.25% to 2.15%.
 - All other members:
 - Groups A, C, and D: decreased from 2.40% to 2.25%.
 - Groups E and F Retired on or before June 30, 2008: decreased from 1.35% to 1.25%.
 - Groups E and F Retired on or after July 1, 2008: decreased from 2.40% to 2.35%.
- Mortality assumptions were updated as follows:
 - Pre-Retirement:
 - Groups A and F: PubG-2010 General Employee Amount-Weighted Table with no credibility adjustments.
 - Group D: PubG-2010 General Employee Amount-Weighted Above Median Table with no credibility adjustments.
 - Healthy Post-Retirement Retirees:
 - Groups A and F: PubG-2010 General Healthy Retiree Amount-Weighted Table for males and females with credibility adjustments of 101% and 105%, respectively, of the rates for all ages.

- Group C and G: PubS-2010 Public Safety Retiree Amount-Weighted Table with no credibility adjustments.
- Healthy Post-Retirement Beneficiaries:
 - Group C and G: Pub-2010 Contingent Survivor Amount-Weighted Table with no credibility adjustments.
- Disabled Post-Retirement:
 - Groups C and G: PubS-2010 Safety Disabled Retiree Amount-Weighted Table with no credibility adjustments.
- The mortality improvement scale was updated to MP-2021 for all assumptions for all groups.
- Assumed inactive vested retirement rates for all pre-Normal Retirement Ages were decreased to 15%.
- Assumed disability rates were decreased as follows:
 - Groups A, D, and F: rates were uniformly decreased by 40% for all ages.
 - Group C: rates were uniformly decreased by 25% for all ages.

Changes in Plan Provisions: There have been no changes in plan provisions since the last measurement date.

Exhibit 3 – Schedule of contributions – last ten fiscal years

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	2023	2022	2021	2020	2019
Actuarially determined contribution	\$116,038,400	\$119,967,769	\$83,876,570	\$78,943,914	\$62,984,742
Contributions in relation to the actuarially determined contribution*	116,387,502	197,523,008**	88,944,172	84,429,972	66,617,894
Contribution deficiency (excess)	-\$349,102	-\$77,555,239	-\$5,067,602	-\$5,486,058	-\$3,633,152
Covered-employee payroll	\$576,951,813	\$552,316,523	\$551,981,002	\$527,571,033	\$521,670,606
Contributions as a percentage of covered-employee payroll	20.17%	35.76%	16.11%	16.00%	12.77%

	2018	2017	2016	2015	2014
Actuarially determined contribution	\$52,065,397	\$48,503,358	\$46,237,853	\$44,651,783	\$40,217,666
Contributions in relation to the actuarially determined contribution*	64,564,323	60,280,480	<u>54,347,060</u>	<u>55,881,364</u>	<u>56,482,985</u>
Contribution deficiency (excess)	-\$12,498,926	-\$11,777,122	-\$8,109,207	-\$11,229,581	-\$16,265,319
Covered-employee payroll	\$504,553,289	\$471,268,111	\$462,057,022	\$437,675,917	\$416,766,302
Contributions as a percentage of covered-employee payroll	12.80%	12.79%	11.76%	12.77%	13.55%

^{*} Includes a portion of the contribution amount denoted as "other" in Exhibit 2.

Note: Actuarially determined contributions for a given fiscal year are based on results from the June 30 actuarial valuation two years prior.

^{**} Includes an additional one-time payment of \$75 million per Act 114.

Notes to Exhibit 3:

Valuation date	Actuarially determined contribution for the year ending June 30, 2023, is based on results from the June 30, 2021, actuarial valuation, and was calculated as of June 30, with appropriate interest to the middle of the fiscal year.
Actuarial cost method	Entry Age Normal actuarial cost method
Amortization method	Amortization payments calculated to fully fund unfunded actuarial accrued liability with annual increases of 3% over a closed period.
Remaining amortization period	17 years as of July 1, 2021
	The amortization of unfunded actuarial accrued liability (UAAL) within the actuarially determined contribution rate calculation is based on payments increasing at 3% per year required to amortize the UAAL over the 30-year closed period that began July 1, 2008.
Asset valuation method	The amount of the assets for valuation purposes equals the preliminary asset value plus 20% of the difference between market and preliminary asset values. The preliminary asset value is equal to the previous year's asset value (for valuation purposes) adjusted for contributions less benefit payments and expenses plus expected investment income. If necessary, a further adjustment is made to ensure that the valuation assets are within 20% of the market value.
Actuarial assumptions:	
Investment rate of return	7.00%, net of pension plan investment expenses, including inflation
Inflation rate	2.30%
Projected salary increases	Ranging from 3.40% to 5.55% based on service

