Supplemental Health Insurance Conversion Credit Program

Presented to the Wisconsin Department of Employee Trust Funds GASB Statement Nos. 74 and 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions December 31, 2023







July 9, 2024

Employee Trust Funds Board Wisconsin Retirement System 4822 Madison Yards Way Madison, Wisconsin 53705

Ladies and Gentleman:

This report provides information on behalf of the Supplemental Health Insurance Conversion Credit Program (SHICC Program) in connection with the Governmental Accounting Standards Board (GASB) Statement Nos. 74 and 75. GASB Statement No. 74 is the accounting standard, which applies to Other Postemployment Benefits (OPEB) plans that are administered through trusts or equivalent arrangements. GASB Statement No. 75 establishes accounting and financial reporting requirements for state and local government employers that provide their employees with postemployment benefits other than pension.

The calculation of the liability associated with the benefits described in this report was performed for the purpose of satisfying the requirements of GASB Statement Nos. 74 and 75. The Net OPEB Liability/(Asset) is not an appropriate measure for measuring the sufficiency of plan assets to cover the estimated cost of settling the employer's benefit obligation. The Net OPEB Liability/(Asset) is not an appropriate measure for amount of future employer contributions. The calculation of the plan's liability for this report is not applicable for funding purposes of the plan. A calculation of the plan's liability for purposes other than satisfying the requirements of GASB Statement Nos. 74 and 75 may produce significantly different results. This report may be provided to parties other than the Department of Employee Trust Funds (DETF) only in its entirety and only with the permission of the DETF. GRS is not responsible for unauthorized use of this report.

This report complements the Wisconsin Sick Leave Conversion Credit Programs Annual Actuarial Valuation report prepared for funding purposes as of December 31, 2023, and information herein should be considered along with the information from that report, especially for additional discussions of the nature of actuarial calculations and for more information related to participant data, economic, demographic, health care trend, morbidity assumptions, and benefit provisions.

This report is based upon information, furnished to us by the DETF, concerning Other Postemployment Benefits (OPEB), active members, preserved (deferred vested) members, retirees and beneficiaries, and financial data. This information was checked for internal consistency, but it was not audited. Employee Trust Funds Board Wisconsin Retirement System July 9, 2024 Page 2

Based on the available data, the information contained in this report is accurate and fairly represents the actuarial position of the SHICC Program as of the reporting date. All calculations have been made in conformity with generally accepted actuarial principles and practices as well as the Actuarial Standards of Practice. If you have reason to believe that the information provided in this report is inaccurate, or is in any way incomplete, or if you need further information in order to make an informed decision on the subject matter of this report, please contact the authors of the report prior to making such decision.

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; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law.

This report was prepared using our proprietary valuation model and related software which, in our professional judgment, has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

Section I of the report details the calculation of the single discount rate and is not required to be included in your financial statements. However, this information may be requested by your auditors; therefore, we have included it in this report.

The signing actuaries are independent of the plan sponsor.

Mark Buis, James D. Anderson and Richard C. Koch Jr. are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted, Gabriel, Roeder, Smith & Company

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Auditor's Note – This information is intended to assist in preparation of the financial statements of the SHICC Program. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.



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SECTION A

EXECUTIVE SUMMARY

Executive Summary as of December 31, 2023

Actuarial Valuation Date SHICC Program's Fiscal Year Ending Date (Measurement Date & Reporting Date)		cember 31, 2023 cember 31, 2023
Membership ⁽¹⁾		
Number of		
- Retirees and Beneficiaries		22,381
- Inactive, Nonretired Members		421
- Active Members		76,550
- Total		99,352
Covered Payroll ⁽²⁾	\$	5,935,840,689
Net OPEB Liability/(Asset)		
Total OPEB Liability	\$	1,172,115,780
Plan Fiduciary Net Position		1,234,862,685
Net OPEB Liability/(Asset)	\$	(62,746,905)
Plan Fiduciary Net Position as a Percentage of Total OPEB Liability		105.35 %
Net OPEB Liability/(Asset) as a Percentage of Covered Payroll		(1.06)%
Development of the Single Discount Rate		
Single Discount Rate		6.80 %
Long-Term Municipal Bond Rate ⁽³⁾		3.77 %
Total OPEB Expense/(Revenue)	\$	(3,013,816)

Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future OPEB Expenses/(Revenues)

	Deferred Outflows of Resources		Deferred Inflows of Resources		
Difference between expected and actual experience	\$	73,296,088	\$	125,344,392	
Changes in assumptions		88,920,590		0	
Net difference between projected and actual earnings					
on OPEB plan investments		55,322,019		0	
Total	\$	217,538,697	\$	125,344,392	

(1) Retiree and Beneficiary as well as inactive number counts include only those members with a SHICC account balance.

⁽²⁾ Covered payroll is for 2023 and was provided by DETF.

(3) Source: Fixed-income municipal bonds with 20 years to maturity that include only federally tax-exempt municipal bonds as reported in Fidelity Index's "20-Year Municipal GO AA Index" as of December 29, 2023. In describing this index, Fidelity notes that the municipal curves are constructed using option-adjusted analytics of a diverse population of over 10,000 tax-exempt securities.



Discussion

Accounting Standard

For Other Postemployment Benefits (OPEB) plans that are administered through trusts or equivalent arrangements, the applicable accounting standards are Governmental Accounting Standards Board (GASB) Statement No. 74 and GASB Statement No. 75. GASB Statement No. 75 establishes standards for state and local government employers (as well as non-employer contributing entities) to account for and disclose Net OPEB Liability/(Asset), OPEB expense/(revenue), and other information associated with providing OPEB to their employees (and former employees) on their financial statements.

GASB Statement Nos. 74 and 75 are effective for fiscal years beginning after June 15, 2016 and June 15, 2017, respectively.

The following discussion provides a summary of the information that is required to be disclosed under these accounting standards. A number of these disclosure items are provided in this report. However, certain information, such as notes regarding accounting policies and investments, is not included in this report. As a result, the plan sponsor will be responsible for preparing and disclosing the non-actuarial information needed to comply with these accounting standards.

Financial Statements

GASB Statement No. 75 requires state and local government employers to recognize the net OPEB liability/(asset) and the OPEB expense/(revenue) on their financial statements, along with the related deferred outflows and inflows of resources. The net OPEB liability/(asset) is the difference between the total OPEB liability and the plan's fiduciary net position. In traditional actuarial terms, this is analogous to the accrued liability less the market value of assets.

GASB Statement No. 75 states the employer contributions made to the OPEB plan subsequent to the measurement date and before the end of the employer's reporting period should be reported as a deferred outflow of resources. The information contained in this report does not incorporate any employer contributions made subsequent to the measurement date of December 31, 2023.

The OPEB expense/(revenue) recognized each fiscal year is equal to the change in the net OPEB liability/(asset) from the beginning of the year to the end of the year, adjusted for deferred recognition of the liability and investment experience.

GASB Statement No. 74 requires defined benefit OPEB plans which are administered as trusts or equivalent arrangements to present two financial statements: a statement of fiduciary net position and a statement of changes in fiduciary net position. The statement of fiduciary net position presents the assets and liabilities of the OPEB plan at the end of the OPEB plan's reporting period. The statement of changes in fiduciary net positions, such as contributions and investment income, and deductions, such as benefit payments and expense, and net increase or decrease in the fiduciary net position.



Notes to Financial Statements

GASB Statement No. 75 requires the notes of the employer's financial statements to disclose the total OPEB expense/(revenue), the OPEB plan's liabilities and assets, and deferred outflows of resources and inflows of resources related to OPEB.

GASB Statement Nos. 74 and 75 require the notes of the financial statements for employers and OPEB plans to include certain additional information. The list of disclosure items should include:

- The name of the OPEB plan, the administrator of the OPEB plan, and the identification of whether the OPEB plan is a single-employer, agent, or cost-sharing OPEB plan;
- A description of the benefits provided by the plan;
- A brief description of changes in benefit terms or assumptions that affected the measurement of the total OPEB liability since the prior measurement date;
- The number of plan members by category and if the plan is closed;
- A description of the plan's funding policy, which includes member and employer contribution requirements;
- The OPEB plan's investment policies;
- The OPEB plan's fiduciary net position and the net OPEB liability/(asset);
- The net OPEB liability/(asset) using +/- 1% on the discount rate;
- The net OPEB liability/(asset) using +/- 1% on the healthcare trend rate;
- Significant assumptions and methods used to calculate the total OPEB liability;
- Inputs to the discount rates; and
- Certain information about mortality assumptions and the dates of experience studies.

OPEB plans that are administered through trusts or equivalent arrangements are required to disclose additional information in accordance with GASB Statement No. 74. This information includes:

- The composition of the OPEB plan's Board and the authority under which benefit terms may be amended;
- A description of how fair value is determined;
- Information regarding certain reserves and investments, which include concentrations of investments greater than or equal to 5%, receivables, and insurance contracts excluded from plan assets; and
- Annual money-weighted rate of return.



Required Supplementary Information

GASB Statement No. 74 requires a 10-year fiscal history of:

- Sources of changes in the net OPEB liability/(asset);
- Information about the components of the net OPEB liability/(asset) and related ratios, including the OPEB plan's fiduciary net position as a percentage of the total OPEB liability, and the net OPEB liability/(asset) as a percent of covered-employee payroll;
- Comparison of the actual employer contributions to the actuarially determined contributions based on the plan's funding policy; and
- For plans with an actuarially determined contribution, the schedule covering each of the 10 most recent fiscal years of the actuarially determined contribution, contributions to the OPEB plan and related ratios.

These tables will be built prospectively as the information becomes available.

General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Plan Contributions and Funded Status

Given the plan's contribution allocation procedure, if all actuarial assumptions are met (including the assumption of the plan earning 6.80% on the actuarial value of assets), then the following outcomes are expected:

- 1. The employer normal cost is expected to remain level as a percentage of payroll.
- 2. The unfunded liability is expected to decrease in dollar amount until it is fully funded.
- 3. The funded status of the plan will remain very close to a 100% funded ratio under the Frozen Initial Liability cost method.

This funding policy results in the expectation that the plan's assets will be able to fully pay for promised benefits through at least 2123. The projections in this report are strictly for the purpose of determining the GASB single discount rate and are different from a funding projection for the ongoing plan.

Frequency and Timing of the Actuarial Valuation

An actuarial valuation to determine the total OPEB liability is required to be performed at least every two years. For the employer's financial reporting purposes, the net OPEB liability/(asset) and OPEB expense/(revenue) should be measured as of the employer's "measurement date," which may not be earlier than the employer's prior fiscal year-end date. If the actuarial valuation used to determine the total OPEB liability is not calculated as of the measurement date, the total OPEB liability is required to be rolled forward from the actuarial valuation date to the measurement date.

The total OPEB liability shown in this report is based on an actuarial valuation performed as of December 31, 2023 and a measurement date of December 31, 2023.



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Single Discount Rate

Projected benefit payments are required to be discounted to their actuarial present values using a Single Discount Rate that reflects: (1) a long-term expected rate of return on OPEB plan investments (to the extent that the plan's fiduciary net position is projected to be sufficient to pay benefits); and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of this valuation, the expected rate of return on OPEB plan investments is 6.80%; the municipal bond rate is 3.77% (based on the daily rate closest to but not later than the measurement date of the Fidelity "20-Year Municipal GO AA Index"); and the resulting Single Discount Rate is 6.80%.

Actuarial Assumptions

The actuarial assumptions used to value the liabilities are outlined in Section H, including detail related to demographic assumptions, economic assumptions, the healthcare trend assumption, as well as the cost method used to develop the OPEB expense/(revenue). The assumptions used were adopted in connection with separate experience studies of the Wisconsin Retirement System and the Wisconsin Sick Leave Conversion Credit Programs covering the period 2018-2020.

