STATE OF WISCONSIN POSTRETIREMENT LIFE INSURANCE PLAN (STATE)

GASB 74 and 75 DISCLOSURE Fiscal Year Ending: December 31, 2024

Prepared by

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GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2024 State of Wisconsin Postretirement Life Insurance Plan (State)

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, 2024. The reporting date for determining plan assets and obligations is December 31, 2024. 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, 2024 and December 31, 2024 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, 2024 includes 50,006 active participants and 37,480 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.

Certification

The valuation results were developed using models intended for valuations that use standard actuarial techniques. 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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2024 State of Wisconsin Postretirement Life Insurance Plan (State)

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	 Plan name, administrator, and classification Identification 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

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

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

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, 2024 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:

- 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 50,006 active members as of
 1/1/2024.
- <u>Disabled Participants</u>: The liability for disabled participants represents the expected present value of future death benefits payable to disabled participants. There were 927 disabled members as of 1/1/2024.
- <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 1/1/2024. There were 6,077 pre-65 annuitants reported as of 1/1/2024.
- 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 1/1/2024. There were 30,476 post-64 retirees reported as of 1/1/2024.

Summary of Results

This report presents the results of the actuarial valuation in accordance with GASB 74 as of December 31, 2024 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 12/31/2023 to 12/31/2024 GASB 74 results.

(\$ in millions)		
Valuation Date	01/01/2023	01/01/2024
Measurement Date	12/31/2023	12/31/2024
Funded Status		
Total OPEB Liability (TOL)	\$1,085	\$982
Fiduciary Net Position (FNP)	<u>(288)</u>	<u>(273)</u>
Net OPEB Liability (NOL)(1)	\$797	\$709
FNP as a % of TOL	27%	28%
OPEB Expense	\$61	\$40
Discount Rate	3.30%	4.09%

(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 \$797 million as of December 31, 2023 to \$709 million as of December 31, 2024 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. <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 3.26% at December 31, 2023 to 4.08% at December 31, 2024. The impact due to the change in the municipal bond index was a decrease in the net OPEB liability of approximately \$152 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, 2024, 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 of providing postretirement life insurance benefits to plan participants. The 2024 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 12/31/2024, the total value in the Active Premium Deposit Fund plus the Active Stabilization Reserve was \$95 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. 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, 2024. 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 3.30% as of December 31, 2023 to 4.09% as of December 31, 2024, which caused a decrease in the Net OPEB Liability of \$152 million.

The Net OPEB Liability is \$709 million resulting in a funded ratio of 27.8% for the state plan as of December 31, 2024.

Statement of Fiduciary Net Position

	December 31, 2024
Assets	
Receivables:	
Due From Other Benefit Programs	\$0
Miscellaneous Receivables	208,654
Total Receivables	208,654
Investments:	
Investment Contract	275,164,096
Total Investments	275,164,096
Capital Assets, Net	50,890
Total Assets	275,423,640
Liabilities	
Benefits Payable	2,105,242
Unearned Revenue	444,576
Due to Other Benefit Programs	37,345
Miscellaneous Payables	171,880
Total Liabilities	2,759,043
Net Position Restricted For Postemployment Benefits	
Other Than Pensions	\$272,664,597

Statement of Changes in Fiduciary Net Position

	December 31, 2024
Additions	
Employer Contributions	\$2,209,405
Total Contributions	2,209,405
Investment Income (loss):	
Other Investment Income	9,039,160
Net Investment Income	9,039,160
Service Reimbursement Income	208,654
Miscellaneous Income	0
Total Additions	11,457,219
Deductions	
Other Benefit Expenses	25,434,250
Carrier Administrative Expenses	949,747
Administrative Expenses	173,333
Total Deductions	26,557,330
Transfer from Active Life Insurance Program	0
Net Increase/(Decrease) in Net Position	(15,100,111)
Net Position Restricted For Postemployment Benefits Other Than Pensions	
Beginning of Year (January 1, 2024)	287,764,708
End of Year (December 31, 2024)	\$272,664,597

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
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%
2024	3.25%

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, 2024 and the target asset allocation for the retiree life insurance program, the 50th percentile return over this time period is 4.95%.

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, 2024 is 4.78%.

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	Bloomberg US Interm Credit	40.00%	2.41%
US Mortgages	Bloomberg US MBS	60.00%	2.71%
Inflation			2.30%
Long-Term Expected Rate of	4.25%		

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 4.08% as of December 31, 2024, 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, 2024 discount rate are shown on pages 13 through 15.

