

# STATE OF WISCONSIN POSTRETIREMENT LIFE INSURANCE PLAN (LOCAL)

GASB 74 and 75 DISCLOSURE Fiscal Year Ending: December 31, 2022

Prepared by

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## **Table of Contents**

Certification	1
Executive Summary	3
Statement of Fiduciary Net Position	8
Statement of Changes in Fiduciary Net Position	9
Money-Weighted Rate of Return	10
Long-Term Expected Rate of Return	11
Depletion Date Projection	12
Projection of Fiduciary Net Position	13
Actuarial Present Value of Projected Benefit Payments	14
Net OPEB Liability	16
Changes in Net OPEB Liability	17
Schedule of Changes in Net OPEB Liability and Related Ratios	18
OPEB Expense and Deferred Inflows/Outflows of Resources	19
Schedule of Deferred Inflows and Outflows of Resources	20
OPEB Liability and Expense Summary	21
Actuarial Assumptions	22
Summary of Plan Provisions	29
Summary of Participant Data	31
Summary of Demographic Information	32
Glossary	33

#### Certification

Actuarial computations presented in this report under Statements No. 74 and 75 of the Governmental Accounting Standards Board are for purposes of assisting the Department of Employee Trust Funds (ETF) in fulfilling its financial accounting requirements. No attempt is being made to offer any accounting opinion or advice. This report is for the fiscal year ending December 31, 2022. The reporting date for determining plan assets and obligations is December 31, 2022. The calculations enclosed in this report have been made on a basis consistent with our understanding of the plan provisions. Determinations for purposes other than meeting financial reporting requirements may be significantly different than the results contained in this report. Accordingly, additional determinations may be needed for other purposes, such as judging benefit security or meeting employer funding requirements.

In preparing this report, we relied, without audit, on information as of January 1, 2022 and December 31, 2022 furnished by the ETF and Securian. This information includes, but is not limited to, statutory provisions, member census data, and financial information. The membership as of January 1, 2022 includes 74,187 active participants and 50,471 retirees.

We performed a limited review of the census and financial information used directly in our analysis and have found them to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete our results may be different and our calculations may need to be revised.

We hereby certify that, to the best of our knowledge, this report, including all costs and liabilities based on actuarial assumptions and methods, is complete and accurate and determined in conformance with generally recognized and accepted actuarial principles and practices, which are consistent with the Actuarial Standards of Practice promulgated by the Actuarial Standards Board and the applicable Code of Professional Conduct, amplifying Opinions and supporting Recommendations of the American Academy of Actuaries.

This valuation report is only an estimate of the plan's financial condition as of a single date. It can neither predict the plan's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of plan benefits, only the timing of plan contributions. While the valuation is based on an array of individually reasonable assumptions, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, 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 (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of the actuarial assignment, we did not perform an analysis of the potential range of such future measurements.

#### Certification

The valuation results were developed using models intended for valuations that use standard actuarial techniques. In addition to the models described previously, Milliman has developed certain models to estimate the claim costs and trend used in this analysis. We have reviewed the models, including their inputs, calculations, and outputs for consistency, reasonableness, and appropriateness to the intended purpose and in compliance with generally accepted actuarial practice and relevant actuarial standards of practice. The models, including all input, calculations, and output may not be appropriate for any other purpose.

Milliman's work is prepared solely for the internal use and benefit of the Wisconsin Department of Employee Trust Funds. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a Release, subject to the following exceptions: (a) the Plan Sponsor may provide a copy of Milliman's work, in its entirety, to the Plan Sponsor's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit the Fund; and (b) the Plan Sponsor may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

This report and its use are subject to the terms of our Consulting Services Agreement with the Wisconsin Department of Employee Trust Funds dated October 1, 2014.

No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their specific needs.

The consultants who worked on this assignment are actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and has been prepared in accordance with generally recognized accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

John M. Chmielewski, FSA, EA, MAAA Principal and Consulting Actuary

Daniel W. Colby, FSA, EA, MAAA

**Consulting Actuary** 

### **Executive Summary**

#### Overview of GASB 74 and GASB 75

The Governmental Accounting Standards Board (GASB) released accounting standards for public postemployment benefit plans other than pension (OPEB) and participating employers in 2015. These standards, GASB Statements No. 74 and 75, have substantially revised the accounting requirements previously mandated under GASB Statements No. 43 and 45. The most notable change is that the Annual Required Contribution (ARC) has been eliminated and the Net OPEB Liability will be an item on the employer's financial statement rather than a footnote entry.

GASB 74 applies to financial reporting for public OPEB plans and is required to be implemented for plan fiscal years beginning after June 15, 2016. Note that a plan's fiscal year might not be the same as the employer's fiscal year. Even if the plan does not issue standalone financial statements, but rather is considered a trust fund of a government, it is subject to GASB 74. Under GASB 74, enhancements to the financial statement disclosures are required, along with certain required supplementary information.

GASB 75 governs the specifics of accounting for public OPEB plan obligations for participating employers and is required to be implemented for employer fiscal years beginning after June 15, 2017. GASB 75 requires a liability for OPEB obligations, known as the Net OPEB Liability (Total OPEB Liability for unfunded plans), to be recognized on the balance sheets of participating employers. Changes in the Net OPEB Liability (Total OPEB Liability for unfunded plans) will be immediately recognized as OPEB Expense on the income statement or reported as deferred inflows/outflows of resources depending on the nature of the change.

#### **Notes to Financial Statements**

#### Statement No. 74 - Notes to Stand-Alone Plan Financial Statements

OPEB Plan description	<ul> <li>Plan name, administrator, and classification</li> <li>Identification of board of trustees</li> <li>Participating employers and nonemployer contributing entities as applicable</li> <li>Plan eligibility and coverage, key benefit terms, and membership counts</li> <li>Contribution requirements, bases, amounts, sources, and authority</li> </ul>
Significant assumptions and inputs	<ul> <li>Items such as (but not limited to) discount rate basis and derivation, mortality assumptions, benefit levels, cost sharing, cash flows, and healthcare cost trend rates, including discount rate and trend rate sensitivity</li> </ul>
OPEB plan investments	<ul> <li>Investment policies, authority, and changes during period</li> <li>Asset allocations of five percent or more in non-U.S. government investments</li> <li>Money-weighted rates of return</li> </ul>
OPEB liabilities	<ul> <li>Total OPEB Liability (TOL), Fiduciary Net Position (FNP), Net OPEB Liability (NOL), FNP as a percentage of TOL</li> </ul>
Dates and roll forward details	Valuation and measurement dates, and any update procedures used

## Statement No. 75 - Notes to Financial Statements for Employers and Nonemployer Contributing Entitles

Description of associated OPEB plans	<ul> <li>Plan name, administrator, and classification</li> <li>Plan eligibility and coverage, key benefit terms, and membership counts</li> <li>Contribution requirements, bases, amounts, sources, and authority</li> <li>Availability of stand-alone plan financial statements</li> </ul>
Significant assumptions and inputs for associated OPEB plans	<ul> <li>Items such as (but not limited to) discount rate basis and derivation, mortality assumptions, benefit levels, cost sharing, cash flows, and healthcare cost trend rates, including discount rate and health trend rate sensitivity</li> <li>Proportionate share of collective NOL or TOL as applicable, including sensitivity to discount rate and health trend rate</li> </ul>
Asset information and FNP for associated OPEB plans	<ul> <li>Either:</li> <li>included, or</li> <li>if part of a plan's standalone statements or included in the financial report of another government, provide information as to how to obtain the report, or</li> <li>disclosure that there are no assets in trust</li> </ul>
OPEB liabilities and changes in NOL/TOL for associated OPEB plans (as applicable)	<ul> <li>Beginning and ending balances of TOL, FNP, and NOL</li> <li>OPEB expense and expenditures</li> <li>Disclosure of special funding situations</li> </ul>
Dates and roll forward details	<ul> <li>Valuation and measurement dates, and any update procedures used</li> </ul>
Other items	<ul> <li>Changes in assumptions and benefit terms</li> <li>Determination basis of proportionate share and changes in the employer's or nonemployer contributing entities' portion</li> <li>Significant events affecting NOL or TOL</li> <li>OPEB expense recognized for the period</li> <li>Balances of deferred outflows and inflows of resources related to OPEB, including a five-year schedule of net amounts to be recognized</li> <li>Insurance purchases and support by nonemployer contributing entities, if any</li> <li>Experience studies</li> </ul>

#### **Required Supplementary Information (RSI)**

The financial statements of employers also include RSI showing a 10-year fiscal history of the following. The first two tables may be built prospectively as the information becomes available. The reader should note that an actuarially determined contribution is not calculated for this plan.