Mortality	Pre-Retirement:
	Groups A/F – 60% of PubG-2010 General Employee Amount-Weighted Above Median, 40% of PubG-2010 General Employee Amount-Weighted with generational projection using scale MP-2019
	Group C – PubS-2010 Public Safety Employee Amount-Weighted with generational projection using scale MP-2019
	Group D* – 70% of PubG-2010 General Employee Amount-Weighted Above Median, 30% of PubG-2010 General Employee Amount-Weighted with generational projection using scale MP-2019
	Healthy Post-Retirement - Retirees:
	Groups A/F – 109% of PubG-2010 General Healthy Retiree Amount-Weighted with generational projection using scale MP-2019
	Group C – 40% of PubS-2010 Public Safety Retiree Amount-Weighted Above Median, 60% of PubS-2010 Public Safety Retiree Amount-Weighted with generational projection using scale MP-2019
	Group D – PubG-2010 General Healthy Retiree Amount-Weighted Above Median with generational projection using scale MP-2019
	Healthy Post-Retirement - Beneficiaries:
	Groups A/F – Pub-2010 Contingent Survivor Amount-Weighted with generational projection using MP-2019
	Group C – 40% of Pub-2010 Contingent Survivor Amount-Weighted Above Median, 60% of Pub-2010 Contingent Survivor Amount-Weighted with generational projection using MP-2019
	Group D – Pub-2010 Contingent Survivor Amount-Weighted Above Median with generational projection using MP-2019
	Disabled Post-Retirement:
	All Groups – PubNS-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table with generational projection using scale MP-2019
	The tables with the generational projection to the ages of members as of the measurement date reasonably reflect the mortality experience of the System as of the measurement date. The mortality rates were based on historical and current demographic data, adjusted to reflect health characteristics of the underlying groups and estimated future experience and professional judgment. The mortality tables were then adjusted to future years using the generational projection to reflect future mortality improvement between the measurement date and those years.
	* 30% of deaths are assumed to be accidental
Other assumptions	Same as those used in the June 30, 2021, funding actuarial valuation.

Exhibit I: Actuarial Assumptions and Methods

Rationale for Assumptions:	valuation is show the Economic Ex	n in the Actuarial Experien perience Study (as prepare	ng each assumption that has a significant effect on this actuarial ce Review dated September 18, 2023 (as prepared by Segal) and in do by the Gabriel Roeder Smith actuarial consulting firm) adopted by on during their meeting on July 25, 2023.	
Roll-forward Techniques:	Actuarial Valuation Pension Liability	The results as of June 30, 2023, are based on the results of the Vermont State Employees' Retirement System Actuarial Valuation Report as of June 30, 2022, adjusted forward, using standard actuarial techniques. Total Pension Liability as of June 30, 2023, reflects changes to actuarial assumptions that were adopted as part of the Actuarial Experience Review dated September 18, 2023.		
Inflation:	2.30%.	2.30%.		
Investment Return:	market expectation that reflects inflation	ons, and professional judgr	term estimate derived from historical data, current and recent nent. As part of the analysis, a building block approach was used pated risk premiums for each of the portfolio's asset classes, as well	
Salary Increases:	Service	Annual Rate of Salary Increase (%)		
	0	6.38		
	5	5.67		
	10	5.04		
	15	4.71		
	20	4.42		
	20 25	4.42 4.29		
	25	4.29		