Projection of Fiduciary Net Position

Year	Projected Beginning Fiduciary Net Position	Projected Employer Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings	Projected Ending Fiduciary Net Position
i eai	Net Position	Continuutions	Payments	Expenses	Lamings	Net Position
2025	\$272,664,597	\$2,363,345	\$28,829,386	\$930,000	\$11,006,080	\$256,274,636
2026	256,274,636	2,317,973	30,283,445	951,390	10,277,189	237,634,963
2027	237,634,963	2,270,715	31,804,262	973,272	9,451,216	216,579,360
2028	216,579,360	2,221,189	33,399,322	995,657	8,520,930	192,926,500
2029	192,926,500	2,066,251	35,215,741	1,018,557	7,473,305	166,231,757
2030	166,231,757	1.914.649	37,123,162	1,041,984	6,294,527	136,275,787
2031	136,275,787	1,767,130	39,085,897	1,065,950	4,976,046	102,867,117
2032	102,867,117	1,627,534	41,114,943	1,090,467	3,509,573	65,798,814
2033	65,798,814	1,496,226	43,184,557	1,115,547	1,886,867	24,881,802
2034	24,881,802	1,372,598	45,301,660	1,141,205	99,733	(20,088,731)

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 4.08%**	Present Value of Total Benefit Payments at 4.09%***
2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2040 2041 2042 2043 2044 2045 2046 2047 2048 2050 2051 2052 2053 2054 2055 2056 2057 2058 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073	\$272,664,597 256,274,636 237,634,963 216,579,360 192,926,500 166,231,757 136,275,787 102,867,117 65,798,814 24,881,802 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$28,829,386 30,283,445 31,804,262 33,399,322 35,215,741 37,123,162 39,085,897 41,114,943 43,184,557 45,301,660 47,447,368 49,572,444 51,593,029 53,561,789 55,478,587 57,336,495 59,079,361 60,765,269 62,307,340 63,775,341 65,107,014 66,326,121 67,480,389 68,519,387 69,489,521 70,390,081 71,261,604 72,081,239 72,852,514 73,582,035 74,265,256 74,920,868 75,537,358 76,067,167 76,524,060 76,897,187 77,154,650 77,322,397 77,358,252 77,265,585 77,047,044 76,695,904 76,209,875 75,613,940 74,904,130 74,973,304 73,106,093 71,991,455 70,704,880	\$28,829,386 30,283,445 31,804,262 33,399,322 35,215,741 37,123,162 39,085,897 41,114,943 43,184,557 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 0 0 0 0 0 0 0 0 45,301,660 47,447,368 49,572,444 51,593,029 53,561,789 55,478,587 57,336,495 59,079,361 60,765,269 62,307,340 63,775,341 65,107,014 66,326,121 67,480,389 68,519,387 69,489,521 70,390,081 71,261,604 72,081,239 72,852,514 73,582,035 74,265,256 74,920,868 75,537,358 76,067,167 76,524,060 76,897,187 77,154,650 77,322,397 77,358,252 77,265,585 77,047,044 76,695,904 76,209,875 75,613,940 74,9073,304 73,106,093 71,991,455 70,704,880	\$28,235,622 28,450,584 28,661,252 28,871,638 29,200,786 29,527,495 29,821,238 30,090,487 30,316,700 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0 0 0 0 0 0 0 0 0 30,983,104 31,178,531 31,297,999 31,296,803 31,217,401 31,067,033 30,848,798 30,540,463 30,180,606 29,733,393 29,240,902 28,681,276 28,072,947 27,441,870 26,772,092 26,086,804 25,389,008 24,695,770 24,000,592 23,306,495 22,617,101 21,932,267 21,258,537 20,593,259 19,924,767 19,258,689 18,593,960 17,924,880 17,259,658 16,590,758 15,921,295 15,253,904 14,589,147 13,928,415 13,277,767 12,637,514 12,007,437 11,386,097 10,772,958 10,165,673	\$28,257,726 28,517,453 28,773,613 29,030,223 29,407,166 29,782,760 30,126,154 30,445,768 30,722,698 30,963,399 31,156,615 31,273,905 31,270,616 31,189,192 31,036,881 30,816,794 30,506,735 30,145,258 29,696,579 29,202,742 28,641,928 28,032,557 27,400,553 26,729,993 26,044,038 25,345,689 24,651,984 23,956,433 23,262,055 22,572,464 21,887,517 21,213,740 20,548,488 19,880,118 19,214,246 18,549,808 17,881,120 17,216,368 16,548,038 15,879,236 15,212,589 14,548,658 13,888,830 13,239,144 12,599,910 11,970,906 11,350,696 10,738,745 10,132,709
2074 2075 2076 2077	0 0 0 0	69,232,096 67,553,456 65,658,178 63,539,796	0 0 0	69,232,096 67,553,456 65,658,178 63,539,796	0 0 0 0	9,563,722 8,966,021 8,372,858 7,785,086	9,532,072 8,935,751 8,344,031 7,757,764