- sources of changes in the net OPEB liability/(asset)
- information about the components of the net OPEB liability/(asset) and related ratios
- comparison of actual employer contributions to the actuarially determined contributions, if an actuarially determined contribution is calculated
- collective amounts, proportions, and proportionate share information as applicable for the above schedules
- the annual money-weighted rate of return on OPEB plan investments

#### **Overview of Postretirement Life Insurance program**

After an employee satisfies the Enrollment Eligibility, both the employee and the employer pay premiums for life insurance coverage. These premiums support life insurance coverage for death while an active employee and in retirement after the employee satisfies the Retirement Eligibility.

Both the employee and employer pay the applicable premiums until the employee retires. If an employee retires before age 65, the retired employee must continue to pay the employee premiums until reaching age 65 in order to maintain the life insurance coverage after age 65. This report continues prior practice of identifying retired employees before age 65 as "Pre-65 Annuitants", and retired employees on or after age 65 as "Post-64 Retirees".

This GASB 74 report presents the results of the actuarial valuation in accordance with GASB 74 as of December 31, 2022 for the State of Wisconsin Retiree Life Insurance Programs for Local employees. Under GASB 74, an actuarial valuation is required for post-employment benefits. Consequently, the death benefits provided prior to retirement are excluded from the actuarial valuation. There are several differences in actuarial assumptions and methods specified by GASB 74 compared to those used to determine the financial reporting prepared by Securian. These differences include treatment of assets, actuarial methods, and the discount rate. Reconciliation of these differences is outside the scope of our assignment with the ETF.

The actuarial liability for the Postretirement Life Insurance program for local employees discussed in this report consists of the following components:

- Actives: The liability for actives represents the expected present value of future death benefits payable to active members based upon expected future retirements. There were 74,187 active members as of 1/1/2022.
- <u>Disabled Participants</u>: The liability for disabled participants represents the expected present value of future death benefits payable to disabled participants. There were 992 disabled members as of 1/1/2022.
- Pre-65 Annuitants: The liability for pre-65 annuitants represents the expected present value of future death benefits payable less the expected present value of future employee premiums payable before age 65 to pre-65 annuitants who retired on or before 1/1/2022. There were 9,848 pre-65 annuitants reported as of 1/1/2022.
- Post-64 Retirees: The liability for post-64 retirees represents the expected present value of future death benefits payable to post-64 retirees as of 1/1/2022. There were 39,631 post-64 retirees reported as of 1/1/2022.

#### **Summary of Results**

This report presents the results of the actuarial valuation in accordance with GASB 74 as of December 31, 2022 for the State of Wisconsin Retiree Life Insurance Programs for Local employees. Under GASB 74, an actuarial valuation is required for post-employment benefits. Consequently, the death benefits provided prior to retirement are excluded from the actuarial valuation. Both the employee and employer pay the applicable premiums until the employee retires. If an employee retires before age 65, the retired employee must continue to pay the employee premiums until reaching age 65 in order to maintain the life insurance coverage after age 65. The table below compares the 12/31/2021 to 12/31/2022 GASB 74 results.

(\$ in millions)		
Valuation Date	01/01/2021	01/01/2022
Measurement Date	12/31/2021	12/31/2022
Funded Status		
Total OPEB Liability (TOL)	\$839	\$623
Fiduciary Net Position (FNP)	<u>(248)</u>	(242)
Net OPEB Liability (NOL)(1)	\$591	\$381
FNP as a % of TOL	30%	39%
OPEB Expense	\$73	\$38
Discount Rate	2.17%	3.76%

(1) May not add due to rounding.

#### **Net OPEB Liability**

Under GASB 74, the Net OPEB Liability is equal to the Total OPEB Liability less the fiduciary net position. The Net OPEB Liability decreased from \$591 million as of December 31, 2021 to \$381 million as of December 31, 2022 for the local plan. There are two significant factors impacting the change in the Net OPEB Liability:

- (1) Municipal bond rate
- (2) Level of employer contributions

Each of these factors is discussed in further detail below.

#### 1. <u>Municipal Bond Rate</u>

At implementation of GASB 74, the State of Wisconsin chose the Bond Buyer GO 20-Bond Municipal Bond Index. The bond index increased from 2.06% at December 31, 2021 to 3.72% at December 31, 2022. The impact due to the change in the municipal bond index was a decrease in the net OPEB liability of approximately \$240.0 million for the local plan.

#### 2. Level of Employer Contributions

Employer contributions to the postretirement life insurance program are a specified percentage of the employer premiums to the life insurance plan. GASB 74 requires depletion date projections using projections of future contributions according to the "funding policy". The depletion date projections indicate the current level of employer contributions are not large enough to cover the cost of benefits earned by active employees and reduce the Net OPEB Liability. Absent additional monies from other sources, contributions under the current funding policy will not be sufficient to accumulate sufficient money to pay benefits when due under the current actuarial assumptions. As of December 31, 2022, the fiduciary net position is projected to be insufficient by December 31, 2037 for the local plan.

Assets for the postretirement life insurance program are held in the Retiree Premium Deposit Fund and the Contingent Liability Reserve. These assets are held in an irrevocable trust for the exclusive purpose

of providing postretirement life insurance benefits to plan participants. The 2022 asset activity is reported on pages 8 and 9. The Active Premium Deposit Fund and Active Stabilization Reserve are two accounts maintained separately by Securian, the plan's insurance carrier, but are not included in the plan assets in the GASB 74 valuation. It is our understanding that these funds are discretionary funds that the Group Insurance Board may use to (1) hold as a reserve to mitigate current premium fluctuations pertaining to coverage for active employees, retirees or both, (2) use to mitigate future premium fluctuations pertaining to coverage for active employees, retirees or both, or (3) transfer to the postretirement life insurance program assets. As of 12/31/2022, the total value in the Active Premium Deposit Fund plus the Active Stabilization Reserve was \$91 million.

#### Overall Net OPEB Liability Impact

The discount rate is determined as the single equivalent rate that results in the same actuarial present value as the long-term expected rate of return applied to benefit payments, to the extent that the plan's fiduciary net position is projected to be sufficient to make projected benefit payments, and the municipal bond rate applied to benefit payments, to the extent that the plan's fiduciary net position is projected to be insufficient. All three factors above play a key role in the calculation of the single equivalent rate.

Because the projections result in a date of depletion, the GASB 74 discount rate is lower than the investment return assumption of 4.25% as of December 31, 2022. After assets are expected to be depleted, projected benefit payments are discounted using the municipal bond index. The net result of the increase in the municipal bond rate is an increase in the single equivalent rate from 2.17% as of December 31, 2021 to 3.76% as of December 31, 2022, which caused a decrease in the Net OPEB Liability of \$240.0 million.

The Net OPEB Liability is \$381 million resulting in a funded ratio of 38.8% for the local plan as of December 31, 2022.