Cost-of-Living Adjustments (COLA):		A, C, F, and G members who are first eligible for normal or unreduced early retirement on or after for active Group D members who are first appointed or elected on or after July 1, 2022:			
	Group A	Assumed to occur on January 1 following two years of retirement at the rate of 2.25% per annum. The January 1, 2023, COLA was 5.00% ¹ . The January 1, 2024, COLA is expected to be 2.20% ¹ .			
	Group C	Assumed to occur on January 1 following two years of retirement at the rate of 2.10% per annum. The January 1, 2023, COLA was 4.00%¹. The January 1, 2024, COLA is expected to be 2.20%¹.			
	Group D	Assumed to occur on January 1 following two years of retirement at the rate of 2.25% per annum on the first \$75,000 of retirement benefits paid and 1.10% per annum on retirement benefits paid above \$75,000. The January 1, 2023, COLA was 5.00%¹ on the first \$75,000 of retirement benefits paid and 2.50%¹ on retirement benefits paid above \$75,000. The January 1, 2024, COLA is expected to be 2.20%¹ on the first \$75,000 of retirement benefits paid and 1.10%¹ on retirement benefits paid above \$75,000.			
	Group F/G	Assumed to occur on January 1 following two years of retirement at the rate of 2.15% per annum. For members hired before July 1, 2008, assumed to begin two years after the attainment of age 62 for deferred retirements. For members hired on or after July 1, 2008, assumed to begin two years after the attainment of age 65 for deferred retirements. The January 1, 2023, COLA was 4.00%1. The January 1, 2024, COLA is expected to be 2.20%1.			
	For all other members:				
	Groups A/C/D	Assumed to occur on January 1 following one year of retirement at the rate of 2.25% per annum. The January 1, 2023, COLA was 5.00%. The January 1, 2024, COLA is expected to be 2.20%.			
	Groups E/F	Assumed to occur on January 1 following one year of retirement at the rate of 1.25% per annum (beginning one year after the attainment of age 62 for deferred retirements) for members who retired on or before June 30, 2008. The January 1, 2023, COLA was 2.50%. The January 1, 2024, COLA is expected to be 1.10%.			
		For members retiring on or after July 1, 2008, assumed to occur on January 1 following one year of retirement at the rate of 2.35% per annum. For members hired before July 1, 2008, assumed to begin one year after the attainment of age 62 for deferred retirements. For members hired on or after July 1, 2008, assumed to begin one year after the attainment of age 65 for deferred retirements. The January 1, 2023, COLA was 5.00%. The January 1, 2024, COLA is expected to be 2.20%.			
		vere required to be calculated in 2023 and 2024 as a result of Act 114; however, they will not be mbers in 2023 or 2024.			

Mortality Rates:	Pre-Retirement:					
	Groups A/F	PubG-2010 General Employee Amount-Weighted Table with generational projection using scale MP-2021				
	Group C/G	PubS-2010 Public Safety Employee Amount-Weighted Table with generational projection using scale MP-2021				
	• Group D*	PubG-2010 General Employee Amount-Weighted Above Median Table with generational projection using scale MP-2021				
	Healthy Post-Retirement - Retirees:					
	Groups A/F	PubG-2010 General Healthy Retiree Amount-Weighted Table with credibility adjustments of 101% and 105% for the Male and Female tables, respectively, with generational projection using scale MP-2021				
	Group C/G	PubS-2010 Public Safety Retiree Amount-Weighted Table with generational projection using scale MP-2021				
	Group D	PubG-2010 General Healthy Retiree Amount-Weighted Above Median Table with generational projection using scale MP-2021				
	Healthy Post-Retirement - Beneficiaries:					
	Groups A/F/C/G	Pub-2010 Contingent Survivor Amount-Weighted Table with generational projection using scale MP-2021				
	Group D	Pub-2010 Contingent Survivor Amount-Weighted Above Median Table with generational projection using scale MP-2021				
	Disabled Post-Retirement:					
	Groups A/F/D	PubNS-2010 Non-Safety Disabled Retiree Amount-Weighted Table with generational projection using scale MP-2021				
	Groups C/G	PubS-2010 Safety Disabled Retiree Amount-Weighted Table with generational projection using Scale MP-2021				
	the mortality experience	enerational projection to the ages of members as of the measurement date reasonably reflect ce of the System as of the measurement date. The mortality tables were then adjusted to generational projection to reflect future mortality improvement between the measurement				
	* 30% of deaths are as	ssumed to be accidental.				

Separation from Service before Retirement (Due to Withdrawal and Disability):

Representative values of the assumed annual rates of withdrawal and disability are as follows:

Rate (%)

	Withdrawal Groups A/D¹				Disability ²	
Ulti	Ultimate Rates		ease Factors			
Age	Male/Female	Service	Male/Female	Age	Groups A/D/F	Group C
25	4.9066	1	4.000	25	0.0095	0.0578
30	3.9275	3	2.500	30	0.0122	0.0743
35	3.2826	5	1.900	35	0.0163	0.0994
40	3.0392	7	1.600	40	0.0244	0.1485
45	2.6920	9	1.300	45	0.0399	0.2426
50	2.2464			50	0.0633	0.4091
55	1.8346			55	0.1117	0.6810
60	3.9019	_		60	0.1803	

^{20%} of disability incidents are assumed to be accidental for Group C and 10% of disability incidents are assumed to be accidental for all other members.