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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 4.08%**	Present Value of Total Benefit Payments at 4.09%***
2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2100 2101 2102 2103 2104 2105 2106 2107 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 Total	\$00000000000000000000000000000000000000	\$61,196,690 58,636,366 55,871,630 52,922,475 49,811,615 46,567,266 43,225,326 39,819,487 36,387,644 32,968,113 29,594,174 26,305,438 20,118,283 17,280,954 14,648,177 12,240,454 10,073,048 8,154,552 6,486,879 5,066,251 3,880,191 2,911,020 2,136,503 1,532,258 1,072,377 731,391 485,441 313,114 196,006 118,921 69,846 39,664 21,756 11,519 5,888 2,910 1,392 645 291 128 555 23 9	\$00000000000000000000000000000000000000	\$61,196,690 58,636,366 55,871,630 52,922,475 49,811,615 46,567,266 43,225,326 39,819,487 36,387,644 32,968,113 29,594,174 26,305,438 23,136,848 20,118,283 17,280,954 14,648,177 12,240,454 10,073,048 8,154,552 6,486,879 5,066,251 3,880,191 2,911,020 2,136,503 1,532,258 1,072,377 731,391 485,441 313,114 196,006 118,921 69,846 39,664 21,756 11,519 5,888 2,910 1,392 645 291 128 555 23 9 3 1	\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$7,204,076 6,632,085 6,071,655 5,525,717 4,997,028 4,488,432 4,002,994 3,543,031 3,110,756 2,707,939 2,335,521 1,994,600 1,685,571 1,408,207 1,162,187 946,509 759,926 600,852 467,347 357,197 268,035 197,238 142,172 100,255 69,082 46,453 30,440 19,412 12,030 7,235 4,218 2,380 1,299 684 348 171 81 37 7 3 37 17 7 3 37 17 7 3 37 17 7 3 11 00 00 0	\$7,178,311 6,607,924 6,049,131 5,504,849 4,977,824 4,470,883 3,987,075 3,528,706 3,097,971 2,696,629 2,325,610 1,986,003 1,678,194 1,401,950 1,156,946 942,177 756,397 598,022 465,114 355,467 266,719 196,256 141,455 99,743 68,725 46,210 30,279 19,308 11,965 7,196 4,194 2,367 1,291 680 346 170 81 37 37 37 37 47 31 47 47 31 47 47 47 47 47 47 47 47 47 47 47 47 47
ioiai				4.0=0/	203,173,002	T 990,010,080	- 1,230,092,008

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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2024 State of Wisconsin Postretirement Life Insurance Plan (State)

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^{**} Discounted at the municipal bond rate, 4.08%

^{***} 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, 4.09%

Net OPEB Liability

Fiscal Year Ending	December 31, 2023	December 31, 2024
Total OPEB liability	\$1,084,835,599	\$981,833,709
Fiduciary net position	287,764,708	272,664,597
Net OPEB liability	797,070,891	709,169,112
Fiduciary net position as a % of total OPEB liability	26.53%	27.77%
Covered payroll	3,894,007,000	4,362,471,000
Net OPEB liability as a % of covered payroll	20.47%	16.26%

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	3.30%	4.09%
Long-term expected rate of return, net of investment expense	4.25%	4.25%
20 Year Tax-Exempt Municipal Bond Yield	3.26%	4.08%