Future Uncertainty or Risk

Future results may differ from those anticipated in this valuation. Reasons include, but are not limited to:

- Actual medical trend differing from expected;
- Changes in the healthcare plan designs offered to active and retired members; and
- Participant behavior differing from expected; e.g.,
 - Elections at retirement;
 - o One-person versus two-person coverage elections; and
 - Time of retirement or termination.

Benefits Valued

The benefit provisions that were valued are described in Section E. The valuation is required to be performed on the current benefit terms and existing legal agreements. Consideration is to be given to the written plan document as well as other communications between the employer and plan members and an established pattern of practice for cost sharing. The summary of major plan provisions is designed to outline principal plan benefits. If the plan summary is not in accordance with the actual provisions, please alert the actuaries immediately, so they can be sure the proper provisions are valued.

Effective Date and Transition

GASB Statement Nos. 74 and 75 are effective for fiscal years beginning after June 15, 2016, and June 15, 2017, respectively.



SECTION B

FINANCIAL STATEMENTS

Auditor's Note – This information is intended to assist in preparation of the financial statements of the Supplemental Health Insurance Conversion Credit Program. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.

Statement of OPEB Expense/(Revenue) under GASB Statement No. 75 Fiscal Year Ended December 31, 2023

A. Expense

1. Service Cost	\$ 26,254,585
2. Interest on the Total OPEB Liability	70,215,165
3. Current-Period Benefit Changes	0
4. Employee Contributions (made negative for addition here)	0
5. Projected Earnings on Plan Investments (made negative for addition here)	(76,698,546)
6. OPEB Plan Administrative Expense	580,464
7. Other Changes in Plan Fiduciary Net Position	0
8. Recognition of Outflow (Inflow) of Resources due to Liabilities	(2,964,362)
9. Recognition of Outflow (Inflow) of Resources due to Assets	(20,401,122)
10. Total OPEB Expense/(Revenue)	\$ (3,013,816)

Recognition of Deferred Outflows and Inflows of Resources

Differences between expected and actual experience and changes in assumptions are recognized in the OPEB expense/(revenue) using a systematic and rational method over a closed period equal to the average of the expected remaining service lives of all employees that are provided with OPEB through the OPEB plan (active employees and inactive employees) determined as of the beginning of the measurement period.

At the beginning of the current measurement period, the expected remaining service lives of all active employees in the plan was approximately 848,560 years. Additionally, the total plan membership (active employees and inactive employees) was 96,676. As a result, the average of the expected remaining service lives for purposes of recognizing the applicable deferred outflows and inflows of resources established in the current measurement period is 8.7774 years.

Additionally, differences between projected and actual earnings on OPEB plan investments should be recognized in the OPEB expense/(revenue) using a systematic and rational method over a closed five-year period. For this purpose, the deferred outflows and inflows of resources are recognized in the OPEB expense/(revenue) as a level dollar amount over the closed period identified above.



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Statement of Outflows and Inflows Arising from Current Reporting Period Fiscal Year Ended December 31, 2023

A. Outflows (Inflows) of Resources Due to Liabilities

1. Difference between expected and actual experience of the Total OPEB Liability		
(gains) or losses	\$	82,720,329
2. Assumption Changes (gains) or losses	\$	0
Recognition period for Liabilities: Average of the expected remaining service lives of all employees {in years}		8.7774
4. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue)		
for the difference between expected and actual experience of the Total OPEB Liability	\$	9,424,241
Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for assumption changes	ć	
6. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue)	\$	0
due to Liabilities	\$	9,424,241
7. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues)	Ş	9,424,241
for the difference between expected and actual experience of the Total OPEB Liability	\$	73,296,088
 Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for assumption changes 	\$	0
9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues)	Ŧ	C C
due to Liabilities	\$	73,296,088
B. Outflows (Inflows) of Resources Due to Assets		
1. Net difference between projected and actual earnings on OPEB plan investments		
(gains) or losses	\$	(51,112,801)
2. Recognition period for Assets {in years}		5.0000
3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue)		
due to Assets	\$	(10,222,560)
4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues)		
due to Assets	\$	(40,890,241)



Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods Fiscal Year Ended December 31, 2023

A. Outflows and Inflows of Resources by Source to be Recognized in Current OPEB Expense/(Revenue)

	Outflows of Resources		of	Inflows Resources	Net Outflows/(Inflows of Resources		
 Differences between expected and actual experience Assumption changes Net difference between projected and actual 	\$	9,424,241 16,139,481	\$	\$ 28,528,084 0		(19,103,843) 16,139,481	
earnings on OPEB plan investments 4. Total	\$	0 25,563,722	\$	20,401,122 48,929,206	\$	(20,401,122) (23,365,484)	

B. Deferred Outflows and Deferred Inflows of Resources by Source to be Recognized in Future OPEB Expenses/(Revenues)

	Deferred Outflows of Resources		 erred Inflows f Resources	Net Deferred Outflo (Inflows) of Resour	
1. Differences between expected and actual experience	\$	73,296,088	\$ 125,344,392	\$	(52,048,304)
2. Assumption changes		88,920,590	0		88,920,590
Net difference between projected and actual					
earnings on OPEB plan investments		55,322,019	 0		55,322,019
4. Total	\$	217,538,697	\$ 125,344,392	\$	92,194,305

C. Deferred Outflows and Deferred Inflows of Resources by Year to be Recognized in Future OPEB Expenses/(Revenues)

Year Ending December 31	eferred Outflows/ ws) of Resources
2024	\$ (241,404)
2025	16,716,198
2026	43,014,051
2027	(5,681,402)
2028	10,903,816
2029	14,160,766
2030	5,995,879
2031	7,326,401
2032	0
2033	0
Thereafter	0
Total	\$ 92,194,305



Recognition of Deferred Outflows and Inflows of Resources Fiscal Year Ended December 31, 2023

Year Established		Initial Amount	Initial Recognition Period		urrent Year Recognition		Remaining Recognition	Remaining Recognition Period
Deferred Outflow	/ (Inf	low) Due to Differe	nces between	Expe	cted and Actual	Ехр	erience on Liabili	ties
2017	\$	(31,625,769)	9.1767	\$	(3,446,312)	\$	(7,501,585)	2.1767
2018		(41,561,731)	9.1556		(4,539,487)		(14,324,809)	3.1556
2019		(55,251,074)	8.6032		(6,422,154)		(23,140,304)	3.6032
2020		(47,585,575)	8.6005		(5,532,885)		(25,454,035)	4.6005
2021		(36,204,282)	8.9930		(4,025,829)		(24,126,795)	5.9930
2022		(39,919,698)	8.7516		(4,561,417)		(30,796,864)	6.7516
2023		82,720,329	8.7774		9,424,241		73,296,088	7.7774
Total				\$	(19,103,843)	\$	(52,048,304)	
Deferred Outflow	ı (Inf	low) Due to Assum	ption Changes					
2017	\$	0	9.1767	\$	0	\$	0	2.1767
2018		25,179,408	9.1556		2,750,165		8,678,418	3.1556
2019		0	8.6032		0		0	3.6032
2020		0	8.6005		0		0	4.6005
2021		120,410,120	8.9930		13,389,316		80,242,172	5.9930
2022		0	8.7516		0		0	6.7516
2023		0	8.7774		0		0	7.7774
Total				\$	16,139,481	\$	88,920,590	
Deferred Outflow	/ (Inf	low) Due to Differe	nces between	Proje	ected and Actua	l Eai	nings on Plan Inv	estments
2019	\$	(115,620,400)	5.0000	\$	(23,124,080)	\$	0	0.0000
2020		(84,788,000)	5.0000		(16,957,600)		(16,957,600)	1.0000
2021		(117,302,508)	5.0000		(23,460,502)		(46,921,002)	2.0000
2022		266,818,102	5.0000		53,363,620		160,090,862	3.0000
2023		(51,112,801)	5.0000		(10,222,560)		(40,890,241)	4.0000
Total				\$	(20,401,122)	\$	55,322,019	



Statement of Fiduciary Net Position as of December 31, 2023

	2023	
Assets		
Cash and Deposits	\$	5,205,448
Receivables		
Contributions	\$	1,050,285
Accounts Receivable - Due From Other Benefit Programs		1,636,558
Accounts Receivable - Other		0
Total Receivables	\$	2,686,843
Investments		
Investment in Core Fund	\$	1,227,264,338
Total Investments	\$	1,227,264,338
Total Assets	\$	1,235,156,629
Liabilities		
Payables		
Accounts Payable - Due to Other Benefit Programs	\$	293,944
Total Liabilities	\$	293,944
Net Position Restricted for OPEB	\$	1,234,862,685



Statement of Changes in Fiduciary Net Position for Year Ended December 31, 2023

	_	2023
Additions		
Contributions		
Employer	\$	11,889,477
Total Contributions	\$	11,889,477
Investment Income		
Net Appreciation in Fair Value of Investments	\$	127,811,347
Net Investment Income	\$	127,811,347
Total Additions	\$	139,700,824
Deductions		
Benefit Payments	\$	53,045,927
OPEB Plan Administrative Expense		580,464
Total Deductions	\$	53,626,391
Net Increase in Net Position	\$	86,074,433
Net Position Restricted for OPEB		
Beginning of Year	\$	1,148,788,252
End of Year	\$	1,234,862,685



SECTION C

REQUIRED SUPPLEMENTARY INFORMATION

Auditor's Note – This information is intended to assist in preparation of the financial statements of the Supplemental Health Insurance Conversion Credit Program. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.

Schedule of Changes in Net OPEB Liability/(Asset) and Related Ratios Current Reporting Period Fiscal Year Ended December 31, 2023