Withdrawal Group C

	Williaman Group	<u> </u>
Service	Male	Female
0	10.800	21.600
1	6.480	12.960
2	5.400	10.800
3	3.456	6.912
4	3.456	6.912
5	3.456	6.912
6-19	3.240	6.480
20+	0.000	0.000

² The Ultimate Rates are multiplied by the Increase Factors during the first 10 years of service.

Separation from Service before Retirement (Due to Withdrawal and Disability) *(continued)*:

	Withdrawal Group F ¹				
Ultimate Rates 0-10 Years of Service Increase Fa		se Factors		ate Rates ² ars of Service	
Age	Male/Female	Service	Male/Female	Age	Male/Female
25	6.3933%	0	2.850	25	4.2200%
30	5.1207	2	2.300	30	3.3800
35	4.2723	4	1.550	35	2.8200
40	3.9542	6	1.300	40	2.6100
45	3.5148	8	1.150	45	2.3200
50	2.9240			50	1.9300
55	2.4695			55	1.6300
60	2.4695			60	1.6300

The Ultimate Rates are multiplied by the Increase Factors during the first 10 years of service.

Retirement Rates:

Retirement	Group F1	
	-	

			mone Croup	· ·	
Age	Male	Female	Age	Male	Female
40-52	20.00%	10.00%	63	17.50%	15.00%
53	15.00	10.00	64	20.00	15.00
54	15.00	10.00	65	22.50	20.00
55	5.00	5.00	66	25.00	30.00
56	5.00	5.00	67	25.00	30.00
57	5.00	5.00	68	25.00	30.00
58	5.00	7.50	69	25.00	30.00
59	7.50	7.50	70+	100.00	100.00
60	7.50	7.50			
61	15.00	12.50			
62	25.00	25.00			

¹ All Group A and D members are assumed to retire when first eligible.

Withdrawal Rates are 0.00% for all Group F members with 30+ years of service

Retirement Rates (continued):			Retirement Group C ²	
		Age	Male/Female	
		50	50.00%	
		51	10.00	
		52	10.00	
		53	10.00	
		54	5.00	
		55	5.00	
		56	5.00	
		57+	100.00	
	² Effective July 1, 2022, the mandato	ory retirement	age for Group C members w	ras increased from age 55 to age 57.
Inactive Members as Reported by	Not Vested: Valuation liability equals 1	00% of accu	mulated contributions.	
the System:	Vested: Valuation liability based on acc Retirement Age for each year until Nor Normal Retirement Age with a deferred	mal Retireme	ent Age, then 100% of me	
Deferred Members as Reported by the System:	Valuation liability based on accrued benefit and 15% of members are assumed to retire from Early Retirement Age for each year until Normal Retirement Age, then 100% of members are assumed to retire at their Normal Retirement Age with a deferred vested benefit.			
Unknown Data for Members:	Same as those exhibited by members with similar known characteristics. If not specified, members are assumed to be male.			
Percent Married:	Groups A/D 75.4% of male member	rs and 64.0%	6 of female members are	assumed to be married.
	Group C 73.3% of male member	rs and 61.0%	6 of female members are	assumed to be married.
	Group F 71.4% of male member	rs and 63.1%	6 of female members are	assumed to be married.
Age of Spouse:	Females three years younger than mal	es.		
Benefit Election:	Non-Group C All members are assumed to elect the single life annuity option.			uity option.
	• Group C Single membe elect the 70%			uity. Married members are assumed to
Actuarial Cost Method:	Entry Age Actuarial Cost Method. Entry minus years of service. Normal Cost a allocated by salary, with Normal Cost o	nd Actuarial	Accrued Liability are calcu	llated on an individual basis and are

Changes in Actuarial Assur

Effective for the June 30, 2023, actuarial valuation, the following actuarial assumptions were changed according to past experience and future expectations:

- · Salary Increase,
- Assumed COLAs,
- · Death After Retirement,
- Death in Active Service,
- Inactive Vested Retirement, and
- Disability Incidence.

Exhibit II: Summary of Plan Provisions

This exhibit summarizes the major provisions of the Plan included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

