

STATE OF WISCONSIN POSTRETIREMENT LIFE INSURANCE PLAN (STATE)

GASB 74 and 75 DISCLOSURE Fiscal Year Ending: December 31, 2023

Prepared by

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Milliman, Inc.

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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, 2023. The reporting date for determining plan assets and obligations is December 31, 2023. 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, 2023 and December 31, 2023 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, 2023 includes 49,005 active participants and 37,082 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: 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.

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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 and 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

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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

OPEB Plan description	Plan name, administrator, and classificationIdentification of board of trustees
	 Participating employers and nonemployer contributing entities as applicable
	 Plan eligibility and coverage, key benefit terms, and membership counts
	 Contribution requirements, bases, amounts, sources, and authority
Significant assumptions and inputs	 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
OPEB plan investments	 Investment policies, authority, and changes during period Asset allocations of five percent or more in non-U.S. government investments Money-weighted rates of return
OPEB liabilities	 Total OPEB Liability (TOL), Fiduciary Net Position (FNP), Net OPEB Liability (NOL), FNP as a percentage of TOL
Dates and roll forward details	 Valuation and measurement dates, and any update procedures used

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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023 State of Wisconsin Postretirement Life Insurance Plan (State)

Description of associated OPEB plans	 Plan name, administrator, and classification Plan eligibility and coverage, key benefit terms, and membership counts Contribution requirements, bases, amounts, sources, and authority Availability of stand-alone plan financial statements
Significant assumptions and inputs for associated OPEB plans	 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 Proportionate share of collective NOL or TOL as applicable, including sensitivity to discount rate and health trend rate
Asset information and FNP for associated OPEB plans	 Either: included, or 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 disclosure that there are no assets in trust
OPEB liabilities and changes in NOL/TOL for associated OPEB plans (as applicable)	 Beginning and ending balances of TOL, FNP, and NOL OPEB expense and expenditures Disclosure of special funding situations
Dates and roll forward details	 Valuation and measurement dates, and any update procedures used
Other items	 Changes in assumptions and benefit terms Determination basis of proportionate share and changes in the employer's or nonemployer contributing entities' portion Significant events affecting NOL or TOL OPEB expense recognized for the period Balances of deferred outflows and inflows of resources related to OPEB, including a five-year schedule of net amounts to be recognized Insurance purchases and support by nonemployer contributing entities, if any Experience studies

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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023 State of Wisconsin Postretirement Life Insurance Plan (State)

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, 2023 for the State of Wisconsin Retiree Life Insurance Programs for State 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 state employees discussed in this report consists of the following components:

- <u>Actives</u>: The liability for actives represents the expected present value of future death benefits payable to active members based upon expected future retirements. There were 49,005 active members as of 1/1/2023.
- <u>Disabled Participants</u>: The liability for disabled participants represents the expected present value of future death benefits payable to disabled participants. There were 994 disabled members as of 1/1/2023.
- <u>Pre-65 Annuitants</u>: The liability for pre-65 annuitants represents the expected present value of future death benefits payable less the present value of expected future employee premiums payable before age 65 to pre-65 annuitants who retired on or before 1/1/2023. There were 6,344 pre-65 annuitants reported as of 1/1/2023.
- <u>Post-64 Retirees</u>: The liability for post-64 retirees represents the expected present value of future death benefits payable to post-64 retirees as of 1/1/2023. There were 29,744 post-64 retirees reported as of 1/1/2023.

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Summary of Results

This report presents the results of the actuarial valuation in accordance with GASB 74 as of December 31, 2023 for the State of Wisconsin Retiree Life Insurance Programs for State 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 12/31/2022 to 12/31/2023 GASB 74 results.

(\$ in millions)		
Valuation Date	01/01/2022	01/01/2023
Measurement Date	12/31/2022	12/31/2023
Funded Status		
Total OPEB Liability (TOL)	\$963	\$1,085
Fiduciary Net Position (FNP)	<u>(303)</u>	<u>(288)</u>
Net OPEB Liability (NOL) ⁽¹⁾	\$660	\$797
FNP as a % of TOL	31%	27%
OPEB Expense	\$59	\$61
Discount Rate	3.75%	3.30%

⁽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 increased from \$660 million as of December 31, 2022 to \$797 million as of December 31, 2023 for the state 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. Municipal Bond Rate

At implementation of GASB 74, the State of Wisconsin chose the Bond Buyer GO 20-Bond Municipal Bond Index. The bond index decreased from 3.72% at December 31, 2022 to 3.26% at December 31, 2023. The impact due to the change in the municipal bond index was an increase in the net OPEB liability of approximately \$86.6 million for the state 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, 2023, the fiduciary net position is projected to be insufficient by December 31, 2034 for the state 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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023 State of Wisconsin Postretirement Life Insurance Plan (State)

of providing postretirement life insurance benefits to plan participants. The 2023 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 12/31/2023, the total value in the Active Premium Deposit Fund plus the Active Stabilization Reserve was \$79 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 sufficient that the plan's fiduciary net position is projected to be insufficient. The 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, 2023. After assets are expected to be depleted, projected benefit payments are discounted using the municipal bond index. The net result of the decrease in the municipal bond rate is a decrease in the single equivalent rate from 3.75% as of December 31, 2022 to 3.30% as of December 31, 2023, which caused an increase in the Net OPEB Liability of \$86.6 million.