A. Total OPEB Liability

1. Service cost\$26,254,5852. Interest on the Total OPEB Liability70,215,1653. Changes of benefit terms04. Difference between expected and actual experience of the Total OPEB Liability82,720,3295. Changes of assumptions06. Benefit payments(53,045,927)7. Net change in Total OPEB Liability126,144,1528. Total OPEB Liability - Beginning 9. Total OPEB Liability - Ending1,045,971,6289. Total OPEB Liability - Ending\$1,172,115,780B. Plan Fiduciary Net Position\$11,889,4772. Contributions - employer\$11,889,4772. Contributions - employer contributing entities03. Contributions - nonemployer contributing entities03. Contributions - employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position - Beginning 1,148,788,2521,234,862,685C. Net OPEB Liability/(Asset)\$(62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$\$,935,840,689F. Net OPEB Liability/(Asset) as a percentage of covered-employee payroll(1.06)%		
3. Changes of benefit terms04. Difference between expected and actual experience of the Total OPEB Liability82,720,3295. Changes of assumptions06. Benefit payments(53,045,927)7. Net change in Total OPEB Liability126,144,1528. Total OPEB Liability - Beginning1,045,971,6289. Total OPEB Liability - Ending\$ 1,172,115,780B. Plan Fiduciary Net Position\$ 11,889,4771. Contributions – employer\$ 11,889,4772. Contributions – nonemployer contributing entities03. Contributions – employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability\$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$ 5,935,840,689	1. Service cost	\$ 26,254,585
4. Difference between expected and actual experience of the Total OPEB Liability82,720,3295. Changes of assumptions06. Benefit payments(53,045,927)7. Net change in Total OPEB Liability126,144,1528. Total OPEB Liability – Beginning1,045,971,6289. Total OPEB Liability – Ending\$ 1,172,115,780B. Plan Fiduciary Net Position\$ 01. Contributions – employer\$ 11,889,4772. Contributions – employer contributing entities03. Contributions – employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$	2. Interest on the Total OPEB Liability	70,215,165
of the Total OPEB Liability82,720,3295. Changes of assumptions06. Benefit payments(53,045,927)7. Net change in Total OPEB Liability126,144,1528. Total OPEB Liability – Beginning1,045,971,6289. Total OPEB Liability – Ending\$1. Contributions – employer\$1. Contributions – employer contributing entities03. Contributions – employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$12. Overed payroll ⁽¹⁾ \$5. Govered payroll ⁽¹⁾ \$5. Net OPEB Liability/(Asset) as a percentageof the Total OPEB Liability/(Asset) as a percentage	3. Changes of benefit terms	0
5. Changes of assumptions06. Benefit payments(53,045,927)7. Net change in Total OPEB Liability126,144,1528. Total OPEB Liability – Beginning1,045,971,6289. Total OPEB Liability – Ending\$1. Contributions – employer\$1. Contributions – nonemployer contributing entities03. Contributions – nonemployer contributing entities03. Contributions – employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$C. Net OPEB Liability/(Asset)\$0. Plan Fiduciary Net Position as a percentageof the Total OPEB Liability105.35 %F. Covered payroll ⁽¹⁾ \$ a percentageF. Net OPEB Liability/(Asset) as a percentage	4. Difference between expected and actual experience	
6. Benefit payments(53,045,927)7. Net change in Total OPEB Liability126,144,1528. Total OPEB Liability – Beginning1,045,971,6289. Total OPEB Liability – Ending\$ 1,172,115,780B. Plan Fiduciary Net Position\$ 1,172,115,7801. Contributions – employer\$ 11,889,4772. Contributions – nonemployer contributing entities03. Contributions – employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$ 5,935,840,689	of the Total OPEB Liability	82,720,329
7. Net change in Total OPEB Liability126,144,1528. Total OPEB Liability – Beginning1,045,971,6289. Total OPEB Liability – Ending\$ 1,172,115,780B. Plan Fiduciary Net Position\$ 11,889,4771. Contributions – employer contributing entities03. Contributions – employer contributing entities04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$ 5,935,840,689	5. Changes of assumptions	0
8. Total OPEB Liability – Beginning1,045,971,6289. Total OPEB Liability – Ending\$1,172,115,780B. Plan Fiduciary Net Position*11,889,4771. Contributions – employer\$11,889,4772. Contributions – nonemployer contributing entities003. Contributions – employee004. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$C. Net OPEB Liability/(Asset)\$0. Plan Fiduciary Net Position as a percentage\$of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$5. Net OPEB Liability/(Asset) as a percentage\$5. Net OPEB Liability/(Asset) as a percentage	6. Benefit payments	(53,045,927)
9. Total OPEB Liability – Ending\$1,172,115,780B. Plan Fiduciary Net Position1. Contributions – employer\$11,889,4772. Contributions – nonemployer contributing entities003. Contributions – employee004. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$5. C. Net OPEB Liability/(Asset)\$5. Covered payroll ⁽¹⁾ \$5. Covered payroll ⁽¹⁾ \$5. Net OPEB Liability/(Asset) as a percentage6. OPEB Liability/(Asset) as a percentage	7. Net change in Total OPEB Liability	126,144,152
B. Plan Fiduciary Net Position 1. Contributions – employer 2. Contributions – nonemployer contributing entities 3. Contributions – employee 4. Net investment income 5. Benefit payments 6. OPEB plan administrative expense 7. Other 8. Net change in Plan Fiduciary Net Position 9. Plan Fiduciary Net Position – Beginning 1.,148,788,252 10. Plan Fiduciary Net Position – Ending 5. (62,746,905) D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability E. Covered payroll ⁽¹⁾ F. Net OPEB Liability/(Asset) as a percentage F. Net OPEB Liability/(Asset) as a percentage	8. Total OPEB Liability – Beginning	 1,045,971,628
1. Contributions - employer\$11,889,4772. Contributions - nonemployer contributing entities03. Contributions - employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position - Beginning1,148,788,25210. Plan Fiduciary Net Position - Ending\$2. Covered payroll ⁽¹⁾ \$5. Covered payroll ⁽¹⁾ \$5. Net OPEB Liability/(Asset) as a percentage105.35 %F. Net OPEB Liability/(Asset) as a percentage\$	9. Total OPEB Liability – Ending	\$ 1,172,115,780
2. Contributions – nonemployer contributing entities03. Contributions – employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$2. Net OPEB Liability/(Asset)\$0. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %F. Net OPEB Liability/(Asset) as a percentage\$	B. Plan Fiduciary Net Position	
3. Contributions – employee04. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$ 5,935,840,689	1. Contributions – employer	\$ 11,889,477
4. Net investment income127,811,3475. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$	2. Contributions – nonemployer contributing entities	0
5. Benefit payments(53,045,927)6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$	3. Contributions – employee	0
6. OPEB plan administrative expense(580,464)7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$	4. Net investment income	127,811,347
7. Other08. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage\$	5. Benefit payments	(53,045,927)
8. Net change in Plan Fiduciary Net Position86,074,4339. Plan Fiduciary Net Position – Beginning 10. Plan Fiduciary Net Position – Ending1,148,788,252C. Net OPEB Liability/(Asset)\$ 1,234,862,685C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage105.35 %	6. OPEB plan administrative expense	(580,464)
9. Plan Fiduciary Net Position – Beginning1,148,788,25210. Plan Fiduciary Net Position – Ending\$1,148,788,2522. Net OPEB Liability/(Asset)\$1,148,788,2522. Net OPEB Liability/(Asset)\$10. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %10. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %10. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability\$10. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %10. Plan Fiduciary Net Position as a percentage\$10. Plan Fiduciary Net Position as a percentage105.35 %10. Plan Fiduciary Net Position as a percentage\$10. Plan Fiduciary Net Position as a percentage105.35 %10. Plan Fiduciary Net Position as a percentage\$10. Plan Fiduciary Net Position as a percentage105.35 %10. Plan Fiduciary Net Position as a percentage\$10. Plan Fiduciary Net Position as	7. Other	0
10. Plan Fiduciary Net Position – Ending\$1,234,862,685C. Net OPEB Liability/(Asset)\$(62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$5,935,840,689F. Net OPEB Liability/(Asset) as a percentage5	8. Net change in Plan Fiduciary Net Position	86,074,433
C. Net OPEB Liability/(Asset)\$ (62,746,905)D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage5	9. Plan Fiduciary Net Position – Beginning	 1,148,788,252
D. Plan Fiduciary Net Position as a percentage of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage5	10. Plan Fiduciary Net Position – Ending	\$ 1,234,862,685
of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage5	C. Net OPEB Liability/(Asset)	\$ (62,746,905)
of the Total OPEB Liability105.35 %E. Covered payroll ⁽¹⁾ \$ 5,935,840,689F. Net OPEB Liability/(Asset) as a percentage5	D. Plan Fiduciary Net Position as a percentage	
F. Net OPEB Liability/(Asset) as a percentage		105.35 %
	E. Covered payroll ⁽¹⁾	\$ 5,935,840,689
	F. Net OPEB Liability/(Asset) as a percentage	
		(1.06)%

⁽¹⁾ Covered payroll was provided by DETF.



Schedules of Required Supplementary Information Schedule of Changes in Net OPEB Liability/(Asset) and Related Ratios Multiyear

Measurement Date - December 31,		2023	2022		2021		2020		2019		2018		2017	2016	2015	2	014
Total OPEB Liability																	
Service cost	\$ 2	26,254,585	\$ 25,672,432	\$	23,485,958	\$	24,092,160	\$	25,480,349	\$	23,419,279	\$	23,090,058				
Interest on the Total OPEB Liability	7	70,215,165	69,993,566		63,660,991		64,393,209		65,525,451		65,968,930		65,855,518				
Changes of benefit terms		0	0		0		0		0		0		0				
Difference between expected and																	
actual experience	8	32,720,329	(39,919,698)	(36,204,282)		(47,585,575)		(55,251,074)		(41,561,731)		(31,625,769)				
Changes of assumptions		0	0		120,410,120		0		0		25,179,408		0				
Benefit payments	(5	53,045,927)	(52,511,215)	(52,631,984)		(49,481,918)		(52,989,110)		(55,398,266)		(56,420,238)				
Net change in Total OPEB Liability	12	26,144,152	3,235,085		118,720,803		(8,582,124)		(17,234,384)		17,607,620		899,569				
Total OPEB Liability - Beginning	1,04	45,971,628	1,042,736,543		924,015,740	g	932,597,864		949,832,248		932,224,628		931,325,059				
Total OPEB Liability - Ending (a)	\$ 1,17	72,115,780	\$ 1,045,971,628	\$1,	,042,736,543	\$ 9	924,015,740	\$	932,597,864	\$	949,832,248	\$	932,224,628				
Plan Fiduciary Net Position																	
Employer contributions	\$ 1	11,889,477	\$ 5,437,688	\$	15,657,937	\$	15,080,311	\$	14,368,898	\$	18,207,993	\$	17,864,218				
Nonemployer contributing entities																	
contributions		0	0		0		0		0		0		0				
Employee contributions		0	0		0		0		0		0		0				
OPEB plan net investment income	12	27,811,347	(175,165,670)	200,598,941	1	159,467,130		180,270,630		(36,549,391)		141,758,344				
Benefit payments	(5	53,045,927)	(52,511,215)	(52,631,984)		(49,481,918)		(52,989,110)		(55,398,266)		(56,420,238)				
OPEB plan administrative expense		(580,464)	(678,379)	(710,273)		(639,658)		(339,791)		(261,661)		(292,733)				
Other		0	0		0		0		0		0		0				
Net change in Plan Fiduciary Net Position	8	36,074,433	(222,917,576)	162,914,621	1	124,425,865		141,310,627		(74,001,325)		102,909,591				
Plan Fiduciary Net Position - Beginning	1,14	48,788,252	1,371,705,828	1,	,208,791,207	1,0	084,365,342		943,054,715	1	1,017,056,040		914,146,449				
Plan Fiduciary Net Position - Ending (b)	\$ 1,23	34,862,685	\$ 1,148,788,252	\$1,	,371,705,828	\$ 1,2	208,791,207	\$1	,084,365,342	\$	943,054,715	\$1	,017,056,040				
Net OPEB Liability/(Asset) - ending (a) - (b)	\$ (6	52,746,905)	\$ (102,816,624)\$((328,969,285)	\$ (2	284,775,467)	\$	(151,767,478)	\$	6,777,533	\$	(84,831,412)				
Plan Fiduciary Net Position as a percentage																	
of Total OPEB Liability		105.35 %	109.83 %	6	131.55 %		130.82 %		116.27 %		99.29 %		109.10 %				
Covered payroll ⁽¹⁾	\$ 5,93	35,840,689	\$ 5,423,476,226	\$5,	,215,543,512	\$ 5,0	018,527,271	\$4	,796,071,588	\$ 4	4,562,647,414	\$4	,454,515,567				
Net OPEB Liability/(Asset) as a percentage																	
of covered-employee payroll		(1.06)%	(1.90)%	6	(6.31)%		(5.67)%		(3.16)%		0.15 %		(1.90)%				

⁽¹⁾ Covered payroll was provided by DETF.