Effective Date:	July 1, 1972 (for	July 1, 1972 (for consolidated system).		
Creditable Service:	Service as a member plus purchased service.			
Average Final Compensation (AFC):	 Groups A/F Group C Group D	Average annual compensation during highest 3 consecutive years. Average annual compensation during highest 2 consecutive years. For active members who retire on or after July 1, 2022, and do not meet one of the following two requirements: (1) at least age 57 with 5 or more years of service as a judge in Group D as of June 30, 2022; (2) Group D as of June 30, 2022, with 15 or more years of service: - Average annual compensation during final 2 years of service. For all other members: - Annual compensation during final year of service.		
Normal Retirement – Eligibility:	 Group A Group C Group D	Earlier of age 65 with 5 years of service or age 62 with 20 years of service. Age 55. For members first appointed or elected on or before June 30, 2022: - Age 62 with 5 years of service. For members first appointed or elected on or after July 1, 2022: - Age 65 with 5 years of service.		
	Group F	Age 62 or 30 years of service. For members hired after June 30, 2008, age 65 or a sum of age plus service greater than or equal to 87.		
Normal Retirement – Amount:	Group AGroup C	1.67% of AFC times service. 2.50% of AFC times service, up to a maximum benefit cap of 50% of AFC. The maximum benefit cap is increased by 1.5% of AFC for each year worked after attaining the later of age 50 or 20 years of benefit service, applied prospectively to service worked after July 1, 2022.		

Normal Retirement – Amount (continued):	Group D	For active members who retire on or after July 1, 2022, and do not meet one of the followir two requirements: (1) at least age 57 with 5 or more years of service as a judge in Group D as of June 30, 2022; (2) Group D as of June 30, 2022, with 15 or more years of service: - 3.33% of AFC times service, up to a maximum benefit cap of 80% of AFC.			ice as a judge in Group D more years of service:
		For all other members: - 3.33% of AFC times service, up to a maximum benefit cap of 100% of AFC.			0% of AFC.
	Group F	1.25% of AFC times service prior to January 1, 1991, plus 1.67% of AFC times service after 1990, up to a maximum benefit cap of 50% of AFC. For members hired on or after July 1, 2008, the maximum benefit cap is 60% of AFC.			
Early Retirement – Eligibility:	Groups A/D	Age 55 w	ith 5 years of service	or 30 years of service.	
	Group C	Age 50 w	ith 20 years of service	э.	
	Group F	Age 55 w	ith 5 years of service.		
Early Retirement – Amount:	Group A	Actuarial equivalent of normal retirement allowance. For members with 30 years of service, there is no reduction.			
	 Group C 	Same as	normal retirement allo	owance.	
	 Group D 	For members first appointed or elected on or before June 30, 2022:			2:
		- Normal allowance reduced by 3% for each year commencement precedes age 62.			precedes age 62.
		For members first appointed or elected on or after July 1, 2022:			
		- Normal allowance reduced by 3% for each year commencement precedes age 65.			precedes age 65.
	Group F	For members hired prior to July 1, 2008, no reduction if 30 years of service; otherwise normal allowance reduced by 6% for each year commencement precedes age 62. For members hired on or after July 1, 2008, no reduction if combination of years and service equal 87; other reduced from age 65 based on the following table:			
			Years of Service	Reduction in Benefit	
			35	One-eighth of 1% per month	
			30	One-fourth of 1% per month	
			25	One-third of 1% per month	
			20	Five-twelfths of 1% per month	-
			Less than 20	Five-ninths of 1% per month	

Vesting:	All groups – 5 years of service.			
Ordinary Disability – Eligibility:	All groups – 5 years of service and incapacitated, not work related, for performance of duty.			
Ordinary Disability – Amount:		All groups – Immediate allowance based on service to date of disability. Benefit is the greatest of 25% of AFC and unreduced accrued benefit as of date of disability.		
Accidental Disability – Eligibility:	All groups – Incap	All groups – Incapacitated because of work related accident.		
Accidental Disability – Amount:	 Groups A/D/F Immediate allowance equal to the greater of 25% of AFC and unreduced accrued benefit a of date of disability. 			
	Group C	Immediate allowance equal to 50% of AFC with additional 10% of AFC for each dependent child (up to 30%).		
Ordinary Death – Eligibility:	Groups A/F Death after eligibility for early retirement or 10 years of service.			
	Groups C/D Death after normal retirement age or 10 years of service.			
Ordinary Death – Amount:	Groups A/D/F	Maximum of reduced allowance under 100% survivor option and disability allowance under 100% disability survivor option, commencing immediately.		
	Group C	70% of the allowance that would have been payable to the member plus additional allowance equal to 10% of AFC for each dependent child (up to 30%).		
Accidental Death – Eligibility:	Groups A/C/D/F – Death because of work related accident.			
Accidental Death – Amount:	Groups A/D/F Allowance equal to 25% of AFC payable to spouse.			
	Group C	Allowance equal to 35% of AFC payable to spouse plus 10% for each dependent child (up to 30%).		