The Net OPEB Liability is \$797 million resulting in a funded ratio of 26.5% for the state plan as of December 31, 2023.

Statement of Fiduciary Net Position

	December 31, 2023
Assets	
Receivables:	
Due From Other Benefit Programs	\$0
Miscellaneous Receivables	163,044
Total Receivables	163,044
Investments:	
Investment Contract	289,867,105
Total Investments	289,867,105
Capital Assets, Net	15,342
Total Assets	290,045,491
Liabilities	
Benefits Payable	1,722,885
Unearned Revenue	394,510
Due to Other Benefit Programs	33,690
Miscellaneous Payables	129,698
Total Liabilities	2,280,783
Net Position Restricted For Postemployment Benefits	
Other Than Pensions	\$287,764,708

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Statement of Changes in Fiduciary Net Position

	December 31, 2023
Additions	
Employer Contributions Total Contributions	\$1,948,212 1,948,212
Investment Income (loss): Other Investment Income	9,103,038
Net Investment Income	9,103,038
Service Reimbursement Income Miscellaneous Income	163,044 700
Total Additions	11,214,994
Deductions	
Other Benefit Expenses Carrier Administrative Expenses Administrative Expenses	25,633,704 913,625 149,011
Total Deductions	26,696,340
Transfer from Active Life Insurance Program	0
Net Increase/(Decrease) in Net Position	(15,481,346)
Net Position Restricted For Postemployment Benefits Other Than Pensions	
Beginning of Year (January 1, 2023) End of Year (December 31, 2023)	303,246,054 \$287,764,708

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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 Ending December 31	Net Money-Weighted Rate of Return
2014	N/A
2015	N/A
2016	N/A
2017	3.19%
2018	3.16%
2019	3.09%
2020	2.86%
2021	2.67%
2022	2.82%
2023	3.10%

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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, 2023 and the target asset allocation for the retiree life insurance program, the 50th percentile return over this time period is 4.82%.

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, 2023 is 4.82%.

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.

Although the expected rates are higher than the assumed Long-Term Expected Rate of Return, 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	40.00% 60.00%	2.32% 2.52%
Inflation	-		2.30%
Long-Term Expected Rate of	4.25%		

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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 3.26% as of December 31, 2023, 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, 2023 discount rate are shown on pages 13 through 15.

Projection	of	Fiduciary	Net	Position
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Voor	Projected Beginning Fiduciary	Projected Employer	Projected Benefit	Projected Administrative	Projected Investment	Projected Ending Fiduciary
Year	Net Position	Contributions	Payments	Expenses	Earnings	Net Positio
2024	\$287,764,708	\$2,159,817	\$27,417,117	\$890,000	\$11,674,370	\$273,291,77
2025	273,291,778	2,117,370	28,824,090	910,470	11,028,035	256,702,62
2026	256,702,623	2,074,082	30,275,339	931,411	10,290,792	237,860,74
2027	237,860,747	2,027,498	31,796,182	952,833	9,456,250	216,595,48
2028	216,595,480	1,977,698	33,398,731	974,748	8,516,898	192,716,59
2029	192,716,597	1,831,403	35,220,428	997,168	7,459,749	165,790,15
2030	165,790,153	1,690,765	37,115,564	1,020,102	6,271,627	135,616,87
2031	135,616,878	1,557,061	39,067,608	1,043,565	4,944,442	102,007,20
2032	102,007,209	1,430,235	41,077,104	1,067,567	3,470,125	64,762,89
2033	64,762,898	1,311,357	43,138,811	1,092,121	1,840,382	23,683,7
2034	23,683,705	1,199,948	45,222,744	1,117,240	47,332	(21,408,9

