



STATE OF WISCONSIN
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Correspondence Memorandum

Date: July 22, 2019

To: Group Insurance Board

From: Tom Rasmussen, Life Insurance Program Manager
 Office of Strategic Health Policy

Subject: Wisconsin Public Employers (WPE) Group Life Insurance 2018 Policy
 Year Report and Plan Management and Financial Reporting

The Department of Employee Trust Funds (ETF) requests the Group Insurance Board (Board) accept the Securian Financial Group (Securian) annual report.

ETF also requests the Board approve the consolidation of life insurance reserve funds.

The results of the 2018 policy year experience are highlighted in the attached letter from Securian Vice President and Actuary, Paul Rudeen. The 2018 policy year highlights and experience can be found in the Financial Experience Report. ETF recommends the Board accept the Securian Annual Report.

State Government Life Insurance Plan Experience

The state life insurance plan (state plan) covers more than 84,000 total lives—both active employees and retirees, an increase of 597 lives from 2017. Total life insurance coverage is more than \$11.7 billion. Claim payments for both the employee plan, and the spouse and dependent plan were lower than expected, which was driven by fewer life and disability claims from employees.

The overall average interest earning rate on all reserve funds held for the plan was 3.09%. This result reflects a conservative investment strategy involving mostly high-grade corporate bonds. The plan ended 2018 with an asset reserve (ratio of plan assets to liabilities) of 74.3%, up from the 2017 ratio of 68.1%. The valuation increase is a result of the 5% premium increase authorized by the Board in November of 2018, along with improved mortality and interest experience. Valuations are calculated based on projections using assumptions for future cash flows, which include the premium rates already approved by the Board. The target valuation goal is 100%.

Reviewed and approved by Eileen K Mallow, Director, Office of Strategic Health Policy

Eileen K Mallow Electronically Signed 8/8/19

Board	Mtg Date	Item #
GIB	8.21.19	7A

Local Government Life Insurance Plan Experience

The local government life insurance plan (local plan) covers 121,363 total lives for both active employees and retirees. The number of insured lives in the local plan increased by less than 100 for active employees and increased by more than 1,700 for retirees in 2018. Total life insurance on active local employees, retirees, spouses and dependents increased by 2% to \$12.7 billion. Claim payments for the employee plan were lower than expected because of fewer life and disability claims. Claims on the spouse and dependent plan were slightly lower than the current target level, which anticipates using the plan's reserves to cover excess claims. The target for claims takes into account that the premium is set lower than is necessary to pay for claims and expenses. This is intentional in order to draw down the stabilization reserve, which is above the targeted level of 50% of annual premium.

The overall interest earnings rate on all reserve funds held for the plan was 3.06%. This differs from the earnings on state assets as crediting for the State is based on amounts and timing of investments for the State coverages, and similarly for the Local coverages. This rate reflects a conservative investment strategy involving mostly high-grade corporate bonds. The plan ended 2018 with an asset reserve of 115.7%, up from 105.6% the previous year. The valuation target is 100%. The increase in valuation was due to improved mortality and interest experience.

Securian Performance Standards for Customer Service

The contract with Securian includes nine quantitative performance standards for timely provision of customer service. Securian attained higher-than-targeted goals in all nine standards.

Securian managed 31,112 transactions subject to the performance standards in 2018 and achieved a performance standard score of 99.95%.

Securian performs a biennial client satisfaction survey of participating employers, with the goal of achieving 90% satisfaction for overall service, processing of enrollment and evidence of insurability, processing of claims, support and training. In 2018, Securian fell below the targeted goal of satisfaction with processing enrollment and evidence of insurability (EOI).

The current process requires that employees mail EOI applications and receive notification of the results by mail. Employers provided feedback on the turnaround time for processing applications and EOIs. Securian's average turnaround time for processing applications once they are received in the mail is less than 24 hours. The delay in processing the applications and EOIs is due to the delay in receiving the paper applications via mail. An online enrollment and reporting solution scheduled to be implemented in 2018 has been postponed as a result of the delayed implementation of ETF's benefit administration system. Securian achieved an 83% level of satisfaction in this area with a targeted goal of 90%. As a result, Securian was penalized \$3,500.

Plan Reserves

The cost of life insurance for retired employees is funded in advance by employer premium contributions and by dividends from the premiums paid by active employees. Each year the values of the plans' assets are compared to the present values of future benefit liabilities for retirees and the present values of future benefits in excess of future premiums for active employees. Please refer to the Experience Report provided by Securian for more specifics.

The following table summarizes this comparison as of December 31, 2018.

		STATE PLAN	LOCAL PLAN
1.	Assets		
	a. Retiree Premium Deposit Fund	\$343,983,569	\$221,815,396
	b. Active Premium Deposit Fund Available for Post-Retirement Funding	\$12,749,998	\$12,564,716
	c. Contingent Liability Reserve	\$0	\$23,082,838
	d. Active stabilization Reserve Available for Post-Retirement Funding	\$46,528,394	\$61,143,963
	e. Total	\$403,261,962	\$318,606,913
2.	Liabilities		
	a. Post-Age 65 Retirees	\$376,201,098	\$228,744,866
	b. Pre-Age 65 Retirees	\$61,074,499	\$40,299,584
	c. Active Employees	\$105,434,448	\$6,399,956
	d. Total	\$542,710,045	\$275,444,406
3.	Unfunded Accrued Liability (2d-1e)	\$139,448,083	(43,162,507)
4.	Total Assets as a Percent of Total Liabilities	74.3%	115.7%

The table below summarizes the valuation calculations from the past seven years.

STATE OF WISCONSIN VALUATION FUNDING ANALYSIS		
ASSETS AS A PERCENTAGE OF NET LIABILITIES		
(\$ MILLIONS)		
DATE	State	Local
12/31/2018	74.3	115.7
12/31/2017	68.1	105.6
12/31/2016	82.1	104.3
12/31/2015	74.0	107.4
12/31/2014	76.4	116.8
12/31/2013	78.2	108.8
12/31/2012	80.4	103.6

Considering the lower-than-targeted valuation on the State plan, ETF will present options for addressing the funding status in a separate memo (Ref. GIB | 08.21.19 | 7B).

Plan Assets and Funding Structure

The assets and funding structure for active life and retiree life are described below.

Active Employees

The cost of Basic, Supplemental and Additional life insurance benefits for active employees is covered by employee and employer premiums. These plans are fully insured by Securian and the annual premium amounts are intended to be at least sufficient to cover each year's claims and expenses. In the financial agreement, Securian guarantees the funding of these plans. This means the Board does not accept any financial risk other than the timely payment of premiums.

Benefits for active employees are paid first from the Stabilization Reserve and second from the Active Premium Deposit Fund (PDF). The Stabilization Reserve and Active PDF are available to support both active employees and retirees.

The Stabilization Reserve is funded by the experience credit from active employees along with an interest credit on the prior balance. The Active PDF is currently funded only by the interest credit on the prior balance. If the Stabilization Reserve were not enough to pay active employee claims and expenses, then the Active PDF is available to make those payments. Though, this has not been necessary, and the Active PDF has had no activity other than interest credits for many years.