Post-Retirement Adjustments:	•	For active Group A, C, F, and G members who are first eligible for normal or unreduced early retirement on or after July 1, 2022, and for active Group D members who are first appointed or elected on or after July 1, 2022:			
	Group A	Allowances in payment for at least two years, increased on each January 1 by the net percentage increase in Consumer Price Index (CPI). The maximum net percentage increase in CPI is capped at 5%. If the net percentage increase in CPI is less than 1%, members will not receive an increase.			
	Group C	Allowances in payment for at least two years, increased on each January 1 by the net percentage increase in CPI. The maximum net percentage increase in CPI is capped at 4%. If the net percentage increase in CPI is less than 1%, members will not receive an increase.			
	Group D	Allowances in payment for at least two years, increased on each January 1 by the net percentage increase in CPI on the first \$75,000 of retirement benefits paid and half of the net percentage increase in CPI on retirement benefits paid above \$75,000. The maximum net percentage increase in CPI is capped at 5%. If the net percentage increase in CPI is less than 1%, members will not receive an increase.			
	Group F/G	Allowances in payment for at least two years, increased on each January 1 by the net percentage increase in CPI. The maximum net percentage increase in CPI is capped at 4%. If the net percentage increase in CPI is less than 0%, members will not receive an increase.			
	For all other mem	nbers:			
	Groups A/C/D	Allowances in payment for at least one year, increased on each January 1 by the net percentage increase in CPI. The maximum net percentage increase in CPI is capped at 5%. If the net percentage increase in CPI is less than 1%, members will not receive an increase.			
	• Groups E/F	For members who retired on or before June 30, 2008, allowances in payment for at least one year, increased on each January 1 by half of the net percentage increase in CPI. The maximum net percentage increase in CPI is capped at 5%. If the net percentage increase in CPI is between 0-1%, members will receive a 1% increase. If the net percentage increase in CPI is less than 0%, members will not receive an increase. A Group F member in receipt of an early retirement allowance shall not receive a post-retirement adjustment until such time as the member has attained normal retirement eligibility.			
		For members who retired on or after July 1, 2008, allowances in payment for at least one year, increased on each January 1 by the net percentage increase in CPI. The maximum net percentage increase in CPI is capped at 5%. If the net percentage increase in CPI is between 0-1%, members will receive a 1% increase. If the net percentage increase in CPI is less than 0%, members will not receive an increase. A Group F member in receipt of an early retirement allowance shall not receive a post-retirement adjustment until such time as			

the member has attained normal retirement eligibility.

Optional Benefit and Death after Retirement:	Lifetime allowance or actuarially equivalent allowance with survivor benefit as elected by member upon retirement. Upon death of a Group C member, an allowance equal to 70% of the member's allowance is continue to the surviving spouse.							
Refund of Contributions:		Upon termination, if the member so elects, or if no other benefit is payable, the member's accumulated contributions with interest are refunded.						
Member Contribution Rates:	Member con	Member contributions as a percentage of earnable compensation are described in the table below:						
		Salary Percentile	FY23	FY24	FY25	FY26	FY27+	
	Group A	All	6.65%	6.65%	6.65%	6.65%	6.65%	
	Group C	All	9.03%	9.53%	10.03%	10.03%	10.03%	
		<25 th	6.65%	6.65%	6.65%	6.65%	6.65%	
	0	25 th -50 th	7.15%	7.65%	8.15%	8.15%	8.15%	
	Group D	50 th -75 th	7.15%	7.65%	8.15%	8.65%	8.65%	
		75 th +	7.15%	7.65%	8.15%	8.65%	9.15%	
		<25 th	6.65%	6.65%	6.65%	6.65%	6.65%	
	Group E	25 th -50 th	7.15%	7.65%	8.15%	8.15%	8.15%	
	Group F	50 th -75 th	7.15%	7.65%	8.15%	8.65%	8.65%	
		75 th +	7.15%	7.65%	8.15%	8.65%	9.15%	
Changes in Plan Provisions:	Aside from the future contribution rate increases shown above, there were no other changes in plan provisions since the prior valuation.							

Definitions of certain terms as they are used in Statements 67/68. The terms may have different meanings in other contexts.