## **Statement of Fiduciary Net Position**

	<b>December 31, 2022</b>
Assets	
Receivables:	
Due From Other Benefit Programs	\$0
Miscellaneous Receivables	167,419
Total Receivables	167,419
Investments:	
Investment Contract	243,254,737
Total Investments	243,254,737
Total Assets	243,422,156
Liabilities	
Benefits Payable	1,470,513
Unearned Revenue	153,876
Due to Other Benefit Programs	28,686
Miscellaneous Payables	138,593
Total Liabilities	1,791,668
Net Position Restricted For Postemployment Benefits	
Other Than Pensions	\$241,630,488

## **Statement of Changes in Fiduciary Net Position**

	<b>December 31, 2022</b>
Additions	
Employer Contributions	\$2,006,410
Total Contributions	2,006,410
Investment Income (loss): Other Investment Income	6,761,274
Net Investment Income	6,761,274
Service Reimbursement Income	167,419
Total Additions	8,935,103
Deductions	
Other Benefit Expenses	13,837,804
Carrier Administrative Expenses	1,489,725
Administrative Expenses	167,419
Total Deductions	15,494,948
Transfer from Active Life Insurance Program	0
Net Increase/(Decrease) in Net Position	(6,559,845)
Net Position Restricted For Postemployment Benefits Other Than Pensions	
Beginning of Year (January 1, 2022)	248,190,333
End of Year (December 31, 2022)	\$241,630,488

### **Money-Weighted Rate of Return**

The money-weighted rate of return shown in the table below is calculated by Securian, the plan's insurance carrier.

Fiscal Year	Net
Ending	Money-Weighted
December 31	Rate of Return
2013	N/A
2014	N/A
2015	N/A
2016	N/A
2017	3.13%
2018	3.10%
2019	3.05%
2020	2.84%
2021	2.65%
2022	2.77%

### **Long-Term Expected Rate of Return**

Milliman's capital market assumptions underlie the "building block" method used in our estimate of expected return. The building block method in our model considers asset allocation, expected return and variance of each class, and correlation between asset classes. We then analyze the output ranges and Securian's assumption in order to arrive at our recommended investment return assumption.

Generally speaking, we recommend the expected return be set using a geometric return reasonably close to the 50th percentile over an appropriate time horizon. Due to the long-term nature of the retiree life insurance obligation, we looked at results compounded over a 30 year time period. Based on Milliman's capital market assumptions as of December 31, 2022 and the target asset allocation for the retiree life insurance program, the 50th percentile return over this time period is 5.00%.

The discount rate assumption Securian uses in the post-retirement funding analysis is determined by the following process:

- Securian projects a discount rate for each year in the projection based on a projection of new money rates blended with returns on current assets.
- The new money rates are projected based on a method agreed upon between Securian and ETF.
- The current projection assumption is that new money crediting rates grade from the current new money rate to an ultimate rate of 5.0% over 10 years.
- The projected new money rates are blended with the existing asset returns using the 10-year IYM method used to credit interest on plan assets.
- Securian's 30-year geometric average projected crediting rate as of December 31, 2022 is 4.58%.

Investments for the Retiree Life Insurance Funds are held with the insurance carrier. Interest is calculated and credited to the Retiree Life Insurance Funds based on the rate of return for a segment of the insurance carrier's general fund, specifically 10 Year A- Bonds (as a proxy, and not tied to any specific investments). The funds invested during the year earn interest based on that year's rate of return for 10 Year A- Bonds. The overall aggregate interest rate is calculated using a tiered approach based on the year the funds were invested and the rate of return for that year. Investment interest is credited based on the aggregate rate of return and assets are not adjusted to fair market value.

The difference between the Milliman and Securian results are that the Securian results are capped at 5% for any given year. Although the expected rates have increased over last year, the Long-Term Rate of Return assumption remains unchanged due to the long-term nature of the plan and factoring in historical investment losses.

Asset Class	Index	Target Allocation	Expected Geometric Real Rate of Return
US Intermediate Credit Bonds US Mortgages	Bloomberg US Interm Credit Bloomberg US MBS	50.00% 50.00%	2.45% 2.83%
Inflation			2.30%
Long-Term Expected Rate of	4.25%		

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2022 State of Wisconsin Postretirement Life Insurance Plan (Local)

Page 11

This work product was prepared solely for the ETF for the purposes described herein and may not be appropriate to use for other purposes. Milliman does not intend to benefit and assumes no duty or liability to other parties who receive this work. Milliman recommends that third parties be aided by their own actuary or other qualified professional when reviewing the Milliman work product.

### **Depletion Date Projection**

In order to determine if the plan's fiduciary net position is projected to be sufficient to make projected benefit payments, we have prepared a depletion date projection using the following techniques and assumptions:

- The employer and pre-65 annuitants contribute according to the premium schedule on page 30 of this report.
- Benefit payments are projected based on the actuarial assumptions and the current plan provisions.
- Members are assumed to terminate, retire, become disabled, die, and so forth according to the
  actuarial assumptions as listed in the Actuarial Assumptions section beginning on page 22 of this
  report.
- Terminating and retiring members will not be replaced with new employees, as mandated by the GASB 74/75 standards.
- All cash flows are assumed to occur on average halfway through the year.
- The long-term expected rate of return on plan investments is 4.25%.
- The 20 year tax-exempt municipal bond index rate is 3.72% as of December 31, 2022, based on the Bond Buyer GO 20-Bond Municipal Bond Index.
- The actuarial assumptions do not change.
- The plan provisions do not change except if any material future changes have been agreed upon as
  of the measurement date.

Actual results at each point in time will yield different values, reflecting the actual experience of the plan membership and assets.

The projection results to determine the December 31, 2022 discount rate are shown on pages 13 through 15.

## **Projection of Fiduciary Net Position**

	Projected Beginning Fiduciary	Projected Employer	Projected Benefit	Projected Administrative	Projected Investment	Projected Ending Fiduciary
Year	Net Position	Contributions	Payments	Expenses	Earnings	Net Position
2023	\$241,630,488	\$2,103,149	\$14,520,737	\$1,420,000	\$9,975,247	\$237,768,147
2024	237,768,147	1,957,243	15,439,402	1,452,660	9,787,781	232,621,109
2025	232,621,109	1,813,434	16,372,161	1,486,071	9,545,445	226,121,756
2026	226,121,756	1,673,023	17,383,404	1,520,251	9,244,024	218,135,148
2027	218,135,148	1,536,136	18,466,943	1,555,217	8,877,916	208,527,040
2028	208,527,040	1,404,341	19,607,308	1,590,987	8,441,778	197,174,865
2029	197,174,865	1,279,583	20,803,881	1,627,579	7,930,454	183,953,442
2030	183,953,442	1,163,728	22,066,010	1,665,014	7,338,466	168,724,612
2031	168,724,612	1,058,010	23,401,214	1,703,309	6,659,808	151,337,907
2032	151,337,907	960,701	24,779,485	1,742,485	5,888,684	131,665,322
2033	131,665,322	871,924	26,158,728	1,782,562	5,020,552	109,616,508
2034	109,616,508	792,726	27,559,428	1,823,561	4,051,158	85,077,403
2035	85,077,403	722,216	29,028,399	1,865,503	2,974,641	57,880,358
2036	57,880,358	658,881	30,489,260	1,908,410	1,785,466	27,927,035
2037	27,927,035	600,415	31,834,860	1,952,303	481,681	(4,778,032)

## **Actuarial Present Value of Projected Benefit Payments**

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	Present Value of "Funded" Benefit Payments at 4.25%*	Present Value of "Unfunded" Benefit Payments at 3.72%**	Present Value of Total Benefit Payments at 3.76%***
2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2040 2041 2042 2043 2044 2045 2046 2047 2050 2051 2052 2053 2054 2055 2056 2057 2058 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2071							
2072 2073 2074 2075	0 0 0 0	46,405,363 45,501,753 44,514,399 43,435,979	0 0 0 0	46,405,363 45,501,753 44,514,399 43,435,979	0 0 0 0	7,609,814 7,194,017 6,785,492 6,383,633	7,462,555 7,052,020 6,648,933 6,252,693