Retiree Life Benefits

The cost of post-65 retiree life benefits is supported by premiums paid by employers and by pre-65 retirees. These premiums are paid through age 65 and are intended to pre-fund the cost of post-65 retiree life benefits. Retiree life benefits are insured by Securian. However, in their financial agreement with ETF, Securian does not guarantee

that existing retiree life assets will be enough to cover the full cost of future retiree life benefits. ETF bears the funding risk for this portion of the plan if the current premium rate schedule is inadequate.

Benefits for pre-65 and post-65 retirees are paid first from the Contingent Liability Reserve (CLR) and second from the Retiree Premium Deposit Fund (Retiree PDF). For the State plan, the CLR has a \$0 balance and benefits are paid from the Retiree PDF. For the Local plan, the CLR has a positive balance so the benefits are paid from it rather than from the Retiree PDF. Securian expects the Local CLR will be depleted in the next three to four years, after which the benefits will be paid from the Local Retiree PDF. Both the CLR funds and the Retiree PDF funds are dedicated exclusively to paying retiree life benefits.

The CLR is funded by the experience credit from pre-65 retirees along with an interest credit on the prior CLR balance. Withdrawals from the CLR are used to pay post-65 death claims and related expenses.

The Retiree PDF is funded by employer contributions on behalf of active employees and by interest credits on the prior PDF balance. Withdrawals include the amount of any post-65 death claims and related expenses that were not covered by the CLR.

Consolidation of Reserve Funds

In October 2018, ETF's life insurance actuarial consulting partner, Milliman, reviewed various aspects of the Group Life Insurance Program. Milliman recommended simplifying the plan management and financial reporting by reducing the number of experience accounts held by Securian to support the plan. Securian supports these recommendations.

The agreement between the Board and Securian allows for funds in the Active PDF to be transferred to the Retiree PDF, and the Active PDF would then be closed. This action would not affect the overall plan funding; however, it would result in a higher level of assets dedicated to the retiree life plan. This would result in an improvement to the plan's Governmental Accounting Standards Board (GASB) 74 and 75 funded ratio and simplify the plan's experience reporting.

The State CLR would close because there is a \$0 balance and the Local CLR would close after the funds have been depleted.

If approved, this will mean the retiree plan will be supported only by the Reserve PDF, and the active plan will be supported only by the Stabilization Reserve. The use of one experience account, rather than two, to support each part of the plan, will simplify experience reporting and accounting. This change will also be consistent with best practices in the group life industry.

Therefore, ETF supports Milliman's recommendation to consolidate the funds as described above.

Staff will be available at the Board meeting to answer any questions.

Attachment: Securian Annual Financial Experience Summary and Report 2018

June 30, 2019

The Group Insurance Board
4822 Madison Yards Way
Madison, WI 53705-9100

RE: EMPLOYEE LIFE INSURANCE PLAN
2018 POLICY YEAR HIGHLIGHTS

Ladies and Gentlemen:

This report presents the 2018 policy year experience on the group life insurance plans for employees of the State of Wisconsin and participating local government employers. The most important developments on the plans during 2018 are summarized in this letter. Details may be found in the policy year report on the page(s) indicated following each section. Historical experience is presented on pages 19-33 for the State plan and on pages 47-59 for the local government plan.

STATE PLAN

PLAN GROWTH

- The total number of insured active employees decreased by over 300, while the number of insured retirees increased by over 900. On December 31, 2018, over 51,000 active employees, plus almost 33,000 retired employees, were insured under the plan. Total life insurance in force on active employees, retirees, spouses and dependents increased by 1% to over \$11.7 billion. (Pages 5 and 13)

CLAIMS

- In 2018, claims for the employee plan were lower than expected, driven by low life and disability claims. (Pages 6, 7, 14 and 15)
- Claims on the spouse and dependent plan were lower than target. (Page 11)

OTHER BENEFITS

- In April 2010, the Board approved the addition of an aviation AD&D benefit for work related accidental deaths. The 2018 policy year is the eighth in which a separate experience calculation has been performed for that benefit. There were no claims for this benefit in 2018. (Page 9)
- Retired State employees are allowed to convert the value of their postretirement life insurance to an account to pay health insurance or long-term care insurance premiums. During 2018, a total of 272 retired State employees utilized this option, including 59 new elections in 2018 and 213 continuations of earlier elections. As of December 31, 2018, there were 232 retired State employees utilizing this option. Of these 232 retired employees, 179 employees used the account to pay health insurance premiums and 53 used it for long-term care insurance premiums. Converted values for these employees are deducted from the plan's reserves at the time this option is elected. (Pages 16 and 63)

FUNDING STATUS

- The overall average interest earnings rate on all reserve funds held for the plan was 3.09%. This result reflects a conservative investment strategy involving primarily high-grade corporate bonds.
- The plan ended 2018 with funding at 74.3% of liabilities. A 5% premium rate increase was approved at the November 2018 Group Insurance Board meeting in order to increase the plan funding level. Additional increases will be presented at the August 2019 Group Insurance Board meeting in order to continue toward the goal of fully funding plan liabilities. (Page 17)

LOCAL GOVERNMENT PLAN

PLAN GROWTH

- The plan continued its steady, modest growth. On December 31, 2018, a total of 743 local government employers participated.
- The total number of insured active employees increased by less than 100, while the number of insured retirees increased by over 1,700. On December 31, 2018, over 75,000 active employees, plus over 45,000 retired employees, were insured under the plan. Total life insurance in force on active employees, retirees, spouses and dependents increased by 2% to \$12.7 billion. (Pages 35 and 41)

CLAIMS

- In 2018, claims for the employee plan were lower than expected, driven by low life and disability claims. (Pages 36, 37, 42 and 43)
- Claims in 2018 on the spouse and dependent plan were slightly lower than the current target level, which anticipates using the plan's reserves to cover excess claims. (Page 39)

OTHER BENEFITS

- Retired local employees are allowed to convert the value of their postretirement life insurance to pay health insurance premiums. Usage of this provision among local government retirees has been minimal, as only a small number participate in the Board's health insurance plans. The long-term care insurance plan offered through ETF is not available to local government employees. Only one person used this option during 2018. (Pages 44 and 63)

FUNDING STATUS

- The overall average interest earnings rate on all reserve funds held for the plan was 3.06%. This result reflects a conservative investment strategy involving primarily high-grade corporate bonds.
- The plan ended 2018 with funding at 115.7% of liabilities. (Page 45)

Respectfully submitted,



Paul Rudeen, FSA
Vice President and Actuary
Group Insurance Division

PR:pt



FINANCIAL EXPERIENCE REPORT

State of Wisconsin – Group Insurance Board

January 1, 2018 through December 31, 2018

Policy Number: 2832

Submitted by

Securian Financial

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GROUP LIFE INSURANCE PLANS

I. Plan Summary

The group life insurance plan for State of Wisconsin employees began on January 1, 1958; the group life insurance plan for local government employees began on January 1, 1960. These plans provide term life insurance for both active and retired employees. Employees may also insure their spouses and dependent children.