Schedules of Required Supplementary Information Schedule of the Net OPEB Liability/(Asset) Multiyear

FY Ending December 31,	Total OPEB Liability	Plan Net Position	Net OPEB Liability/(Asset)	Plan Net Position as a % of Total OPEB Liability	Covered Payroll ⁽¹⁾	Net OPEB Liability/(Asset) as a % of Covered Payroll
2014						
2015						
2016						
2017	\$ 932,224,628	\$ 1,017,056,040	\$ (84,831,412)	109.10 %	\$ 4,454,515,567	(1.90)%
2018	949,832,248	943,054,715	6,777,533	99.29 %	4,562,647,414	0.15 %
2019	932,597,864	1,084,365,342	(151,767,478)	116.27 %	4,796,071,588	(3.16)%
2020	924,015,740	1,208,791,207	(284,775,467)	130.82 %	5,018,527,271	(5.67)%
2021	1,042,736,543	1,371,705,828	(328,969,285)	131.55 %	5,215,543,512	(6.31)%
2022	1,045,971,628	1,148,788,252	(102,816,624)	109.83 %	5,423,476,226	(1.90)%
2023	1,172,115,780	1,234,862,685	(62,746,905)	105.35 %	5,935,840,689	(1.06)%

⁽¹⁾ Covered payroll was provided by DETF.



Schedule of Contributions Multiyear

FY Ending December 31,	(1)		Contribution Deficiency (Excess)	Covered Payroll ⁽²⁾	Actual Contribution as a % of Covered Payroll
2014					
2015					
2016					
2017	\$ 17,864,218	\$ 17,864,218	\$ 0	\$ 4,454,515,567	0.40 %
2018	18,207,993	18,207,993	0	4,562,647,414	0.40 %
2019	14,368,898	14,368,898	0	4,796,071,588	0.30 %
2020	15,080,311	15,080,311	0	5,018,527,271	0.30 %
2021	15,657,937	15,657,937	0	5,215,543,512	0.30 %
2022	5,437,688	5,437,688	0	5,423,476,226	0.10 %
2023	11,889,477	11,889,477	0	5,935,840,689	0.20 %

⁽¹⁾ Since it is the actuary's understanding that the practice is to require employers to contribute the percent-ofpayroll employer contribution rate shown in the actuarial valuation report, the Actuarially Determined Contributions shown in the Schedule of Contributions are the actual contributions made by the participating employers in the fiscal year.

⁽²⁾ Covered payroll was provided by DETF.



Notes to Schedule of Contributions

Methods and Assumptions Used to Determine Contribution Amounts for the Fiscal Year Ending December 31, 2023*:

Frozen Initial Liability Level Percentage of Payroll, Closed 5 years 5-year smoothed value
3.00%
3.1% to 8.6% including inflation. 6.80%
Experience-based table of rates that are specific to the type of eligibility condition. Last
updated for the 2021 valuation pursuant to an experience study of the period 2018-2020. Fully generational mortality utilizing the WRS 2020 Mortality Table adjusted for future mortality improvements using the MP-2021 fully generational improvement scale.
Initial rate of 6.00% trending to an ultimate rate of 3.50% per year in year 12
There were no benefit changes during the year.

* Based on the December 31, 2021 Annual Actuarial Valuation of the Wisconsin Accumulated Sick Leave Conversion Credit Programs; assumptions were updated effective with the December 31, 2021 Annual Actuarial Valuation which calculates the contribution rate for fiscal year 2023.



Schedule of Investment Returns Multiyear

FY Ending December 31,	Annual Return ⁽¹⁾
2014	
2015	
2016	
2017	15.85 %
2018	(3.56)%
2019	19.49 %
2020	15.06 %
2021	17.03 %
2022	(12.94)%
2023	11.69 %

⁽¹⁾ Annual money-weighted rate of return, net of investment expenses.



SECTION D

NOTES TO FINANCIAL STATEMENTS

Auditor's Note – This information is intended to assist in preparation of the financial statements of the Supplemental Health Insurance Conversion Credit Program. Financial statements are the responsibility of management, subject to the auditor's review. Please let us know if the auditor recommends any changes.

Long-Term Expected Return on Plan Assets

The long-term expected rate of return on OPEB plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of OPEB 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. The long-term expected rate of return is reviewed every three years in conjunction with the Wisconsin Retirement System experience study. For each major asset class that is included in the OPEB plan's target asset allocation as of December 31, 2023, these best estimates of geometric real rates of return were provided by DETF and are summarized in the following table:

Asset Class	Target Allocation	Long-Term Expected Real Rate of Return ⁽¹⁾
Public Equities	40.00%	4.50%
Public Fixed Income	27.00%	3.00%
Inflation Sens. Assets	19.00%	1.70%
Real Estate	8.00%	3.00%
Private Equity/Debt	18.00%	6.70%
Cash	-12.00%	1.00%
Total	100.00 %	

Core Asset Allocation

⁽¹⁾ Long-term expected real rate of return is based on New England Pension Consultants long-term US CPI (inflation) forecast of 2.7%.



Single Discount Rate

A Single Discount Rate of 6.80% was used to measure the total OPEB liability. This Single Discount Rate was based on the expected rate of return on OPEB plan investments of 6.80%. The projection of cash flows used to determine this Single Discount Rate assumed that employer contributions will be made at rates equal to the actuarially determined contribution rate. Based on these assumptions, the OPEB plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on OPEB plan investments was applied to all periods of projected benefit payments to determine the total OPEB liability and projections were excluded from this report.

Summary of Membership Information

The following table provides a summary of the number of participants in the plan as of the valuation date:

Retirees and Beneficiaries	22,381
Inactive, Nonretired Members	421
Active Members	76,550
Total Plan Members	99,352



Sensitivity of Net OPEB Liability/(Asset)

Regarding the sensitivity of the net OPEB liability/(asset) to changes in the Single Discount Rate, the following presents the plan's net OPEB liability/(asset), calculated using a Single Discount Rate of 6.80%, as well as what the plan's net OPEB liability/(asset) would be if it were calculated using a Single Discount Rate that is one percent lower or one percent higher:

Sensitivity of Net OPEB Liability/(Asset) to the Single Discount Rate Assumption

	Current Single Discount						
	1% Decrease	Rate Assumption	1% Increase				
Discount Rate	5.80%	6.80%	7.80%				
Total OPEB Liability	\$ 1,294,796,561	\$ 1,172,115,780	\$ 1,066,397,634				
Plan Fiduciary Net Position	1,234,862,685	1,234,862,685	1,234,862,685				
Net OPEB Liability/(Asset)	\$ 59,933,876	\$ (62,746,905)	\$ (168,465,051)				

Regarding the sensitivity of the net OPEB liability/(asset) to changes in the health care cost trend rates, the following presents the plan's net OPEB liability/(asset), calculated using the assumed trend rates as well as what the plan's net OPEB liability/(asset) would be if it were calculated using a trend rate that is one percent lower or one percent higher:

Sensitivity of Net OPEB Liability/(Asset) to the Health Care Cost Trend Rate Assumption

		Current Health Care Cost	
Health Care Cost Trend Rate	1% Decrease	Trend Rate Assumption	1% Increase
Total OPEB Liability	\$ 1,093,719,278	\$ 1,172,115,780	\$ 1,246,469,679
Plan Fiduciary Net Position	1,234,862,685	1,234,862,685	1,234,862,685
Net OPEB Liability/(Asset)	\$ (141,143,407)	\$ (62,746,905)	\$ 11,606,994



SECTION E

SUMMARY OF BENEFITS

Section 40.05(4)(b) Accumulated Sick Leave Conversion Credit Program Summary of Accumulation and Payment Conditions

Accumulation. For purposes of estimating sick leave balances at retirement, each individual was assumed to continue accumulating unused sick leave at the same rate as in the past but not less than 25% of their gross accrual rate (based upon their employer group). The annual gross accrual rates used are 12 days for University Hospital and Non-Staff University employees and 16.25 days for all other members except for one small sub-group of 68 members (Beyond Vision) whose accrual rate is 6.4 days based on documentation received from the Department of Employee Trust Funds.

Eligibility for Payment of Accrued Sick Leave. Termination of employment with 20 or more years of service or eligibility for an immediate annuity from the Wisconsin Retirement System. State elected officials and certain State administrative officials terminating before their minimum service retirement age retain eligibility for benefits at their minimum service retirement age providing they do not elect a WRS separation benefit.

Amount of Payment for Unused Sick Leave. A conversion credit is computed at the time of retirement or death by multiplying the number of days of unused sick leave by the highest basic pay rate. The conversion credit is then used to cover the cost of health insurance premiums for the employee and eligible dependents. Unused portions are carried forward from year to year without interest and when total health insurance premiums paid on behalf of the retired employee equal or exceed the conversion credit, no further payments are made under the ASLCC Program. Payments from the sick leave account may be escrowed indefinitely after retirement for participants who provide evidence of comparable health insurance coverage from another source.

The section above describes the provisions of the ASLCC Program. The Supplemental Health Insurance Conversion Credit Program provides matching credits for participants retiring with 15 or more years of State service as follows:

- Protective: Match up to 78 hours (9.75 days) per full year of service through 24 years, plus up to 104 hours (13 days) per full year of service over 24 years.
- Others: Match up to 52 hours (6.5 days) per full year of service through 24 years, plus up to 104 hours (13 days) per full year of service over 24 years.

ASLCC Program sick leave conversion credits must be used before SHICC Program credits.



SECTION F

DEVELOPMENT OF BASELINE PREMIUM COSTS

Development of Baseline Premium Costs

Retirees and Beneficiaries

Retirees and Beneficiaries

	Rate Category	
	Non-Medicare	Medicare
 Number of 1-Person Contracts⁽¹⁾ Total Monthly Premium of 1-Person Contracts Average 1-Person Premium as of 1/1/2024 (2./1.) 	1,959 \$1,935,681 \$ 988.10	7,694 \$3,300,423 \$ 428.96
 4. Number of Multiple-Person Contracts^{(1),(2)} 5. Total Monthly Premium of Multiple-Person Contracts 6. Average Multiple-Person Premium as of 1/1/2024 (5./4.) 	1,329 \$3,166,410 \$ 2,382.55	6,642 \$5,250,356 \$ 790.48
7. Blended Net Premium as of 1/1/2024 (50%*3. + 50%*6.) ⁽³⁾	\$ 1,685.33	\$ 609.72
First Prior Year	\$ 1,408.08	\$ 536.37

⁽¹⁾ Retirees with an account status of active, a premium amount populated in the data provided and a sick leave credit balance greater than \$0. The number counts above were used strictly for developing blended net premiums and may be different from retiree counts shown throughout this report.

⁽²⁾ Beginning with the December 31, 2023 valuation, excludes all split contracts where one person covered is non-Medicare and the other is Medicare.

(3) Used in the valuation of all non-active annuitants (i.e., current actives, preserved members and onhold/escrowed retirees). For active annuitants, the actual premiums provided in the data are used. Blended net premium is a blend of the 1-person and 2-person average premiums based on the 50% 1-person/2-person election percent assumption.

The average premiums were calculated assuming the premiums provided in the annuitant data were premiums effective for calendar year 2024.

For retirees provided with a premium amount, a sick leave account balance, and an account status of active, the premium amounts supplied in the data were used directly. In the case of individuals not covered by Medicare, they were assumed to convert to the average Medicare premium upon attainment of Medicare eligibility pro-rated based on the ratio of their non-Medicare premium to the average non-Medicare premium. For non-retired members, the projected non-Medicare blended net premium was applied to Medicare eligibility and the projected Medicare blended net premium was applied to Medicare eligibility.