Active Employees:	Individuals employed at the end of the reporting or measurement period, as applicable.		
Actual Contributions:	Cash contributions recognized as additions to a pension Plan Fiduciary Net Position.		
Actuarial Present Value of Projected Benefit Payments:	Projected benefit payments discounted to reflect the expected effects of the time value (preservalue) of money and the probabilities of payment.		
Actuarial Valuation:	The determination, as of a point in time (the actuarial valuation date), of the service cost, Tota Pension Liability, and related actuarial present value of projected benefit payments for pensions performed in conformity with Actuarial Standards of Practice unless otherwis specified by the GASB.		
Actuarial Valuation Date:	The date as of which an actuarial valuation is performed.		
Actuarially Determined Contribution:	A target or recommended contribution to a defined benefit pension plan for the reporting period, determined in conformity with Actuarial Standards of Practice based on the most recent measurement available when the contribution for the reporting period was adopted.		
Ad Hoc Cost-of-Living Adjustments (Ad Hoc COLAs):	Cost-of-living adjustments that require a decision to grant by the authority responsible for making such decisions.		
Ad Hoc Postemployment Benefit Changes:	Postemployment benefit changes that require a decision to grant by the authority responsible for making such decisions.		
Agent Employer:	An employer whose employees are provided with pensions through an agent multiple-employer defined benefit pension plan.		
Agent Multiple-Employer Defined Benefit Pension Plan (Agent Pension Plan):	A multiple-employer defined benefit pension plan in which pension plan assets are pooled for investment purposes but separate accounts are maintained for each individual employer so that each employer's share of the pooled assets is legally available to pay the benefits of only its employees.		
Allocated Insurance Contract:	A contract with an insurance company under which related payments to the insurance company are currently used to purchase immediate or deferred annuities for individual employees. Also may be referred to as an annuity contract.		

Automatic Cost-of-Living Adjustments (Automatic COLAs):	Cost-of-living adjustments that occur without a requirement for a decision to grant by a responsible authority, including those for which the amounts are determined by reference to a specified experience factor (such as the earnings experience of the pension plan) or to another variable (such as an increase in the consumer price index).		
Automatic Postemployment Benefit Changes:	Postemployment benefit changes that occur without a requirement for a decision to grant by a responsible authority, including those for which the amounts are determined by reference to a specified experience factor (such as the earnings experience of the pension plan) or to another variable (such as an increase in the consumer price index).		
Closed Period:	A specific number of years that is counted from one date and declines to zero with the passage of time. For example, if the recognition period initially is five years on a closed basis, four years remain after the first year, three years after the second year, and so forth.		
Collective Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions:	Deferred outflows of resources and deferred inflows of resources related to pensions arising from certain changes in the collective Net Pension Liability.		
Collective Net Pension Liability:	The Net Pension Liability for benefits provided through (1) a cost-sharing pension plan or (2) a single-employer or agent pension plan in circumstances in which there is a special funding situation.		
Collective Pension Expense:	Pension expense arising from certain changes in the collective Net Pension Liability.		
Contributions:	Additions to a pension plan's Fiduciary Net Position for amounts from employers, nonemployer contributing entities (for example, state government contributions to a local government pension plan), or employees. Contributions can result from cash receipts by the pension plan or from recognition by the pension plan of a receivable from one of these sources.		
Cost-of-Living Adjustments:	Postemployment benefit changes intended to adjust benefit payments for the effects of inflation.		
Cost-Sharing Employer:	An employer whose employees are provided with pensions through a cost-sharing multiple- employer defined benefit pension plan.		
Cost-Sharing Multiple-Employer Defined Benefit Pension Plan (Cost-Sharing Pension Plan):	A multiple-employer defined benefit pension plan in which the pension obligations to the employees of more than one employer are pooled and pension plan assets can be used to pay the benefits of the employees of any employer that provides pensions through the pension plan.		
Covered-Employee Payroll:	The payroll of employees that are provided with pensions through the pension plan.		

Deferred Retirement Option Program (DROP):	A program that permits an employee to elect a calculation of benefit payments based on service credits and salary, as applicable, as of the DROP entry date. The employee continues to provide service to the employer and is paid for that service by the employer after the DROP entry date; however, the pensions that would have been paid to the employee (if the employee had retired and not entered the DROP) are credited to an individual employee account within the defined benefit pension plan until the end of the DROP period.
Defined Benefit Pension Plans:	Pension plans that are used to provide defined benefit pensions.
Defined Benefit Pensions:	Pensions for which the income or other benefits that the employee will receive at or after separation from employment are defined by the benefit terms. The pensions may be stated as a specified dollar amount or as an amount that is calculated based on one or more factors such as age, years of service, and compensation. (A pension that does not meet the criteria of a defined contribution pension is classified as a defined benefit pension for purposes of Statement 68.)
Defined Contribution Pension Plans:	Pension plans that are used to provide defined contribution pensions.
Defined Contribution Pensions:	Pensions having terms that (1) provide an individual account for each employee; (2) define the contributions that an employer is required to make (or the credits that it is required to provide) to an active employee's account for periods in which that employee renders service; and (3) provide that the pensions an employee will receive will depend only on the contributions (or credits) to the employee's account, actual earnings on investments of those contributions (or credits), and the effects of forfeitures of contributions (or credits) made for other employees, as well as pension plan administrative costs, that are allocated to the employee's account.
Discount Rate:	The single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the total of the following: 1. The actuarial present value of benefit payments projected to be made in future periods in which (a) the amount of the pension Plan Fiduciary Net Position is projected (under the requirements of Statement 68) to be greater than the benefit payments that are projected to be made in that period and (b) pension plan assets up to that point are expected to be invested using a strategy to achieve the long-term expected rate of return, calculated using the long-term expected rate of return on pension plan investments. 2. The actuarial present value of projected benefit payments not included in (1), calculated using the municipal bond rate.