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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 3.26%**	Present Value of Total Benefit Payments at 3.30%***
Year 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2051 2052 2058 2059 2060 2051 2052 2058 2059 2060 2051 2052 2058 2059 2060 2051 2052 2058 2059 2060 2051 2052 2058 2059 2060 2051 2058 2056 2057 2058 2056 2057 2058 2056 2057 2058 2056 2057 2058 2056 2057 2058 2056 2057 2058 2056 2057 2058 2056 2057 2058 2056 2057 2058 2050 2061 2062 2061 2062 2061 2062 2061 2062 2061 2062 2061 2062 2061 2062 2061 2062 2061 2062 2061 2062 2067 2068 2067 2068 2077 2072 2073							
2074 2075 2076	0 0 0	61,385,956 59,638,002 57,700,790	0 0 0	61,385,956 59,638,002 57,700,790	0 0 0	12,147,780 11,429,280 10,708,914	11,912,867 11,203,928 10,493,707

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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 3.26%**	Present Value of Total Benefit Payments at 3.30%***
2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2099 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118	\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$55,570,858 53,248,586 50,743,332 48,068,992 45,245,064 42,295,490 39,248,266 36,137,052 32,996,546 29,861,520 26,769,310 23,752,407 20,847,041 18,084,672 15,491,570 13,092,071 10,903,434 8,939,931 7,208,987 5,710,902 4,440,385 3,384,999 2,526,897 1,845,063 1,316,127 915,947 621,050 409,693 262,576 163,270 98,358 57,327 32,293 17,562 9,214 4,663 2,280 1,079 497 41	\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$55,570,858 53,248,586 50,743,332 48,068,992 45,245,064 42,295,490 39,248,266 36,137,052 32,996,546 29,861,520 26,769,310 23,752,407 20,847,041 18,084,672 15,491,570 13,092,071 10,903,434 8,939,931 7,208,987 5,710,902 4,440,385 3,384,999 2,526,897 1,845,063 1,316,127 915,947 621,050 409,693 262,576 163,270 98,358 57,327 32,293 17,562 9,214 4,663 2,280 1,079 495 421 97 41	\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	at $3.26\%^{**}$ \$9,988,003 9,268,458 8,553,548 7,846,938 7,152,770 6,475,376 5,819,147 5,188,710 4,588,208 4,021,188 3,490,981 2,999,755 2,549,708 2,142,025 1,776,959 1,454,314 1,172,954 931,364 727,323 557,989 420,155 310,181 224,240 158,564 109,536 73,824 48,476 30,969 19,221 11,575 6,753 3,811 2,079 1,095 556 273 129 59 26 11 5 2	$\begin{array}{c} \$9,783,499\\ 9,075,178\\ 8,371,938\\ 7,677,361\\ 6,995,489\\ 6,330,542\\ 5,686,791\\ 5,068,733\\ 4,480,383\\ 3,925,171\\ 3,406,307\\ 2,925,864\\ 2,485,941\\ 2,087,647\\ 1,731,178\\ 1,416,298\\ 1,141,851\\ 906,317\\ 707,490\\ 542,564\\ 408,382\\ 301,373\\ 217,788\\ 153,942\\ 106,303\\ 71,617\\ 47,008\\ 30,020\\ 18,625\\ 11,211\\ 6,538\\ 3,689\\ 2,012\\ 1,059\\ 538\\ 264\\ 125\\ 57\\ 25\\ 111\\ 5\\ 2\\ \end{array}$
2119 2120 2121 2122 Total	0 0 0 0	17 7 2 1	0 0 0 0	17 7 2 1	0 0 0 279,206,674	1 0 0 + 1,152,560,513 =	1 0 0 1,431,767,187

* Discounted at the long-term expected rate of return, 4.25%

** Discounted at the municipal bond rate, 3.26%

*** 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, 3.30%

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Net OPEB Liability

Net OPEB Liability	December 31, 2022	December 31, 2023
Total OPEB liability	\$962,995,891	\$1,084,835,599
Fiduciary net position	303,246,054	287,764,708
Net OPEB liability	659,749,837	797,070,891
Fiduciary net position as a % of total OPEB liability	31.49%	26.53%
Covered payroll	3,645,194,000	3,894,007,000
Net OPEB liability as a % of covered payroll	18.10%	20.47%

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	3.75%	3.30%
Long-term expected rate of return, net of investment expense	4.25%	4.25%
20 Year Tax-Exempt Municipal Bond Yield	3.72%	3.26%

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, 2022	January 1, 2023
Measurement date	December 31, 2022	December 31, 2023
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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023 State of Wisconsin Postretirement Life Insurance Plan (State)

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Changes	in	Net	OPEB	Liability
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	In	crease (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, 2022	\$962,995,891	\$303,246,054	\$659,749,837
Changes for the year:			
Service cost	29,479,209		29,479,209
Interest on total OPEB liability	36,741,607		36,741,607
Effect of plan changes	0		0
Effect of economic/demographic gains or losses	(5,312,197)		(5,312,197)
Effect of assumptions changes or inputs	86,564,793		86,564,793
Benefit payments	(25,633,704)	(25,633,704)	0
Employer contributions		1,948,212	(1,948,212)
Transfer from active life insurance program		0	0
Net investment income		9,266,782	(9,266,782)
Administrative expenses		(1,062,636)	1,062,636
Balances as of December 31, 2023	1,084,835,599	287,764,708	797,070,891

Sensitivity Analysis

The following presents the net OPEB liability, calculated using the discount rate of 3.30%, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower (2.30%) or 1 percentage point higher (4.30%) than the current rate.

