

STATE OF WISCONSIN POSTRETIREMENT LIFE INSURANCE PLAN (STATE)

GASB 74 and 75 DISCLOSURE Fiscal Year Ending: December 31, 2020

Prepared by

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GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020 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, 2020. The reporting date for determining plan assets and obligations is December 31, 2020. 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, 2020 and December 31, 2020 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, 2020 includes 50,469 active participants and 34,896 retirees.

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

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

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

Future actuarial measurements may differ significantly from the current measurements presented in this report due to factors such as, but not limited to, the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of the actuarial assignment, we did not perform an analysis of the potential range of such future measurements.

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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.

Jack Climelewski

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Executive Summary

Overview of GASB 74 and GASB 75

The Governmental Accounting Standards Board (GASB) released new 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 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, FNP, Net OPEB Liability, FNP as a percentage of Total OPEB Liability
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, 2020 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, 2020 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, 2020 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 50,469 active members as of 1/1/2020.
- <u>Disabled Participants</u>: The liability for disabled participants represents the expected present value of future death benefits payable to disabled participants. There were 1,205 disabled members as of 1/1/2020.
- <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 1/1/2020. There were 6,600 pre-65 annuitants reported as of 1/1/2020.
- <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 1/1/2020. There were 27,091 post-64 retirees reported as of 1/1/2020.

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

Summary of Results

This report presents the results of the actuarial valuation in accordance with GASB 74 as of December 31, 2020 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 12/31/2019 to 12/31/2020 GASB 74 results.

(\$ in millions)		
Valuation Date	01/01/2019	01/01/2020
Measurement Date	12/31/2019	12/31/2020
Funded Status		
Total OPEB Liability (TOL)	\$1,031	\$1,201
Fiduciary Net Position (FNP)	<u>(348)</u>	<u>(334)</u>
Net OPEB Liability (NOL) ⁽¹⁾	\$683	\$867
FNP as a % of TOL	34%	28%
OPEB Expense	\$68	\$98
Discount Rate	2.84%	2.22%

⁽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 \$683 million as of December 31, 2019 to \$867 million as of December 31, 2020 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 2.74% at December 31, 2019 to 2.12% at December 31, 2020. The impact due to the change in the municipal bond index was an increase in the net OPEB liability of approximately \$138.5 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, 2020, 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, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

of providing postretirement life insurance benefits to plan participants. The 2020 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 12/31/2020, the total value in the Active Premium Deposit Fund plus the Active Stabilization Reserve was \$57 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, 2020. 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 2.84% as of December 31, 2019 to 2.22% as of December 31, 2020, which caused an increase in the Net OPEB Liability of \$138.5 million.

The Net OPEB Liability is \$867 million resulting in a funded ratio of 27.8% for the state plan as of December 31, 2020.

Statement of Fiduciary Net Position

Assets Receivables: Miscellaneous Receivables Total Receivables Investments: Investment Contract Total Investments Total Investments Total Assets Senefits Payable Unearned Revenue Due to Other Benefit Programs Miscellaneous Payables Note Senefits Note Senefit Programs Note Senefits Note Senefit Programs Note Senefit Program Note Se		December 31, 2020
Receivables: Miscellaneous Receivables Total Receivables Investments: Investment Contract Total Investments Total Assets Senefits Payable Unearned Revenue Due to Other Benefit Programs Miscellaneous Payables Miscellaneous Payables Mis	Assets	
Miscellaneous Receivables\$106,001Total Receivables106,001Investments:335,311,893Total Investments335,311,893Total Assets335,417,894LiabilitiesBenefits Payable1,258,312Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Receivables:	
Total Receivables106,001Investments:335,311,893Investment Contract335,311,893Total Investments335,311,893Total Assets335,417,894LiabilitiesBenefits Payable1,258,312Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Miscellaneous Receivables	\$106,001
Investments: Investment Contract Total Investments Total Investments Total Assets Senefits Payable Unearned Revenue Due to Other Benefit Programs Miscellaneous Payables Senefits Payable 1,258,312 18,199 18,199 18,199	Total Receivables	106,001
Investment Contract335,311,893Total Investments335,311,893Total Assets335,417,894Liabilities1,258,312Benefits Payable1,258,312Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Investments:	
Total Investments335,311,893Total Assets335,417,894Liabilities1,258,312Benefits Payable1,258,312Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Investment Contract	335,311,893
Total Assets335,417,894Liabilities1,258,312Benefits Payable1,258,312Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Total Investments	335,311,893
LiabilitiesBenefits Payable1,258,312Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Total Assets	335,417,894
Benefits Payable1,258,312Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Liabilities	
Unearned Revenue301,995Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Benefits Payable	1,258,312
Due to Other Benefit Programs18,199Miscellaneous Payables87,537	Unearned Revenue	301,995
Miscellaneous Payables 87,537	Due to Other Benefit Programs	18,199
	Miscellaneous Payables	87,537
Total Liabilities 1,666,043	Total Liabilities	1,666,043
Net Position Restricted For Postemployment Benefits	Net Position Restricted For Postemployment Benefits	
Other Than Pensions \$333,751,851	Other Than Pensions	\$333,751,851

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Statement of Changes in Fiduciary Net Position

	December 31, 2020
Additions	
Employer Contributions Total Contributions	\$1,534,835 1,534,835
Investment Income (loss): Other Investment Income	9,726,950
Net Investment Income	9,726,950
Service Reimbursement Income	106,001
Total Additions	11,367,786
Deductions	
Other Benefit Expenses Carrier Administrative Expenses Administrative Expenses	24,729,294 800,291 106,001
Total Deductions	25,635,586
Transfer from Active Life Insurance Program	0
Net Increase/(Decrease) in Net Position	(14,267,799)
Net Position Restricted For Postemployment Benefits Other Than Pensions	
Beginning of Year (January 1, 2020) End of Year (December 31, 2020)	348,019,650 \$333,751,851