A. State of Wisconsin - Employee Insurance

Both active and retired State employees are eligible for a basic term insurance plan. Employees also receive accidental death and dismemberment insurance equal to their life insurance until age 65. If an insured employee continues in employment, benefits continue beyond age 65 until the earlier of retirement or attainment of age 70. The waiver of premium benefit provides free insurance to disabled employees under age 70.

Insurance for all employees under age 65 and for active employees ages 65 to 69 is equal to earnings under the Wisconsin Retirement System for the previous calendar year rounded to the next higher thousand dollars. At age 65, insurance reduces to 75% of the insurance then in force. At age 66, insurance reduces to 50% of the insurance in force prior to age 65. For active employees over age 65, these reductions are delayed until the earlier of retirement or attainment of age 70. A retired employee retains lifetime coverage in a reduced amount.

A supplemental insurance plan provides added term insurance for active employees equal to 100% of insurance under the basic plan. Prior to April 24, 1990, an employee could alternatively select supplemental insurance equal to 50% of insurance under the basic plan. Employees enrolled under that alternative may maintain that level of coverage. The supplemental insurance terminates on the later of the employee's 65th birthday or retirement but in no event beyond the employee's 70th birthday.

An additional insurance plan offers extra coverage on an employee-pay-all basis. Effective May 1, 1998, an employee may elect up to three units of additional insurance. Each unit provides coverage equal to 100% of insurance under the basic plan. The additional insurance terminates on the later of the employee's 65th birthday or retirement. An employee who continues in active employment beyond age 70 may maintain the additional insurance coverage by continued payment of premiums.

Employees pay premiums to cover the major portion of the cost of the basic and supplemental coverages during active employment. Employees pay premiums to cover the entire cost of the additional insurance. Employee premium rates in effect during 2018 were as shown in the table on the following page.

GROUP LIFE INSURANCE PLANS

Monthly Premium per \$1,000 of Insurance

<u>Attained Age</u>	<u>1-1-2018 through 12-31-2018</u>		
	<u>Basic</u>	<u>Supplemental</u>	<u>Additional</u>
Under 30	\$.04	\$.04	\$.06
30-34	.04	.04	.06
35-39	.04	.04	.06
40-44	.06	.06	.09
45-49	.10	.10	.15
50-54	.16	.16	.24
55-59	.22	.22	.33
60-64	.30	.30	.45
65-69	.39	.39	.59

Post-age 65 retired employees pay no further premiums. The State contributes premiums equal to 65.25% of employee contributions for basic insurance and 37.25% of employee contributions for supplemental insurance. These contributions are allocated to cover the cost of continuing the basic plan after retirement, to cover the State's portion of the cost of the basic and supplemental plans for active employees, and to cover the cost of the employer aviation AD&D insurance.

B. State of Wisconsin - Spouse and Dependent Insurance

The spouse and dependent insurance plan for State employees was introduced in 1981. Insured State employees may purchase life insurance benefits for spouses and dependents. A dependent child is eligible until age 19 or until age 25 as long as the dependent is a full-time student. A physically or mentally disabled dependent may qualify to continue the coverage past age 25. Premiums for this insurance are paid entirely by employees.

An insured employee may elect either one or two units of coverage. Each unit provides \$10,000 of life insurance for an insured spouse and \$5,000 for each insured dependent child. During 2018, the monthly premium was \$2.50 for each unit of coverage.

C. Local Government Employers - Employee Insurance

All three insurance plans are available to employees of local government employers. A local government employer may elect to offer only the basic plan or may offer the basic plan with either or both the supplemental plan and the additional plan. The employer may select a benefit reduction schedule for the basic plan identical to the State plan or a plan with an age 67 benefit reduction to 25% of insurance in force prior to age 65.

GROUP LIFE INSURANCE PLANS

Employees pay premiums to cover the entire cost of basic, supplemental and additional insurance during active employment and while retired and under age 65. Employee premium rates in effect during 2018 were as follows:

Monthly Premium per \$1,000 of Insurance for Basic, Supplemental and Additional

<u>Attained Age</u>	<u>01-01-2018 through 12-31-2018</u>
Under 30	.05
30-34	.06
35-39	.07
40-44	.08
45-49	.12
50-54	.22
55-59	.39
60-64	.49
65-69	.57

The employer's contribution for the basic plan with a 50% ultimate benefit at ages 66 and later is 40% of employee contributions. For the plan with a benefit reduction to 25% at age 67 and later, the contribution is 20% of employee contributions.

D. Local Government Employers - Spouse and Dependent Insurance

The spouse and dependent insurance plan for local government employees was introduced in 1983. The benefits are the same as those under the plan for State employees.

During 2018, the monthly premium was \$1.75 for each unit of coverage.

GROUP LIFE INSURANCE PLANS

E. Funding Status

The cost of insurance for retired employees is funded in advance by employer premium contributions and by dividends from the premiums paid by active employees. Each year the values of the plans' assets are compared to the present values of future benefit liabilities for retired employees and the present values of future benefits in excess of future premiums for active employees. The following table summarizes this comparison as of December 31, 2018:

	State Plan	Local Government Employers Plan
1. Assets		
a. Retiree Premium Deposit Fund	\$ 343,983,569	\$ 221,815,396
b. Active Premium Deposit Fund Available for Post-Retirement Funding	12,749,998	12,564,716
c. Contingent Liability Reserve	0	23,082,838
d. Active Stabilization Reserve Available for Post-Retirement Funding	46,528,394	61,143,963
e. Total	\$ 403,261,962	\$ 318,606,913
2. Liabilities		
a. Post-Age 65 Retirees	\$ 376,201,098	\$ 228,744,866
b. Pre-Age 65 Retirees	61,074,499	40,299,584
c. Active Employees	105,434,448	6,399,956
d. Total	\$ 542,710,045	\$ 275,444,406
3. Unfunded Accrued Liability (2d - 1e)	\$ 139,448,083	\$ (43,162,507)
4. Total Assets as a Percent of Total Liabilities (1e / 2d)	74.3%	115.7%

F. Underwriters

The group life insurance plan is underwritten by Minnesota Life Insurance Company. With the consent of the Group Insurance Board, the EPIC Life Insurance Company reinsured a portion of the plan during 2018.

G. Financial Basis

The financial agreement between the Group Insurance Board and Minnesota Life establishes the basis for plan finances. All calculations in this policy year report are made in accordance with the financial agreement and amendments approved by the Group Insurance Board.

STATE OF WISCONSIN

II. State of Wisconsin Plan - Active Employees*

Report on operations for 2018, the sixty-first year of the plan.

A. Employee Coverage

	<u>12-31-2017</u>	<u>12-31-2018</u>
1. Employees Insured for Pre-Retirement Insurance		
Basic Plan	51,438	51,131
Supplemental Plan	36,088	35,393
Additional Plan	25,246	24,878
2. Pre-Retirement Life and AD&D Insurance		
Basic Plan	\$ 3,226,948,950	\$ 3,243,661,000
Supplemental Plan	2,301,118,542	2,303,232,000
Additional Plan	3,764,822,806	3,794,277,000

B. Spouse and Dependent Coverage

1. Employees Insured	23,020	23,063
2. Estimated Spouse and Dependent Life Insurance	\$ 559,785,000	\$ 562,535,000

*The active employee plan financial report includes:

- All active employees at ages under 70.
- All active employees at age 70 and over who continue to participate in the additional life insurance benefit.
- Spouses and dependents of active employees.
- All premium contributions by the State toward the cost of pre-retirement life insurance for active employees.