		Current	
	1% Decrease	Discount Rate	1% Increase
	2.30%	3.30%	4.30%
Total OPEB liability	\$1,317,862,132	\$1,084,835,599	\$905,064,064
Fiduciary net position	287,764,708	287,764,708	287,764,708
Net OPEB liability	1,030,097,424	797,070,891	617,299,356

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

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

				Fisca	Year Endi	ng Decemb	er 31			
	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
Total OPEB Liability										
Service cost	\$29,479	\$48,990	\$46,315	\$36,280	\$25,430	\$30,668	\$26,146	N/A	N/A	N/A
Interest on total OPEB liability	36,742	28,023	27,422	29,966	33,225	31,194	30,731	N/A	N/A	N/A
Changes of benefit terms	0	0	0	0	0	0	0	N/A	N/A	N/A
Effect of economic/demographic (gains) or losses	(5,312)	(5,252)	3,203	(10,409)	(6,128)	(17,528)	(5,266)	N/A	N/A	N/A
Effect of assumption changes or inputs	86,565	(350,107)	13,429	138,486	223,009	(94,851)	49,008	N/A	N/A	N/A
Benefit payments	(25,634)	(26,021)	(23,746)	(24,729)	(19,857)	(19,538)	(17,670)	N/A	N/A	N/A
Net change in total OPEB liability	121,840	(304,366)	66,623	169,595	255,680	(70,054)	82,949	N/A	N/A	N/A
Total OPEB liability, beginning	962,996	1,267,362	1,200,738	1,031,144	775,464	845,519	762,570	N/A	N/A	N/A
Total OPEB liability, ending (a)	1,084,836	962,996	1,267,362	1,200,738	1,031,144	775,464	845,519	N/A	N/A	N/A
Fiduciary Net Position										
Employer contributions	\$1,948	\$1,777	\$1,670	\$1,535	\$1,149	\$1,387	\$1,376	N/A	N/A	N/A
Transfer from active life insurance program	0	0	0	0	13,140	0	0	N/A	N/A	N/A
Net Investment income	9,267	8,876	8,803	9,833	10,411	10,897	11,530	N/A	N/A	N/A
Benefit payments	(25,634)	(26,021)	(23,746)	(24,729)	(19,857)	(19,538)	(17,670)	N/A	N/A	N/A
Administrative expenses	(1,063)	(992)	(872)	(906)	(808)	(735)	(699)	N/A	N/A	N/A
Net change in plan fiduciary net position	(15,481)	(16,360)	(14,145)	(14,268)	4,036	(7,989)	(5,462)	N/A	N/A	N/A
Fiduciary net position, beginning	303,246	319,606	333,752	348,020	343,984	351,972	357,435	N/A	N/A	N/A
Fiduciary net position, ending (b)	287,765	303,246	319,606	333,752	348,020	343,984	351,972	N/A	N/A	N/A
Net OPEB liability, ending = (a) - (b)	\$797,071	\$659,750	\$947,755	\$866,987	\$683,124	\$431,481	\$493,547	N/A	N/A	N/A
Fiduciary net position as a % of total OPEB liability	26.53%	31.49%	25.22%	27.80%	33.75%	44.36%	41.63%	N/A	N/A	N/A
Covered payroll	\$3,894,007	\$3,645,194	\$3,529,342	\$3,456,544	\$3,299,478	\$3,182,513	\$3,183,994	N/A	N/A	N/A
Net OPEB liability as a % of covered payroll	20.47%	18.10%	26.85%	25.08%	20.70%	13.56%	15.50%	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:

* May not add due to rounding

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OPEB Expense and Deferred Inflows/Outflows of Resources

	January 1, 2022 to	January 1, 2023 to
OPEB Expense	December 31, 2022	December 31, 2023
Service cost	\$48,989,977	\$29,479,209
Interest on total OPEB liability	28,023,324	36,741,607
Effect of plan changes	0	0
Administrative expenses	991,963	1,062,636
Expected investment return net of investment expenses	(13,052,587)	(12,367,532)
Recognition of Deferred Inflows/Outflows of Resources		
Recognition of economic/demographic gains or losses	(6,100,731)	(6,928,176)
Recognition of assumption changes or inputs	(5,359,906)	8,123,707
Recognition of investment gains or losses	5,213,800	4,586,806
OPEB Expense	58,705,840	60,698,257