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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	Net
Ending	Money-Weighted
December 31	Rate of Return
2011	N/A
2012	N/A
2013	N/A
2014	N/A
2015	N/A
2016	N/A
2017	3.19%
2018	3.16%
2019	3.09%
2020	2.86%

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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 30, 40, and 50 year time periods. Based on Milliman's capital market assumptions as of December 31, 2020 and the target asset allocation for the retiree life insurance program, the 50th percentile returns over these time periods are 3.39%, 3.56%, and 3.66%, respectively. The rates shown below are from the 30-year time period.

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, 2020 is 4.19%.

The long-term expected rate of return assumption was adjusted to the 50th percentile from 5.0% to 4.25% based on Milliman's capital market assumptions and Securian's outlook as of December 31, 2019. Although Milliman's capital market assumptions have changed from December 31, 2019 to December 31, 2020, we believe continuing to use a 4.25% expected rate of return assumption as of December 31, 2020 is reasonable based on the long term nature of the benefit program and the fact that Securian's projected outlook changed very little over that same period. We will continue to monitor this assumption in the future.

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.

Asset Class	Index	Target Allocation	Expected Geometric Real Rate of Return
US Credit Bonds	Barclays Credit	50.00%	1.47%
Inflation	2.20%		
Long-Term Expected Rate	4.25%		
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State of Wisconsin Postretirement Life Insurance Plan (State)

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 2.12% as of December 31, 2020, 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, 2020 discount rate are shown on pages 13 through 15.

Projection of Fiduciary Net Position

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		Projected					Projected
		Beginning	Projected	Projected	Projected	Projected	Ending
		Fiduciary	Employer	Benefit	Administrative	Investment	Fiduciary
	Year	Net Position	Contributions	Payments	Expenses	Earnings	Net Position
	2021	\$333,751,851	\$1,719,151	\$23,826,776	\$760,000	\$13,698,517	\$324,582,743
	2022	324,582,743	1,691,740	25,105,842	776,720	13,280,712	313,672,633
	2023	313,672,633	1,661,015	26,455,553	793,808	12,787,335	300,871,622
	2024	300,871,622	1,626,458	27,865,228	811,272	12,212,231	286,033,811
	2025	286,033,811	1,587,777	29,376,799	829,120	11,548,301	268,963,971
	2026	268,963,971	1,540,728	30,956,005	847,360	10,787,888	249,489,222
	2027	249,489,222	1,489,669	32,596,855	866,002	9,923,862	227,439,896
	2028	227,439,896	1,437,277	34,295,386	885,054	8,949,153	202,645,885
	2029	202,645,885	1,319,112	36,182,210	904,525	7,852,388	174,730,650
	2030	174,730,650	1,206,796	38,146,334	924,425	6,621,443	143,488,130
	2031	143,488,130	1,100,891	40,140,779	944,762	5.248.572	108.752.052
	2032	108,752,052	1,003,166	42,188,057	965,547	3.726.265	70.327.879
	2033	70,327,879	911,983	44,286,583	986,789	2,046,255	28.012.745
	2034	28.012.745	826,782	46,417,709	1.008.498	200.304	(18.386.377)
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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*	Present Value of "Unfunded" Benefit Payments**	Present Value of Total Benefit Payments***
Year 2021 2022 2023 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 2044 2045 2046 2047	Fiduciary Net Position \$333,751,851 324,582,743 313,672,633 300,871,622 286,033,811 268,963,971 249,489,222 227,439,896 202,645,885 174,730,650 143,488,130 108,752,052 70,327,879 28,012,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Benefit Payments \$23,826,776 25,105,842 26,455,553 27,865,228 29,376,799 30,956,005 32,596,855 34,295,386 36,182,210 38,146,334 40,140,779 42,188,057 44,286,583 46,417,709 48,563,088 50,675,262 52,662,406 54,575,320 56,400,452 58,112,209 59,700,945 61,184,947 62,514,444 63,714,984 64,737,268 65,593,239 66,293,438 66,833,750 67,225,416 67,505,886 67,697,103	Benefit Payments \$23,826,776 25,105,842 26,455,553 27,865,228 29,376,799 30,956,005 32,596,855 34,295,386 36,182,210 38,146,334 40,140,779 42,188,057 44,286,583 0	Benefit Payments \$0 0	Benefit Payments* \$23,336,045 23,586,348 23,841,122 24,087,758 24,359,153 24,622,183 24,870,315 25,099,509 25,400,867 25,687,995 25,929,081 26,140,554 26,322,151 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Benefit Payments** \$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Benefit Payments*** \$23,566,385 24,291,697 25,041,209 25,802,181 26,610,539 27,431,496 28,257,625 29,083,792 30,016,897 30,958,428 31,868,914 32,766,222 33,648,398 34,500,970 35,310,940 36,644,975 37,150,563 37,558,399 37,857,092 38,046,653 38,144,789 38,126,450 38,013,946 37,784,278 37,451,672 37,028,665 36,518,987 35,934,513 35,300,047 34,630,528
2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073		67,778,638 67,778,638 67,774,812 67,678,257 67,508,517 67,253,190 66,899,593 66,416,081 65,790,732 65,073,343 64,265,414 63,358,178 62,375,766 61,339,703 60,241,147 59,071,348 57,820,179 56,479,361 55,053,916 53,559,026 51,995,024 50,359,201 48,638,693		67,778,638 67,778,638 67,774,812 67,678,257 67,508,517 67,253,190 66,899,593 66,416,081 65,790,732 65,073,343 64,265,414 63,358,178 62,375,766 61,339,703 60,241,147 59,071,348 57,820,179 56,479,361 55,053,916 53,559,026 51,995,024 50,359,201 48,638,693		35,002,772 34,274,184 33,514,841 32,736,765 31,935,908 31,108,499 30,242,523 29,335,850 28,413,601 27,478,287 26,527,983 25,574,469 24,627,572 23,684,398 22,742,343 21,798,517 20,850,981 19,902,797 18,960,412 18,024,618 17,095,126 16,168,308	33,918,547 33,179,367 32,411,888 31,627,809 30,823,277 29,994,717 29,130,633 28,229,083 27,314,329 26,388,829 25,450,766 24,511,475 23,580,369 22,654,660 21,731,844 20,809,158 19,884,754 18,961,559 18,045,706 17,137,930 16,237,935 15,342,256

