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, 2021







August 31, 2022

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, 2021, 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 valuation reflects the use of revised accumulated sick leave balance data for University members provided by the DETF subsequent to the completion of the sick leave funding valuation published June 2, 2022.

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 August 31, 2022 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.

Brian B. Murphy, Mark Buis, and James D. Anderson 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

Brian B. Murphy, FSA, EA, FCA, MAAA, PhD

Mark Buis, FSA, EA, FCA, MAAA

ames Daucherson

James D. Anderson, FSA, EA, FCA, MAAA

BBM/MB/JDA:ah 1203

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, 2021

Actuarial Valuation Date SHICC Program's Fiscal Year Ending Date (Measurement Date & Reporting Date)	æmber 31, 2021 æmber 31, 2021
Membership ⁽¹⁾	
Number of	
- Retirees and Beneficiaries	21,715
- Inactive, Nonretired Members	366
- Active Members	 72,701
- Total	 94,782
Covered Payroll ⁽²⁾	\$ 5,215,543,512
Net OPEB Liability/(Asset)	
Total OPEB Liability	\$ 1,042,736,543
Plan Fiduciary Net Position	1,371,705,828
Net OPEB Liability/(Asset)	\$ (328,969,285)
Plan Fiduciary Net Position as a Percentage of Total OPEB Liability	131.55 %
Net OPEB Liability/(Asset) as a Percentage of Covered Payroll	(6.31)%
Development of the Single Discount Rate	
Single Discount Rate	6.80 %
Long-Term Municipal Bond Rate ⁽³⁾	1.84 %
Total OPEB Expense/(Revenue)	\$ (60,590,419)

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

 	Deferred Inflows of Resources		
\$ 0	\$	142,480,862	
121,199,552		0	
 0		169,277,134	
\$ 121,199,552	\$	311,757,996	
	121,199,552	of Resources c \$ 0 \$ 121,199,552 0 \$	

- (1) Retiree and Beneficiary as well as inactive number counts include only those members with a SHICC account balance.
- ⁽²⁾ Covered payroll is for 2021 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 31, 2021. 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 postemployment (OPEB) benefit 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, 2021.

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 2121. 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, 2021 and a measurement date of December 31, 2021.



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 1.84% (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;
 - \circ $\,$ One-person versus two-person coverage elections; and
 - o 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, 2021

A. Expense

 Service Cost Interest on the Total OPEB Liability 	\$ 23,485,958 63,660,991
3. Current-Period Benefit Changes	0
Employee Contributions (made negative for addition here)	0
5. Projected Earnings on Plan Investments (made negative for addition here)	(83,296,433)
6. OPEB Plan Administrative Expense	710,273
7. Other Changes in Plan Fiduciary Net Position	0
8. Recognition of Outflow (Inflow) of Resources due to Liabilities	(7,827,186)
9. Recognition of Outflow (Inflow) of Resources due to Assets	(57,324,022)
10. Total OPEB Expense/(Revenue)	\$ (60,590,419)

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 861,053 years. Additionally, the total plan membership (active employees and inactive employees) was 95,747. 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 8.993 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, 2021

A. Outflows (Inflows) of Resources Due to Liabilities

 2. Assumption Changes (gains) or losses 3. Recognition period for Liabilities: Average of the expected remaining service lives of all employees {in years} 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 5. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for assumption changes 6. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Liabilities 7. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for the difference between expected and actual experience of the Total OPEB Liability 8. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for assumption changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) due to Liabilities 5 B. Outflows (Inflows) of Resources Due to Assets 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expense/(revenue) due to Assets 	1. Difference between expected and actual experience of the Total OPEB Liability	
 3. Recognition period for Liabilities: Average of the expected remaining service lives of all employees {in years} 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 5. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for assumption changes 6. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Liabilities 7. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for the difference between expected and actual experience of the Total OPEB Liability 8. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for assumption changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) due to Liabilities 5 8. Outflows (Inflows) of Resources Due to Assets 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expenses/(revenue) \$ 	(gains) or losses	\$ (36,204,282)
of all employees {in years} 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 5. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for assumption changes 6. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Liabilities 7. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for the difference between expected and actual experience of the Total OPEB Liability 8. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for assumption changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) due to Liabilities 5 8. Outflows (Inflows) of Resources Due to Assets 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expenses/(revenue) due to Assets 5 4. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expenses/(revenue) for Assets 5 5 5 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5	2. Assumption Changes (gains) or losses	\$ 120,410,120
for the difference between expected and actual experience of the Total OPEB Liability 5. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for assumption changes 6. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Liabilities 7. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for the difference between expected and actual experience of the Total OPEB Liability 8. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for assumption changes 9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) due to Liabilities 5. B. Outflows (Inflows) of Resources Due to Assets 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expenses/(revenue) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in the current OPEB expenses/(revenue) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for Assets 5. A. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for Assets 5. A.		8.9930
assumption changes \$ 6. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) \$ due to Liabilities \$ 7. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) \$ for the difference between expected and actual experience of the Total OPEB Liability \$ 8. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) \$ for assumption changes \$ 9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) \$ due to Liabilities \$ B. Outflows (Inflows) of Resources Due to Assets \$ 1. Net difference between projected and actual earnings on OPEB plan investments \$ (gains) or losses \$ 2. Recognition period for Assets {in years} \$ 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) \$ due to Assets \$ 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) \$		\$ (4,025,829)
due to Liabilities \$ 7. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for the difference between expected and actual experience of the Total OPEB Liability \$ 8. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) for assumption changes \$ 9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) due to Liabilities \$ B. Outflows (Inflows) of Resources Due to Assets \$ 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses \$ 2. Recognition period for Assets {in years} \$ 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets \$ 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) \$		\$ 13,389,316
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for assumption changes \$ 9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) due to Liabilities \$ B. Outflows (Inflows) of Resources Due to Assets \$ 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses \$ 2. Recognition period for Assets {in years} \$ 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets \$ 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) \$		\$ (32,178,453)
due to Liabilities \$ B. Outflows (Inflows) of Resources Due to Assets 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses \$ 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses \$ \$ 2. Recognition period for Assets {in years} \$ \$ \$ 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets \$ \$ 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) \$		\$ 107,020,804
 B. Outflows (Inflows) of Resources Due to Assets 1. Net difference between projected and actual earnings on OPEB plan investments (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) 	9. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues)	
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 (gains) or losses 2. Recognition period for Assets {in years} 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) 	B. Outflows (Inflows) of Resources Due to Assets	
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 3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue) due to Assets 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues) 	(gains) or losses	\$ (117,302,508)
due to Assets \$ 4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues)	2. Recognition period for Assets {in years}	5.0000
4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues)	3. Outflow (Inflow) of Resources to be recognized in the current OPEB expense/(revenue)	
	due to Assets	\$ (23,460,502)
due to Assets \$	4. Deferred Outflow (Inflow) of Resources to be recognized in future OPEB expenses/(revenues)	
	due to Assets	\$ (93,842,006)