STATE OF WISCONSIN

C. Premium Summary

Employee Contributions

Basic Plan	\$ 4,954,221	
Supplemental Plan	3,568,896	
Additional Plan	8,128,601	
Spouse and Dependent Plan	<u>1,225,564</u>	
		\$ 17,877,282

State Contributions

Basic Plan	\$ 1,733,977	
Supplemental Plan	1,249,114	
Basic Aviation AD&D Plan	111,470	
Supplemental Aviation AD&D Plan	<u>80,300</u>	
		\$ <u>3,174,861</u>

Total Premium \$ 21,052,143

D. Employee Claims

	<u>Basic Plan</u>	<u>Supplemental Plan</u>	<u>Additional Plan</u>	<u>Total</u>
Life	\$ 4,897,656	\$ 2,816,303	\$ 4,305,645	\$ 12,019,604
AD&D	397,868	248,693	446,001	1,092,562
Living Benefit	362,000	328,000	255,000	945,000
Disability	<u>(617,499)</u>	<u>(384,494)</u>	<u>(338,775)</u>	<u>(1,340,768)</u>
Total	\$ 5,040,025	\$ 3,008,502	\$ 4,667,871	\$ 12,716,398

E. Employer Aviation AD&D Claims

	<u>Basic Plan</u>	<u>Supplemental Plan</u>	<u>Additional Plan</u>	<u>Total</u>
AD&D	\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>
Total	\$ 0	\$ 0	\$ 0	\$ 0

F. Spouse and Dependent Claims

	<u>Spouse</u>	<u>Dependent</u>		<u>Total</u>
Life	\$ 741,290	\$ 115,237		\$ 856,527
Living Benefit	<u>0</u>	<u>0</u>		<u>0</u>
Total	\$ 741,290	\$ 115,237		\$ 856,527

STATE OF WISCONSIN

G. Financial Experience - Active Employee Insurance

1. Premium

Employee Contributions	\$ 16,651,718	
Employer Contributions	<u>2,983,091</u>	
 Total Premium		 \$ 19,634,809

2. Claim Charges

Death Claims	\$ 12,019,604	
AD&D Claims	1,092,562	
Living Benefit Claims	945,000	
Increase in Disability Claim Reserve	(1,340,768)	
Pooled Claims	7,588	
Pool Charge	1,713,776	
Conversion Charge	29,296	
Catastrophic Loss Credit	<u>0</u>	
 Total Claim Charges		 \$ 14,467,058

3. Expense Charges

Minnesota Life Expenses	\$ 821,717	
Reinsurance Expense	3,527	
Risk Charge	<u>0</u>	
 Total Expense Charges		 \$ 825,244

4. Tax Charges

State Premium Tax	\$ 392,696	
Federal Income Tax	<u>28,872</u>	
 Total Tax Charges		 \$ 421,568

5. Interest Credits/Charges

On Premium	\$ 168,468	
On Disability Claim Reserve	908,254	
On Claims Paid	(99,341)	
On Expense Charges, Pool Charge & Conversion Charge	<u>(24,840)</u>	
 Total Interest Credits/Charges		 \$ 952,541

6. State Internal Administration Expense \$ 322,082

7. Audit/Consultant Service Charge \$ 0

8. Contribution to Stabilization Reserve [(1)-(2)-(3)-(4)+(5)-(6)-(7)] \$ 4,551,398

STATE OF WISCONSIN

H. Reserve Summary

1. Premium Deposit Fund

Balance on 12-31-2017	\$	12,360,619
Interest Credit		389,379
Withdrawals on 12-31-2018		<u>0</u>
Balance on 12-31-2018	\$	12,749,998

2. Stabilization Reserve

Balance on 12-31-2017	\$	45,498,726
Interest Credit		1,386,972
Contribution on 12-31-2018		4,551,398
Withdrawals on 12-31-2018		<u>0</u>
Balance on 12-31-2018	\$	51,437,096

Interest Rate on Premium Deposit Fund and Stabilization Reserve in 2018 3.07%

I. Stop-Loss Calculation for Active Employee Insurance

Stop-Loss Limit	\$	27,531,024
Claim Charges	\$	14,274,736
Expense Charges		<u>1,217,940</u>
Total Charges	\$	15,492,676
Catastrophic Loss Credit	\$	0

STATE OF WISCONSIN

J. Financial Experience - Employer Aviation AD&D Insurance

1. Premium		\$	191,770
2. Claim Charges			
AD&D Claims	\$	0	
Pooled Claims		0	
Pool Charge		11,990	
Catastrophic Loss Credit		<u>0</u>	
Total Claim Charges		\$	11,990
3. Expense Charges			
Risk Charge	\$	<u>1,294</u>	
Total Expense Charges		\$	1,294
4. Tax Charges			
State Premium Tax	\$	<u>3,835</u>	
Total Tax Charges		\$	3,835
5. Interest Credits/Charges			
On Premium	\$	1,649	
On Claims Paid		0	
On Expense Charges & Tax Charges		<u>(128)</u>	
Total Interest Credits/Charges		\$	1,521
6. Addition to Stabilization Reserve [(1)-(2)-(3)-(4)+(5)]		\$	176,172
7. Stabilization Reserve			
Stabilization Reserve on 12-31-2017		\$	1,198,276
Addition to Reserve on 12-31-2018			176,172
Interest on Stabilization Reserve in 2018			<u>33,704</u>
Stabilization Reserve on 12-31-2018		\$	1,408,152

STATE OF WISCONSIN

K. Financial Experience - Spouse and Dependent Insurance

1. Premium		\$ 1,225,564
2. Claim Charges		
Death Claims	\$ 856,527	
Living Benefit Claims	0	
Conversion Charge	8,100	
Catastrophic Loss Credit	<u>0</u>	
Total Claim Charges		\$ 864,627
3. Expense Charges		
Minnesota Life Expenses	\$ 22,673	
Risk Charge	<u>2,451</u>	
Total Expense Charges		\$ 25,124
4. Tax Charges		
State Premium Tax	\$ 24,511	
Federal Income Tax	<u>1,519</u>	
Total Tax Charges		\$ 26,030
5. Interest Credits/Charges		
On Premium	\$ 10,470	
On Claims Paid	(6,119)	
On Expense Charges & Conversion Charge	<u>(932)</u>	
Total Interest Credits/Charges		\$ 3,419
6. State Internal Administration Expense		\$ 64,968
7. Audit/Consultant Service Charge		\$ 0
8. Addition to Stabilization Reserve [(1)-(2)-(3)-(4)+(5)-(6)-(7)]		\$ 248,234
9. Stabilization Reserve		
Stabilization Reserve on 12-31-2017		\$ 869,725
Addition to Reserve on 12-31-2018		248,234
Interest on Stabilization Reserve in 2018		<u>25,132</u>
Stabilization Reserve on 12-31-2018		\$ 1,143,091

L. Stop-Loss Calculation for Spouse and Dependent Insurance

Stop-Loss Limit		\$ 1,593,233
Claim Charges		798,875
Expense Charges		<u>49,635</u>
Total Charges		\$ 848,510
Catastrophic Loss Credit		\$ 0

STATE OF WISCONSIN

III. State of Wisconsin Plan - Retirees*

Report on operations for 2018, the sixty-first year of the plan.