As of December 31, 2023, the deferred inflows and outflows of resources to be recognized in future OPEB expense are as follows:

	Defense d le flerer	
	Deferred Inflows	Deferred Outflows
Deferred Inflows / Outflows of Resources	of Resources	of Resources
Differences between expected and actual experience	(\$16,033,709)	\$1,751,617
Changes of assumptions	(253,374,417)	194,923,039
Net difference between projected and actual earnings	<u>0</u>	<u>7,836,636</u>
Total	(269,408,126)	204,511,292
Total net deferrals		(64,896,834)

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:	
2024	\$1,719,878
2025	5,893,480
2026	(23,731,398)
2027	(39,920,731)
2028	(14,173,651)
Thereafter*	5,315,588
Total net deferrals	(\$64,896,834)

* Note that additional future deferred inflows and outflows of resources may impact these numbers.

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023 State of Wisconsin Postretirement Life Insurance Plan (State)

					Amount	Balance of	Balance of
			Original	Remaining	Recognized	Deferred	Deferred
	Original	Date	-	-	in 12/31/2023	Inflows	Outflows
	Amount	Established	Period*	Period	Expense	12/31/2023	12/31/2023
Investment	\$3,100,750	12/31/2023	5.00	5.00	\$620,150	\$0	\$2,480,600
(gains) or losses	4,176,872	12/31/2022	5.00	4.00	835,374	0	2,506,124
	4,899,237	12/31/2021	5.00	3.00	979,847	0	1,959,696
	4,451,072	12/31/2020	5.00	2.00	890,214	0	890,216
	6,306,113	12/31/2019	5.00	1.00	<u>1,261,221</u>	<u>0</u> 0	<u>0</u>
		Total			4,586,806	0	7,836,636
Differences							
between expected	(5,312,197)	12/31/2023	6.42	6.42	(827,445)	(4,484,752)	0
and actual	(5,251,680)	12/31/2022	6.49	5.49	(809,196)	(3,633,288)	0
experience	3,203,233	12/31/2021	6.62	4.62	483,872	0	1,751,617
	(10,408,858)	12/31/2020	6.76	3.76	(1,539,772)	(4,249,770)	0
	(6,128,118)	12/31/2019	6.75	2.75	(907,869)	(1,588,773)	0
	(17,528,066)		6.80	1.80	(2,577,657)	(2,062,124)	0
	(5,265,765)	12/31/2017	7.02	1.02	<u>(750,109)</u>	<u>(15,002)</u>	<u>0</u>
		Total			(6,928,176)	(16,033,709)	1,751,617
Assumption	86,564,793	12/31/2023	6.42	6.42	13,483,613	0	73,081,180
changes or inputs	(350,106,543)	12/31/2022	6.49	5.49	(53,945,538)	(242,215,467)	0
	13,428,792	12/31/2021	6.62	4.62	2,028,518	0	7,343,238
	138,486,426	12/31/2020	6.76	3.76	20,486,158	0	56,541,794
	223,009,201	12/31/2019	6.75	2.75	33,038,400	0	57,817,201
	(94,851,066)	12/31/2018	6.80	1.80	(13,948,686)	(11,158,950)	0
	49,008,320	12/31/2017	7.02	1.02	<u>6,981,242</u>	<u>0</u>	<u>139,626</u>
		Total			8,123,707	(253,374,417)	194,923,039

Schedule of Deferred Inflows and Outflows of Resources

Subtotal of Deferred Inflows/Outflows

(269,408,126) 204,511,292

Total net deferrals

(64,896,834)

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* 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.

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023 State of Wisconsin Postretirement Life Insurance Plan (State)

OPEB Liability and Expense Summary

	Total OPEB Liability	Plan Fiduciary Net Position	Net OPEB Liability	Deferred Inflows	Deferred Outflows	Net Deferrals	Net OPEB Liability plus Net Deferrals	Annual Expense
Balances as of December 31, 2022	(\$962,995,891)	\$303,246,054	(\$659,749,837)	(\$339,402,201)	\$195,934,358	(\$143,467,843)	(\$803,217,680)	
Service cost Interest on total OPEB liability Effect of plan changes	(29,479,209) (36,741,607) 0		(29,479,209) (36,741,607) 0					29,479,209 36,741,607 0
Effect of liability gains or losses Effect of assumption changes or inputs Benefit payments	5,312,197 (86,564,793) 25,633,704	(25.633.704)	5,312,197 (86,564,793)	(5,312,197)	86,564,793	(5,312,197) 86,564,793		
Administrative expenses	25,633,704	(25,633,704) 0 (1,062,636)	0 0 (1,062,636)				0	1,062,636
Expected investment income (net of inv expenses) Investment gains or losses Employer contributions		12,367,532 (3,100,750) 1,948,212	12,367,532 (3,100,750) 1,948,212		3,100,750	3,100,750	1,948,212	(12,367,532)
Recognition of liability gains or losses Recognition of assumption changes or inputs Recognition of investment gains or losses				7,412,048 67,894,224	(483,872) (76,017,931) (4,586,806)	(8,123,707)		(6,928,176) 8,123,707 4,586,806
Annual expense							(60,698,257)	60,698,257
Balances as of December 31, 2023	(1,084,835,599)	287,764,708	(797,070,891)	(269,408,126)	204,511,292	(64,896,834)	(861,967,725)	