Entry Age Actuarial Cost Method:	A method under which the actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis over the earnings or service of the individual between entry age and assumed exit age(s). The portion of this actuarial present value allocated to a valuation year is called the normal cost. The portion of this actuarial present value not provided for at a valuation date by the actuarial present value of future normal costs is called the actuarial accrued liability.		
Inactive Employees:	Terminated individuals that have accumulated benefits but are not yet receiving them, and retirees or their beneficiaries currently receiving benefits.		
Measurement Period:	The period between the prior and the current measurement dates.		
Multiple-Employer Defined Benefit Pension Plan:	A defined benefit pension plan that is used to provide pensions to the employees of more than one employer.		
Net Pension Liability (NPL):	The liability of employers and non-employer contributing entities to employees for benefits provided through a defined benefit pension plan.		
Non-Employer Contributing Entities:	Entities that make contributions to a pension plan that is used to provide pensions to the employees of other entities. For purposes of Statements 67/68, employees are not considered non-employer contributing entities.		
Other Postemployment Benefits:	All postemployment benefits other than retirement income (such as death benefits, life insurance, disability, and long-term care) that are provided separately from a pension plan, as well as postemployment healthcare benefits, regardless of the manner in which they are provided. Other postemployment benefits do not include termination benefits.		
Pension Plans:	Arrangements through which pensions are determined, assets dedicated for pensions are accumulated and managed and benefits are paid as they come due.		
Pensions:	Retirement income and, if provided through a pension plan, postemployment benefits other than retirement income (such as death benefits, life insurance, and disability benefits). Pensions do not include postemployment healthcare benefits and termination benefits.		
Plan Members:	Individuals that are covered under the terms of a pension plan. Plan members generally include (1) employees in active service (active plan members) and (2) terminated employees who have accumulated benefits but are not yet receiving them and retirees or their beneficiaries currently receiving benefits (inactive plan members).		
Postemployment:	The period after employment.		
Postemployment Benefit Changes:	Adjustments to the pension of an inactive employee.		
Postemployment Healthcare Benefits:	Medical, dental, vision, and other health-related benefits paid subsequent to the termination of employment.		

Projected Benefit Payments:	All benefits estimated to be payable through the pension plan to current active and inactive employees as a result of their past service and their expected future service.		
Public Employee Retirement System:	A special-purpose government that administers one or more pension plans; also administer other types of employee benefit plans, including postemployment healthcare p and deferred compensation plans.		
Real Rate of Return:	The rate of return on an investment after adjustment to eliminate inflation.		
Service Costs:	The portions of the actuarial present value of projected benefit payments that are attributed to valuation years.		
Single Employer:	An employer whose employees are provided with pensions through a single-employer defined benefit pension plan.		
Single-Employer Defined Benefit Pension Plan (Single-Employer Pension Plan):	A defined benefit pension plan that is used to provide pensions to employees of only one employer.		
Special Funding Situations:	Circumstances in which a non-employer entity is legally responsible for making contributions directly to a pension plan that is used to provide pensions to the employees of another entity or entities and either of the following conditions exists:		
	1. The amount of contributions for which the non-employer entity legally is responsible is <i>not</i> dependent upon one or more events or circumstances unrelated to the pensions.		
	2. The non-employer entity is the only entity with a legal obligation to make contributions directly to a pension plan.		
Termination Benefits:	Inducements offered by employers to active employees to hasten the termination of services, or payments made in consequence of the early termination of services. Termination benefits include early-retirement incentives, severance benefits, and other termination-related benefits.		
Total Pension Liability (TPL):	The portion of the actuarial present value of projected benefit payments that is attributed to past periods of employee service in conformity with the requirements of Statement.		

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