SECTION G

SUMMARY OF PARTICIPANT DATA

Summary of Participant Data

Active Participants

	State Employees			
	(Non-University)	University	University Hospital	Total
Number	32,747	33,055	10,748	76,550
Annual Payroll	\$2,543,517,574	\$ 2,889,636,573	\$850,364,861	\$ 6,283,519,008
Accrued Unused Sick Days	2,688,441 days	2,879,045 days	369,834 days	5,937,320 days
Averages: Age	44.6 years	45.5 years	40.4 years	44.4 years
Service	11.1 years	10.5 years	7.7 years	10.4 years
Sick Leave Days	82.1 days	87.1 days	34.4 days	77.6 days

Terminated Vested Participants

Number	ASLCC Sick	SHICC Sick	Total Sick Leave
	Leave Balance	Leave Balance	Balance
421	\$18,996,312	\$13,499,514	\$32,495,826

Members noted above terminated with 20 or more years of service and are eligible to begin using sick leave credits to cover health care costs upon reaching retirement age. Further, the data above includes only those terminated vested participants with a SHICC account balance.

Retirees and Beneficiaries Provided by ETF

		ASLCC Sick	SHICC Sick	Total Sick
Status	Number	Leave Balance	Leave Balance	Leave Balance
Active Annuitants with 1-Person Coverage	8,963	\$263,591,191	\$ 461,379,037	\$ 724,970,228
Active Annuitants with Multi-Person Coverage	8,968	405,860,593	643,126,371	1,048,986,964
Escrowed/On-Hold Annuitants	4,450	247,132,324	200,684,136	447,816,460
Total	22,381	\$916,584,108	\$1,305,189,544	\$2,221,773,652

Data in the table above includes only those retirees and beneficiaries with a SHICC account balance. Further, annuitants provided in the data with any of the following were excluded from the valuation:

- An account that is in a closed status, or
- A new account that is still being processed and has a status of pending, or
- An account with a \$0 sick leave balance.



SECTION H

VALUATION METHODS AND ACTUARIAL ASSUMPTIONS
Actuarial Valuation Method

For funding requirement purposes, the Supplemental Health Insurance Conversion Credit Program uses the Frozen Initial Liability Cost Method. GASB Statement No. 74 requires the use of the Entry Age Normal (EAN) Cost Method for accounting purposes; as such, we develop the Total OPEB Liability based on EAN.

Asset Valuation Method

The market value of assets was used for GASB valuation purposes.



Actuarial Methods and Assumptions used in the Valuations

The principal areas of risk assumption are:

- Long-term *rates of investment return* likely to be generated by system assets;
- Rates of mortality among participants, retirees and beneficiaries;
- Rates of withdrawal of active participants;
- Rates of disability among participants;
- Patterns of salary increases to be experienced by participants;
- The age and service distribution of actual retirements; and
- Future *rates of sick leave usage* by plan participants.

In an actuarial valuation, the actuary projects the monetary effect of each risk assumption for each distinct experience group, for the next year and for each year over the next half-century or longer.

Once actual risk experience has occurred and been observed, it will not coincide exactly with assumed risk experience, regardless of the skill of the actuary, the completeness of the data, and the precision of the calculations. Each valuation provides a complete recalculation of assumed future risk experience and takes into account all past differences between assumed and actual risk experience. The result is a continual series of small adjustments to the computed contribution rate. From time to time it becomes necessary to adjust the package of risk measurements to reflect basic experience trends -- but not random year to year fluctuations.



Annual Actuarial Valuations Assumptions Adopted by ETF Board after Consulting with Actuary

Economic Assumptions

The rationale for these assumptions is based upon an experience study covering the period 2018-2020. The experience study for the Wisconsin Retirement System developed separate assumptions for State and non-State employees. Since the Sick Leave Conversion Credit Programs are only available to State employees, the State assumptions were used in this valuation with the exception of Public School employees. The Public Schools group did not have enough State employees to develop separate assumptions, therefore, the non-State assumptions were used for this group.

The long-term rates of investment return used in making the valuation was 6.8% a year, compounded yearly.

The **Wage Inflation Rate** assumed in this valuation was 3.00% per year. The wage inflation rate is defined to be the portion of total pay increases for an individual that is due to macro-economic forces including productivity, price inflation, and labor market conditions. The wage inflation rate does not include pay changes related to individual merit and seniority effects.

No specific **Price Inflation** assumption is required to perform this valuation. The price inflation assumption used to evaluate the investment return assumption is 2.4%.

Health Care Cost Trend. The valuation of the Sick Leave Programs requires a health care cost trend assumption for purposes of projecting future health care costs. The trend vector used in this valuation begins with a near-term trend assumption and declines over time to an ultimate trend rate. The near-term rates reflect the increases in the current cost of health care goods and services. The process of trending down to a lower ultimate trend relies on the theory that premium levels will moderate over the long-term, otherwise the healthcare sector would eventually consume the entire GDP. It is on this basis that projected premium rate increases continue to exceed wage inflation for the next eleven years, but by less each year until leveling off at an ultimate rate, assumed to be 3.50% in this valuation; see below for the trend vector used in this valuation.

Year Beginning	Increase in
January 1,	Premiums
2025	5.50 %
2026	5.25
2027	5.00
2028	4.75
2029	4.50
2030	4.25
2031	4.00
2032	3.75
2033	3.75
2034 & Later	3.50



Salary adjustment factors used to project earnings for each participant between the valuation date and the participant's retirement age are shown below for sample years of service. This assumption is used to project a participant's current earnings to the earnings upon which benefits will be based.

Sick leave extracts were provided for State employees, University and University Hospital units of government. These extracts were then matched to our pension valuation data where assumptions are developed for the groups shown below:

	% Merit and Longevity Increase Next Year								
		Executive &	University	Public School	Prote	ctive			
Service	General	Elected	Teachers	Teachers	With S.S.	W/O S.S.			
1	3.5 %	2.5 %	3.0 %	5.6 %	4.8 %	5.5 %			
2	3.5 %	2.5 %	3.0 %	5.6 %	4.8 %	5.5 %			
3	3.1 %	2.0 %	2.9 %	5.2 %	4.1 %	4.7 %			
4	2.8 %	1.6 %	2.8 %	4.7 %	3.5 %	3.8 %			
5	2.5 %	1.1 %	2.7 %	4.3 %	2.8 %	3.0 %			
10	1.5 %	0.2 %	2.2 %	2.6 %	1.1 %	0.9 %			
15	1.1 %	0.2 %	1.7 %	1.4 %	0.8 %	0.5 %			
20	0.9 %	0.2 %	1.2 %	0.6 %	0.7 %	0.4 %			
25	0.6 %	0.2 %	0.9 %	0.3 %	0.6 %	0.3 %			
30	0.4 %	0.2 %	0.7 %	0.2 %	0.5 %	0.2 %			

If the number of active participants remains constant, then the total active participant payroll will increase 3.0% a year, the base portion of the individual salary increase assumptions. This increasing payroll was recognized in amortizing unfunded actuarial accrued liabilities.



Decrement Probabilities

The mortality table used was the 2020 WRS Experience Table adopted by the Board in connection with the 2018-2020 Experience Study. The rates in this table were based on actual WRS experience adjusted for future mortality improvements using the MP-2021 fully generational improvement scale from a base year of 2010. Sample retirement values from this table are shown below. This assumption is used to measure the probabilities of participants dying before retirement and the probabilities of each benefit payment being made after retirement. For any current annuitants with a multiple person contract, no mortality was applied in the calculation of the present value of future benefits.

Single Life Expectancy 2020 WRS Experience Table

Sample	Future Life				
Attained Ages	Expectar	ncy (Years) ⁽¹⁾			
in 2023	Males	Females			
40	47.2	49.3			
45	42.0	44.0			
50	36.8	38.8			
55	31.7	33.7			
60	26.7	28.8			
65	22.0	24.0			
70	17.5	19.3			
75	13.4	15.0			
80	9.8	11.0			
85	6.8	7.8			

⁽¹⁾ With a fully generational mortality table, the mortality rate depends on the year of birth. Later years of birth will correspond to a lower mortality rate at a given age.

The values shown above are for non-disabled participants.



Active Participant	Mortality Rates
---------------------------	------------------------

Sample	Mortality Rates ⁽¹⁾					
Attained Ages	N4 - 1	F				
in 2023	Males	Females				
20	0.000400	0.000166				
25	0.000215	0.000130				
30	0.000353	0.000227				
35	0.000521	0.000330				
40	0.000652	0.000433				
45	0.000831	0.000546				
50	0.001192	0.000777				
55	0.001866	0.001232				
60	0.003079	0.001948				
65	0.004985	0.003006				
70	0.007459	0.004950				
75	0.010846	0.009409				
80	0.021611	0.019401				

⁽¹⁾ With a fully generational mortality table, the mortality rate depends on the year of birth. Later years of birth will correspond to a lower mortality rate at a given age.

This assumption is used to measure the probability of participants dying while in service.



Rates of Retirement for Those Eligible to Retire

	Gen	eral	Executive	Univ	ersity	Public School		Prote	ctive ⁽¹⁾
Age	Males	Females	& Elected	Males	Females	Males	Females	With S.S.	W/O S.S.
50								7.5%	3.0%
51								9.0%	3.5%
52								11.0%	4.5%
53								25.0%	17.0%
54								20.0%	24.0%
55								20.0%	29.0%
56								20.0%	32.0%
57	19.0%	19.0%	12.0%	12.0%	10.0%	31.0%	27.5%	20.0%	23.0%
58	19.0%	19.0%	12.0%	16.0%	20.0%	29.0%	27.5%	20.0%	27.0%
59	19.0%	19.0%	12.0%	9.0%	12.0%	28.0%	26.0%	20.0%	40.0%
60	19.0%	21.0%	12.0%	15.0%	14.0%	27.0%	29.0%	20.0%	25.0%
61	19.0%	25.0%	12.0%	9.0%	13.0%	26.0%	27.0%	20.0%	25.0%
62	28.0%	29.0%	18.0%	10.0%	15.0%	39.0%	36.0%	25.0%	31.0%
63	30.0%	28.0%	18.0%	11.0%	19.0%	33.0%	31.0%	25.0%	40.0%
64	25.0%	31.0%	18.0%	15.5%	17.0%	30.0%	30.0%	36.0%	40.0%
65	27.0%	31.0%	18.0%	15.5%	21.0%	32.0%	38.5%	38.0%	40.0%
66	35.0%	36.0%	18.0%	21.0%	25.0%	35.0%	44.0%	38.0%	100.0%
67	32.0%	33.0%	18.0%	18.0%	25.0%	31.0%	31.0%	38.0%	100.0%
68	21.0%	25.0%	18.0%	19.0%	18.0%	28.0%	30.0%	38.0%	100.0%
69	21.0%	27.0%	18.0%	14.0%	16.5%	20.0%	30.0%	38.0%	100.0%
70	21.0%	29.0%	18.0%	21.0%	22.0%	30.0%	32.0%	100.0%	100.0%
71	21.0%	34.0%	15.0%	24.0%	16.5%	25.0%	25.0%	100.0%	100.0%
72	21.0%	33.0%	15.0%	24.0%	17.0%	25.0%	25.0%	100.0%	100.0%
73	30.0%	24.0%	15.0%	24.0%	21.0%	25.0%	25.0%	100.0%	100.0%
74	30.0%	18.0%	15.0%	24.0%	14.0%	25.0%	25.0%	100.0%	100.0%
75	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Normal Retirement Pattern

⁽¹⁾ Includes reduced retirements for Protective with 20+ years of service.