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2022 State of Wisconsin Postretirement Life Insurance Plan (Local)

Page 14

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# Actuarial Present Value of Projected Benefit Payments (Continued)

Year	Projected Beginning Fiduciary Net Position	Projected Benefit Payments	"Funded" Portion of Benefit Payments	"Unfunded" Portion of Benefit Payments	Present Value of "Funded" Benefit Payments at 4.25%*	Present Value of "Unfunded" Benefit Payments at 3.72%**	Present Value of Total Benefit Payments at 3.76%***
2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121	\$00000000000000000000000000000000000000	\$42,259,898 40,985,141 39,608,714 38,131,221 36,554,986 34,879,745 33,110,286 31,251,913 29,307,414 27,290,213 25,208,920 23,080,256 20,921,822 18,754,691 16,604,324 14,498,590 12,466,376 10,540,455 8,751,171 7,125,298 5,683,553 4,435,616 3,382,561 2,517,165 1,825,252 1,287,658 882,393 586,429 377,373 234,776 140,998 81,625 45,491 24,387 12,570 6,235 2,987 1,391 630 279 121 522 21 8 3 1	\$00000000000000000000000000000000000000	\$42,259,898 40,985,141 39,608,714 38,131,221 36,554,986 34,879,745 33,110,286 31,251,913 29,307,414 27,290,213 25,208,920 23,080,256 20,921,822 18,754,691 16,604,324 14,498,590 12,466,376 10,540,455 8,751,717 7,125,298 5,683,553 4,435,616 3,382,561 2,517,165 1,825,252 1,287,658 882,393 586,429 377,373 234,776 140,998 81,625 45,491 24,387 12,570 6,235 2,987 1,391 630 279 121 52 21 8 3 3	\$00000000000000000000000000000000000000	\$5,988,034 5,599,120 5,217,008 4,842,270 4,475,612 4,117,339 3,768,285 3,429,216 3,100,511 2,783,557 2,479,048 2,188,310 1,912,517 1,652,925 1,410,918 1,187,802 984,682 802,699 642,535 504,395 387,905 291,875 214,598 153,968 107,641 73,214 48,372 30,994 19,230 11,534 6,679 3,728 2,003 1,035 514 246 114 51 22 10 0 0	\$5,862,893 5,479,943 5,103,950 4,735,462 4,375,164 4,023,343 3,680,804 3,348,285 3,026,143 2,715,719 2,417,677 2,133,294 1,863,698 1,610,097 1,373,819 1,156,112 958,033 780,667 624,653 490,164 376,812 283,416 208,297 149,388 104,398 70,980 46,877 30,025 18,621 11,165 6,462 3,605 1,937 1,001 497 238 110 497 238 110 497 238 110 497 211 9 4 21 0 0 0
Total				4.050/	223,162,653	+ 599,455,813	= 822,618,466

<sup>\*</sup> Discounted at the long-term expected rate of return, 4.25%

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2022 State of Wisconsin Postretirement Life Insurance Plan (Local)

Page 15

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<sup>\*\*</sup> Discounted at the municipal bond rate, 3.72%

<sup>\*\*\*</sup> Discounted at the single interest rate that produces a total actuarial present value equal to the sum of the actuarial present values of "funded" and "unfunded" benefit payments, 3.76%

### **Net OPEB Liability**

Net OPEB Liability	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Total OPEB liability	\$839,227,293	\$622,613,167
Fiduciary net position	248,190,333	241,630,488
Net OPEB liability	591,036,960	380,982,679
Fiduciary net position as a % of total OPEB liability	29.57%	38.81%
Covered payroll	4,418,463,000	4,471,422,000
Net OPEB liability as a % of covered payroll	13.38%	8.52%

The total OPEB liability was determined by an actuarial valuation as of the valuation date, calculated based on the discount rate and actuarial assumptions below, and was then projected forward to the measurement date. Any significant changes during this period have been reflected as prescribed by GASB 74 and 75.

#### **Discount Rate**

Discount rate	2.17%	3.76%
Long-term expected rate of return, net of investment expense	4.25%	4.25%
20 Year Tax-Exempt Municipal Bond Yield	2.06%	3.72%

The plan's fiduciary net position was projected to be insufficient to make all projected future benefit payments of current active and inactive employees. Therefore, the discount rate for calculating the total OPEB liability is equal to the single equivalent rate that results in the same actuarial present value as the long-term expected rate of return applied to benefit payments, to the extent that the plan's fiduciary net position is projected to be sufficient to make projected benefit payments, and the municipal bond rate applied to benefit payments, to the extent that the plan's fiduciary net position is projected to be insufficient.

#### **Other Key Actuarial Assumptions**

Valuation date	January 1, 2021	January 1, 2022
Measurement date	December 31, 2021	December 31, 2022
Salary increases including inflation	WRS; see "Actuarial Assumptions" for details	WRS; see "Actuarial Assumptions" for details
Mortality	WRS; see "Actuarial Assumptions" for details	WRS; see "Actuarial Assumptions" for details
Actuarial cost method	Entry Age Normal	Entry Age Normal

### **Changes in Net OPEB Liability**

	Increase (Decrease)		
Changes in Net OPEB Liability	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a) - (b)
Balances as of December 31, 2021	\$839,227,293	\$248,190,333	\$591,036,960
Changes for the year:			
Service cost	34,791,948		34,791,948
Interest on total OPEB liability	18,816,883		18,816,883
Effect of plan changes	0		0
Effect of economic/demographic gains or losses	(16,428,397)		(16,428,397)
Effect of assumptions changes or inputs	(239,956,756)		(239,956,756)
Benefit payments	(13,837,804)	(13,837,804)	0
Employer contributions		2,006,410	(2,006,410)
Transfer from active life insurance program		0	0
Net investment income		6,928,693	(6,928,693)
Administrative expenses		(1,657,144)	1,657,144
Balances as of December 31, 2022	622,613,167	241,630,488	380,982,679

#### **Sensitivity Analysis**

The following presents the net OPEB liability, calculated using the discount rate of 3.76%, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower (2.76%) or 1 percentage point higher (4.76%) than the current rate.

		Current	
	1% Decrease Discount Rate 1% Increa		1% Increase
	2.76%	3.76%	4.76%
otal OPEB liability	\$761,060,085	\$622,613,167	\$516,509,744
duciary net position	241,630,488	241,630,488	241,630,488
et OPEB liability	519,429,597	380,982,679	274,879,256

Healthcare trend rates do not affect the retiree life insurance liabilities. Thus, sensitivity analysis of healthcare trend rates is not included.