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

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Actuarial Present Value of Projected Benefit Payments (Continued)

					Present	Present	Present
	Projected		"Funded"	"Unfunded"	Value of	Value of	Value of
	Beginning	Projected	Portion of	Portion of	"Funded"	"Unfunded"	Total
	Fiduciary	Bonofit	Bonofit	Bonofit	Bonofit	Bonofit	Bonofit
Voar	Not Position	Denent	Demente	Denent	Denente*	Denent Daymonte**	Denent Dovmonte***
Tear	Net Position	Payments	Payments	Fayments	Fayments	Payments	Payments
2074	¢O	¢16 916 979	¢۵	¢16 916 979	¢∩	¢15 220 626	¢11 116 591
2074	ψ0 0	44 0,010,070	ψ0	44 0,010,070 11 225 577	ψ0 0	ψ10,209,020 14 207 626	12 540 551
2075	0	49,000,077	0	44,000,077	0	12 271 476	12 650 351
2070	0	42,007,001	0	42,007,991	0	12 /25 656	11 752 252
2077	0	29 /2/ 725	0	28 424 725	0	11 504 004	10 861 055
2070	0	36 007 362	0	36 007 362	0	10 580 186	0 070 644
2019	0	33 683 013	0	33 683 013	0	0,667,584	0 100 730
2000	0	31 218 / 23	0	31 218 /33	0	8 77/ 106	8 250 647
2001	0	28 727 551	0	28 727 551	0	7 006 /05	7 / 35 / 00
2002	0	26,727,551	0	26,727,001	0	7,300,435	6 6/1 76/
2000	0	23,753,229	0	23,753,229	0	6 268 830	5 883 546
2085	0	21 322 045	0	21 322 045	0	5 510 384	5 166 551
2086	0	18 967 000	0	18 967 000	0	4 799 996	4 495 996
2000	0	16 708 903	0	16 708 903	0	4 140 753	3 874 633
2088	0	14 564 270	0	14 564 270	0	3 534 348	3 303 800
2000	0	12 544 792	0	12 544 792	0	2 981 077	2 783 921
2000	0	10 665 270	0	10 665 270	0	2,001,077	2,700,021
2000	0	8 943 189	0	8 943 189	0	2,401,020	1 800 313
2001	0	7 392 685	0	7 392 685	0	1 649 603	1 535 896
2093	õ	6 021 230	õ	6 021 230	õ	1 315 685	1 223 771
2094	õ	4 832 282	õ	4 832 282	õ	1 033 970	960 777
2095	õ	3 823 709	õ	3 823 709	õ	801 179	743 722
2096	õ	2 986 034	Õ	2 986 034	õ	612 673	568 167
2097	õ	2 302 944	Õ	2 302 944	õ	462,708	428 667
2098	Õ	1,755,634	Ő	1,755,634	Õ	345,419	319,688
2099	Õ	1.323.816	Ő	1.323.816	Õ	255.052	235,817
2100	Õ	987,392	Ő	987.392	Õ	186,286	172,065
2101	Ō	728,616	Ō	728,616	Ō	134,610	124.210
2102	Ō	531,698	Ō	531,698	Ō	96,191	88.670
2103	Ō	383,406	Ō	383,406	Ō	67,923	62,550
2104	Ō	272,952	Ō	272,952	Ō	47.352	43,562
2105	0	191.856	0	191.856	0	32,592	29.954
2106	0	132,930	0	132,930	0	22,113	20,303
2107	0	90,583	0	90,583	0	14,756	13,534
2108	0	60,695	0	60,695	0	9,682	8,872
2109	0	39,898	0	39,898	0	6,232	5,705
2110	0	25,825	0	25,825	0	3,950	3,612
2111	0	16,461	0	16,461	0	2,466	2,253
2112	0	10,320	0	10,320	0	1,514	1,381
2113	0	6,272	0	6,272	0	901	821
2114	0	3,687	0	3,687	0	519	472
2115	0	2,136	0	2,136	0	294	268
2116	0	1,200	0	1,200	0	162	147
2117	0	574	0	574	0	76	69
2118	0	245	0	245	0	32	29
2119	0	102	0	102	0	13	12
Total					323,283,081	+ 1,396,482,945	= 1,719,766,026