A. Retiree Coverage

	<u>12-31-2017</u>	<u>12-31-2018</u>
1. Retirees Insured for Pre-Age 65 Insurance		
Basic Plan	7,032	6,859
Supplemental Plan	4,523	4,312
Additional Plan	2,091	2,050
2. Pre-Age 65 Life and AD&D Insurance		
Basic Plan	\$ 464,017,000	\$ 460,483,000
Supplemental Plan	293,738,000	284,498,000
Additional Plan	243,715,000	249,044,000
3. Retirees Insured for Post-Age 65 Insurance	24,973	26,050
4. Post-Age 65 Life Insurance	\$ 735,296,500	\$ 779,130,250

*The retiree plan financial report includes:

- All retirees at age 65 and over, and all active employees at age 70 and over, who receive a post-retirement life insurance benefit with no further premium payments.
- All retirees under age 65 who receive post-retirement life insurance benefits based on continued premium payments.
- All funding contributions by the State toward future post-retirement life insurance for currently active employees.

STATE OF WISCONSIN

B. Premium Summary

Pre-Age 65 Retiree Contributions

Basic Plan	\$ 1,813,527	
Supplemental Plan	1,277,909	
Additional Plan	<u>515,467</u>	
		\$ 3,606,903

State Contributions to Premium Deposit Fund \$ 1,387,182

Total Premium \$ 4,994,085

C. Retiree Claims

	<u>Basic Plan</u>	<u>Supplemental Plan</u>	<u>Additional Plan</u>	<u>Total</u>
1. Pre-Age 65 Life and AD&D Insurance				
Life	\$ 1,600,282	\$ 1,219,733	\$ 1,383,186	\$ 4,203,201
AD&D	43,106	0	0	43,106
Living Benefit	<u>72,000</u>	<u>72,000</u>	<u>72,000</u>	<u>216,000</u>
Total	\$ 1,715,388	\$ 1,291,733	\$ 1,455,186	\$ 4,462,307
2. Post-Age 65 Life Insurance				
Life	\$ 17,130,367			\$ 17,130,367
Living Benefit	<u>112,000</u>			<u>112,000</u>
Total	\$ 17,242,367			\$ 17,242,367

STATE OF WISCONSIN

D. Financial Experience - Pre-Age 65 Retiree Insurance

1. Premium

Pre-Age 65 Contributions	\$	3,606,903
Withdrawal from Premium Deposit Fund on 12-31-2018		<u>1,376,573</u>

Total Premium		\$ 4,983,476
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2. Claim Charges

Death Claims	\$	4,203,201
AD&D Claims		43,106
Living Benefit Claims		216,000
Pooled Claims		0
Pool Charge		149,283
Conversion Charge		0
Catastrophic Loss Credit		<u>0</u>

Total Claim Charges		\$ 4,611,590
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3. Expense Charges

Minnesota Life Expenses	\$	209,002
Reinsurance Expense		897
Risk Charge		<u>0</u>

Total Expense Charges		\$ 209,899
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4. Tax Charges

State Premium Tax	\$	99,669
Federal Income Tax		<u>6,117</u>

Total Tax Charges		\$ 105,786
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5. Interest Credits/Charges

On Premium	\$	38,001
On Claims Paid		(28,870)
On Expense Charges, Pool Charge & Conversion Charge		<u>(3,947)</u>

Total Interest Credits/Charges		\$ 5,184
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6. State Internal Administration Expense		\$ 53,885
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7. Actuarial Service Charge		\$ 7,500
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8. Experience Credit [(1)-(2)-(3)-(4)+(5)-(6)-(7)]		\$ 0
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The Experience Credit is deposited in the Contingent Liability Reserve.

STATE OF WISCONSIN

E. Financial Experience - Post-Age 65 Retiree Insurance

1. Premium Deposit Fund

Premium Deposit Fund on 12-31-2017	\$ 351,972,292
Contributions for Active Employees During 2018	1,387,182
Withdrawal on 12-31-2018 for Pre-Age 65 Retiree Insurance	(1,376,573)
Post-Age 65 Death Claims	(17,242,367)
Minnesota Life Expenses on Post-Age 65 Retiree Death Claims	(289,293)
State Premium Tax	(358,093)
Risk Charge	(14,903)
Withdrawals of Postretirement Life Insurance Values to pay Health and Long-Term Care Insurance Premiums	(932,796)
Interest on Premium Deposit Fund in 2018	<u>10,838,120</u>
Premium Deposit Fund on 12-31-2018	\$ 343,983,569

Interest Rate on Premium Deposit Fund Reserve in 2018	3.14%
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STATE OF WISCONSIN

F. Summary of Assets and Liabilities for Post-Retirement Benefits on December 31

	<u>2017</u>	<u>2018</u>
1. Assets		
a. Retiree Premium Deposit Fund	\$ 351,972,292	\$ 343,983,569
b. Active Premium Deposit Fund Available for Post-Retirement Funding	12,360,619	12,749,998
c. Contingent Liability Reserve	0	0
d. Active Stabilization Reserve Available for Post-Retirement Funding	40,827,781	46,528,394
e. Total	\$ 405,160,692	\$ 403,261,962
2. Liabilities		
a. Post-Age 65 Retirees	\$ 369,544,428	\$ 376,201,098
b. Pre-Age 65 Retirees	67,934,115	61,074,499
c. Active Employees	157,661,548	105,434,448
d. Total	\$ 595,140,091	\$ 542,710,045
3. Unfunded Accrued Liability [2(d) - 1(e)]		
	\$ 189,979,399	\$ 139,448,083
4. Total Assets as a Percent of Total Liabilities [1(e)/2(d)]		
	68.1%	74.3%

Definitions of asset values:

- Retiree Premium Deposit Fund: total retiree premium deposit fund assets
- Active Premium Deposit Fund Available for Post-Retirement Funding: active premium deposit fund assets in excess of the active target reserve level. The target level of active premium deposit fund plus active stabilization reserve equals 25% of active plan premium.
- Contingent Liability Reserve: total contingent liability reserve assets
- Active Stabilization Reserve Available for Post-Retirement Funding: active stabilization reserve assets in excess of the active target reserve level. The target level of active premium deposit fund plus active stabilization reserve equals 25% of active plan premium.

Definitions of liability values:

- Post-Age 65 Retirees: present value of future claims
- Pre-Age 65 Retirees: present value of future claims minus present value of future premiums
- Active Employees: present values of future active employment claims and future post-retirement claims for active employees minus present values of future State and employee premium contributions

Funding Assumptions appear on page 61 of this report.