## Schedule of Changes in Net OPEB Liability and Related Ratios (in 1,000s)

	Fiscal Year Ending December 31									
	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Total OPEB Liability										
Service cost	\$34,792	\$33,939	\$26,704	\$17,024	\$21,103	\$18,064	N/A	N/A	N/A	N/A
Interest on total OPEB liability	18,817	18,679	20,163	21,747	20,416	19,813	N/A	N/A	N/A	N/A
Changes of benefit terms	0	0	0	0	0	0	N/A	N/A	N/A	N/A
Effect of economic/demographic (gains) or losses	(16,428)	(10,657)	(12,478)	(9,523)	(11,045)	(4,888)	N/A	N/A	N/A	N/A
Effect of assumption changes or inputs	(239,957)	6,281	97,691	159,401	(65,026)	33,525	N/A	N/A	N/A	N/A
Net Benefit payments	(13,838)	(10,444)	(12,873)	(9,358)	(7,605)	(7,323)	N/A	N/A	N/A	N/A
Net change in total OPEB liability	(216,614)	37,798	119,207	179,290	(42,157)	59,190	N/A	N/A	N/A	N/A
Total OPEB liability, beginning	839,227	801,429	682,222	502,932	545,089	485,899	N/A	N/A	N/A	N/A
Total OPEB liability, ending (a)	622,613	839,227	801,429	682,222	502,932	545,089	N/A	N/A	N/A	N/A
Fiduciary Net Position										
Employer contributions	\$2,006	\$2,047	\$1,994	\$1,808	\$1,927	\$2,063	N/A	N/A	N/A	N/A
Transfer from active life insurance program	0	0	0	12,945	0	\$0	N/A	N/A	N/A	N/A
Net Investment income	6,929	6,718	7,336	7,494	7,580	7,664	N/A	N/A	N/A	N/A
Net Benefit payments	(13,838)	(10,444)	(12,873)	(9,358)	(7,605)	(7,323)	N/A	N/A	N/A	N/A
Administrative expenses	(1,657)	(1,487)	(1,504)	(1,384)	(1,235)	(1,284)	N/A	N/A	N/A	N/A
Net change in plan fiduciary net position	(6,560)	(3,166)	(5,046)	11,505	667	1,119	N/A	N/A	N/A	N/A
Fiduciary net position, beginning	248,190	251,357	256,403	244,898	244,231	243,112	N/A	N/A	N/A	N/A
Fiduciary net position, ending (b)	241,630	248,190	251,357	256,403	244,898	244,231	N/A	N/A	N/A	N/A
Net OPEB liability, ending = (a) - (b)	\$380,983	\$591,037	\$550,072	\$425,819	\$258,034	\$300,858	N/A	N/A	N/A	N/A
Fiduciary net position as a % of total OPEB liability	38.81%	29.57%	31.36%	37.58%	48.69%	44.81%	N/A	N/A	N/A	N/A
Covered payroll	\$4,471,422	\$4,418,463	\$4,307,440	\$4,228,196	\$4,115,018	\$4,205,286	N/A	N/A	N/A	N/A
Net OPEB liability as a % of covered payroll	8.52%	13.38%	12.77%	10.07%	6.27%	7.15%	N/A	N/A	N/A	N/A

This schedule is presented to illustrate the requirement to show information for 10 years. However, recalculations of prior years are not required, and if prior years are not reported in accordance with the current GASB standards, they should not be reported.

#### Notes to Schedule:

<sup>\*</sup> May not add due to rounding

### **OPEB Expense and Deferred Inflows/Outflows of Resources**

	January 1, 2021 to	January 1, 2022 to
OPEB Expense	<b>December 31, 2021</b>	<b>December 31, 2022</b>
Service cost	\$33,939,169	\$34,791,948
Interest on total OPEB liability	18,678,940	18,816,883
Effect of plan changes	0	0
Administrative expenses	1,487,195	1,657,144
Expected investment return net of investment expenses	(10,474,802)	(10,264,440)
Recognition of Deferred Inflows/Outflows of Resources		
Recognition of economic/demographic gains or losses	(6,838,184)	(9,208,804)
Recognition of assumption changes or inputs	32,599,329	(2,026,466)
Recognition of investment gains or losses	4,075,617	3,876,701
OPEB Expense	73,467,264	37,642,966

As of December 31, 2022, the deferred inflows and outflows of resources to be recognized in future OPEB expense are as follows:

Deferred Inflows / Outflows of Resources	Deferred Inflows of Resources	Deferred Outflows of Resources
Differences between expected and actual experience	(\$37,285,413)	\$0
Changes of assumptions	(224,884,247)	136,878,773
Net difference between projected and actual earnings	<u>0</u>	<u>7,148,878</u>
Total	(262,169,660)	144,027,651
Total net deferrals		(118,142,009)

Amounts currently reported as deferred outflows of resources and deferred inflows of resources related to other postemployment benefits will be recognized in OPEB expense as follows:

Year ended December 31:	
2023	(\$8,250,658)
2024	(10,944,078)
2025	(4,576,375)
2026	(22,968,599)
2027	(36,995,636)
Thereafter*	(34,406,663)
Total net deferrals	(\$118,142,009)

<sup>\*</sup> Note that additional future deferred inflows and outflows of resources may impact these numbers.

#### Schedule of Deferred Inflows and Outflows of Resources

	Original Amount	Date Established	Original Recognition Period*	Remaining Recognition Period	Amount Recognized in 12/31/2022 Expense	Balance of Deferred Inflows 12/31/2022	Balance of Deferred Outflows 12/31/2022
Investment	\$3,335,747	12/31/2022	5.00	5.00	\$667,149	\$0	\$2,668,598
(gains) or losses	3,756,837	12/31/2021	5.00	4.00	751,367	0	2,254,103
(game) or record	3,300,409	12/31/2020	5.00	3.00	660,082	0	1,320,163
	4,530,070	12/31/2019	5.00	2.00	906,014	0	906,014
	4,460,445	12/31/2018	5.00	1.00	892,089		0
		Total			3,876,701	<u>0</u> 0	7,148,87 <del>8</del>
Differences	(10 100 000)	10/01/0000			(0.000		
between expected	(16,428,397)		6.93	6.93	(2,370,620)	(14,057,777)	0
and actual	(10,656,535)		6.96	5.96	(1,531,111)	(7,594,313)	0
experience	(12,478,388)		7.05	5.05	(1,769,984)	(7,168,436)	0
	(9,523,423)		7.09	4.09	(1,343,219)	(4,150,547)	0
	(11,044,672)		7.15	3.15	(1,544,709)	(3,321,127)	0
	(4,888,179)		7.53	2.53	(649,161)	(993,213)	<u>0</u> 0
		Total			(9,208,804)	(37,285,413)	0
Assumption	(239,956,756)	12/31/2022	6.93	6.93	(34,625,795)	(205,330,961)	0
changes or inputs	6,280,710	12/31/2021	6.96	5.96	902,401	0	4,475,908
	97,690,598	12/31/2020	7.05	5.05	13,856,822	0	56,120,132
	159,400,955	12/31/2019	7.09	4.09	22,482,504	0	69,470,939
	(65,026,046)	12/31/2018	7.15	3.15	(9,094,552)	(19,553,286)	0
	33,524,718	12/31/2017	7.53	2.53	<u>4,452,154</u>	<u>0</u>	6,811,794
		Total			(2,026,466)	(224,884,247)	136,878,773

**Subtotal of Deferred Inflows/Outflows** 

(262,169,660) 144,027,651

Total net deferrals (118,142,009)

<sup>\*</sup> Investment (gains)/losses are recognized in OPEB expense over a period of five years; differences between expected and actual experience and assumption changes or inputs are recognized over the average remaining service life for all active and inactive members.