Statement of Outflows and Inflows Arising from Current and Prior Reporting Periods Fiscal Year Ended December 31, 2021

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

	Outflows of Resources		0	Inflows f Resources	utflows/(Inflows) of Resources
 Differences between expected and actual experience Assumption changes Net difference between projected and actual 	\$	0 16,139,481	\$	23,966,667 0	\$ (23,966,667) 16,139,481
earnings on OPEB plan investments 4. Total	\$	0 16,139,481	\$	57,324,022 81,290,689	\$ (57,324,022) (65,151,208)

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

	Deferred Outflows of Resources					eferred Outflows/ ws) of Resources
 Differences between expected and actual experience Assumption changes Net difference between projected and actual 	\$	0 121,199,552	\$	142,480,862 0	\$	(142,480,862) 121,199,552
earnings on OPEB plan investments 4. Total	\$	0 121,199,552	\$	169,277,134 311,757,996	\$	(169,277,134) (190,558,444)

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

Year Ending December 31	Deferred Outflows/ ows) of Resources
2022	\$ (49,683,536)
2023	(71,369,368)
2024	(48,245,288)
2025	(31,287,686)
2026	(4,989,835)
2027	(321,665)
2028	6,040,992
2029	9,297,942
2030	0
2031	0
Thereafter	0
Total	\$ (190,558,444)



Recognition of Deferred Outflows and Inflows of Resources Fiscal Year Ended December 31, 2021

Year Established	I	nitial Amount	Initial Recognition Period		Current Year Recognition		Remaining Recognition	Remaining Recognition Period
Deferred Outflow	(Inf	low) Due to Differe	nces Betweer	Ехре	ected and Actua	l Exp	perience on Liabili	ties
2017	\$	(31,625,769)	9.1767	\$	(3,446,312)	\$	(14,394,209)	4.1767
2018		(41,561,731)	9.1556		(4,539,487)		(23,403,783)	5.1556
2019		(55,251,074)	8.6032		(6,422,154)		(35,984,612)	5.6032
2020		(47,585,575)	8.6005		(5,532,885)		(36,519,805)	6.6005
2021		(36,204,282)	8.9930		(4,025,829)		(32,178,453)	7.9930
Total				\$	(23,966,667)	\$	(142,480,862)	
Deferred Outflow	(Inf	low) Due to Assum	ption Changes					
2017	\$	0	9.1767	\$	0	\$	0	4.1767
2018		25,179,408	9.1556		2,750,165		14,178,748	5.1556
2019		0	8.6032		0		0	5.6032
2020		0	8.6005		0		0	6.6005
2021		120,410,120	8.9930		13,389,316		107,020,804	7.9930
Total				\$	16,139,481	\$	121,199,552	
Deferred Outflow	(Inf	low) Due to Differe	nces Betweer	n Proj	ected and Actua	l Ea	rnings on Plan Inv	estments
2017	\$	(77,338,355)	5.0000	\$	(15,467,671)	\$	0	0.0000
2018		108,429,156	5.0000		21,685,831		21,685,832	1.0000
2019		(115,620,400)	5.0000		(23,124,080)		(46,248,160)	2.0000
2020		(84,788,000)	5.0000		(16,957,600)		(50,872,800)	3.0000
2021		(117,302,508)	5.0000		(23,460,502)		(93,842,006)	4.0000
Total				\$	(57,324,022)	\$	(169,277,134)	