G. Stop-Loss Calculation for Retiree Insurance

Stop-Loss Limit	\$ 32,148,161	
Claim Charges	\$ 21,878,155	
Expense Charges	971,857	
Total Charges	\$ 22,850,010	
Catastrophic Loss Credit	\$ 0	

STATE OF WISCONSIN

IV. Historical Experience

A. Cumulative Financial Experience on Active Employee Insurance - 2008 through 2018

Employee Contributions		\$ 169,936,217
State Contributions		
Basic Plan	\$ 18,924,269	
Supplemental Plan	13,607,759	
		32,532,028
Total Premium		\$ 202,468,245
Reserve Brought Forward on January 1, 2008		\$ 8,057,225
Death Claims	\$ 125,963,966	
AD&D Claims	8,844,228	
Living Benefit Claims	7,773,000	
Increase in Disability Claim Reserve	6,624,431	
Pooled Claims	(1,397,535)	
Pool Charge	10,290,873	
Conversion Charge	158,656	
Catastrophic Loss Credit	0	
Total Claim Charges		\$ 158,257,619
Premium Deposit Fund on 12-31-2018	\$ 12,749,998	
Stabilization Reserve on 12-31-2018	51,437,096	
Total		\$ 64,187,094
Payments to State		
State Premium Tax	\$ 4,049,366	
State Internal Administration Expense	2,646,586	
Actuarial Service Charge	0	
Audit/Consultant Service Charge	9,177	
Legal Expense	0	
Total		\$ 6,705,129
Excess of Disbursement and Reserves Over Premium and Reserve Brought Forward on January 1, 2008		\$ 18,624,372
Minnesota Life Expenses	\$ 8,000,098	
Reinsurance Expense	34,766	
Risk Charge	117,026	
Federal Income Tax Charge	254,066	
Total	\$ 8,405,956	
Interest Credited to Plan	27,030,328	
Interest Credited to Plan Less Cost		\$ 18,624,372

STATE OF WISCONSIN

B. Historical Statistics - Active Employee Insurance - 2008 and Later

Year	Insurance in Force At End of Year	Employee Contributions	Premium		Total
			State Contributions		
			Basic Plan	Supplemental Premium	
2018	9,341,170,000	\$16,651,718	\$1,733,977	\$1,249,114	\$19,634,809
2017	9,292,890,298	15,820,410	1,666,135	1,197,236	18,683,781
2016	8,997,561,000	15,515,646	1,648,564	1,194,245	18,358,455
2015	8,613,537,000	15,275,946	1,647,053	1,198,117	18,121,116
2014	8,452,027,000	14,891,956	1,624,221	1,185,512	17,701,689
2013	8,181,289,000	14,270,577	1,570,301	1,148,173	16,989,051
2012	7,809,378,000	13,858,600	1,542,392	1,131,700	16,532,692
2011	7,884,065,000	15,323,502	1,887,488	1,130,589	18,341,579
2010	8,152,346,000	17,069,440	1,954,805	1,452,757	20,477,002
2009	8,098,961,000	16,364,530	1,893,115	1,408,385	19,666,030
2008	7,527,518,000	<u>14,893,892</u>	<u>1,756,218</u>	<u>1,311,931</u>	<u>17,962,041</u>
Totals		\$169,936,217	\$18,924,269	\$13,607,759	\$202,468,245

Claims

Year	Death Losses			Living Benefits	Disability Losses	Total Claims
	Life	AD&D	Total			
2018	\$12,019,604	\$1,092,562	\$13,112,166	\$945,000	(\$1,340,768)	\$12,716,398
2017	12,372,627	736,166	13,108,793	793,000	(954,549)	12,947,244
2016	13,238,707	881,336	14,120,043	835,000	(474,575)	14,480,468
2015	10,437,142	45,440	10,482,582	1,091,000	6,070	11,579,652
2014	9,502,514	1,221,893	10,724,407	767,000	1,512,237	13,003,644
2013	12,685,738	158,866	12,844,604	215,000	322,717	13,382,321
2012	12,293,688	1,176,864	13,470,552	1,185,000	1,342,529	15,998,081
2011	12,844,361	994,280	13,838,641	1,191,000	1,184,198	16,213,839
2010	11,065,435	654,500	11,719,935	162,000	1,495,964	13,377,899
2009	11,008,714	934,814	11,943,528	264,000	1,696,753	13,904,281
2008	<u>8,495,436</u>	<u>947,507</u>	<u>9,442,943</u>	<u>325,000</u>	<u>1,833,855</u>	<u>11,601,798</u>
Totals	\$125,963,966	\$8,844,228	\$134,808,194	\$7,773,000	\$6,624,431	\$149,205,625

Year	Total Claims	Conversion Charge	Pooled Claims	Pool Charge	Total Claim Charges
2018	\$12,716,398	\$29,296	\$7,588	\$1,713,776	\$14,467,058
2017	12,947,244	7,260	(801,675)	1,483,880	13,636,709
2016	14,480,468	24,000	(96,410)	1,421,117	15,829,175
2015	11,579,652	44,820	(77,934)	1,254,801	12,801,339
2014	13,003,644	30,300	(4,392)	903,382	13,932,934
2013	13,382,321	8,700	(20,911)	731,188	14,101,298
2012	15,998,081	14,280	13,466	728,305	16,754,132
2011	16,213,839	0	(417,267)	662,830	16,459,402
2010	13,377,899	0	0	622,396	14,000,295
2009	13,904,281	0	0	415,524	14,319,805
2008	<u>11,601,798</u>	<u>0</u>	<u>0</u>	<u>353,674</u>	<u>11,955,472</u>
Totals	\$149,205,625	\$158,656	(\$1,397,535)	\$10,290,873	\$158,257,619

STATE OF WISCONSIN

B. Historical Statistics - Active Employee Insurance - 2008 and Later (cont'd)

Year	Overhead Cost						State Internal Administration Expense	Audit/ Consultant Charge	Interest Credits/ Charges
	Insurance Company Expense	Reinsurance Expense	Risk Charge	State Premium Tax	Federal Income Tax	Total			
2018	\$821,717	\$3,527	\$0	\$392,696	\$28,872	\$1,246,812	\$322,082	\$0	\$44,287
2017	781,916	3,355	0	373,676	5,839	1,164,785	204,408	0	42,171
2016	768,301	3,297	0	367,169	5,523	1,144,290	419,785	0	21,443
2015	758,369	3,255	0	362,422	6,885	1,130,931	198,529	0	40,064
2014	740,816	3,179	0	354,034	6,541	1,104,570	515,107	0	40,569
2013	710,992	3,051	0	339,781	3,025	1,056,849	0	0	39,815
2012	676,289	2,888	0	330,654	1,791	1,011,622	225,516	0	23,343
2011	715,322	3,023	0	366,832	26,714	1,111,891	263,769	3,062	65,019
2010	713,009	3,237	22,909	409,540	58,728	1,207,423	190,230	6,115	114,323
2009	684,771	3,109	45,156	393,321	59,908	1,186,265	180,736	0	143,259
2008	<u>628,596</u>	<u>2,845</u>	<u>48,961</u>	<u>359,241</u>	<u>50,240</u>	<u>1,089,883</u>	<u>126,424</u>	<u>0</u>	<u>224,462</u>
Totals	\$8,000,098	\$34,766	\$117,026	\$4,049,366	\$254,066	\$12,455,321	\$2,646,586	\$9,177	\$798,755