## **OPEB Liability and Expense Summary**

Total

Plan

	OPEB	Fiduciary	OPEB	П	Deferred	Deferred	Net	Liability plus		Annual
	Liability	Net Position	Liability	Н	Inflows	Outflows	Deferrals	Net Deferrals	1_	Expense
Balances as of December 31, 2021	(\$839,227,293)	\$248,190,333	(\$591,036,960)		(\$58,713,658)	\$186,262,486	\$127,548,828	(\$463,488,132)		
Service cost	(34,791,948)		(34,791,948)	Н						34,791,948
Interest on total OPEB liability	(18,816,883)		(18,816,883)	Н						18,816,883
Effect of plan changes	0		0	Н						0
Effect of liability gains or losses	16,428,397		16,428,397	Н	(16,428,397)		(16,428,397)			
Effect of assumption changes or inputs	239,956,756		239,956,756	Н	(239,956,756)		(239,956,756)			
Benefit payments	13,837,804	(13,837,804)	0	Н						
Transfer from active life insurance program		0	0	Н				0		
Administrative expenses		(1,657,144)	(1,657,144)	Н						1,657,144
Expected investment income (net of inv expenses)		10,264,440	10,264,440	Н						(10,264,440)
Investment gains or losses		(3,335,747)	(3,335,747)	Н		3,335,747	3,335,747			
Employer contributions		2,006,410	2,006,410	П				2,006,410		
Recognition of liability gains or losses				П	9,208,804		9,208,804			(9,208,804)
Recognition of assumption changes or inputs				Н	43,720,347	(41,693,881)	2,026,466			(2,026,466)
Recognition of investment gains or losses				Н		(3,876,701)	(3,876,701)			3,876,701
				Н					1.	
Annual expense				П				(37,642,966)		37,642,966
				Н						
Balances as of December 31, 2022	(622,613,167)	241,630,488	(380,982,679)	IJ	(262,169,660)	144,027,651	(118,142,009)	(499,124,688)	L	

### **Actuarial Assumptions**

The following assumptions were used in the actuarial valuation of the State of Wisconsin Postretirement Life Insurance Plan. Where consistent with the terms of the plan, we have utilized the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. All assumptions are based on estimates of future experience.

Valuation Date: January 1, 2022

Census Date: January 1, 2022

**Discount Rate:** 3.76% (net of expenses)

Expected Return on Plan Assets: 4.25% Inflation Rate: 2.30%

Salary Increases: Salary increase assumptions adopted by the Employee Trust Funds

Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Assumed rates for individual active members are shown below. Part of the assumption for each age is for merit and longevity increase, and another 3.00% recognizes wage inflation, including price inflation, productivity increases, and other macroeconomic forces. Given that the price inflation assumption of 2.4% and the current wage inflation of 3.0% results in a spread of 60 basis points, GRS recommended no change in the wage inflation with

the most recent experience study.

#### % of Merit & Longevity Increase Next Year

Service	Protective with Social Security	Protective w/o Social Security	Executive & Elected	General	Public Schools	University
1	4.8%	5.5%	2.5%	3.5%	5.6%	3.0%
2	4.8	5.5	2.5	3.5	5.6	3.0
3	4.1	4.7	2.0	3.1	5.2	2.9
4	3.5	3.8	1.6	2.8	4.7	2.8
5	2.8	3.0	1.1	2.5	4.3	2.7
10	1.1	0.9	0.2	1.5	2.6	2.2
15	8.0	0.5	0.2	1.1	1.4	1.7
20	0.7	0.4	0.2	0.9	0.6	1.2
25	0.6	0.3	0.2	0.6	0.3	0.9
30	0.5	0.2	0.2	0.4	0.2	0.7

**Trend Rate:** 0.00% increase in life insurance premium rates shown on page 30.

#### **Pre-Retirement Mortality:**

This assumption applies to death while in service. These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Rates are based on the 2018-2020 experience study as the base table and project future improvements with MP-2021 generational improvement scale from a base year of 2010. This assumption includes a margin for improvements in longevity beyond the valuation date. Sample rates of the mortality with attained ages in 2020 are as follows:

Age	Males	Females
20	0.0396%	0.0163%
25	0.0211	0.0126
30	0.0339	0.0218
35	0.0484	0.0311
40	0.0604	0.0414
45	0.0792	0.0542
50	0.1188	0.0796
55	0.1905	0.1269
60	0.3127	0.1974
65	0.5010	0.3023
70	0.7534	0.5060
75	1.1093	0.9717
80	2.2172	1.9931

#### **Post-Retirement Mortality:**

This assumption applies to death while retired. These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Rates are based on the 2018-2020 experience study as the base table and project future improvements with MP-2021 generational improvement scale from a base year of 2010. This assumption includes a margin for improvements in longevity beyond the valuation date. Sample rates of the mortality with attained ages in 2020 are as follows:

Age	Males	Females
40	0.0604%	0.0414%
45	0.0792	0.0542
50	0.1220	0.0883
55	0.2469	0.2291
60	0.4228	0.3519
65	0.6818	0.4995
70	1.1370	0.8033
75	2.0920	1.5414
80	4.0033	3.0758
85	7.6830	6.0133

#### **Post-Disability Mortality:**

This assumption applies to death after disablement. These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Rates are based on the 2018-2020 experience study as the base table and project future improvements with MP-2021 generational improvement scale from a base year of 2010. This assumption includes a margin for improvements in longevity beyond the valuation date. Sample rates of the mortality with attained ages in 2020 are as follows:

Age	Males	Females
45	1.1907%	1.1104%
55	2.3406	2.0673
65	3.5058	2.5264
75	5.3480	4.2232
85	11.4832	10.4179

#### **Disability:**

Percent of employees expected to become disabled each year. These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Sample rates are as follows:

				General		Public Schools		University	
Age	Protective with Social Security	Protective w/o Social Security	Executive & Elected	Male	Female	Male	Female	Male	Female
20	0.02%	0.03%	0.00%	0.01%	0.00%	0.01%	0.01%	0.00%	0.01%
25	0.02	0.03	0.00	0.01	0.00	0.01	0.01	0.00	0.01
30	0.02	0.03	0.00	0.01	0.02	0.01	0.01	0.00	0.01
35	0.03	0.03	0.01	0.01	0.02	0.01	0.01	0.00	0.03
40	0.04	0.05	0.01	0.03	0.03	0.01	0.02	0.01	0.04
45	0.05	0.10	0.01	0.06	0.05	0.03	0.05	0.02	0.04
50	0.09	0.55	0.02	0.13	0.07	0.08	0.10	0.03	0.07
55	1.39	0.41	0.09	0.24	0.13	0.14	0.14	0.08	0.11
60	2.34	0.12	0.11	0.43	0.18	0.24	0.21	0.11	0.17

#### Withdrawal:

Percent of employees expected to terminate each year within the first 10 years of employment. These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Sample rates are as follows:

				Gen	eral	Public	Schools	Unive	ersity
Service	Protective with Social Security	Protective w/o Social Security	Executive & Elected	Male	Female	Male	Female	Male	Female
0	15.6%	4.5%	25.0%	17.7%	20.0%	12.6%	12.0%	14.0%	14.1%
1	9.4	4.0	20.0	12.5	15.0	11.6	10.0	13.8	14.0
2	5.3	2.0	17.0	9.0	11.5	8.5	8.5	12.6	12.7
3	4.4	1.8	16.0	7.1	9.6	6.0	6.2	11.0	10.0
4	4.2	1.7	13.0	6.6	9.0	5.6	5.8	8.6	9.3
5	3.3	1.3	4.0	5.3	7.4	4.5	4.8	8.5	8.1
6	3.2	1.2	4.0	4.8	6.3	3.7	4.1	7.0	7.0
7	3.0	0.9	4.0	4.6	6.0	2.9	3.5	5.6	5.6
8	2.7	0.8	4.0	4.1	5.7	2.6	3.4	4.6	4.9
9	2.3	0.7	4.0	4.0	5.0	2.5	3.0	4.3	4.3

Percent of employees expected to terminate each year after the first 10 years of employment. These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Sample rates are as follows:

				General		Public Schools		University	
Age	Protective with Social Security	Protective w/o Social Security	Executive & Elected	Male	Female	Male	Female	Male	Female
25	2.1%	0.7%	4.5%	3.2%	4.9%	2.0%	2.2%	4.2%	4.0%
30	2.1	0.7	4.5	3.2	4.9	2.0	2.2	4.2	4.0
35	1.8	0.6	4.5	2.8	4.1	1.6	1.9	4.0	4.0
40	1.5	0.6	4.2	2.4	3.2	1.4	1.6	3.4	3.7
45	1.4	0.5	3.7	2.0	2.9	1.4	1.4	2.8	3.2
50	1.3	0.5	3.2	1.7	2.5	1.3	1.2	2.3	2.7
54+	1.3	0.5	3.0	1.6	2.2	1.3	1.2	2.2	2.5