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, 2023	January 1, 2024
Measurement date	December 31, 2023	December 31, 2024
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)				
	Total OPEB Liability (a)	Plan Fiduciary Net Position (b)	Net OPEB Liability (a) - (b)		
Balances as of December 31, 2023	\$1,084,835,599	\$287,764,708	\$797,070,891		
Changes for the year:					
Service cost	35,248,242		35,248,242		
Interest on total OPEB liability	36,546,508		36,546,508		
Effect of plan changes	0		0		
Effect of economic/demographic gains or losses	(326,600)		(326,600)		
Effect of assumptions changes or inputs	(149,035,790)		(149,035,790)		
Benefit payments	(25,434,250)	(25,434,250)	0		
Employer contributions		2,209,405	(2,209,405)		
Transfer from active life insurance program		0	0		
Net investment income		9,247,814	(9,247,814)		
Administrative expenses		(1,123,080)	1,123,080		
Balances as of December 31, 2024	981,833,709	272,664,597	709,169,112		

Sensitivity Analysis

The following presents the net OPEB liability, calculated using the discount rate of 4.09%, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower (3.09%) or 1 percentage point higher (5.09%) than the current rate.

	1% Decrease 3.09%	Current Discount Rate 4.09%	1% Increase 5.09%
Total OPEB liability Fiduciary net position	\$1,179,900,498 272,664,597	\$981,833,709 272,664,597	\$827,811,048 272,664,597
Net OPEB liability	907,235,901	709,169,112	555,146,451

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	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015
Total OPEB Liability										
Service cost	\$35,248	\$29,479	\$48,990	\$46,315	\$36,280	\$25,430	\$30,668	\$26,146	N/A	N/A
Interest on total OPEB liability	36,547	36,742	28,023	27,422	29,966	33,225	31,194	30,731	N/A	N/A
Changes of benefit terms	0	0	0	0	0	0	0	0	N/A	N/A
Effect of economic/demographic (gains) or losses	(327)	(5,312)	(5,252)	3,203	(10,409)	(6,128)	(17,528)	(5,266)	N/A	N/A
Effect of assumption changes or inputs	(149,036)	86,565	(350,107)	13,429	138,486	223,009	(94,851)	49,008	N/A	N/A
Benefit payments	(25,434)	(25,634)	(26,021)	(23,746)	(24,729)	(19,857)	(19,538)	(17,670)	N/A	N/A
Net change in total OPEB liability	(103,002)	121,840	(304,366)	66,623	169,595	255,680	(70,054)	82,949	N/A	N/A
Total OPEB liability, beginning	1,084,836	962,996	1,267,362	1,200,738	1,031,144	775,464	845,519	762,570	N/A	N/A
Total OPEB liability, ending (a)	981,834	1,084,836	962,996	1,267,362	1,200,738	1,031,144	775,464	845,519	N/A	N/A
Fiduciary Net Position										
Employer contributions	\$2,209	\$1,948	\$1,777	\$1,670	\$1,535	\$1,149	\$1,387	\$1,376	N/A	N/A
Transfer from active life insurance program	0	0	0	0	0	13,140	0	\$0	N/A	N/A
Net Investment income	9,248	9,267	8,876	8,803	9,833	10,411	10,897	\$11,530	N/A	N/A
Benefit payments	(25,434)	(25,634)	(26,021)	(23,746)	(24,729)	(19,857)	(19,538)	(\$17,670)	N/A	N/A
Administrative expenses	(1,123)	(1,063)	(992)	(872)	(906)	(808)	(735)	(\$699)	N/A	N/A
Net change in plan fiduciary net position	(15,100)	(15,481)	(16,360)	(14,145)	(14,268)	4,036	(7,989)	(5,462)	N/A	N/A
Fiduciary net position, beginning	287,765	303,246	319,606	333,752	348,020	343,984	351,972	357,435	N/A	N/A
Fiduciary net position, ending (b)	272,665	287,765	303,246	319,606	333,752	348,020	343,984	351,972	N/A	N/A
Net OPEB liability, ending = (a) - (b)	\$709,169	\$797,071	\$659,750	\$947,755	\$866,987	\$683,124	\$431,481	\$493,547	N/A	N/A
Fiduciary net position as a % of total OPEB liability	27.77%	26.53%	31.49%	25.22%	27.80%	33.75%	44.36%	41.63%	N/A	N/A
Covered payroll	\$4,362,471	\$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
Net OPEB liability as a % of covered payroll	16.26%	20.47%	18.10%	26.85%	25.08%	20.70%	13.56%	15.50%	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, 2023 to	January 1, 2024 to
Fiscal Y ear	December 31, 2023	December 31, 2024
Service cost	\$29,479,209	\$35,248,242
Interest on total OPEB liability	36,741,607	36,546,508
Effect of plan changes	0	0
Administrative expenses	1,062,636	1,123,080
Expected investment return net of investment expenses	(12,367,532)	(11,717,990)
Recognition of Deferred Inflows/Outflows of Resources		
Recognition of economic/demographic gains or losses	(6,928,176)	(5,728,250)
Recognition of assumption changes or inputs	8,123,707	(19,070,376)
Recognition of investment gains or losses	4,586,806	3,819,622
OPEB Expense	60,698,257	40,220,836