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

** Discounted at the municipal bond rate, 2.12%

*** 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, 2.22%

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

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Net OPEB Liability

Net OPEB Liability	December 31, 2019	December 31, 2020
	¢1 031 1/3 027	\$1 200 738 <i>464</i>
	\$1,031,143,927	φ1,200,730,404
Fiduciary net position	348,019,650	333,751,851
Net OPEB liability	683,124,277	866,986,613
Fiduciary net position as a % of total OPEB liability	33.75%	27.80%
Covered payroll	3,299,478,000	3,456,544,000
Net OPEB liability as a % of covered payroll	20.70%	25.08%

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

Discount Rate

Discount rate	2.84%	2.22%
Long-term expected rate of return, net of investment expense	4.25%	4.25%
20 Year Tax-Exempt Municipal Bond Yield	2.74%	2.12%

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, 2019	January 1, 2020
Measurement date	December 31, 2019	December 31, 2020
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, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

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	Increase (Decrease)			
	Total OPEB	Plan Fiduciary	Net OPEB	
	Liability	Net Position	Liability	
Changes in Net OPEB Liability	(a)	(b)	(a) - (b)	
Balances as of December 31, 2019	\$1,031,143,927	\$348,019,650	\$683,124,277	
Changes for the year:				
Service cost	36,280,118		36,280,118	
Interest on total OPEB liability	29,966,145		29,966,145	
Effect of plan changes	0		0	
Effect of economic/demographic gains or losses	(10,408,858)		(10,408,858)	
Effect of assumptions changes or inputs	138,486,426		138,486,426	
Benefit payments	(24,729,294)	(24,729,294)	0	
Employer contributions		1,534,835	(1,534,835)	
Transfer from active life insurance program		0	0	
Net investment income		9,832,951	(9,832,951)	
Administrative expenses		(906,292)	906,292	
Balances as of December 31, 2020	1,200,738,464	333,751,851	866,986,613	

Changes in Net OPEB Liability

Sensitivity Analysis

The following presents the net OPEB liability, calculated using the discount rate of 2.22%, as well as what the net OPEB liability would be if it were calculated using a discount rate that is 1 percentage point lower (1.22%) or 1 percentage point higher (3.22%) than the current rate.

	Current			
	1% Decrease	Discount Rate	1% Increase	
	1.22%	2.22%	3.22%	
Total OPEB liability	\$1,478,862,736	\$1,200,738,464	\$987,826,203	
Fiduciary net position	333,751,851	333,751,851	333,751,851	
Net OPEB liability	1,145,110,885	866,986,613	654,074,352	

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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

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

		Fiscal Year Ending December 31								
	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Total OPEB Liability										
Service cost	\$36,280	\$25,430	\$30,668	\$26,146	N/A	N/A	N/A	N/A	N/A	N/A
Interest on total OPEB liability	29,966	33,225	31,194	30,731	N/A	N/A	N/A	N/A	N/A	N/A
Changes of benefit terms	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A
Effect of economic/demographic (gains) or losses	(10,409)	(6,128)	(17,528)	(5,266)	N/A	N/A	N/A	N/A	N/A	N/A
Effect of assumption changes or inputs	138,486	223,009	(94,851)	49,008	N/A	N/A	N/A	N/A	N/A	N/A
Benefit payments	(24,729)	(19,857)	(19,538)	(17,670)	N/A	N/A	N/A	N/A	N/A	N/A
Net change in total OPEB liability	169,595	255,680	(70,054)	82,949	N/A	N/A	N/A	N/A	N/A	N/A
Total OPEB liability, beginning	1,031,144	775,464	845,519	762,570	N/A	N/A	N/A	N/A	N/A	N/A
Total OPEB liability, ending (a)	1,200,738	1,031,144	775,464	845,519	N/A	N/A	N/A	N/A	N/A	N/A
Fiduciary Net Position										
Employer contributions	\$1,535	\$1,149	\$1,387	\$1,376	N/A	N/A	N/A	N/A	N/A	N/A
Transfer from active life insurance program	0	13,140	0	0	N/A	N/A	N/A	N/A	N/A	N/A
Net Investment income	9,833	10,411	10,897	11,530	N/A	N/A	N/A	N/A	N/A	N/A
Benefit payments	(24,729)	(19,857)	(19,538)	(17,670)	N/A	N/A	N/A	N/A	N/A	N/A
Administrative expenses	(906)	(808)	(735)	(699)	N/A	N/A	N/A	N/A	N/A	N/A
Net change in plan fiduciary net position	(14,268)	4,036	(7,989)	(5,462)	N/A	N/A	N/A	N/A	N/A	N/A
Fiduciary net position, beginning	348,020	343,984	351,972	357,435	N/A	N/A	N/A	N/A	N/A	N/A
Fiduciary net position, ending (b)	333,752	348,020	343,984	351,972	N/A	N/A	N/A	N/A	N/A	N/A
Net OPEB liability, ending = (a) - (b)	\$866,987	\$683,124	\$431,481	\$493,547	N/A	N/A	N/A	N/A	N/A	N/A
Fiduciary net position as a % of total OPEB liability	27.80%	33.75%	44.36%	41.63%	N/A	N/A	N/A	N/A	N/A	N/A
Covered payroll	\$3,456,544	\$3,299,478	\$3,182,513	\$3,183,994	N/A	N/A	N/A	N/A	N/A	N/A
Net OPEB liability as a % of covered payroll	25.08%	20.70%	13.56%	15.50%	N/A	N/A	N/A	N/A	N/A	N/A

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

Notes to Schedule:

* May not add due to rounding

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

OPEB Expense and Deferred Inflows/Outflows of Resources

	January 1, 2019 to	January 1, 2020 to
OPEB Expense	December 31, 2019	December 31, 2020
		\$00,000,110
Service cost	\$25,430,413	\$36,280,118
Interest on total OPEB liability	33,224,876	29,966,145
Effect of plan changes	0	0
Administrative expenses	807,916	906,292
Expected investment return net of investment expenses	(16,717,245)	(14,284,023)
Recognition of Deferred Inflows/Outflows of Resources		
Recognition of economic/demographic gains or losses	(4,235,635)	(5,775,407)
Recognition of assumption changes or inputs	26,070,956	46,557,114
Recognition of investment gains or losses	3,692,872	4,583,086
OPEB Expense	68,274,153	98,233,325

As of December 31, 2020, the deferred inflows and outflows of resources to be recognized in future OPEB expense are as follows:

	Deferred Inflows	Deferred Outflows
Deferred Inflows / Outflows of Resources	of Resources	of Resources
Differences between expected and actual experience	(\$25,241,890)	\$0
Changes of assumptions	(53,005,008)	296,016,021
Net difference between projected and actual earnings	<u>0</u>	<u>11,023,315</u>
Total	(78,246,898)	307,039,336
Total net deferrals		228,792,438

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:	
2021	\$45,364,792
2022	44,180,286
2023	42,933,142
2024	38,870,683
2025	43,044,283
Thereafter*	14,399,252
Total net deferrals	\$228,792,438

* 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, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

			Original	Remaining	Amount Recognized	Balance of Deferred	Balance of Deferred
	Original	Date Established	Recognition	Recognition	in 12/31/2020	Inflows	Outflows
	Amount	LStabilisheu	Fenou	Fenou	Expense	12/31/2020	12/31/2020
Investment	\$4,451,072	12/31/2020	5.00	5.00	\$890,214	\$0	\$3,560,858
(gains) or losses	6,306,113	12/31/2019	5.00	4.00	1,261,223	0	3,783,667
	6,235,702	12/31/2018	5.00	3.00	1,247,140	0	2,494,282
	5,922,544	12/31/2017	5.00	2.00	<u>1,184,509</u>	<u>0</u>	<u>1,184,508</u>
		Total			4,583,086	0	11,023,315
Differences							
hotwoon expected	(10 408 858)	12/31/2020	6 76	6 76	(1 539 772)	(8 869 086)	0
and actual	(6 128 118)	12/31/2019	6 75	5 75	(907 869)	(0,000,000) (4,312,380)	0
experience	(17, 528, 066)	12/31/2018	6.80	4 80	(2 577 657)	(9,795,095)	0
experience	(5 265 765)	12/31/2017	7.02	4 02	(750,109)	(2, 265, 329)	0
	(0,200,700)	Total	1.02	4.02	(5.775.407)	(25.241.890)	<u>0</u>
					(-,,,	(,,,,	-
Assumption	138,486,426	12/31/2020	6.76	6.76	20,486,158	0	118,000,268
changes or inputs	223,009,201	12/31/2019	6.75	5.75	33,038,400	0	156,932,401
	(94,851,066)	12/31/2018	6.80	4.80	(13,948,686)	(53,005,008)	0
	49,008,320	12/31/2017	7.02	4.02	<u>6,981,242</u>	<u>0</u>	<u>21,083,352</u>
		Total			46,557,114	(53,005,008)	296,016,021

Schedule of Deferred Inflows and Outflows of Resources

Subtotal of Deferred Inflows/Outflows

Total net deferrals

(78,246,898) 307,039,336

228,792,438

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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, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

OPEB Liability and Expense Summary

	Total OPEB	Plan Fiduciary	Net OPEB	Deferred	Deferred	Net	Net OPEB Liability plus	Annual
	Liability	Net Position	Liability	Inflows	Outflows	Deferrals	Net Deferrals	Expense
Balances as of December 31, 2019	(\$1,031,143,927)	\$348,019,650	(\$683,124,277)	(\$87,562,133)	\$229,190,724	\$141,628,591	(\$541,495,686)	
Service cost	(36,280,118)		(36,280,118)					36,280,118
Interest on total OPEB liability	(29,966,145)		(29,966,145)					29,966,145
Effect of plan changes	0		0					0
Effect of liability gains or losses	10,408,858		10,408,858	(10,408,858)		(10,408,858)		
Effect of assumption changes or inputs	(138,486,426)		(138,486,426)		138,486,426	138,486,426		
Benefit payments	24,729,294	(24,729,294)	0					
Transfer from active life insurance program		0	0				0	
Administrative expenses		(906,292)	(906,292)					906,292
Expected investment income (net of inv expenses)		14,284,023	14,284,023					(14,284,023)
Investment gains or losses		(4,451,072)	(4,451,072)		4,451,072	4,451,072		
Employer contributions		1,534,835	1,534,835				1,534,835	
Recognition of liability gains or losses				5,775,407		5,775,407		(5,775,407)
Recognition of assumption changes or inputs				13,948,686	(60,505,800)	(46,557,114)		46,557,114
Recognition of investment gains or losses					(4,583,086)	(4,583,086)		4,583,086
Annual expense							(98,233,325)	98,233,325
Balances as of December 31, 2020	(1,200,738,464)	333,751,851	(866,986,613)	(78,246,898)	307,039,336	228,792,438	(638,194,175)	

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

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 2015-2017 for the Wisconsin Retirement System. All assumptions are based on estimates of future experience.