Statement of Fiduciary Net Position as of December 31, 2021

		2021
Assets		
Cash and Deposits	\$	4,347,723
Receivables		
Contributions	\$	1,741,506
Accounts Receivable - Due From Other Benefit Programs		1,204,372
Accounts Receivable - Other		976
Total Receivables	\$	2,946,854
Investments		
Investment in Core Fund	\$ 1	,364,812,058
Total Investments	\$ 1	,364,812,058
Total Assets	\$ 1	,372,106,635
Liabilities		
Payables		
Accounts Payable - Due to Other Benefit Programs	\$	400,807
Total Liabilities	\$	400,807
Net Position Restricted for OPEB	\$ 1	.,371,705,828



Statement of Changes in Fiduciary Net Position for Year Ended December 31, 2021

	2021
Additions	
Contributions	
Employer	\$ 15,657,937
Total Contributions	\$ 15,657,937
Investment Income	
Net Appreciation in Fair Value of Investments	\$ 200,598,941
Net Investment Income	\$ 200,598,941
Total Additions	\$ 216,256,878
Deductions	
Benefit Payments	\$ 52,631,984
OPEB Plan Administrative Expense	 710,273
Total Deductions	\$ 53,342,257
Net Increase in Net Position	\$ 162,914,621
Net Position Restricted for OPEB	
Beginning of Year	\$ 1,208,791,207
End of Year	\$ 1,371,705,828



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, 2021

A. Total OPEB Liability

A. Total Of ED Elability		
1. Service cost	\$	23,485,958
2. Interest on the Total OPEB Liability		63,660,991
3. Changes of benefit terms		0
4. Difference between expected and actual experience		
of the Total OPEB Liability		(36,204,282)
5. Changes of assumptions		120,410,120
6. Benefit payments		(52,631,984)
7. Net change in Total OPEB Liability		118,720,803
8. Total OPEB Liability – Beginning		924,015,740
9. Total OPEB Liability – Ending	\$	1,042,736,543
B. Plan Fiduciary Net Position		
1. Contributions – employer	\$	15,657,937
2. Contributions – nonemployer contributing entities		0
3. Contributions – employee		0
4. Net investment income		200,598,941
5. Benefit payments		(52,631,984)
6. OPEB plan administrative expense		(710,273)
7. Other	_	0
8. Net change in Plan Fiduciary Net Position		162,914,621
9. Plan Fiduciary Net Position – Beginning	_	1,208,791,207
10. Plan Fiduciary Net Position – Ending	\$	1,371,705,828
C. Net OPEB Liability/(Asset)	\$	(328,969,285)
D. Plan Fiduciary Net Position as a percentage		
of the Total OPEB Liability		131.55 %
E. Covered payroll ⁽¹⁾	\$	5,215,543,512
F. Net OPEB Liability/(Asset) as a percentage		
of covered-employee payroll		(6.31)%

(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,	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012
Total OPEB Liability										
Service cost	\$ 23,485,958	\$ 24,092,160	\$ 25,480,349	\$ 23,419,279	\$ 23,090,058					
Interest on the Total OPEB Liability	63,660,991	64,393,209	65,525,451	65,968,930	65,855,518					
Changes of benefit terms	0	0	0	0	0					
Difference between expected and										
actual experience	(36,204,282)	(47,585,575)	(55,251,074)	(41,561,731)	(31,625,769)					
Changes of assumptions	120,410,120	0	0	25,179,408	0					
Benefit payments	(52,631,984)	(49,481,918)	(52,989,110)	(55,398,266)	(56,420,238)					
Net change in Total OPEB Liability	118,720,803	(8,582,124)	(17,234,384)	17,607,620	899,569					
Total OPEB Liability - Beginning	924,015,740	932,597,864	949,832,248	932,224,628	931,325,059					
Total OPEB Liability - Ending (a)	\$ 1,042,736,543	\$ 924,015,740	\$ 932,597,864	\$ 949,832,248	\$ 932,224,628					
Plan Fiduciary Net Position										
Employer contributions	\$ 15,657,937	\$ 15,080,311	\$ 14,368,898	\$ 18,207,993	\$ 17,864,218					
Nonemployer contributing entities										
contributions	0	0	0	0	0					
Employee contributions	0	0	0	0	0					
OPEB plan net investment income	200,598,941	159,467,130	180,270,630	(36,549,391)	141,758,344					
Benefit payments	(52,631,984)	(49,481,918)	(52,989,110)	(55,398,266)	(56,420,238)					
OPEB plan administrative expense	(710,273)	(639,658)	(339,791)	(261,661)	(292,733)					
Other	0	0	0	0	0					
Net change in Plan Fiduciary Net Position	162,914,621	124,425,865	141,310,627	(74,001,325)	102,909,591					
Plan Fiduciary Net Position - Beginning	1,208,791,207	1,084,365,342	943,054,715	1,017,056,040	914,146,449					
Plan Fiduciary Net Position - Ending (b)	\$ 1,371,705,828	\$ 1,208,791,207	\$ 1,084,365,342	\$ 943,054,715	\$ 1,017,056,040					
Net OPEB Liability/(Asset) - ending (a) - (b)	\$ (328,969,285)	\$ (284,775,467)	\$ (151,767,478)	\$ 6,777,533	\$ (84,831,412)					
Plan Fiduciary Net Position as a percentage										
of Total OPEB Liability	131.55 %	130.82 %	116.27 %	99.29 %	109.10 %					
Covered payroll ⁽¹⁾	\$ 5,215,543,512									
Net OPEB Liability/(Asset) as a percentage		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,	, ,,,,,,.					
of covered-employee payroll	(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	Li	Net OPEB ability/(Asset)	as a %	t Position of Total Liability	Covered Payroll ⁽¹⁾	Net OPEB Liability/(Asset) as a % of Covered Payroll
2012									
2013									
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)%