Year	Reserves			
	Disability Reserve	Stabilization Reserve	Premium Deposit Fund	Total
2018	\$27,582,514	\$51,437,096	\$12,749,998	\$91,769,608
2017	28,923,282	45,498,726	12,360,619	86,782,627
2016	29,877,831	39,598,519	11,977,289	81,453,639
2015	30,352,406	36,418,539	11,580,344	78,351,289
2014	30,346,336	30,250,604	11,168,671	71,765,611
2013	28,834,099	26,006,603	10,752,168	65,592,870
2012	28,511,382	22,123,903	10,326,781	60,962,066
2011	27,168,853	21,512,559	9,895,287	58,576,699
2010	25,984,655	18,903,224	9,447,632	54,335,511
2009	24,488,691	11,882,916	8,981,728	45,353,335
2008	22,791,938	6,199,293	8,514,260	37,505,491

Year	Interest Credits on Reserves			
	Disability Reserve	Stabilization Reserve	Premium Deposit Fund	Total
2018	\$908,254	\$1,386,972	\$389,379	\$2,684,605
2017	947,672	1,232,486	383,330	2,563,488
2016	1,017,821	1,175,511	396,945	2,590,277
2015	1,094,059	1,043,495	411,673	2,549,227
2014	1,105,436	948,918	416,503	2,470,857
2013	1,151,615	860,366	425,387	2,437,368
2012	1,176,622	869,957	431,494	2,478,073
2011	1,222,715	818,146	447,655	2,488,516
2010	1,265,665	567,381	465,904	2,298,950
2009	1,245,596	315,544	467,468	2,028,608
2008	<u>1,184,569</u>	<u>0</u>	<u>457,035</u>	<u>1,641,604</u>
Totals	\$12,320,024	\$9,218,776	\$4,692,773	\$26,231,573

STATE OF WISCONSIN

C. Cumulative Financial Experience on Employer Aviation AD&D Insurance - 2011 through 2018

Employer Contribution		\$	1,409,207
AD&D Claims	\$		0
Pooled Claims			0
Pool Charge			97,995
Catastrophic Loss Credit			<u>0</u>
Total Claim Charges		\$	97,995
Stabilization Reserve on 12-31-2018		\$	1,408,152
Payments to State			
State Premium Tax	\$		<u>28,183</u>
Total		\$	28,183
Payment from Stabilization Reserve for Premiums		\$	0
Excess of Disbursement and Reserves over Premium		\$	125,123
Risk Charge	\$		<u>9,512</u>
Total	\$		9,512
Interest Credited to Plan			<u>134,635</u>
Interest Credited to Plan Less Cost		\$	125,123

STATE OF WISCONSIN

D. Historical Statistics - Employer Aviation AD&D Insurance

<u>Year</u>	<u>Employer Contributions</u>	<u>Death Losses</u>	<u>Pooled Claims</u>	<u>Pool Charge</u>	<u>Total Claim Charges</u>
2018	\$191,770	\$0	\$0	\$11,990	\$11,990
2017	184,074	0	0	11,990	11,990
2016	182,752	0	0	11,990	11,990
2015	182,904	0	0	12,405	12,405
2014	180,626	0	0	12,405	12,405
2013	174,759	0	0	12,405	12,405
2012	171,906	0	0	12,405	12,405
2011	<u>140,416</u>	<u>0</u>	<u>0</u>	<u>12,405</u>	<u>12,405</u>
Totals	\$1,409,207	\$0	\$0	\$97,995	\$97,995

<u>Year</u>	<u>Overhead Cost</u>			
	<u>Risk Charge</u>	<u>Catastrophic Loss Credit</u>	<u>State Premium Tax</u>	<u>Total</u>
2018	\$1,294	\$0	\$3,835	\$5,129
2017	1,242	0	3,681	4,923
2016	1,234	0	3,655	4,889
2015	1,235	0	3,658	4,893
2014	1,219	0	3,613	4,832
2013	1,180	0	3,495	4,675
2012	1,160	0	3,438	4,598
2011	<u>948</u>	<u>0</u>	<u>2,808</u>	<u>3,756</u>
Totals	\$9,512	\$0	\$28,183	\$37,695

<u>Year</u>	<u>Interest Credits</u>		
	<u>Stabilization Reserve</u>	<u>On Stabilization Reserve</u>	<u>Current Premium Less Charges</u>
2018	\$1,408,152	\$33,704	\$1,521
2017	1,198,276	27,080	901
2016	1,003,134	22,576	885
2015	813,800	17,961	916
2014	629,317	13,058	902
2013	451,968	8,266	867
2012	285,156	4,352	857
2011	125,044	<u>0</u>	<u>789</u>
Totals		\$126,997	\$7,638

STATE OF WISCONSIN

E. Cumulative Financial Experience on Spouse and Dependent Insurance - 1981 through 2018

Employee Contribution		\$ 35,107,753
Death Claims	\$ 32,331,096	
Living Benefit Claims	190,000	
Conversion Charge	273,015	
Catastrophic Loss Credit	<u>(313,347)</u>	
Total Claim Charges		\$ 32,480,764
Stabilization Reserve on 12-31-2018		\$ 1,143,091
Payments to State		
State Premium Tax	\$ 702,155	
State Internal Administration Expense	1,501,237	
Audit/Consultant Service Charge	<u>15,767</u>	
Total		\$ 2,219,159
Payment from Stabilization Reserve for Premiums		\$ 35,399
Excess of Disbursement and Reserves over Premium		\$ 770,660
Minnesota Life Expenses	\$ 639,715	
Risk Charge	63,246	
Federal Income Tax Charge	<u>67,466</u>	
Total	\$ 770,427	
Interest Credited to Plan	<u>1,541,087</u>	
Interest Credited to Plan Less Cost		\$ 770,660

STATE OF WISCONSIN

F. Historical Statistics - Spouse and Dependent Insurance

<u>Year</u>	<u>Employee Contributions</u>	<u>Death Losses</u>	<u>Living Benefits</u>	<u>Conversion Costs</u>	<u>Total Claim Charges</u>
2018	\$1,225,564	\$856,527	\$0	\$8,100	\$864,627
2017	1,201,756	841,765	40,000	8,040	889,805
2016	1,193,323	966,262	20,000	13,800	1,000,062
2015	1,204,063	886,808	0	15,600	902,408
2014	1,216,922	1,071,247	20,000	15,120	1,106,367
2013	1,221,519	1,308,985	20,000	5,340	1,334,325
2012	1,233,041	1,027,236	0	7,200	1,034,436
2011	1,275,001	1,241,135	20,000	1,200	1,262,335
2010	1,253,513	939,101	20,000	0	959,101
2009	1,052,748	1,115,936	0	0	1,115,936
1981- 2008	<u>23,030,303</u>	<u>22,076,094</u>	<u>50,000</u>	<u>198,615</u>	<u>22,324,709</u>
Total	\$35,107,753	\$32,331,096	\$190,000	\$273,015	\$32,794,111