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023 State of Wisconsin Postretirement Life Insurance Plan (State) Page 21

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, 2023
Census Date:	January 1, 2023
Discount Rate:	3.30% (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	0.8	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

Expected Premium Rate Change:

5.00% annual increases to life insurance premiums effective April 1, 2020 for nine years. Current rates shown on page 30.

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023

State of Wisconsin Postretirement Life Insurance Plan (State)

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

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State of Wisconsin Postretirement Life Insurance Plan (State)

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:

				Gen	eral	Public S	Schools	Unive	ersity
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%	0.01%	0.01%	0.01%	0.00%	0.01%
25	0.02	0.03	0.00	0.01	0.01	0.01	0.01	0.00	0.01
30	0.02	0.03	0.00	0.01	0.04	0.01	0.01	0.00	0.01
35	0.03	0.03	0.01	0.01	0.05	0.01	0.01	0.00	0.03
40	0.05	0.05	0.01	0.03	0.07	0.01	0.02	0.01	0.04
45	0.07	0.10	0.01	0.06	0.10	0.03	0.05	0.02	0.04
50	0.11	0.55	0.02	0.13	0.16	0.08	0.10	0.03	0.07
55	1.73	0.41	0.09	0.24	0.29	0.14	0.14	0.08	0.11
60	2.92	0.12	0.11	0.43	0.41	0.24	0.21	0.11	0.17

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023

State of Wisconsin Postretirement Life Insurance Plan (State)

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	18.8%	4.5%	19.0%	17.2%	19.5%	12.6%	12.0%	14.0%	14.1%
1	15.5	4.0	16.0	12.9	15.5	11.6	10.0	13.8	14.0
2	10.5	2.0	13.0	9.5	12.5	8.5	8.5	12.6	12.7
3	6.5	1.8	12.5	7.4	10.0	6.0	6.2	11.0	10.0
4	5.5	1.7	12.0	7.3	8.7	5.6	5.8	8.6	9.3
5	5.0	1.3	6.0	6.1	7.8	4.5	4.8	8.5	8.1
6	4.5	1.2	6.0	5.2	6.9	3.7	4.1	7.0	7.0
7	4.0	0.9	6.0	5.1	6.0	2.9	3.5	5.6	5.6
8	3.5	0.8	6.0	4.5	5.6	2.6	3.4	4.6	4.9
9	3.3	0.7	6.0	3.6	5.5	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:

			_	Ger	neral	Public	Schools	Unive	ersity
Age	Protective with Social Security	Protective w/o Social Security	Executive & Elected	Male	Female	Male	Female	Male	Female
25	2.9%	0.7%	4.5%	3.1%	4.8%	2.0%	2.2%	4.2%	4.0%
30	2.9	0.7	4.5	3.1	4.8	2.0	2.2	4.2	4.0
35	2.4	0.6	4.5	2.7	3.9	1.6	1.9	4.0	4.0
40	1.8	0.6	4.5	2.6	3.0	1.4	1.6	3.4	3.7
45	1.4	0.5	4.2	2.4	2.7	1.4	1.4	2.8	3.2
50	1.2	0.5	3.7	1.9	2.1	1.3	1.2	2.3	2.7
54+	1.2	0.5	3.5	1.7	1.8	1.3	1.2	2.2	2.5