⁽¹⁾ Covered payroll was provided by DETF.



Schedule of Contributions Multiyear

FY Ending December 31,	Actuarially Determined Contribution ⁽¹⁾	Actual Contribution	Contributio Deficiency (Excess)		Covered Payroll ⁽²⁾	Actual Contribution as a % of Covered Payroll
2012						
2013						
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 %

⁽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, 2021*:

Actuarial Cost Method	Frozen Initial Liability
Amortization Method	Level Percentage of Payroll, Closed
Remaining Amortization Period	6 years
Asset Valuation Method	5-year smoothed value
Wage Inflation	3.00%
Salary Increases	3.1% to 8.6% including inflation.
Investment Rate of Return	7.00%
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition. Last updated for the 2018 valuation pursuant to an experience study of the period 2015-2017.
Mortality	Fully generational mortality utilizing the WRS 2018 Mortality Table adjusted for future mortality improvements using the MP-2018 fully generational improvement scale (multiplied by 60%).
Health Care Trend Rates	3.0% per year
Other Information:	
Notes	There were no benefit changes during the year.

* Based on the December 31, 2019 Annual Actuarial Valuation of the Wisconsin Accumulated Sick Leave Conversion Credit Programs



Schedule of Investment Returns Multiyear

FY Ending	Annual
December 31,	Return ⁽¹⁾
2017	15.85 %
2018	(3.56)%
2019	19.49 %
2020	15.06 %
2021	17.03 %

(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, 2021, these best estimates of geometric real rates of return were provided by DETF and are summarized in the following table:

		Long-Term Expected
Asset Class	Target Allocation	Real Rate of Return
Global Equities	52.00%	4.20%
Fixed Income	25.00%	1.80%
Inflation Sens. Assets	19.00%	0.20%
Real Estate	7.00%	3.00%
Private Equity/Debt	12.00%	7.00%
Cash	-15.00%	0.90%
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 2.5%.



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	21,715
Inactive, Nonretired Members	366
Active Members	72,701
Total Plan Members	94,782



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	\$ 1,153,061,852	\$ 1,042,736,543	\$ 947,647,043				
Plan Fiduciary Net Position	1,371,705,828	1,371,705,828	1,371,705,828				
Net OPEB Liability/(Asset)	\$ (218,643,976)	\$ (328,969,285)	\$ (424,058,785)				

Regarding the sensitivity of the net OPEB liability/(asset) to changes in the healthcare 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 Healthcare Cost Trend Rate Assumption

		Current Healthcare Cost	
Healthcare Cost Trend Rate	1% Decrease	Trend Rate Assumption	1% Increase
Total OPEB Liability	\$ 974,379,535	\$ 1,042,736,543	\$ 1,107,441,851
Plan Fiduciary Net Position	1,371,705,828	1,371,705,828	1,371,705,828
Net OPEB Liability/(Asset)	\$ (397,326,293)	\$ (328,969,285)	\$ (264,263,977)



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 6.4 days for Beyond Vision, 12 days for University Hospital and Non-Staff University employees and 16.25 days for all other members 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	&	Beneficiaries
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	Rate Category	
	Non-Medicare	Medicare
1. Number of 1-Person Contracts*	2,142	7,200
2. Total Monthly Premium of 1-Person Contracts	\$1,830,381	\$2,642,501
3. Average 1-Person Premium as of 1/1/2022 (2./1.)	\$ 854.52	\$ 367.01
4. Number of Multiple-Person Contracts*	1,935	7,171
5. Total Monthly Premium of Multiple-Person Contracts	\$3,539,005	\$5,310,512
6. Average Multiple-Person Premium as of 1/1/2022 (5./4.)	\$ 1,828.94	\$ 740.55
7. Average Net Premium as of 1/1/2022 (50%*3. + 50%*6.)^	\$ 1,341.73	\$ 553.78

* Retirees with an account status of active and a premium amount populated in the data provided (some of whom have exhausted their sick leave credits). The number counts above were used strictly for developing average premiums and may be different from retiree counts shown throughout this report.

[^] Used in the valuation of all non-active annuitants (i.e., current actives, preserved members and on-hold/escrowed Retirees). For active annuitants, the actual premiums provided in the data are used. 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 2022.

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 average projected non-Medicare premium was applied to Medicare eligibility and the average projected Medicare premium was applied after Medicare eligibility.