Reduced Retirement Pattern

	% Retiring Next Year								
	Gen	eral	Executive	Univ	ersity	Public	Public School		
Age	Males	Females	& Elected	Males	Females	Males	Females		
55	5.5%	6.0%	6.0%	3.3%	5.0%	12.0%	11.0%		
56	6.5%	8.0%	6.0%	3.3%	5.0%	13.0%	13.0%		
57	5.5%	6.0%	6.0%	4.0%	5.0%	13.0%	12.0%		
58	5.5%	9.0%	6.0%	4.0%	5.5%	12.0%	13.0%		
59	6.5%	7.5%	6.0%	4.4%	6.0%	14.3%	13.5%		
60	9.0%	10.0%	6.0%	4.8%	7.5%	16.0%	17.0%		
61	12.5%	11.0%	6.0%	4.8%	9.0%	16.0%	17.0%		
62	16.0%	18.0%	6.0%	7.0%	11.0%	23.0%	24.0%		
63	17.0%	19.5%	3.0%	8.3%	12.0%	21.0%	24.0%		
64	21.0%	18.0%	3.0%	11.5%	14.5%	21.0%	24.0%		



The assumed rates of separation from employment prior to service retirement due to disability and other causes are shown below for sample ages. All participants terminating prior to normal retirement age with less than 20 years of service are not eligible for sick leave program benefits.

			% of Active Participants Terminating							
									Protective	
									With	Without
		Gen	eral	Executive	Unive	rsity	Public	Schools	Soc.	Soc.
Age	Service	Males	Females	& Elected	Males	Females	Males	Females	Sec.	Sec.
	0-1	17.2%	19.5%	19.0%	14.0%	14.1%	12.6%	12.0%	18.8%	4.5%
	1-2	12.9%	15.5%	16.0%	13.8%	14.0%	11.6%	10.0%	15.5%	4.0%
	2-3	9.5%	12.5%	13.0%	12.6%	12.7%	8.5%	8.5%	10.5%	2.0%
	3-4	7.4%	10.0%	12.5%	11.0%	10.0%	6.0%	6.2%	6.5%	1.8%
	4-5	7.3%	8.7%	12.0%	8.6%	9.3%	5.6%	5.8%	5.5%	1.7%
	5-6	6.1%	7.8%	6.0%	8.5%	8.1%	4.5%	4.8%	5.0%	1.3%
	6-7	5.2%	6.9%	6.0%	7.0%	7.0%	3.7%	4.1%	4.5%	1.2%
	7-8	5.1%	6.0%	6.0%	5.6%	5.6%	2.9%	3.5%	4.0%	0.9%
	8-9	4.5%	5.6%	6.0%	4.6%	4.9%	2.6%	3.4%	3.5%	0.8%
	9-10	3.6%	5.5%	6.0%	4.3%	4.3%	2.5%	3.0%	3.3%	0.7%
30	10 & Over	3.1%	4.8%	4.5%	4.2%	4.0%	2.0%	2.2%	2.9%	0.7%
35		2.7%	3.9%	4.5%	4.0%	4.0%	1.6%	1.9%	2.4%	0.6%
40		2.6%	3.0%	4.5%	3.4%	3.7%	1.4%	1.6%	1.8%	0.6%
45		2.4%	2.7%	4.2%	2.8%	3.2%	1.4%	1.4%	1.4%	0.5%
50		1.9%	2.1%	3.7%	2.3%	2.7%	1.3%	1.2%	1.2%	0.5%
54		1.7%	1.8%	3.5%	2.2%	2.5%	1.3%	1.2%	1.2%	0.5%

Assumed Termination Rates by Attained Age and Years of Service

Disability Rates

	% of Active Participants Becoming Disabled									
	Ger	neral	Executive	& Elected	University		Public Schools		Protective	
Age	Males	Females	Males	Females	Males	Females	Males	Females	With SS	W/OSS
20	0.01%	0.01%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.02%	0.03%
25	0.01%	0.01%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.02%	0.03%
30	0.01%	0.04%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%	0.02%	0.03%
35	0.01%	0.05%	0.01%	0.01%	0.00%	0.03%	0.01%	0.01%	0.03%	0.03%
40	0.03%	0.07%	0.01%	0.01%	0.01%	0.04%	0.01%	0.02%	0.05%	0.05%
45	0.06%	0.10%	0.01%	0.01%	0.02%	0.04%	0.03%	0.05%	0.07%	0.10%
50	0.13%	0.16%	0.02%	0.02%	0.03%	0.07%	0.08%	0.10%	0.11%	0.55%
55	0.24%	0.29%	0.09%	0.09%	0.08%	0.11%	0.14%	0.14%	1.73%	0.41%
60	0.43%	0.41%	0.11%	0.11%	0.11%	0.17%	0.24%	0.21%	2.92%	0.12%



Miscellaneous and Technical Assumptions

Active Member Data:	Effective with the December 31, 2022 valuation, a standalone sick leave data extract was provided. Information for active members was used as received for the sick leave valuation. It was assumed that all active members would begin using sick leave credits to pay for retiree health care immediately upon becoming eligible to do so.
Decrement Operation:	Disability operates during the retirement pattern.
Decrement Relativity:	Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
Decrement Timing:	Decrements of all types are assumed to occur mid-year.
Election Percent Assumption:	It was assumed that 50% of future retirees would elect 1-person coverage and 50% would elect multiple-person coverage upon retirement.
Eligibility Testing:	Eligibility for benefits is determined based upon the age nearest birthday and total service (in all benefit groups) nearest whole year on the date the decrement is assumed to occur.
Escrowed Liabilities:	The actuarial accrued liability for annuitants with a sick leave account balance and an account status of escrowed or on-hold provided in the data was calculated by drawing down each member's account balance using the same average net premiums applicable to active members. The present value was then multiplied by 50% to account for the assumption that only 50% of on-hold/escrowed retirees will, at some point, begin using their sick leave balance to pay for health care costs.
Liability Adjustments:	None
Missing Premiums:	For any active annuitants with a sick leave balance but no premium in the data, the average premiums were used to develop liabilities.
Terminated Vested Members Usage:	For purposes of developing the present value of future benefits for terminated vested members, it was assumed that 100% of the members would begin using their sick leave credits to cover health care costs immediately upon reaching eligibility to do so.
Unknown Gender:	For any members provided with an unknown gender, the member was assumed to be female.



SECTION I

CALCULATION OF THE SINGLE DISCOUNT RATE

Calculation of the Single Discount Rate

GASB Statement No. 74 includes a specific requirement for the discount rate that is used for the purpose of the measurement of the Total OPEB Liability. This rate considers the ability of the fund to meet benefit obligations in the future. To make this determination, employer contributions, employee contributions, benefit payments, expenses and investment returns are projected into the future. The Plan Net Position (assets) in future years can then be determined and compared to its obligation to make benefit payments in those years. As long as assets are projected to be on hand in a future year, the assumed valuation discount rate is used. In years where assets are not projected to be sufficient to meet benefit payments, the use of a municipal bond rate is required, as described in the following paragraph.

The Single Discount Rate (SDR) is equivalent to applying these two rates to the benefits that are projected to be paid during the different time periods. The SDR reflects: (1) the long-term expected rate of return on OPEB plan investments (during the period in which the fiduciary net position is projected to be sufficient to pay benefits); and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of this valuation, the expected rate of return on OPEB plan investments is 6.80%; the municipal bond rate is 3.77%; and the resulting SDR is 6.80%.

Administrative expenses were not included in the SDR projection.

The tables in this section provide background for the development of the SDR.

The **Projection of Contributions** table shows the development of expected contributions in future years. Normal Cost contributions for future hires are not included (nor are their liabilities). The 0.2% contribution rate for the first year was developed from the 2022 actuarial valuation and the second year 0.3% contribution rate was developed from the 2023 actuarial valuation.

The **Projection of Fiduciary Net Position** table shows the development of expected asset levels in future years.

The **Present Values of Projected Benefit Payments** table shows the development of the SDR. It breaks down the benefit payments into present values for funded and unfunded portions and shows the equivalent total at the SDR.



Single Discount Rate Development Projection of Contributions Ending December 31, 2123

	Projected	Projected Service	Projected	Projected	
	Contributions from	Cost and Expense	UAL	Total	
Year	Current Employees	Contributions	Contributions	Contributions	
1	\$ 0	\$ 12,456,955	\$ 0	\$ 12,456,955	
2	0	17,861,006	0	17,861,006	
3	0	25,703,409	0	25,703,409	
4	0	24,829,115	0	24,829,115	
5	0	24,030,133	0	24,030,133	
6	0	23,281,948	0	23,281,948	
7	0	22,570,491	0	22,570,491	
8	0	21,885,409	0	21,885,409	
9	0	21,215,482	0	21,215,482	
10	0	20,557,183	0	20,557,183	
11	0	19,904,186	0	19,904,186	
12	0	19,240,295	0	19,240,295	
13	0	18,558,988	0	18,558,988	
14	0	17,862,477	0	17,862,477	
15	0	17,151,119	0	17,151,119	
16	0	16,423,916	0	16,423,916	
17	0	15,677,322	0	15,677,322	
18	0	14,908,577	0	14,908,577	
19	0	14,115,423	0	14,115,423	
20	0	13,291,179	0	13,291,179	
21	0	12,438,928	0	12,438,928	
22	0	11,570,293	0	11,570,293	
23	0	10,693,483	0	10,693,483	
24	0	9,815,434	0	9,815,434	
25	0	8,940,592	0	8,940,592	
26	0	8,075,854	0	8,075,854	
27	0	7,229,836	0	7,229,836	
28	0	6,408,060	0	6,408,060	
29	0	5,609,581	0	5,609,581	
30	0	4,835,090	0	4,835,090	
31	0	4,110,167	0	4,110,167	
32	0	3,456,649	0	3,456,649	
33	0	2,870,231	0	2,870,231	
34	0	2,350,824	0	2,350,824	
35	0	1,899,847	0	1,899,847	
36	0	1,517,446	0	1,517,446	
37	0	1,199,185	0	1,199,185	
38	0	935,950	0	935,950	
39	0	720,389	0	720,389	
40	0	547,006	0	547,006	
41	0	410,869	0	410,869	
42	0	305,153	0	305,153	
43	0	223,620	0	223,620	
44	0	162,290	0	162,290	
45	0	116,816	0	116,816	
46	0	83,447	0	83,447	
47	0	58,960	0	58,960	
48	0	40,532	0	40,532	
49	0	26,896	0	26,896	
50	0	16,951	0	16,951	
	C C	,	Ũ		



Single Discount Rate Development Projection of Contributions Ending December 31, 2123 (Concluded)

	Projected Contributions from	Projected Service Cost and Expense	Projected UAL	Projected Total
Year	Current Employees	Contributions	Contributions	Contributions
51	\$ 0	\$ 9,629	\$ 0	\$ 9,629
52	0	4,585	0	4,585
53	0	1,663	0	1,663
54	0	511	0	511
55 56	0	201 60	0	201 60
57	0	12	0	12
58	0	12	0	1
59	0	0	0	0
60	0	0	0	0
61	0	0	0	0
62	0	0	0	0
63	0	0	0	0
64	0	0	0	0
65	0	0	0	0
66	0	0	0	0
67	0	0	0	0
68	0	0	0	0
69	0	0	0	0
70	0	0	0	0
71	0	0	0	0
72	0	0	0	0
73	0	0	0	0
74	0	0	0	0
75	0	0	0	0
76	0	0	0	0
77	0	0	0	0
78	0	0	0	0
79	0	0	0	0
80	0	0	0	0
81	0	0	0	0
82	0	0	0	0
83	0	0	0	0
84	0	0	0	0
85 86	0	0	0	0 0
87 88	0 0	0 0	0 0	0 0
89	0	0	0	0
90	0	0	0	0
91	0	0	0	0
92	0	0	0	0
93	0	0	0	0
94	0	0	0	0
95	0	0	0	0
96	0	0	0	0
97	0	0	0	0
98	0	0	0	0
99	0	0	0	0
100	0	0	0	0