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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	eral	Public S	Schools	Unive	ersity
Age	Protective with Social Security	Protective w/o Social Security	Executive & Elected	Male	Female	Male	Female	Male	Female
50	8.0%	3.0%							
51	9.0	4.0							
52	11.0	5.0							
53	25.0	17.0							
54	20.0	24.0							
55	20.0	29.0							
56	20.0	32.0							
57	20.0	23.0	12.0%	19.0%	19.0%	31.0%	28.0%	12.0%	10.0%
58	20.0	27.0	12.0	19.0	19.0	29.0	28.0	16.0	20.0
59	20.0	40.0	12.0	19.0	19.0	28.0	26.0	9.0	12.0
60	20.0	25.0	12.0	19.0	21.0	27.0	29.0	15.0	14.0
61	20.0	25.0	12.0	19.0	25.0	26.0	27.0	9.0	13.0
62	25.0	31.0	18.0	28.0	29.0	39.0	36.0	10.0	15.0
63	25.0	40.0	18.0	30.0	28.0	33.0	31.0	11.0	19.0
64	36.0	40.0	18.0	25.0	31.0	30.0	30.0	16.0	17.0
65	38.0	40.0	18.0	27.0	31.0	32.0	39.0	16.0	21.0
66	38.0	100.0	18.0	35.0	36.0	35.0	44.0	21.0	25.0
67	38.0	100.0	18.0	32.0	33.0	31.0	31.0	18.0	25.0
68	38.0	100.0	18.0	21.0	25.0	28.0	30.0	19.0	18.0
69	38.0	100.0	18.0	21.0	27.0	20.0	30.0	14.0	17.0
70	100.0	100.0	18.0	21.0	29.0	30.0	32.0	21.0	22.0
71	100.0	100.0	15.0	21.0	34.0	25.0	25.0	24.0	17.0
72	100.0	100.0	15.0	21.0	33.0	25.0	25.0	24.0	17.0
73	100.0	100.0	15.0	30.0	24.0	25.0	25.0	24.0	21.0
74	100.0	100.0	15.0	30.0	18.0	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:

General, Public School, and University		Prote	ective	Executive	& Elected [#]
Age	Service	Age	Service	Age	Service
65	Any*	54	Any*	62	Any*
57	30	53	25	57	30

- * Participants first employed after 1989 and terminated before April 24, 1998 must have creditable service in five calendar years.
- # These conditions apply to those people hired on or before December 31, 2016. For others, the General eligibility conditions apply.

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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.

	_	Gen	eral	Public S	Schools	Univ	ersity
Age	Executive & Elected	Male	Female	Male	Female	Male	Female
55	6.0%	6.0%	6.0%	12.0%	11.0%	3.0%	5.0%
56	6.0	7.0	8.0	13.0	13.0	3.0	5.0
57	6.0	6.0	6.0	13.0	12.0	4.0	5.0
58	6.0	6.0	9.0	12.0	13.0	4.0	6.0
59	6.0	7.0	8.0	14.0	14.0	4.0	6.0
60	6.0	9.0	10.0	16.0	17.0	5.0	8.0
61	6.0	13.0	11.0	16.0	17.0	5.0	9.0
62	6.0	16.0	18.0	23.0	24.0	7.0	11.0
63	3.0	17.0	20.0	21.0	24.0	8.0	12.0
64	3.0	21.0	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
	<i>Administrative expense:</i> \$890,000. 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 3.75% to 3.30%. A decrease in the discount rate increases the liabilities.
	The administrative expense assumption was updated from \$820,000 to \$890,000 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 3.30%. 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.

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Expected Premium Rate Change:	At their August 21, 2019 meeting, the State of Wisconsin Group Insurance Board approved a premium rate increase of 5% during each of the next nine years effective April 1, 2020 for the Wisconsin State Plan. The new premium rates were first reflected in the December 31, 2019 GASB 74 valuation.
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:	may enroll after the in insurability. Members	ay enroll during a 30-day enrollment period. They itial 30-day enrollment period with evidence of under evidence of insurability enrollment must rance coverage before age 55 to be eligible for coverage.
Retirement Eligibility:	At retirement, the mem	ber must satisfy one of the following –
	WRS coverage pi	rior to January 1, 1990, <u>or</u>
	 at least one mont calendar years af 	th of group life insurance coverage in each of 5 ter 1989
	and one of the following	g —
	• eligible for an imm	nediate WRS benefit, <u>or</u>
		from their WRS creditable service as of 1/1/1990 f group life insurance coverage after 1989, <u>or</u>
	• at least 20 years	on the payroll of their last employer.
		g members and retirees must continue to pay ntil age 65 (age 70 if active).
Basic Coverage Benefits:		coverage is continued for life in these amounts e before retirement (one times WRS earnings):
	<u>Age</u> Before age 65	Percent of Basic Coverage Continuing 100%

While age 65

While age 66 and later

75

50

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Supplemental Coverage Benefits:

Additional Coverage:

Spouse & Dependent

Employee Premiums:

Coverage:

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).

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).

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

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

		1, 2022 – 31, 2023*		1, 2023 – 1 31, 2024*
Attained Age	Basic	Supplemental	Basic	Supplemental
Under 30	\$0.05	\$0.05	\$0.05	\$0.05
30-34	0.05	0.05	0.05	0.05
35-39	0.05	0.05	0.05	0.05
40-44	0.07	0.07	0.08	0.08
45-49	0.12	0.12	0.13	0.13
50-54	0.19	0.19	0.20	0.20
55-59	0.27	0.27	0.28	0.28
60-64	0.36	0.36	0.38	0.38
65-69	0.47	0.47	0.50	0.50

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

*Additional premium increase of 5% for nine years, effective April 1, 2020.