As of December 31, 2024, 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	(\$10,148,187)	\$1,267,745
Changes of assumptions	(314,163,516)	125,746,724
Net difference between projected and actual earnings	<u>0</u>	<u>6,487,190</u>
Total	(324,311,703)	133,501,659
Total net deferrals		(190,810,044)

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:	
2025	(\$16,805,402)
2026	(46,430,280)
2027	(62,619,613)
2028	(36,872,532)
2029	(17,877,329)
Thereafter*	(10,204,888)
Total net deferrals	(\$190,810,044)

^{*} 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 I Established	Original Recognition Period*	Remaining Recognition Period	Amount Recognized in 12/31/2024 Expense	Balance of Deferred Inflows 12/31/2024	Balance of Deferred Outflows 12/31/2024
Investment	\$2,470,176	12/31/2024	5.00	5.00	\$494,035	\$0	\$1,976,141
(gains) or losses	3,100,750	12/31/2023	5.00	4.00	620,150	0	1,860,450
	4,176,872	12/31/2022	5.00	3.00	835,374	0	1,670,750
	4,899,237	12/31/2021	5.00	2.00	979,847	0	979,849
	4,451,072	12/31/2020	5.00	1.00	<u>890,216</u>	<u>0</u> 0	<u>0</u>
		Total			3,819,622	0	6,487,190
Differences							
between expected	(326,600)	12/31/2024	6.44	6.44	(50,714)	(275,886)	0
and actual	(5,312,197)	12/31/2023	6.42	5.42	(827,445)	(3,657,307)	0
experience	(5,251,680)	12/31/2022	6.49	4.49	(809,196)	(2,824,092)	0
	3,203,233	12/31/2021	6.62	3.62	483,872	0	1,267,745
	(10,408,858)	12/31/2020	6.76	2.76	(1,539,772)	(2,709,998)	0
	(6,128,118)	12/31/2019	6.75	1.75	(907,869)	(680,904)	0
	(17,528,066)	12/31/2018	6.80	0.80	(2,062,124)	0	0
	(5,265,765)	12/31/2017	7.02	0.02	<u>(15,002)</u>	<u>0</u>	<u>0</u>
		Total			(5,728,250)	(10,148,187)	1,267,745
Assumption	(149,035,790)	12/31/2024	6.44	6.44	(23 142 203)	(125,893,587)	0
changes or inputs	86,564,793	12/31/2023	6.42	5.42	13,483,613	0	59,597,567
onungeo or mputo	(350,106,543)	12/31/2022	6.49	4.49	, ,	(188,269,929)	0
	13,428,792	12/31/2021	6.62	3.62	2,028,518	0	5,314,720
	138,486,426	12/31/2020	6.76	2.76	20,486,158	0	36,055,636
	223,009,201	12/31/2019	6.75	1.75	33,038,400	0	24,778,801
	(94,851,066)	12/31/2018	6.80	0.80	(11,158,950)	0	0
	49,008,320	12/31/2017	7.02	0.02	139,626	<u>0</u>	<u>0</u>
		Total			$(19, \overline{070, 376})$	$(314,163,51\overline{6})$	125,746,724

Subtotal of Deferred Inflows/Outflows

(324,311,703) 133,501,659

Total net deferrals (190,810,044)

^{*} 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.