Single Discount Rate Development Projection of Plan Fiduciary Net Position Ending December 31, 2123

		-		-,		
	Projected	Projected	Dura ta ata d	Duration and the second second	Projected	
Year	Beginning Plan Net Position	Total Contributions	Projected Benefit Payments	Projected Investment Earnings at 6.80%	Ending Plan Net Position	
fedi			-			
1	(a) \$ 1,234,862,685	(b) \$ 12,456,955	(c) \$ 69,535,982	(d) \$ 82,061,891	(e)=(a)+(b)-(c)+(d)	
1						
2	1,259,845,549	17,861,006	75,861,273	83,729,919	1,285,575,200	
3	1,285,575,200	25,703,409	81,138,851	85,565,305	1,315,705,063	
4	1,315,705,063	24,829,115	84,582,311	87,469,746	1,343,421,614	
5	1,343,421,614	24,030,133	88,251,833	89,205,041	1,368,404,955	
6	1,368,404,955	23,281,948	91,964,734	90,754,726	1,390,476,896	
7	1,390,476,896	22,570,491	93,689,583	92,174,146	1,411,531,950	
8	1,411,531,950	21,885,409	94,436,892	93,557,989	1,432,538,457	
9	1,432,538,457	21,215,482	95,612,120	94,924,728	1,453,066,547	
10	1,453,066,547	20,557,183	96,478,686	96,269,645	1,473,414,690	
11	1,473,414,690	19,904,186	97,041,254	97,612,669	1,493,890,291	
12	1,493,890,291	19,240,295	98,275,972	98,941,519	1,513,796,134	
13	1,513,796,134	18,558,988	99,759,142	100,222,735	1,532,818,716	
14	1,532,818,716	17,862,477	101,796,898	101,424,834	1,550,309,129	
15	1,550,309,129	17,151,119	103,999,685	102,516,731	1,565,977,294	
16	1,565,977,294	16,423,916	106,969,120	103,458,547	1,578,890,638	
17	1,578,890,638	15,677,322	109,934,417	104,212,526	1,588,846,068	
18	1,588,846,068	14,908,577	112,678,957	104,772,008	1,595,847,696	
19	1,595,847,696	14,115,423	115,204,049	105,137,153	1,599,896,224	
20	1,599,896,224	13,291,179	117,831,636	105,297,021	1,600,652,789	
21	1,600,652,789	12,438,928	121,007,450	105,213,766	1,597,298,033	
22	1,597,298,033	11,570,293	124,254,469	104,848,011	1,589,461,869	
23	1,589,461,869	10,693,483	127,277,330	104,184,744	1,577,062,766	
24	1,577,062,766	9,815,434	129,817,462	103,227,298	1,560,288,035	
25	1,560,288,035	8,940,592	132,248,329	101,976,070	1,538,956,368	
26	1,538,956,368	8,075,854	134,525,802	100,420,439	1,512,926,860	
27	1,512,926,860	7,229,836	135,914,648	98,575,696	1,482,817,744	
28	1,482,817,744	6,408,060	136,791,337	96,471,478	1,448,905,945	
29	1,448,905,945	5,609,581	137,502,631	94,114,988	1,411,127,884	
30	1,411,127,884	4,835,090	137,611,541	91,516,538	1,369,867,972	
31	1,369,867,972	4,110,167	137,610,463	88,686,658	1,325,054,335	
32	1,325,054,335	3,456,649	137,923,105	85,607,022	1,276,194,900	
33	1,276,194,900	2,870,231	138,472,360	82,246,602	1,222,839,372	
34	1,222,839,372	2,350,824	138,797,332	78,590,190	1,164,983,054	
35	1,164,983,054	1,899,847	138,160,733	74,662,167	1,103,384,336	
36	1,103,384,336	1,517,446	136,758,402	70,507,562	1,038,650,941	
37	1,038,650,941	1,199,185	134,525,520	66,169,717	971,494,324	
38	971,494,324	935,950	130,837,451	61,717,597	903,310,420	
38 39	903,310,420	720,389	125,746,358	57,244,133	835,528,584	
40	835,528,584	547,006	119,198,984	52,848,120	769,724,727	
41	769,724,727	410,869	111,608,843	48,622,726	707,149,481	
42	707,149,481	305,153	103,920,073	44,621,193	648,155,754	
43	648,155,754	223,620	96,982,298	40,838,898	592,235,975	
44	592,235,975	162,290	91,294,338	37,224,513	538,328,439	
45	538,328,439	116,816	86,050,262	33,732,646	486,127,639	
46	486,127,639	83,447	80,581,262	30,364,764	435,994,588	
47	435,994,588	58,960	74,686,667	27,152,018	388,518,899	
48	388,518,899	40,532	68,568,528	24,127,650	344,118,553	
49	344,118,553	26,896	62,460,007	21,312,245	302,997,687	
50	302,997,687	16,951	56,483,853	18,715,541	265,246,326	



Wisconsin Department of Employee Trust Funds December 31, 2023 Sick Leave (SHICC Program) GASB 74/75 Valuation

Single Discount Rate Development Projection of Plan Fiduciary Net Position Ending December 31, 2123 (Concluded)

	LIIMI	' 5	Determo		51, 212		Conciae		
	Projected		Projected						Projected
Veer	Beginning	_	Total		Projected enefit Payments	P	rojected Investment		Ending
Year	Plan Net Position	1	Contributions	В			Earnings at 6.80%		Plan Net Position
54	(a)	20 0	(b)	~	(c)		(d)	~	(e)=(a)+(b)-(c)+(d)
51	\$ 265,246,3			\$	50,886,458	\$	16,335,386	Ş	230,704,883
52	230,704,8		4,585		45,656,211		14,161,303		199,214,559
53	199,214,5		1,663		40,780,922		12,182,897		170,618,197
54	170,618,1		511		36,232,453		10,390,410		144,776,665
55	144,776,6		201		31,987,922		8,775,117		121,564,061
56	121,564,0		60		27,998,705		7,330,058		100,895,474
57	100,895,4		12		24,210,697		6,051,266		82,736,054
58	82,736,0		1		20,682,881		4,934,399		66,987,573
59	66,987,5		0		17,446,714		3,971,722		53,512,581
60	53,512,5		0		14,518,160		3,153,356		42,147,777
61	42,147,7		0		11,924,537		2,467,282		32,690,522
62	32,690,5		0		9,647,757		1,900,326		24,943,091
63	24,943,0		0		7,689,560		1,438,985		18,692,516
64	18,692,5		0		6,031,261		1,069,401		13,730,655
65	13,730,6		0		4,643,883		778,389		9,865,161
66	9,865,1		0		3,506,457		553,572		6,912,276
67	6,912,2		0		2,588,335		383,479		4,707,420
68	4,707,4		0		1,859,615		257,917		3,105,722
69	3,105,7		0		1,295,176		167,877		1,978,424
70	1,978,4		0		871,983		105,373		1,211,814
71	1,211,8		0		563,153		63,571		712,232
72	712,2		0		346,776		36,835		402,291
73	402,2		0		205,110		20,497		217,678
74	217,6	78	0		115,785		10,930		112,823
75	112,8		0		62,763		5,573		55,633
76	55,6		0		32,340		2,702		25,995
77	25,9	95	0		15,646		1,244		11,593
78	11,5	93	0		7,148		549		4,994
79	4,9	94	0		3,100		236		2,130
80	2,1	30	0		1,311		101		920
81	9	20	0		547		44		417
82	4	17	0		228		21		210
83	2	10	0		86		11		136
84	1	36	0		32		8		112
85	1	12	0		13		7		106
86	1	06	0		4		7		109
87	1	09	0		1		7		115
88	1	15	0		0		8		123
89	1	23	0		0		8		132
90	1	32	0		0		9		141
91	1	41	0		0		10		150
92	1	50	0		0		10		160
93	1	60	0		0		11		171
94	1	71	0		0		12		183
95	1	83	0		0		12		195
96	1	95	0		0		13		209
97	2	09	0		0		14		223
98		23	0		0		15		238
99		38	0		0		16		254
100	2	54	0		0		17		271



Single Discount Rate Development Present Values of Projected Benefits Ending December 31, 2123

Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Projected Benefit Payments	Unfunded Portion of Projected Benefit Payments	Funded Benefit Payments using Expected Return Rate (v)	Unfunded Benefit Payments using Municipal Bond Rate (vf)	All Benefit Payments using Single Discount Rate (SDR)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=(c)/(1+SDR)^(a5)
1	\$ 1,234,862,685	\$ 69,535,982	\$ 69,535,982	\$ 0	\$ 67,285,885		\$ 67,285,885
2	1,259,845,549	75,861,273	75,861,273	0	68,732,675	0	68,732,675
3	1,285,575,200	81,138,851	81,138,851	0	68,833,638	0	68,833,638
4	1,315,705,063	84,582,311	84,582,311	0	67,186,213	0	67,186,213
5	1,343,421,614	88,251,833	88,251,833	0	65,637,661	0	65,637,661
6	1,368,404,955	91,964,734	91,964,734	0	64,044,145	0	64,044,145
7	1,390,476,896	93,689,583	93,689,583	0	61,091,130	0	61,091,130
8	1,411,531,950	94,436,892	94,436,892	0	57,657,697	0	57,657,697
9	1,432,538,457	95,612,120	95,612,120	0	54,658,449	0	54,658,448
10	1,453,066,547	96,478,686	96,478,686	0	51,642,169	0	51,642,169
11	1,473,414,690	97,041,254	97,041,254	0	48,636,044	0	48,636,044
12	1,493,890,291	98,275,972	98,275,972	0	46,118,794	0	46,118,794
13	1,513,796,134	99,759,142	99,759,142	0	43,834,095	0	43,834,095
14	1,532,818,716	101,796,898	101,796,898	0	41,881,539	0	41,881,539
15	1,550,309,129	103,999,685	103,999,685	0	40,063,497	0	40,063,497
16	1,565,977,294	106,969,120	106,969,120	0	38,583,712	0	38,583,712
17	1,578,890,638	109,934,417	109,934,417	0	37,128,552	0	37,128,552
18	1,588,846,068	112,678,957	112,678,957	0	35,632,467	0	35,632,467
19	1,595,847,696	115,204,049	115,204,049	0	34,111,402	0	34,111,402
20	1,599,896,224	117,831,636	117,831,636	0	32,667,995	0	32,667,995
21	1,600,652,789	121,007,450	121,007,450	0	31,412,422	0	31,412,422
22	1,597,298,033	124,254,469	124,254,469	0	30,201,609	0	30,201,609
23	1,589,461,869	127,277,330	127,277,330	0	28,966,623	0	28,966,623
24	1,577,062,766	129,817,462	129,817,462	0	27,663,599	0	27,663,599
25	1,560,288,035	132,248,329	132,248,329	0	26,387,273	0	26,387,273
26	1,538,956,368	134,525,802	134,525,802	0	25,132,671	0	25,132,671
27	1,512,926,860	135,914,648	135,914,648	0	23,775,413	0	23,775,413
28	1,482,817,744	136,791,337	136,791,337	0	22,405,217	0	22,405,217
29	1,448,905,945	137,502,631	137,502,631	0	21,087,753	0	21,087,753
30	1,411,127,884	137,611,541	137,611,541	0	19,760,726	0	19,760,726
31	1,369,867,972	137,610,463	137,610,463	0	18,502,408	0	18,502,408
32	1,325,054,335	137,923,105	137,923,105	0	17,363,712	0	17,363,712
33	1,276,194,900	138,472,360	138,472,360	0	16,322,902	0	16,322,902
34	1,222,839,372	138,797,332	138,797,332	0	15,319,484	0	15,319,484
35	1,164,983,054	138,160,733	138,160,733	0	14,278,297	0	14,278,297
36	1,103,384,336	136,758,402	136,758,402	0	13,233,495	0	13,233,495
37	1,038,650,941	134,525,520	134,525,520	0	12,188,604	0	12,188,604
38	971,494,324	130,837,451	130,837,451	0	11,099,671	0	11,099,671
39	903,310,420	125,746,358	125,746,358	0	9,988,544	0	9,988,544
40	835,528,584	119,198,984	119,198,984	0	8,865,599	0	8,865,599
40	769,724,727	111,608,843	111,608,843	0	7,772,538	0	7,772,538
42	707,149,481	103,920,073	103,920,073	0	6,776,297	0	6,776,297
42	648,155,754	96,982,298	96,982,298	0	5,921,261	0	5,921,261
43	592,235,975	91,294,338	91,294,338	0	5,219,085	0	5,219,085
44	538,328,439	86,050,262	86,050,262	0	4,606,080	0	4,606,080
45 46	486,127,639	80,581,262	80,581,262	0	4,038,704	0	4,008,080
40	435,994,588	74,686,667	74,686,667	0	3,504,934	0	3,504,934
48 49	388,518,899 344,118,553	68,568,528	68,568,528	0	3,012,939	0	3,012,939 2,569,782
49 50	344,118,553 302,997,687	62,460,007 56,483,853	62,460,007 56,483,853	0	2,569,782 2,175,942	0	2,569,782 2,175,942