Employer Premiums:

The employer must pay these premiums while actively employed:

- 63% of the Employee Premiums for Basic coverage
 - 35% is paid to fund pre-retirement coverage
 - 28% is paid to fund retiree coverage
- 35% of the Employee Premiums 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.

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
A. Active Participants										
Count	49,005	49,293	50,777	50,469	49,813	50,060	49,125	N/A	N/A	N/A
Average Age	45.4	45.5	45.3	45.3	45.4	45.4	45.8	N/A	N/A	N/A
Average Service	10.0	10.2	10.1	10.1	10.2	10.1	10.7	N/A	N/A	N/A
Average Projected Salary	\$77,638	\$74,762	\$71,094	\$68,319	\$66,774	\$65,711	\$64,814	N/A	N/A	N/A
B. Disabled Participants										
Count	994	1,062	1,122	1,205	1,268	1,328	1,337	N/A	N/A	N/A
Average Age	57.1	57.1	57.6	57.5	57.3	57.3	57.0	N/A	N/A	N/A
Average Current Insurance	\$49,738	\$48,334	\$47,448	\$46,461	\$45,705	\$45,325	\$44,847	N/A	N/A	N/A
C. Pre-65 Annuitants										
Count	6,344	6,360	6,389	6,600	6,859	7,032	7,127	N/A	N/A	N/A
Average Age	60.6	60.6	61.2	61.2	61.3	61.2	61.3	N/A	N/A	N/A
Average Current Insurance	\$74,046	\$71,520	\$69,533	\$68,260	\$67,136	\$65,986	\$65,518	N/A	N/A	N/A
D. Post-64 Annuitants										
Count	29,744	28,966	28,136	27,091	26,049	24,972	23,760	N/A	N/A	N/A
Average Age	74.5	74.3	74.7	74.5	74.4	74.3	74.3	N/A	N/A	N/A
Average Current Insurance	\$31,039	\$30,534	\$30,027	\$29,558	\$28,982	\$28,445	\$28,843	N/A	N/A	N/A

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				Active	e Members a	is of January	1, 2023				
Years of Service											
<u>Age</u>	<u><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	524	398	8	-	-	-	-	-	-	-	930
25-29	818	2,100	566	3	-	-	-	-	-	-	3,487
30-34	827	2,498	2,109	215	6	-	-	-	-	-	5,655
35-39	717	2,249	2,404	1,094	358	8	-	-	-	-	6,830
40-44	567	1,960	2,102	1,109	1,051	434	6	-	-	-	7,229
45-49	437	1,387	1,485	949	1,026	1,173	239	1	-	-	6,697
50-54	325	1,215	1,384	841	1,005	1,265	797	130	1	-	6,963
55-59	238	925	1,092	698	754	1,026	663	387	42	1	5,826
60-64	139	554	826	544	497	675	406	316	107	32	4,096
65-69	17	139	246	166	162	186	133	127	66	49	1,291
70+	-	-	-	-	1	-	-	-	-	-	1
ALL	4,609	13,425	12,222	5,619	4,860	4,767	2,244	961	216	82	49,005

Summary of Demographic Information

Average Projected Salary											
	Years of Service										
<u>Age</u>	<u><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	49,994	52,734	*	-	-	-	-	-	-	-	51,259
25-29	56,796	57,714	66,848	*	-	-	-	-	-	-	58,987
30-34	62,418	65,462	69,647	73,867	*	-	-	-	-	-	66,898
35-39	66,990	73,011	76,124	79,052	76,467	*	-	-	-	-	74,626
40-44	68,333	74,397	81,707	85,059	81,964	78,679	*	-	-	-	79,039
45-49	70,812	75,407	82,605	89,615	92,972	82,409	80,699	*	-	-	82,824
50-54	68,868	72,164	80,031	88,234	94,173	91,560	85,978	80,046	*	-	83,940
55-59	68,136	72,495	77,309	83,196	92,284	96,849	94,144	88,475	70,762	*	84,863
60-64	66,615	70,248	73,949	79,073	84,168	92,342	93,081	102,760	87,189	77,493	82,644
65-69	*	78,546	74,279	84,059	91,662	97,859	108,974	117,617	130,793	94,206	92,787
70+	-	-	-	-	*	-	-	-	-	-	*
ALL	63,087	68,893	76,679	83,854	88,530	89,604	90,443	95,878	97,144	87,327	77,638

* Compensation shown for groups of 20 or more.

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2023

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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. 					
	 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.					

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