SECTION G

SUMMARY OF PARTICIPANT DATA

Summary of Participant Data

Active Participants

	State Employees			
	(Non-University)	University	University Hospital	Total
Number	32,359	30,738	9,604	72,701
Annual Payroll	\$2,074,127,892	\$ 2,429,610,508	\$684,731,947	\$ 5,188,470,347
Accrued Unused Sick Days	2,690,771 days	2,805,641 days	365,719 days	5,862,131 days
Averages: Age	44.9 years	46.2 years	40.7 years	44.9 years
Service	11.4 years	10.9 years	8.0 years	10.8 years
Sick Leave Days	83.2 days	91.3 days	38.1 days	80.6 days

Terminated Vested Participants

Number	ASLCC Sick	SHICC Sick	Total Sick Leave
	Leave Balance	Leave Balance	Balance
366	\$16,724,492	\$11,934,585	\$28,659,077

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
Annuitants Actively Using Sick Leave Credits	17,431	\$621,703,016	\$ 1,032,379,739	\$1,654,082,755
Escrowed/On-Hold Annuitants	4,284	232,707,245	189,263,806	421,971,051
Total	21,715	\$854,410,261	\$1,221,643,545	\$2,076,053,806

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 status other than active, escrowed or on-hold (i.e., closed, canceled, ineligible, etc.); or
- 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 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 twelve 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
2023	6.00 %
2024	5.75
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 Tables 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.

Sample	Future Life				
Attained Ages	Expecta	ncy (Years)*			
in 2021	Males	Females			
40	47.0	49.1			
45	41.8	43.9			
50	36.6	38.7			
55	31.5	33.5			
60	26.6	28.6			
65	21.9	23.9			
70	17.5	19.2			
75	13.3	14.9			
80	9.7	11.0			
85	6.7	7.7			

Single Life Expectancy 2020 WRS Experience Table

* 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*					
Attained Ages						
in 2021	Males	Females				
20	0.000398	0.000164				
25	0.000213	0.000128				
30	0.000345	0.000222				
35	0.000500	0.000318				
40	0.000624	0.000421				
45	0.000806	0.000543				
50	0.001189	0.000789				
55	0.001891	0.001258				
60	0.003118	0.001971				
65	0.005013	0.003022				
70	0.007513	0.005019				
75	0.011006	0.009610				
80	0.021987	0.019764				

* 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

	General		Executive	e University		Public School		Protective*	
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

* Includes reduced retirements for Protective with 20+ years of service.

Reduced Retirement Pattern

	% Retiring Next Year							
	Gen	eral	Executive	Univ	ersity	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	Unive	University		Public Schools		ective
Age	Males	Females	Males	Females	Males	Females	Males	Females	With SS	W/O SS
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:	For purposes of determining eligibility for the sick leave conversion credit programs, the active member data provided for the sick leave valuation was compared against the data provided for the active lives valuation. Only members with a corresponding record in the active lives data were included in the sick leave valuation. For each member, date of birth, gender and service credit were used as provided in the active lives data. Pay rate and sick leave specific information (sick leave balance, accrual rate, average usage) were used as provided in the sick leave data extract for purposes of calculating active member sick leave credits at retirement. 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



Miscellaneous and Technical Assumptions

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.



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 1.84%; and the resulting Single Discount Rate is 6.80%.

Administrative expenses were not included in the single discount rate 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. Given the Plan is over 100% funded, current assets are projected to be sufficient to cover all future benefit obligations. As such, the projection of contributions have been excluded from this report.

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 Single Discount Rate (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 Plan Fiduciary Net Position Ending December 31, 2121

Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Investment Earnings at 6.80%	Projected Ending Plan Net Position
1001	(a)	(b)	(c)	(d)	(e)=(a)+(b)-(c)+(d)
1	\$ 1,371,705,828		\$ 58,284,963	\$ 91,326,897	
2	1,404,747,762	џ 0	64,220,698	93,375,253	1,433,902,317
3	1,433,902,317	0	69,587,874	95,178,280	1,459,492,723
4	1,459,492,723	0	73,836,471	96,776,351	1,482,432,603
5	1,482,432,603	0	77,496,056	98,213,883	1,503,150,430
6	1,503,150,430	0	80,512,500	99,521,822	1,522,159,753
7	1,522,159,753	0	82,948,325	100,733,000	1,539,944,429
8	1,539,944,429	0	84,759,232	101,881,800	1,557,066,997
9		0			
9 10	1,557,066,997	0	86,744,121	102,979,758	1,573,302,635
	1,573,302,635		88,535,433	104,023,879	1,588,791,081
11	1,588,791,081	0	90,129,017	105,023,802	1,603,685,866
12	1,603,685,866	0	91,286,926	105,997,926	1,618,396,866
13	1,618,396,866	0	92,207,651	106,967,484	1,633,156,699
14	1,633,156,699	0	93,378,564	107,931,997	1,647,710,132
15	1,647,710,132	0	94,553,191	108,882,349	1,662,039,291
16	1,662,039,291	0	96,365,266	109,796,135	1,675,470,161
17	1,675,470,161	0	98,143,171	110,649,979	1,687,976,969
18	1,687,976,969	0	100,112,910	111,434,573	1,699,298,632
19	1,699,298,632	0	102,337,827	112,130,043	1,709,090,848
20	1,709,090,848	0	103,943,967	112,742,203	1,717,889,083
21	1,717,889,083	0	105,765,478	113,279,570	1,725,403,175
22	1,725,403,175	0	107,610,002	113,728,846	1,731,522,019
23	1,731,522,019	0	109,349,237	114,086,765	1,736,259,548
24	1,736,259,548	0	111,336,064	114,342,476	1,739,265,960
25	1,739,265,960	0	113,184,925	114,485,085	1,740,566,120
26	1,740,566,120	0	115,163,444	114,507,332	1,739,910,008
27	1,739,910,008	0	116,594,358	114,414,866	1,737,730,516
28	1,737,730,516	0	117,427,754	114,238,791	1,734,541,553
29	1,734,541,553	0	117,923,239	114,005,372	1,730,623,685
30	1,730,623,685	0	117,931,284	113,738,688	1,726,431,089
31	1,726,431,089	0	117,818,404	113,457,366	1,722,070,051
32	1,722,070,051	0	117,808,649	113,161,142	1,717,422,544
33	1,717,422,544	0	117,838,742	112,844,105	1,712,427,907
34	1,712,427,907	0	117,409,987	112,518,807	1,707,536,727
35	1,707,536,727	0	116,101,517	112,229,963	1,703,665,174
36	1,703,665,174	0	114,038,072	112,035,701	1,701,662,803
37	1,701,662,803	0	110,956,985	112,002,574	1,702,708,393
38	1,702,708,393	0	107,330,168	112,194,958	1,707,573,183
39	1,707,573,183	0	102,959,883	112,671,910	1,717,285,211
40	1,717,285,211	0	97,727,383	113,507,307	1,733,065,135
41	1,733,065,135	0	91,651,869	114,783,512	1,756,196,778
42	1,756,196,778	0	85,655,147	116,557,000	1,787,098,631
43	1,787,098,631	0	80,217,805	118,840,155	1,825,720,981
44	1,825,720,981	0	75,250,756	121,632,577	1,872,102,802
45	1,872,102,802	0	70,464,271	124,946,605	1,926,585,136
45	1,926,585,136	0	65,386,976	128,821,193	1,990,019,353
40	1,990,019,353	0	60,078,711	133,312,233	2,063,252,875
47	2,063,252,875	0	54,744,302	138,470,499	2,005,252,875 2,146,979,072
		0			
49 50	2,146,979,072		49,479,922	144,339,926	2,241,839,076
50	2,241,839,076	0	44,401,652	150,960,228	2,348,397,652



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Single Discount Rate Development Projection of Plan Fiduciary Net Position Ending December 31, 2121 (Concluded)

	Projected	Projected	•		Projected
	Beginning	Total	Projected	Projected Investment	Ending
Year	Plan Net Position	Contributions	Benefit Payments	Earnings at 6.80%	Plan Net Position
	(a)	(b)	(c)	(d)	(e)=(a)+(b)-(c)+(d)
51	\$ 2,348,397,652	\$ 0	\$ 39,609,866	\$ 158,366,453	\$ 2,467,154,239
52	2,467,154,239	0	35,199,781	166,589,377	2,598,543,835
53	2,598,543,835	0	31,106,949	175,660,738	2,743,097,624
54	2,743,097,624	0	27,272,068	185,618,637	2,901,444,193
55	2,901,444,193	0	23,675,102	196,506,489	3,074,275,581
56	3,074,275,581	0	20,311,716	208,371,498	3,262,335,363
57	3,262,335,363	0	17,204,513	221,263,471	3,466,394,321
58	3,466,394,321	0	14,379,011	235,233,967	3,687,249,277
59	3,687,249,277	0	11,862,251	250,336,267	3,925,723,293
60	3,925,723,293	0	9,646,644	266,626,592	4,182,703,241
61	4,182,703,241	0	7,733,336	284,165,211	4,459,135,116
62	4,459,135,116	0	6,096,633	303,017,311	4,756,055,795
63	4,756,055,795	0	4,728,102	323,253,682	5,074,581,375
64	5,074,581,375	0	3,602,337	344,951,068	5,415,930,106
65	5,415,930,106	0	2,689,639	368,193,303	5,781,433,771
66	5,781,433,771	0	1,962,329	393,071,874	6,172,543,316
67	6,172,543,316	0	1,392,988	419,686,363	6,590,836,691
68	6,590,836,691	0	958,182	448,144,853	7,038,023,361
69	7,038,023,361	0	636,041	478,564,319	7,515,951,639
70	7,515,951,639	0	406,799	511,071,108	8,026,615,948
71	8,026,615,948	0	248,428	545,801,577	8,572,169,097
72	8,572,169,097	0	144,599	582,902,663	9,154,927,161
73	9,154,927,161	0	80,535	622,532,354	9,777,378,979
74	9,777,378,979	0	42,765	664,860,341	10,442,196,555
75	10,442,196,555	0	21,761	710,068,638	11,152,243,432
76	11,152,243,432	0	10,554	758,352,200	11,910,585,078
77	11,910,585,078	0	4,678	809,919,629	12,720,500,029
78	12,720,500,029	0	2,025	864,993,934	13,585,491,939
79	13,585,491,939	0	882	923,813,422	14,509,304,479
80	14,509,304,479	0	362	986,632,692	15,495,936,809
81	15,495,936,809	0	132	1,053,723,699	16,549,660,376
82	16,549,660,376	0	49	1,125,376,904	17,675,037,231
83	17,675,037,231	0	18	1,201,902,531	18,876,939,744
84	18,876,939,744	0	7	1,283,631,902	20,160,571,639
85		0			
	20,160,571,639		2	1,370,918,871	21,531,490,509
86 87	21,531,490,509	0	1	1,464,141,355 1,563,702,967	22,995,631,862
	22,995,631,862	0	0		24,559,334,829
88	24,559,334,829	0	0	1,670,034,768	26,229,369,598
89	26,229,369,598	0	0	1,783,597,133	28,012,966,730
90	28,012,966,730	0	0	1,904,881,738	29,917,848,468
91 02	29,917,848,468	0	0	2,034,413,696	31,952,262,164
92	31,952,262,164	0	0	2,172,753,827	34,125,015,991
93	34,125,015,991	0	0	2,320,501,087	36,445,517,078
94	36,445,517,078	0	0	2,478,295,161	38,923,812,239
95	38,923,812,239	0	0	2,646,819,232	41,570,631,472
96	41,570,631,472	0	0	2,826,802,940	44,397,434,412
97	44,397,434,412	0	0	3,019,025,540	47,416,459,952
			•	2 224 240 277	
98	47,416,459,952	0	0	3,224,319,277	
98 99 100	47,416,459,952 50,640,779,228 54,084,352,216	0 0 0	0 0 0	3,224,319,277 3,443,572,988 3,677,735,951	50,640,779,228 54,084,352,216 57,762,088,167