#### **Normal Retirement:**

Percent of employees expected to retire each year. These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System. Sample rates are as follows:

				Gen	neral	Public S	Schools	University	
Age	Protective with Social Security	Protective w/o Social Security	Executive & Elected	Male	Female	Male	Female	Male	Female
50	6.0%	3.0%							
51	8.0	4.0							
52	11.0	5.0							
53	34.0	17.0							
54	32.0	24.0							
55	26.0	29.0							
56	23.0	32.0							
57	27.0	23.0	10.0%	20.0%	17.0%	31.0%	28.0%	12.0%	10.0%
58	21.0	27.0	10.0	20.0	18.0	29.0	28.0	16.0	20.0
59	23.0	40.0	10.0	20.0	14.0	28.0	26.0	9.0	12.0
60	22.0	25.0	10.0	20.0	20.0	27.0	29.0	15.0	14.0
61	30.0	25.0	10.0	20.0	18.0	26.0	27.0	9.0	13.0
62	35.0	31.0	10.0	30.0	24.0	39.0	36.0	10.0	15.0
63	27.0	40.0	10.0	30.0	29.0	33.0	31.0	11.0	19.0
64	30.0	40.0	15.0	30.0	23.0	30.0	30.0	16.0	17.0
65	34.0	40.0	15.0	30.0	35.0	32.0	39.0	16.0	21.0
66	35.0	100.0	15.0	40.0	39.0	35.0	44.0	21.0	25.0
67	35.0	100.0	15.0	32.0	33.0	31.0	31.0	18.0	25.0
68	35.0	100.0	10.0	32.0	30.0	28.0	30.0	19.0	18.0
69	35.0	100.0	10.0	28.0	22.0	20.0	30.0	14.0	17.0
70	100.0	100.0	10.0	28.0	26.0	30.0	32.0	21.0	22.0
71	100.0	100.0	10.0	28.0	28.0	25.0	25.0	24.0	17.0
72	100.0	100.0	10.0	28.0	30.0	25.0	25.0	24.0	17.0
73	100.0	100.0	20.0	18.0	30.0	25.0	25.0	24.0	21.0
74	100.0	100.0	20.0	18.0	16.0	25.0	25.0	24.0	14.0
75	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

#### **WRS Pension Benefit Normal Retirement Eligibility:**

	blic School, iversity	Prote	ective	Executive & Elected#		
Age	Service	Age	Service	Age	Service	
65	Any*	54	Any*	62	Any*	
57	30	53	25	57	30	

<sup>\*</sup> Participants first employed after 1989 and terminated before April 24, 1998 must have creditable service in five calendar years.

<sup>#</sup> These conditions apply to those people hired on or before December 31, 2016. For others, the General eligibility conditions apply.

#### **Reduced Retirement:**

These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2018-2020 for the Wisconsin Retirement System.

		General		Public S	Schools	University		
Age	Executive & Elected	Male	Female	Male	Female	Male	Female	
55	3.0%	7.0%	7.0%	12.0%	11.0%	3.0%	5.0%	
56	3.0	6.0	7.0	13.0	13.0	3.0	5.0	
57	3.0	5.0	6.0	13.0	12.0	4.0	5.0	
58	3.0	6.0	7.0	12.0	13.0	4.0	6.0	
59	3.0	6.0	7.0	14.0	14.0	4.0	6.0	
60	5.0	9.0	10.0	16.0	17.0	5.0	8.0	
61	5.0	8.0	10.0	16.0	17.0	5.0	9.0	
62	1.0	19.0	16.0	23.0	24.0	7.0	11.0	
63	1.0	20.0	18.0	21.0	24.0	8.0	12.0	
64	1.0	18.0	18.0	21.0	24.0	12.0	15.0	

Any participant who has attained age 55 and any Protective occupation participant who has attained age 50 may apply for a reduced pension retirement benefit.

#### **Expenses:**

Benefit payment expense: 2.1% of benefits paid after age 65

Administrative expense: \$1,420,000. This is equal to the average of the actual administrative expenses paid in the prior two years. For depletion date projection purposes, we assume that this figure will increase with price inflation.

#### **Missing Data Assumptions:**

The following assumptions were used for any missing data.

- 1. Gender 50% male; 50% female
- 2. Employment code 100% General

## Changes Since Prior Valuation:

The discount rate has changed from 2.17% to 3.76%. An increase in the discount rate decreases the liabilities.

The administrative expense assumption was updated from \$1,350,000 to \$1,420,000 as part of the annual review of administrative expenses. This change had no impact on the determination of the discount rate because assets were projected to deplete in the same future date under either assumption.

## Rationale for Significant Assumptions:

With any valuation of future benefits, assumptions of anticipated future events are required. If actual events differ from the assumptions made, the actual cost of the plan will vary as well. The following assumptions should be reviewed for appropriateness.

#### **Discount Rate:**

We have discounted future benefit payments back to the present using an interest rate of 3.76%. This rate is the single equivalent rate that results in the same actuarial present value as the long-term expected rate of return while funded and the municipal bond rate while unfunded.

## GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2022 State of Wisconsin Postretirement Life Insurance Plan (Local)

Trend Rate: We have assumed no future increases in life insurance premium rates.

There have been no premium rate increases since the inception of the

plan.

Expected Return on Plan

Assets:

The expected return on plan assets, 4.25%, has been selected by the plan sponsor to reflect the plan's investment policy, including target asset

allocations, and capital market expectations.

Demographic Assumptions: All demographic assumptions are based upon assumptions adopted by

the Employee Trust Funds Board in connection with a study of experience

during 2018-2020 for the Wisconsin Retirement System.

Expenses: Based on recent history of the plan.

For the post-65 portion of the plan, employer contributions to premium deposit fund are not treated as premiums; therefore, no state premium tax is applied. However, when benefits are paid from the premium deposit fund, they are cleared as premiums, and the state premium tax is applied. Furthermore, other administrative expenses including state premium taxes are also cleared as premiums and subject to state premium tax.

The Department of Employee Trust Funds classifies the state premium tax for the post-65 portion of the plan as a benefit payment expense and all other expenses as administrative expenses. The expense assumptions used in this report follow this classification.

### **Summary of Plan Provisions**

This summary of plan provisions is intended only to describe the essential features of the plan used in the actuarial valuation. All eligibility requirements and benefit amounts shall be determined in strict accordance with the plan document itself.

#### **Enrollment Eligibility:**

Generally, members may enroll during a 30-day enrollment period. They may enroll after the initial 30-day enrollment period with evidence of insurability. Members under evidence of insurability enrollment must enroll in group life insurance coverage before age 55 to be eligible for Basic or Supplemental coverage.

#### **Retirement Eligibility:**

At retirement, the member must satisfy one of the following -

- WRS coverage prior to January 1, 1990, or
- at least one month of group life insurance coverage in each of 5 calendar years after 1989

and one of the following -

- eligible for an immediate WRS benefit, or
- at least 20 years from their WRS creditable service as of 1/1/1990 plus their years of group life insurance coverage after 1989, or
- at least 20 years on the payroll of their last employer.

In addition, terminating members and retirees must continue to pay Employee Premiums until age 65 (age 70 if active).

#### **Basic Coverage Benefits:**

After retirement, Basic coverage is continued for life in these amounts of the insurance in force before retirement (one times WRS earnings):

<u>Age</u>	Percent of Basic Coverage Continuing
Before age 65	100%
While age 65	75
While age 66	50
While 67 and later	25*

<sup>\*</sup> Local employers may elect to increase this to 50%

## Supplemental Coverage Benefits:

After retirement, Supplemental coverage may be continued until age 65 at 100% of the amount of the insurance in force before retirement at the employee's expense (this benefit is not included in the valuation as it is entirely employee paid).