Single Discount Rate Development Present Values of Projected Benefits Ending December 31, 2123 (Concluded)

Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Projected Benefit Payments	Unfunded Portion of Projected Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of All Benefit Payments using Single Discount Rate (SDR)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=(c)/(1+SDR)^(a5)
51	\$ 265,246,326				\$ 1,835,498		\$ 1,835,498
52	230,704,883	45,656,211	45,656,211	0	1,541,986	0	1,541,986
53	199,214,559	40,780,922	40,780,922	0	1,289,633	0	1,289,633
54	170,618,197	36,232,453	36,232,453	0	1,072,842	0	1,072,842
55	144,776,665	31,987,922	31,987,922	0	886,855	0	886,855
56	121,564,061	27,998,705	27,998,705	0	726,831	0	726,831
57	100,895,474	24,210,697	24,210,697	0	588,480	0	588,480
58	82,736,054	20,682,881	20,682,881	0	470,721	0	470,721
59	66,987,573	17,446,714	17,446,714	0	371,788	0	371,788
60	53,512,581	14,518,160	14,518,160	0	289,682	0	289,682
61	42,147,777	11,924,537	11,924,537	0	222,782	0	222,782
62	32,690,522	9,647,757	9,647,757	0	168,770	0	168,770
63	24,943,091	7,689,560	7,689,560	0	125,950	0	125,950
64	18,692,516	6,031,261	6,031,261	0	92,498	0	92,498
65	13,730,655	4,643,883	4,643,883	0	66,686	0	66,686
66	9,865,161	3,506,457	3,506,457	0	47,147	0	47,147
67	6,912,276	2,588,335	2,588,335	0	32,586	0	32,586
68	4,707,420	1,859,615	1,859,615	0	21,921	0	21,921
69	3,105,722	1,295,176	1,295,176	0	14,295	0	14,295
70	1,978,424	871,983	871,983	0	9,012	0	9,012
71	1,211,814	563,153	563,153	0	5,449	0	5,449
72	712,232	346,776	346,776	0	3,142	0	3,142
73	402,291	205,110	205,110	0	1,740	0	1,740
74	217,678	115,785	115,785	0	920	0	920
75	112,823	62,763	62,763	0	467	0	467
76	55,633	32,340	32,340	0	225	0	225
77	25,995	15,646	15,646	0	102	0	102
78	11,593	7,148	7,148	0	44	0	44
79	4,994	3,100	3,100	0	18	0	18
80	2,130	1,311	1,311	0	7	0	7
81	920	547	547	0	3	0	3
82	417	228	228	0	1	0	1
83	210	86	86	0	0	0	0
84	136	32	32	0	0	0	0
85	112	13	13	0	0	0	0
86	106	4	4	0	0	0	0
87	109	1	1	0	0	0	0
88	115	0	0	0	0	0	0
89	123	0	0	0	0	0	0
90	132	0	0	0	0	0	0
91	141	0	0	0	0	0	0
92	150	0	0	0	0	0	0
93	160	0	0	0	0	0	0
94	171	0	0	0	0	0	0
95	183	0	0	0	0	0	0
96	195	0	0	0	0	0	0
97	209	0	0	0	0	0	0
98	223	0	0	0	0	0	0
99	238	0	0	0	0	0	0
100	254	0	0	0	0	0	0
				Totals	\$ 1,474,869,423	\$ O	\$ 1,474,869,422



SECTION J

GLOSSARY OF TERMS

Accrued Service	Service credited under the system that was rendered before the date of the actuarial valuation.
Actuarial Accrued Liability (AAL)	The AAL is the difference between the actuarial present value of all benefits and the actuarial value of future normal costs. The definition comes from the fundamental equation of funding which states that the present value of all benefits is the sum of the Actuarial Accrued Liability and the present value of future normal costs. The AAL may also be referred to as "accrued liability" or "actuarial liability."
Actuarial Assumptions	These assumptions are estimates of future experience with respect to rates of mortality, disability, turnover, retirement, rate or rates of investment income and compensation increases. Actuarial assumptions are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (compensation increases, payroll growth, inflation and investment return) consist of an underlying real rate of return plus an assumption for a long-term average rate of inflation.
Actuarial Cost Method	A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of the OPEB trust benefits between future normal cost and actuarial accrued liability. The actuarial cost method may also be referred to as the actuarial funding method.
Actuarial Equivalent	A single amount or series of amounts of equal actuarial value to another single amount or series of amounts, computed on the basis of appropriate actuarial assumptions.
Actuarial Gain (Loss)	The difference in liabilities between actual experience and expected experience during the period between two actuarial valuations is the gain (loss) on the accrued liabilities.
Actuarial Present Value (APV)	The amount of funds currently required to provide a payment or series of payments in the future. The present value is determined by discounting future payments at predetermined rates of interest and probabilities of payment.
Actuarial Valuation	The actuarial valuation report determines, as of the actuarial valuation date, the service cost, total OPEB liability, and related actuarial present value of projected benefit payments for OPEB.
Actuarial Valuation Date	The date as of which an actuarial valuation is performed.



Actuarially Determined Contribution (ADC) or Annual Required Contribution (ARC)	A calculated contribution into an OPEB plan for the reporting period, most often determined based on the funding policy of the plan. Typically, the Actuarially Determined Contribution has a normal cost payment and an amortization payment.
Amortization Method	The method used to determine the periodic amortization payment may be a level dollar amount, or a level percent of pay amount. The period will typically be expressed in years, and the method will either be "open" (meaning, reset each year) or "closed" (the number of years remaining will decline each year).
Amortization Payment	The amortization payment is the periodic payment required to pay off an interest-discounted amount with payments of interest and principal.
Cost-of-Living Adjustments	Postemployment benefit changes intended to adjust benefit payments for the effects of inflation.
Cost-Sharing Multiple- Employer Defined Benefit OPEB Plan (cost-sharing OPEB plan)	A multiple-employer defined benefit OPEB plan in which the OPEB obligations to the employees of more than one employer are pooled and OPEB plan assets can be used to pay the benefits of the employees of any employer that provides benefits through the OPEB plan.
Covered-Employee Payroll	The payroll of employees that are provided with benefits through the OPEB plan.
Deferred Inflows and Outflows	The deferred inflows and outflows of OPEB resources are amounts used under GASB Statement No. 75 in developing the annual OPEB expense/(revenue). Deferred inflows and outflows arise with differences between expected and actual experiences; changes of assumptions. The portion of these amounts not included in the OPEB expense/(revenue) should be included in the deferred inflows or outflows of resources.
Discount Rate	For GASB purposes, the discount rate is the single rate of return that results in the present value of all projected benefit payments to be equal to the sum of the funded and unfunded projected benefit payments, specifically:
	 The benefit payments to be made while the OPEB plans' fiduciary net position is projected to be greater than the benefit payments that are projected to be made in the period; and The present value of the benefit payments not in (1) above, discounted using the municipal bond rate.



Entry Age Actuarial Cost Method (EAN)	The EAN is a cost method for allocating the costs of the plan between the normal cost and the accrued liability. The actuarial present value of the projected benefits of each individual included in an actuarial valuation is allocated on a level basis (either level dollar or level percent of pay) over the earnings or service of the individual between entry age and assumed exit age(s). The portion of the actuarial present value allocated to a valuation year is 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 the actuarial accrued liability. The sum of the accrued liability plus the present value of all future normal costs is the present value of all benefits.
Fiduciary Net Position	The fiduciary net position is the market value of the assets of the trust dedicated to the defined benefit provisions.
GASB	The Governmental Accounting Standards Board is an organization that exists in order to promulgate accounting standards for governmental entities.
Long-Term Expected Rate of Return	The long-term rate of return is the expected return to be earned over the entire trust portfolio based on the asset allocation of the portfolio.
Money-Weighted Rate of Return	The money-weighted rate of return is a method of calculating the returns that adjusts for the changing amounts actually invested. For purposes of GASB Statement No. 74, the money-weighted rate of return is calculated as the internal rate of return on OPEB plan investments, net of OPEB plan investment expense.
Multiple-Employer Defined Benefit OPEB Plan	A multiple-employer plan is a defined benefit OPEB plan that is used to provide OPEB payments to the employees of more than one employer.
Municipal Bond Rate	The Municipal Bond Rate is the discount rate to be used for those benefit payments that occur after the assets of the trust have been depleted.
Net OPEB Liability (NOL)	The NOL is the liability of employers and non-employer contributing entities to plan members for benefits provided through a defined benefit OPEB plan.
Non-Employer Contributing Entities	Non-employer contributing entities are entities that make contributions to an OPEB plan that is used to provide OPEB payments to the employees of other entities. For purposes of the GASB accounting statements, plan members are not considered non- employer contributing entities.



Normal Cost	The portion of the actuarial present value allocated to a valuation year is called the normal cost. For purposes of application to the requirements of this Statement, the term normal cost is the equivalent of service cost.			
Other Postemployment Benefits (OPEB)	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 health care benefits regardless of the manner in which they are provided. Other postemployment benefits do not include termination benefits.			
Real Rate of Return	The real rate of return is the rate of return on an investment after adjustment to eliminate inflation.			
Service Cost	The service cost is the portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.			
Total OPEB Expense/(Revenue)	The total OPEB expense/(revenue) is the sum of the following items that are recognized at the end of the employer's fiscal year:			
	 Service Cost Interest on the Total OPEB Liability Current-Period Benefit Changes Employee Contributions (made negative for addition here) Projected Earnings on Plan Investments (made negative for addition here) OPEB Plan Administrative Expense Other Changes in Plan Fiduciary Net Position Recognition of Outflow (Inflow) of Resources due to Liabilities Recognition of Outflow (Inflow) of Resources due to Assets 			
Total OPEB Liability (TOL)	The TOL is the portion of the actuarial present value of projected benefit payments that is attributed to past periods of member service.			
Unfunded Actuarial Accrued Liability (UAAL)	The UAAL is the difference between actuarial accrued liability and valuation assets.			
Valuation Assets	The valuation assets are the assets used in determining the unfunded liability of the plan. For purposes of GASB Statement Nos. 74 and 75, the valuation assets are equal to the market value of assets.			