Single Discount Rate Development Present Values of Projected Benefits Ending December 31, 2121

Year	PI	Projected Beginning an 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)
1	\$	1,371,705,828				\$ 56,398,934		\$ 56,398,934
2		1,404,747,762	64,220,698	64,220,698	0	58,185,952	0	58,185,952
3		1,433,902,317	69,587,874	69,587,874	0	59,034,438	0	59,034,438
4		1,459,492,723	73,836,471	73,836,471	0	58,650,476	0	58,650,476
5		1,482,432,603	77,496,056	77,496,056	0	57,638,008	0	57,638,008
6		1,503,150,430	80,512,500	80,512,500	0	56,068,821	0	56,068,821
7		1,522,159,753	82,948,325	82,948,325	0	54,087,197	0	54,087,197
8		1,539,944,429	84,759,232	84,759,232	0	51,749,078	0	51,749,078
9		1,557,066,997	86,744,121	86,744,121	0	49,588,891	0	49,588,891
10		1,573,302,635	88,535,433	88,535,433	0	47,390,382	0	47,390,382
11		1,588,791,081	90,129,017	90,129,017	0	45,171,705	0	45,171,705
12		1,603,685,866	91,286,926	91,286,926	0	42,838,985	0	42,838,985
13		1,618,396,866	92,207,651	92,207,651	0	40,515,975	0	40,515,975
14		1,633,156,699	93,378,564	93,378,564	0	38,418,046	0	38,418,046
15		1,647,710,132	94,553,191	94,553,191	0	36,424,452	0	36,424,452
16		1,662,039,291	96,365,266	96,365,266	0	34,758,907	0	34,758,907
17		1,675,470,161	98,143,171	98,143,171	0	33,146,251	0	33,146,251
18		1,687,976,969	100,112,910	100,112,910	0	31,658,706	0	31,658,706
19		1,699,298,632	102,337,827	102,337,827	0	30,301,771	0	30,301,771
20		1,709,090,848	103,943,967	103,943,967	0	28,817,736	0	28,817,736
20		1,717,889,083	105,765,478	105,765,478	0	27,455,746	0	27,455,746
22		1,725,403,175	107,610,002	107,610,002	0	26,155,962	0	26,155,962
23		1,731,522,019	109,349,237	109,349,237	0	24,886,428	0	24,886,428
23		1,736,259,548	111,336,064	111,336,064	0	23,725,284	0	23,725,284
25		1,739,265,960	113,184,925	113,184,925	0	22,583,586	0	22,583,586
26		1,740,566,120	115,163,444	115,163,444	0	21,515,315	0	21,515,315
27		1,739,910,008	116,594,358	116,594,358	0	20,395,734	0	20,395,734
28		1,737,730,516	117,427,754	117,427,754	0	19,233,632	0	19,233,632
29		1,734,541,553	117,923,239	117,923,239	0	18,085,008	0	18,085,008
30		1,730,623,685	117,931,284	117,931,284	0	16,934,683	0	16,934,683
31		1,726,431,089	117,818,404	117,818,404	0	15,841,268	0	15,841,268
32		1,722,070,051	117,808,649	117,808,649	0	14,831,419	0	14,831,419
33		1,717,422,544	117,838,742	117,838,742	0	13,890,644	0	13,890,644
34		1,712,427,907	117,409,987	117,409,987	0	12,958,898	0	12,958,898
34		1,707,536,727	116,101,517	116,101,517	0	11,998,575	0	11,998,575
36		1,703,665,174	114,038,072	114,038,072	0	11,034,951	0	11,034,951
30		1,701,662,803	110,956,985	110,956,985	0	10,053,191	0	
38		1,702,708,393	107,330,168	107,330,168	0	9,105,417	0	10,053,191 9,105,417
39			102,959,883		0	8,178,522	0	8,178,522
40		1,707,573,183	97,727,383	102,959,883 97,727,383	0		0	
		1,717,285,211				7,268,617		7,268,617
41		1,733,065,135	91,651,869	91,651,869	0	6,382,717	0	6,382,717
42		1,756,196,778	85,655,147	85,655,147	0	5,585,300	0	5,585,300
43		1,787,098,631	80,217,805	80,217,805	0	4,897,704	0	4,897,704
44		1,825,720,981	75,250,756	75,250,756	0	4,301,911	0	4,301,911
45		1,872,102,802	70,464,271	70,464,271	0	3,771,796	0	3,771,796
46		1,926,585,136	65,386,976	65,386,976	0	3,277,172	0	3,277,172
47		1,990,019,353	60,078,711	60,078,711	0	2,819,404	0	2,819,404
48		2,063,252,875	54,744,302	54,744,302	0	2,405,495	0	2,405,495
49		2,146,979,072	49,479,922	49,479,922	0	2,035,744	0	2,035,744
50		2,241,839,076	44,401,652	44,401,652	0	1,710,496	0	1,710,496