Milliman Financial Reporting Valuation

OPEB Liability and Expense Summary

	Total	Plan	Net				Net OPEB	
	OPEB	Fiduciary	OPEB	Deferred	Deferred	Net	Liability plus	Annual
	Liability	Net Position	Liability	Inflows	Outflows	Deferrals	Net Deferrals	Expense
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)	
Service cost	(35,248,242)		(35,248,242)					35,248,242
Interest on total OPEB liability	(36,546,508)		(36,546,508)					36,546,508
Effect of plan changes	0		0					0
Effect of liability gains or losses	326,600		326,600	(326,600)		(326,600)		
Effect of assumption changes or inputs	149,035,790		149,035,790	(149,035,790)		(149,035,790)		
Benefit payments	25,434,250	(25,434,250)	0					
Transfer from active life insurance program		0	0				0	
Administrative expenses		(1,123,080)	(1,123,080)					1,123,080
Expected investment income (net of inv expenses)		11,717,990	11,717,990					(11,717,990)
Investment gains or losses		(2,470,176)	(2,470,176)		2,470,176	2,470,176		
Employer contributions		2,209,405	2,209,405				2,209,405	
Recognition of liability gains or losses				6,212,122	(483,872)	5,728,250		(5,728,250)
Recognition of assumption changes or inputs				88,246,691	(69,176,315)	19,070,376		(19,070,376)
Recognition of investment gains or losses					(3,819,622)	(3,819,622)		3,819,622
Annual expense							(40,220,836)	40,220,836
Balances as of December 31, 2024	(981,833,709)	272,664,597	(709,169,112)	(324,311,703)	133,501,659	(190,810,044)	(899,979,156)	

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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 2021-2023 for the Wisconsin Retirement System. All assumptions are based on estimates of future experience.

Valuation Date: January 1, 2024

Census Date: January 1, 2024

Discount Rate: 4.09% (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 2021-2023 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	4.9%	5.5%	2.6%	3.6%	5.7%	3.1%
2	4.9	5.5	2.6	3.6	5.7	3.1
3	4.2	4.7	2.1	3.2	5.3	3.0
4	3.6	3.8	1.7	2.9	4.8	2.9
5	2.9	3.0	1.2	2.6	4.4	2.8
10	1.2	0.9	0.3	1.6	2.7	2.3
15	0.9	0.5	0.3	1.2	1.5	1.8
20	8.0	0.4	0.3	1.0	0.7	1.3
25	0.7	0.3	0.3	0.7	0.4	1.0
30	0.6	0.2	0.3	0.5	0.3	8.0

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.

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 2021-2023 for the Wisconsin Retirement System. Rates are based on the 2021-2023 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 2023 are as follows:

Age	Males	Females
20	0.0400%	0.0166%
25	0.0215	0.0130
30	0.0353	0.0227
35	0.0521	0.0330
40	0.0652	0.0433
45	0.0831	0.0546
50	0.1192	0.0777
55	0.1866	0.1232
60	0.3079	0.1948
65	0.4985	0.3006
70	0.7459	0.4950
75	1.0846	0.9409
80	2.1611	1.9401

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 2021-2023 for the Wisconsin Retirement System. Rates are based on the 2021-2023 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 2023 are as follows:

Age	Males	Females
40	0.0652%	0.0433%
45	0.0831	0.0546
50	0.1224	0.0862
55	0.2419	0.2222
60	0.4164	0.3473
65	0.6785	0.4964
70	1.1257	0.7859
75	2.0453	1.4926
80	3.9021	2.9941
85	7.5327	5.9093

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 2021-2023 for the Wisconsin Retirement System. Rates are based on the 2021-2023 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 2023 are as follows:

Age	Males	Females
45	1.2486%	1.1210%
55	2.2935	2.0053
65	3.4886	2.5111
75	5.2285	4.0895
85	11.2584	10.2376

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 2021-2023 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%	0.04%	0.00%	0.01%	0.01%	0.01%	0.01%	0.00%	0.01%
25	0.02	0.04	0.00	0.01	0.01	0.01	0.01	0.00	0.01
30	0.02	0.04	0.00	0.01	0.04	0.01	0.01	0.00	0.01
35	0.03	0.04	0.01	0.01	0.05	0.01	0.01	0.00	0.03
40	0.05	0.06	0.01	0.03	0.07	0.01	0.02	0.01	0.04
45	0.07	0.11	0.01	0.06	0.11	0.03	0.06	0.02	0.04
50	0.11	0.64	0.02	0.13	0.17	0.08	0.10	0.03	0.07
55	1.73	0.48	0.09	0.25	0.30	0.14	0.15	0.08	0.11
60	2.92	0.14	0.11	0.45	0.43	0.24	0.22	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 2021-2023 for the Wisconsin Retirement System. Sample rates are as follows:

				General		Public Schools		Unive	ersity
Service	Protective with Social Security	Protective w/o Social Security	Executive & Elected	Male	Female	Male	Female	Male	Female
0	21.0%	5.5%	19.0%	17.2%	19.5%	12.6%	12.0%	14.0%	14.1%
1	17.0	4.2	16.0	12.9	15.5	11.6	10.0	13.8	14.0
2	11.0	2.4	13.0	9.5	12.5	8.5	8.5	12.6	12.7
3	7.0	2.2	12.5	7.4	10.0	6.0	6.2	11.0	10.0
4	6.0	1.6	12.0	7.3	8.7	5.6	5.8	8.6	9.3
5	5.5	1.4	6.0	6.1	7.8	4.5	4.8	8.5	8.1
6	4.9	1.3	6.0	5.2	6.9	3.7	4.1	7.0	7.0
7	4.1	1.2	6.0	5.1	6.0	2.9	3.5	5.6	5.6
8	3.5	1.1	6.0	4.5	5.6	2.6	3.4	4.6	4.9
9	3.4	1.0	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 2021-2023 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	2.9%	0.7%	4.5%	3.4%	4.8%	2.0%	2.2%	3.9%	4.0%
30	2.9	0.7	4.5	3.4	4.8	2.0	2.2	3.9	4.0
35	2.4	0.6	4.5	3.3	3.9	1.6	1.9	3.5	4.0
40	1.8	0.6	4.5	3.0	3.0	1.4	1.6	3.1	3.7
45	1.4	0.5	4.2	2.5	2.7	1.4	1.4	2.6	3.2
50	1.2	0.5	3.7	2.0	2.1	1.3	1.2	2.2	2.7
54+	1.2	0.5	3.5	1.9	1.8	1.3	1.2	2.0	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 2021-2023 for the Wisconsin Retirement System. Sample rates are as follows:

				General		Public S	Schools	University	
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	20.0							
54	20.0	28.0							
55	20.0	30.0							
56	20.0	32.0							
57	20.0	26.0	12.0%	19.0%	19.0%	32.0%	28.0%	12.0%	10.0%
58	20.0	30.0	12.0	19.0	19.0	30.0	28.0	16.0	20.0
59	20.0	40.0	12.0	19.0	19.0	29.0	26.0	9.0	12.0
60	20.0	30.0	12.0	19.0	21.0	29.0	29.0	15.0	14.0
61	20.0	33.0	12.0	19.0	25.0	28.0	27.0	9.0	13.0
62	25.0	33.0	18.0	28.0	29.0	38.0	36.0	10.0	15.0
63	25.0	33.0	18.0	30.0	28.0	34.0	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	34.0	39.0	16.0	21.0
66	38.0	100.0	18.0	35.0	36.0	36.0	44.0	21.0	25.0
67	38.0	100.0	18.0	32.0	33.0	30.0	31.0	18.0	25.0
68	38.0	100.0	18.0	21.0	25.0	29.0	30.0	19.0	18.0
69	38.0	100.0	18.0	21.0	27.0	22.0	30.0	14.0	17.0
70	100.0	100.0	18.0	21.0	29.0	29.0	32.0	21.0	22.0
71	100.0	100.0	15.0	21.0	34.0	23.0	25.0	24.0	17.0
72	100.0	100.0	15.0	21.0	33.0	23.0	25.0	24.0	17.0
73	100.0	100.0	15.0	30.0	24.0	24.0	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:

,	ıblic School, niversity	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.

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[#] 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 2021-2023 for the Wisconsin Retirement System.

		General		Public S	Schools	University	
Age	Executive & Elected	Male	Female	Male	Female	Male	Female
55	6.0%	5.0%	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	15.0	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	20.0	19.0	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: \$930,000. 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 3.30% to 4.09%. An increase in the discount rate decreases the liabilities.

The administrative expense assumption was updated from \$890,000 to \$930,000 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.

The salary, disability, withdrawal, and retirement assumptions were updated based on the most recent experience study, which increased the liability.

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.

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Discount Rate: We have discounted future benefit payments back to the present using

an interest rate of 4.09%. 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.

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

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 2021-2023 for the Wisconsin Retirement System.

Expenses: Based on recent history of the plan.

GASB 74 valuation.