Valuation Date:	January 1, 2020
Census Date:	January 1, 2020
Discount Rate:	2.22% (net of expenses)
Expected Return on Plan Assets:	4.25%
Inflation Rate:	2.20%
Salary Increases:	Salary increase assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2015-2017 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.

% of Merit & Longevity Increase Next Year

Service	Protective with Social Security	Protective w/o Social Security	Executive & Elected	General	Public Schools	University
1	4.80%	5.50%	2.5%	3.5%	5.6%	3.0%
2	4.80	5.50	2.5	3.5	5.6	3.0
3	4.10	4.70	2.0	3.1	5.2	2.9
4	3.50	3.80	1.6	2.8	4.7	2.8
5	2.80	3.00	1.1	2.5	4.3	2.7
10	1.10	0.90	0.2	1.5	2.6	2.2
15	0.80	0.50	0.2	1.1	1.4	1.7
20	0.70	0.40	0.2	0.9	0.6	1.2
25	0.60	0.30	0.2	0.6	0.3	0.9
30	0.50	0.20	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.

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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 2015-2017 for the Wisconsin Retirement System. Rates are based on the 2015-2017 experience study as the base table and project future improvements with MP-2018 generational improvement scale (multiplied by 60%). This assumption includes a margin for improvements in longevity beyond the valuation date. Sample rates of the mortality with attained ages in 2017 are as follows:

Age	Males	Females
20	0.0134%	0.0080%
25	0.0163	0.0089
30	0.0208	0.0121
35	0.0364	0.0216
40	0.0482	0.0301
45	0.0615	0.0459
50	0.0814	0.0673
55	0.1895	0.1207
60	0.2718	0.1747
65	0.4150	0.2631
70	0.6771	0.4408
75	1.1435	0.7994
80	2.1013	1.5010

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 2015-2017 for the Wisconsin Retirement System. Rates are based on the 2015-2017 experience study as the base table and project future improvements with MP-2018 generational improvement scale (multiplied by 60%). This assumption includes a margin for improvements in longevity beyond the valuation date. Sample rates of the mortality with attained ages in 2017 are as follows:

Age	Males	Females
40	0.0964%	0.0603%
45	0.1230	0.0918
50	0.1627	0.1346
55	0.3790	0.2413
60	0.5436	0.3493
65	0.8300	0.5261
70	1.3542	0.8817
75	2.2869	1.5987
80	4.2026	3.0020
85	7.8539	6.0225

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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 2015-2017 for the Wisconsin Retirement System. Rates are based on the 2015-2017 experience study as the base table and project future improvements with MP-2018 generational improvement scale (multiplied by 60%). This assumption includes a margin for improvements in longevity beyond the valuation date. Sample rates of the mortality with attained ages in 2017 are as follows:

Age	Males	Females
45	0.2370%	0.1536%
55	0.6227	0.3968
65	1.8095	1.0670
75	5.8651	3.6058
85	17.4261	12.7575

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 2015-2017 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	0.01%	0.03%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%
25	0.01	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00
30	0.01	0.03	0.00	0.00	0.02	0.00	0.01	0.00	0.00
35	0.01	0.03	0.01	0.01	0.02	0.00	0.01	0.00	0.02
40	0.02	0.04	0.01	0.02	0.03	0.01	0.01	0.00	0.02
45	0.02	0.08	0.01	0.04	0.04	0.02	0.04	0.01	0.02
50	0.04	0.46	0.02	0.09	0.06	0.06	0.07	0.01	0.04
55	0.61	0.34	0.09	0.17	0.12	0.12	0.10	0.04	0.06
60	1.02	0.10	0.11	0.30	0.16	0.19	0.15	0.06	0.09

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020

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 2015-2017 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	16.0%	4.0%	14.0%	17.0%	20.0%	18.5%	15.0%	16.0%	14.5%
1	9.5	3.5	13.0	12.3	15.0	11.0	11.0	15.0	14.0
2	6.0	1.5	12.0	9.3	11.5	8.0	8.0	13.0	13.0
3	5.0	1.3	10.0	7.6	10.0	6.5	6.0	11.0	10.0
4	4.5	1.2	10.0	7.5	9.5	5.5	5.5	9.0	9.5
5	4.0	1.1	5.0	5.8	7.8	4.0	5.0	8.0	9.0
6	3.8	1.0	5.0	4.8	7.0	3.5	4.0	7.5	7.0
7	3.5	0.9	5.0	4.7	6.0	3.2	3.7	6.0	6.0
8	3.0	0.8	5.0	4.1	5.7	3.0	3.3	5.5	5.0
9	2.5	0.7	5.0	4.0	5.3	2.8	3.0	5.0	4.0

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 2015-2017 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
25	2.3%	0.7%	5.0%	3.7%	4.7%	2.2%	2.4%	4.7%	4.0%
30	2.3	0.7	5.0	3.7	4.7	2.2	2.4	4.7	4.0
35	2.0	0.7	5.0	3.0	3.9	1.8	1.9	4.2	4.0
40	1.6	0.6	5.0	2.4	3.2	1.5	1.5	3.4	3.7
45	1.4	0.6	4.7	2.0	2.7	1.4	1.3	2.7	3.2
50	1.2	0.5	4.2	1.7	2.2	1.3	1.2	2.2	2.7
54+	1.2	0.5	4.0	1.6	2.0	1.3	1.2	2.0	2.5

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State of Wisconsin Postretirement Life Insurance Plan (State)

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 2015-2017 for the Wisconsin Retirement System. Sample rates are as follows:

				Gen	eral	Public	Schools	Unive	ersity
	Protective	Protective							
A	with Social	w/o Social	Executive	Mala	Female	Mala	Female	Mela	Female
Age	Security	Security	& Elected	Male	Female	Male	Female	Male	Female
50	6.0%	2.0%							
51	8.0	4.0							
52	10.0	4.0							
53	25.0	17.0							
54	20.0	23.0							
55	20.0	25.0							
56	20.0	25.0							
57	20.0	25.0	8.0%	19.0%	17.0%	33.0%	27.0%	12.0%	15.0%
58	20.0	33.0	8.0	19.0	17.0	29.0	27.0	12.0	15.0
59	20.0	33.0	8.0	19.0	17.0	24.0	27.0	12.0	10.0
60	20.0	20.0	20.0	19.0	17.0	25.0	27.0	12.0	12.0
61	20.0	20.0	12.0	19.0	17.0	25.0	27.0	12.0	16.0
62	30.0	40.0	12.0	26.0	27.0	35.0	37.0	12.0	15.0
63	30.0	40.0	12.0	29.0	27.0	32.0	30.0	12.0	20.0
64	30.0	40.0	15.0	28.0	27.0	29.0	28.0	12.0	20.0
65	40.0	40.0	15.0	30.0	30.0	29.0	37.0	15.0	20.0
66	40.0	100.0	15.0	35.0	35.0	35.0	39.0	20.0	24.0
67	40.0	100.0	15.0	30.0	30.0	33.0	33.0	20.0	20.0
68	40.0	100.0	15.0	19.0	25.0	27.0	30.0	18.0	17.0
69	40.0	100.0	20.0	19.0	25.0	23.0	28.0	16.0	17.0
70	100.0	100.0	20.0	19.0	25.0	25.0	38.0	20.0	18.0
71	100.0	100.0	20.0	19.0	20.0	20.0	20.0	18.0	18.0
72	100.0	100.0	20.0	19.0	20.0	15.0	20.0	16.0	18.0
73	100.0	100.0	20.0	19.0	20.0	15.0	20.0	16.0	15.0
74	100.0	100.0	20.0	19.0	20.0	15.0	20.0	16.0	15.0
75	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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State of Wisconsin Postretirement Life Insurance Plan (State)

Reduced Retirement:

These rates are the assumptions adopted by the Employee Trust Funds Board in connection with a study of experience during 2015-2017 for the Wisconsin Retirement System.

		Gen	eral	Public \$	Schools	Univ	ersity
Age	Executive & Elected*	Male	Female	Male	Female	Male	Female
55	3.0%	8.0%	7.0%	13.0%	12.0%	3.0%	5.0%
56	3.0	8.0	7.0	13.0	12.0	3.0	5.0
57	3.0	5.0	6.0	12.0	12.0	3.0	5.0
58	3.0	6.0	7.0	13.0	12.0	3.0	5.0
59	3.0	7.0	7.0	14.0	13.0	4.0	5.0
60	5.0	9.0	10.0	14.0	17.0	6.0	9.0
61	5.0	9.0	10.0	15.0	17.0	6.0	9.0
62	2.0	17.0	16.0	21.0	23.0	7.0	12.0
63	2.0	18.0	18.0	21.0	23.0	7.0	12.0
64	2.0	17.0	18.0	21.0	23.0	10.0	15.0

* For participants hired on or before December 31, 2016, the normal retirement eligibility is age 62 and any years of service or age 57 with 30 years of service. For participants hired after December 31, 2016, the normal retirement eligibility is age 65 and any years of service or age 57 with 30 years of service.

Expenses:	Benefit payment expense: 2.1% of benefits paid after age 65			
	Administrative expense: \$760,000. 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.			
	 Gender – 50% male; 50% female Employment code – 100% General 			
Changes Since Prior Valuation:	The discount rate has changed from 2.84% to 2.22%. A decrease in the discount rate increases the liabilities.			
	The administrative expense assumption was updated from \$700,000 to \$760,000 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.			

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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 2.22%. 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 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 2015-2017 for the Wisconsin Retirement System.
Expenses:	Based on recent history of the plan.
	For the post-65 portion of the plan, employer contributions to premium deposit fund are not treated as premiums; therefore, no state premium tax is applied. However, when benefits are paid from the premium deposit fund, they are cleared as premiums, and the state premium tax is applied. Furthermore, other administrative expenses including state premium taxes are also cleared as premiums and subject to state premium tax.
	The Department of Employee Trust Funds classifies the state premium tax for the post-65 portion of the plan as a benefit payment expense and all other expenses as administrative expenses. The expense assumptions used in this report follow this classification.

Summary of Plan Provisions

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

Enrollment Eligibility:	Generally, members m may enroll after the in insurability. Members enroll in group life insu Basic or Supplemental	ay enroll during a 30-day enrollment period. They nitial 30-day enrollment period with evidence of under evidence of insurability enrollment must urance coverage before age 55 to be eligible for coverage.				
Retirement Eligibility:	At retirement, the member must satisfy one of the following –					
	WRS coverage p	rior to January 1, 1990, <u>or</u>				
	 at least one mon calendar years at 	th of group life insurance coverage in each of 5 fter 1989				
	and one of the following –					
	eligible for an im	mediate WRS benefit, <u>or</u>				
	 at least 20 years <u>plus</u> their years of 	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.				
	In addition, terminating Employee Premiums u	g members and retirees must continue to pay ntil age 65 (age 70 if active).				
Basic Coverage Benefits:	After retirement, Basic of the insurance in force	coverage is continued for life in these amounts before retirement (one times WRS earnings):				
	Age	Percent of Basic Coverage Continuing				
	Betore age 65	100%				

While age 65

While age 66 and later

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State of Wisconsin Postretirement Life Insurance Plan (State)	

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Spouse & Dependent

Employee Premiums:

Coverage:

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).