Single Discount Rate Development Present Values of Projected Benefits Ending December 31, 2121 (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	\$ 2,348,397,652				\$ 1,428,746		\$ 1,428,746
52	2,467,154,239	35,199,781	35,199,781	0	1,188,832	0	1,188,832
53	2,598,543,835	31,106,949	31,106,949	0	983,709	0	983,709
54	2,743,097,624	27,272,068	27,272,068	0	807,525	0	807,525
55	2,901,444,193	23,675,102	23,675,102	0	656,385	0	656,385
56	3,074,275,581	20,311,716	20,311,716	0	527,281	0	527,281
57	3,262,335,363	17,204,513	17,204,513	0	418,183	0	418,183
58	3,466,394,321	14,379,011	14,379,011	0	327,252	0	327,252
59	3,687,249,277	11,862,251	11,862,251	0	252,784	0	252,784
60	3,925,723,293	9,646,644	9,646,644	0	192,480	0	192,480
61	4,182,703,241	7,733,336	7,733,336	0	144,479	0	144,479
62	4,459,135,116	6,096,633	6,096,633	0	106,649	0	106,649
63	4,756,055,795	4,728,102	4,728,102	0	77,443	0	77,443
64	5,074,581,375	3,602,337	3,602,337	0	55,247	0	55,247
65	5,415,930,106	2,689,639	2,689,639	0	38,623	0	38,623
66	5,781,433,771	1,962,329	1,962,329	0	26,385	0	26,385
67	6,172,543,316	1,392,988	1,392,988	0	17,537	0	17,537
68	6,590,836,691	958,182	958,182	0	11,295	0	11,295
69	7,038,023,361	636,041	636,041	0	7,020	0	7,020
70	7,515,951,639	406,799	406,799	0	4,204	0	4,204
71	8,026,615,948	248,428	248,428	0	2,404	0	2,404
72	8,572,169,097	144,599	144,599	0	1,310	0	1,310
73	9,154,927,161	80,535	80,535	0	683	0	683
74	9,777,378,979	42,765	42,765	0	340	0	340
75	10,442,196,555	21,761	21,761	0	162	0	162
76	11,152,243,432	10,554	10,554	0	74	0	74
70	11,910,585,078	4,678	4,678	0	31	0	31
78	12,720,500,029	2,025	2,025	0	12	0	12
79	13,585,491,939	882	882	0	5	0	5
80	14,509,304,479	362	362	0	2	0	2
81	15,495,936,809	132	132	0	1	0	1
82	16,549,660,376	49	49	0	0	0	0
83	17,675,037,231	18	18	0	0	0	0
83 84	18,876,939,744	7	7	0	0	0	0
85	20,160,571,639	2	2	0	0	0	0
86	21,531,490,509	1	1	0	0	0	0
87	22,995,631,862	0	0	0	0	0	0
88	24,559,334,829	0	0	0	0	0	0
89	26,229,369,598	0	0	0	0	0	0
90	28,012,966,730	0	0	0	0	0	0
91	29,917,848,468	0	0	0	0	0	0
91	31,952,262,164	0	0	0	0	0	0
92 93	34,125,015,991	0	0	0	0	0	0
93 94	36,445,517,078	0	0	0	0	0	0
94 95	38,923,812,239	0	0	0	0	0	0
		0	0	0	0	0	0
96 07	41,570,631,472	0	0		0	0	
97	44,397,434,412	0	0	0	0	0	0
98 00	47,416,459,952	0	0	0	0	0	0
99 100	50,640,779,228						0
100	54,084,352,216	0	0	0 Totals	0 \$ 1,291,442,416	0 \$ 0	0



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 healthcare benefits regardless of the manner in which they are provided. Other post-employment 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.			