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 and I	ater 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):

		1, 2023 – 31, 2024*	April 1, 2024 – March 31, 2025*			
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	0.08	0.08	0.08	0.08		
45-49	0.13	0.13	0.13	0.13		
50-54	0.20	0.20	0.21	0.21		
55-59	0.28	0.28	0.29	0.29		
60-64	0.38	0.38	0.40	0.40		
65-69	0.50	0.50	0.52	0.52		

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

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

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

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.

	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015
A. Active Participants										
Count	50,006	49,005	49,293	50,777	50,469	49,813	50,060	49,125	N/A	N/A
Average Age	45.3	45.4	45.5	45.3	45.3	45.4	45.4	45.8	N/A	N/A
Average Service	9.9	10.0	10.2	10.1	10.1	10.2	10.1	10.7	N/A	N/A
Average Projected Salary	\$81,364	\$77,638	\$74,762	\$71,094	\$68,319	\$66,774	\$65,711	\$64,814	N/A	N/A
B. Disabled Participants										
Count	927	994	1,062	1,122	1,205	1,268	1,328	1,337	N/A	N/A
Average Age	57.9	57.1	57.1	57.6	57.5	57.3	57.3	57.0	N/A	N/A
Average Current Insurance	\$51,720	\$49,738	\$48,334	\$47,448	\$46,461	\$45,705	\$45,325	\$44,847	N/A	N/A
C. Pre-65 Annuitants										
Count	6,077	6,344	6,360	6,389	6,600	6,859	7,032	7,127	N/A	N/A
Average Age	61.1	60.6	60.6	61.2	61.2	61.3	61.2	61.3	N/A	N/A
Average Current Insurance	\$76,432	\$74,046	\$71,520	\$69,533	\$68,260	\$67,136	\$65,986	\$65,518	N/A	N/A
D. Post-64 Annuitants										
Count	30,476	29,744	28,966	28,136	27,091	26,049	24,972	23,760	N/A	N/A
Average Age	75.2	74.5	74.3	74.7	74.5	74.4	74.3	74.3	N/A	N/A
Average Current Insurance	\$31,578	\$31,039	\$30,534	\$30,027	\$29,558	\$28,982	\$28,445	\$28,843	N/A	N/A

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Summary of Demographic Information

	Active Members as of January 1, 2024										
	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	513	500	7	0	0	0	0	0	0	0	1,020
25-29	817	2,234	509	1	0	0	0	0	0	0	3,561
30-34	835	2,539	2,141	209	2	0	0	0	0	0	5,726
35-39	722	2,343	2,488	1,082	349	2	0	0	0	0	6,986
40-44	567	2,047	2,210	1,135	1,066	377	3	0	0	0	7,405
45-49	437	1,526	1,579	1,015	1,078	1,101	289	2	0	0	7,027
50-54	365	1,258	1,377	837	958	1,201	868	111	0	0	6,975
55-59	235	966	1,134	695	774	923	757	352	55	0	5,891
60-64	134	582	810	544	500	646	426	295	104	19	4,060
65-69	16	135	283	172	166	191	146	137	63	46	1,355
70+	0	0	0	0	0	0	0	0	0	0	0
ALL	4,641	14,130	12,538	5,690	4,893	4,441	2,489	897	222	65	50,006

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	52,108	55,506	*	-	-	-	-	-	-	-	53,800
25-29	59,808	61,809	71,864	*	-	-	-	-	-	-	62,797
30-34	66,516	68,001	74,674	80,612	*	-	-	-	-	-	70,747
35-39	69,353	75,236	79,767	84,271	83,568	*	-	-	-	-	78,058
40-44	69,891	78,812	84,673	90,097	87,541	87,123	*	-	-	-	83,295
45-49	71,806	77,401	86,786	94,209	95,312	88,289	90,244	*	-	-	86,572
50-54	71,563	77,185	82,757	91,888	100,930	97,209	90,917	86,318	-	-	88,319
55-59	73,207	75,968	79,647	88,583	95,345	99,002	96,227	89,953	79,362	-	87,680
60-64	73,929	75,286	79,027	82,432	87,344	97,985	99,064	101,264	91,229	*	86,881
65-69	*	75,686	79,474	86,319	97,583	105,955	100,141	130,390	121,670	93,180	95,644
70+	-	-	-	-	-	-	-	_	-	-	-
ALL	66,067	72,097	80,575	88,607	93,146	94,994	94,396	99,375	96,928	90,998	81,364

^{*} Compensation shown for groups of 20 or more.

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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.
- 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.

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