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):

	April 1, March 3	, 2019 – 1, 2020*	April 1, 2020 – March 31, 2021*			
Attained Age	Basic	Supplemental	Basic	Supplemental		
Under 30	\$0.0420	\$0.0420	\$0.0441	\$0.0441		
30-34	0.0420	0.0420	0.0441	0.0441		
35-39	0.0420	0.0420	0.0441	0.0441		
40-44	0.0630	0.0630	0.0662	0.0662		
45-49	0.1050	0.1050	0.1103	0.1103		
50-54	0.1680	0.1680	0.1764	0.1764		
55-59	0.2310	0.2310	0.2426	0.2426		
60-64	0.3150	0.3150	0.3308	0.3308		
65-69	0.4095	0.4095	0.4300	0.4300		

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

*Additional premium increase of 5% during each of the next 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

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020 State of Wisconsin Postretirement Life Insurance Plan (State)

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.

	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
A. Active Participants										
Count	50,469	49,813	50,060	49,125	N/A	N/A	N/A	N/A	N/A	N/A
Average Age	45.3	45.4	45.4	45.8	N/A	N/A	N/A	N/A	N/A	N/A
Average Service	10.1	10.2	10.1	10.7	N/A	N/A	N/A	N/A	N/A	N/A
Average Projected Salary	\$68,319	\$66,774	\$65,711	\$64,814	N/A	N/A	N/A	N/A	N/A	N/A
B. Disabled Participants										
Count	1,205	1,268	1,328	1,337	N/A	N/A	N/A	N/A	N/A	N/A
Average Age	57.5	57.3	57.3	57.0	N/A	N/A	N/A	N/A	N/A	N/A
Average Current Insurance	\$46,461	\$45,705	\$45,325	\$44,847	N/A	N/A	N/A	N/A	N/A	N/A
C. Pre-65 Annuitants										
Count	6,600	6,859	7,032	7,127	N/A	N/A	N/A	N/A	N/A	N/A
Average Age	61.2	61.3	61.2	61.3	N/A	N/A	N/A	N/A	N/A	N/A
Average Current Insurance	\$68,260	\$67,136	\$65,986	\$65,518	N/A	N/A	N/A	N/A	N/A	N/A
D. Post-64 Annuitants										
Count	27,091	26,049	24,972	23,760	N/A	N/A	N/A	N/A	N/A	N/A
Average Age	74.5	74.4	74.3	74.3	N/A	N/A	N/A	N/A	N/A	N/A
Average Current Insurance	\$29,558	\$28,982	\$28,445	\$28,843	N/A	N/A	N/A	N/A	N/A	N/A

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State of Wisconsin Postretirement Life Insurance Plan (State)

	Active Members as of January 1, 2020										
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	517	546	-	-	-	-	-	-	-	-	1,063
25-29	887	2,951	348	2	-	-	-	-	-	-	4,188
30-34	814	3,180	1,596	396	6	-	-	-	-	-	5,992
35-39	691	2,688	1,694	1,245	372	4	-	-	-	-	6,694
40-44	463	1,919	1,443	1,254	1,188	364	1	-	-	-	6,632
45-49	435	1,554	1,197	1,065	1,231	1,150	173	3	-	-	6,808
50-54	315	1,383	1,056	951	1,217	1,278	723	124	2	-	7,049
55-59	262	1,173	965	826	1,013	1,066	709	362	98	5	6,479
60-64	134	632	623	597	640	639	485	304	174	46	4,274
65-69	22	127	194	173	181	178	139	130	84	61	1,289
70+	-	-	-	1	-	-	-	-	-	-	1
ALL	4,540	16,153	9,116	6,510	5,848	4,679	2,230	923	358	112	50,469

Summary of Demographic Information

Average Projected Salary											
Average Projected Satary											
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	\$42,387	\$44,919	-	-	-	-	-	-	-	-	\$43,688
25-29	48,661	53,111	58,632	*	-	-	-	-	-	-	52,633
30-34	57,270	58,845	63,413	63,382	*	-	-	-	-	-	60,143
35-39	61,886	63,240	69,950	68,278	64,890	*	-	-	-	-	65,820
40-44	62,806	63,852	73,781	75,630	71,257	67,904	*	-	-	-	69,716
45-49	62,221	64,742	73,938	79,032	79,630	74,896	73,183	*	-	-	73,067
50-54	59,922	63,298	71,767	77,492	80,539	80,179	76,651	73,994	*	-	73,926
55-59	66,830	63,902	68,804	71,275	77,749	82,204	79,139	79,564	71,624	*	73,526
60-64	65,681	63,786	66,389	69,657	76,387	78,967	88,633	90,015	75,523	72,005	74,453
65-69	74,773	60,341	68,459	74,025	73,087	84,327	90,992	102,854	115,248	85,160	81,093
70+	-	-	-	*	-	-	-	-	-	-	*
ALL	56,704	60,174	69,318	73,168	76,271	78,354	80,670	85,581	83,710	78,800	68,319

* Compensation shown for groups of 20 or more.

GASB 74 and 75 Disclosure for Fiscal Year Ending December 31, 2020

State of Wisconsin Postretirement Life Insurance Plan (State)

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

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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 th is attributable to past periods of member service using the Entry Ag Normal cost method based on the requirements of GASB 74 and 75.					

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