#### **Additional Coverage:**

After retirement, Additional coverage may be continued until age 65 at 100% of the amount of the insurance in force before retirement at the employee's expense (this benefit is not included in the valuation as it is entirely employee paid).

## Spouse & Dependent Coverage:

After retirement, the coverage is terminated and not included in the Postretirement Life Insurance Plan.

#### **Employee Premiums:**

The employee must pay these monthly premiums per \$1,000 of insurance until age 65 (age 70 if active):

Attained Age	Basic	Supplemental
Under 30	\$0.05	\$0.05
30-34	0.06	0.06
35-39	0.07	0.07
40-44	0.08	0.08
45-49	0.12	0.12
50-54	0.22	0.22
55-59	0.39	0.39
60-64	0.49	0.49
65-69	0.57	0.57

Disabled members under age 70 receive a waiver-of-premium benefit.

#### **Employer Premiums:**

The employer must pay these premiums while actively employed:

- 40% of Employee Premiums if 50% post-66 retiree Basic coverage
- 20% of Employee Premiums if 25% post-66 retiree Basic coverage

100% of Employer Premiums are paid to fund retiree coverage.

No Employer contribution required for Supplemental Coverage.

## **Summary of Participant Data**

The participant data used in the valuation was provided by Securian and the State of Wisconsin. While the participant data was checked for reasonableness, the data was not audited, and the valuation results presented in this report are dependent upon the accuracy of the participant data provided. The table below presents a summary of the basic participant information for the active and inactive participants covered under the terms of the Plan.

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
A. Active Participants										
Count	74,187	74,407	75,143	74,557	74,481	74,447	N/A	N/A	N/A	N/A
Average Age	44.6	44.9	45.0	45.1	45.2	45.4	N/A	N/A	N/A	N/A
Average Service	9.9	10.1	10.1	10.3	10.3	10.5	N/A	N/A	N/A	N/A
Average Projected Salary	\$62,751	\$60,971	\$59,271	\$58,130	\$57,161	\$56,488	N/A	N/A	N/A	N/A
B. Disabled Participants										
Count	992	1,084	1,162	1,205	1,238	1,234	N/A	N/A	N/A	N/A
Average Age	57.6	57.9	57.8	57.6	57.4	57.3	N/A	N/A	N/A	N/A
Average Current Insurance	\$51,204	\$50,317	\$48,784	\$47,680	\$46,842	\$46,307	N/A	N/A	N/A	N/A
C. Pre-65 Annuitants										
Count	9,848	9,807	9,918	10,076	10,195	10,571	N/A	N/A	N/A	N/A
Average Age	60.5	61.1	61.1	61.2	61.2	61.2	N/A	N/A	N/A	N/A
Average Current Insurance	\$68,781	\$67,052	\$65,883	\$64,538	\$63,470	\$62,285	N/A	N/A	N/A	N/A
D. Post-64 Annuitants										
Count	39,631	38,376	37,032	35,522	34,068	31,924	N/A	N/A	N/A	N/A
Average Age	74.4	74.8	74.7	74.5	74.4	74.3	N/A	N/A	N/A	N/A
Average Current Insurance	\$13,772	\$13,443	\$13,103	\$12,774	\$12,455	\$14,787	N/A	N/A	N/A	N/A

## **Summary of Demographic Information**

	Active Members as of January 1, 2022											
					Years o	f Service						
<u>Age</u>	<u>&lt;1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>ALL</u>	
<25	1,282	1,011	5	-	-	-	-	-	-	-	2,298	
25-29	1,459	4,226	812	1	-	-	-	-	-	-	6,498	
30-34	1,232	3,740	3,315	292	2	-	-	-	-	-	8,581	
35-39	1,066	3,198	2,994	1,806	342	9	-	-	-	-	9,415	
40-44	863	2,762	2,620	1,618	1,934	498	5	-	-	-	10,300	
45-49	695	2,216	2,200	1,301	1,480	2,107	244	5	-	-	10,248	
50-54	591	1,930	2,133	1,305	1,464	2,015	1,552	291	3	-	11,284	
55-59	387	1,395	1,614	1,098	1,184	1,520	1,016	706	120	8	9,048	
60-64	184	758	899	714	755	927	551	357	156	65	5,366	
65-69	31	155	259	169	145	163	100	69	24	34	1,149	
70+	-	-	-	-	-	-	-	-	-	-	-	
ALL	7,790	21,391	16,851	8,304	7,306	7,239	3,468	1,428	303	107	74,187	
					Projecte	ed Salary						
						f Service						
<u>Age</u>	<u>&lt;1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30-34</u>	<u>35-39</u>	<u>40+</u>	<u>ALL</u>	
<25	\$45,009	\$47,211	*	-	-	-	-	-	-	-	45,977	
25-29	48,133	53,910	63,610	*	-	-	-	-	-	-	53,822	
30-34	50,502	55,662	63,808	70,464	*	-	-	-	-	-	58,572	
35-39	51,462	55,946	64,709	73,340	74,633	*	-	-	-	-	62,240	
40-44	52,083	56,390	65,413	73,224	76,199	75,799	*	-	-	-	65,616	
45-49	53,363	57,857	64,982	72,432	77,504	80,161	80,825	*	-	-	68,902	
50-54	53,029	56,877	63,362	66,661	73,951	78,411	81,739	74,818	*	-	68,980	
55-59	47,308	53,281	61,069	60,294	65,296	68,054	73,970	74,839	65,419	*	63,500	
60-64	43,760	47,977	55,692	58,862	60,521	60,871	64,242	67,116	69,151	69,314	58,383	
65-69	36,374	45,630	50,654	57,082	56,617	56,552	57,402	67,773	70,975	78,789	54,998	
70+	-	-	-	-	-	-	-	-	-	-	-	
ALL	49,534	54,890	63,402	68,719	72,159	73,799	75,849	72,504	67,858	72,278	62,751	

<sup>\*</sup> Compensation shown for groups of 20 or more.

### **Glossary**

## Actuarially Determined Contribution

A target or recommended contribution to a defined benefit OPEB plan for the reporting period, determined based on the funding policy and most recent measurement available when the contribution for the reporting period was adopted.

## Deferred Inflows/Outflows of Resources

Portion of changes in net OPEB liability that is not immediately recognized in OPEB Expense. These changes include differences between expected and actual experience, changes in assumptions, and differences between expected and actual earnings on plan investments.

#### **Discount Rate**

Single rate of return that, when applied to all projected benefit payments, results in an actuarial present value of projected benefit payments equal to the sum of:

- The actuarial present value of benefit payments projected to be made in future periods where the plan assets are projected to be sufficient to meet benefit payments, calculated using the Long-Term Expected Rate of Return.
- 2. The actuarial present value of projected benefit payments not included in (1), calculated using the Municipal Bond Rate.

#### **Fiduciary Net Position**

Equal to market value of assets.

## Long-Term Expected Rate of Return

Long-term expected rate of return on plan investments expected to be used to finance the payment of benefits, net of investment expenses.

## Money-Weighted Rate of Return

The internal rate of return on plan investments, net of investment expenses.

#### **Municipal Bond Rate**

Yield or index rate for 20-year, tax-exempt general obligation municipal bonds with an average rating of AA/Aa or higher.

#### **Net OPEB Liability**

Total OPEB Liability minus the Plan's Fiduciary Net Position.

#### **Projected Benefit Payments**

All benefits estimated to be payable through the OPEB plan to current active and inactive employees as a result of their past service and expected future service.

#### **Service Cost**

The portion of the actuarial present value of projected benefit payments that is attributed to a valuation year.

#### **Total OPEB Liability**

The portion of actuarial present value of projected benefit payments that is attributable to past periods of member service using the Entry Age Normal cost method based on the requirements of GASB 74 and 75.