Overhead Cost

<u>Year</u>	<u>Insurance Company Expense</u>	<u>Risk Charge</u>	<u>Catastrophic Loss Credit</u>	<u>State Premium Tax</u>	<u>Federal Income Tax</u>	<u>Total</u>	<u>State Internal Administration Expense</u>	<u>Audit/ Consultant Charge</u>
2018	\$22,673	\$2,451	\$0	\$24,511	\$1,519	\$51,154	\$64,968	\$0
2017	22,232	2,404	0	24,035	237	48,908	79,932	0
2016	22,076	2,387	0	23,866	335	48,664	91,391	0
2015	22,275	2,408	0	24,081	644	49,408	38,029	0
2014	22,513	2,434	0	24,338	961	50,246	113,603	0
2013	22,598	2,443	0	24,430	1,048	50,519	0	0
2012	22,811	2,466	0	24,661	1,108	51,046	52,096	0
2011	23,588	2,550	0	25,500	1,595	53,233	69,352	221
2010	23,876	2,507	0	25,070	1,567	53,020	36,037	452
2009	24,213	2,105	0	21,055	(430)	46,943	43,980	0
1981- 2008	<u>410,860</u>	<u>39,091</u>	<u>(313,347)</u>	<u>460,608</u>	<u>58,882</u>	<u>656,094</u>	<u>911,849</u>	<u>15,094</u>
Total	\$639,715	\$63,246	(\$313,347)	\$702,155	\$67,466	\$1,159,235	\$1,501,237	\$15,767

Interest Credits

<u>Year</u>	<u>Insurance In Force At End of Year</u>	<u>Stabilization Reserve</u>	<u>On Stabilization Reserve</u>	<u>Current Premium Less Charges</u>
2018	\$562,535,000	\$1,143,091	\$25,132	\$3,419
2017	559,785,000	869,725	18,037	1,869
2016	568,225,000	666,708	16,601	1,604
2015	566,585,000	595,297	11,647	3,276
2014	570,825,000	366,156	13,328	1,186
2013	562,840,000	404,936	18,683	1,354
2012	561,610,000	548,224	17,311	2,006
2011	567,755,000	433,444	24,058	1,695
2010	601,900,000	517,831	18,277	5,463
2009	605,205,000	289,188	26,401	3,383
1981- 2008	594,715,000	413,515	<u>1,202,835</u>	<u>123,522</u>
Total			\$1,392,310	\$148,777

STATE OF WISCONSIN

G. Cumulative Financial Experience on Retiree Insurance - 2008 through 2018

Retiree Contributions		\$ 38,607,653
State Contributions		<u>15,135,303</u>
Total Premium		\$ 53,742,956
Reserve Brought Forward on January 1, 2008		\$ 329,768,061
Death Claims	\$ 183,796,160	
AD&D Claims	1,143,779	
Living Benefit Claims	754,250	
Pooled Claims	(15,007)	
Pool Charge	929,574	
Conversion Charge	0	
Catastrophic Loss Credit	<u>0</u>	
Total Claim Charges		\$ 186,608,756
Contingent Liability Reserve on 12-31-2018	\$ 0	
Premium Deposit Fund on 12-31-2018	<u>343,983,569</u>	
Total		\$ 343,983,569
Payments to State		
State Premium Tax	\$ 3,922,258	
State Internal Administration Expense	501,894	
Actuarial Service Charge	<u>167,740</u>	
Total		\$ 4,591,892
Withdrawals of Postretirement Life Insurance Values to Pay Health and Long-Term Care Insurance Premiums		\$ 8,031,620
Excess of Disbursement and Reserves Over Premium and Reserve Brought Forward on January 1, 2008		\$ 159,704,820
Minnesota Life Expenses	\$ 4,426,464	
Reinsurance Expense	9,239	
Risk Charge	268,077	
Federal Income Tax Charge	<u>68,445</u>	
Total	\$ 4,772,225	
Interest Credited to Plan	<u>164,477,045</u>	
Interest Credited to Plan Less Cost		\$ 159,704,820

STATE OF WISCONSIN

H. Historical Statistics - Retiree Insurance - 2008 and Later

Year	Insurance In Force at End of Year		Premium		
	Pre-Age 65	Post-Age 65	Pre-Age 65 Retiree Contributions	State Contributions for Active Employees	Total Premium
	2018	994,025,000	779,130,250	\$3,606,903	\$1,387,182
2017	1,001,470,000	735,296,500	3,609,284	1,332,953	4,942,237
2016	1,002,871,000	685,321,832	3,604,916	1,318,862	4,923,778
2015	972,832,000	628,842,832	3,400,362	1,317,549	4,717,911
2014	934,984,000	581,764,582	3,356,082	1,299,230	4,655,312
2013	957,904,000	536,245,750	3,485,410	1,254,575	4,739,985
2012	1,002,851,000	493,214,250	3,741,193	1,231,835	4,973,028
2011	1,049,228,000	449,896,500	3,803,006	1,509,822	5,312,828
2010	807,734,000	396,600,250	3,531,803	1,563,881	5,095,684
2009	767,497,000	371,714,750	3,316,473	1,514,440	4,830,913
2008	740,099,000	348,802,000	<u>3,152,221</u>	<u>1,404,974</u>	<u>4,557,195</u>
Totals			\$38,607,653	\$15,135,303	\$53,742,956

Claims

Year	Death Losses				Pre-Age 65 Living Benefits	Post-Age 65 Living Benefits	Total Claims
	Pre-Age 65 Life	Pre-Age 65 AD&D	Post -Age 65 Life	Total			
2018	\$4,203,201	\$43,106	\$17,130,367	\$21,376,674	\$216,000	\$112,000	\$21,704,674
2017	2,964,161	0	16,167,529	19,131,690	196,000	60,000	19,387,690
2016	6,569,324	54,024	13,896,647	20,519,995	39,000	0	20,558,995
2015	3,864,466	0	14,179,633	18,044,099	0	20,000	18,064,099
2014	3,740,124	92,172	14,772,467	18,604,763	0	24,500	18,629,263
2013	4,492,915	125,384	12,894,445	17,512,744	0	17,000	17,529,744
2012	4,842,877	82,782	12,039,820	16,965,479	0	0	16,965,479
2011	3,904,690	290,730	9,880,703	14,076,123	0	0	14,076,123
2010	3,290,890	238,764	10,472,997	14,002,651	0	0	14,002,651
2009	2,558,329	216,817	9,299,657	12,074,803	0	50,250	12,125,053
2008	<u>3,942,991</u>	<u>0</u>	<u>8,687,927</u>	<u>12,630,918</u>	<u>0</u>	<u>19,500</u>	<u>12,650,418</u>
Totals	\$44,373,968	\$1,143,779	\$139,422,192	\$184,939,939	\$451,000	\$303,250	\$185,694,189

Year	Total Claims	Conversion Charge	Pooled Claims	Pool Charge	Total Claim Charges
2018	\$21,704,674	\$0	\$0	\$149,283	\$21,853,957
2017	19,387,690	0	0	150,868	19,538,558
2016	20,558,995	0	0	127,215	20,686,210
2015	18,064,099	0	(15,007)	105,318	18,154,410
2014	18,629,263	0	0	91,464	18,720,727
2013	17,529,744	0	0	75,289	17,605,033
2012	16,965,479	0	0	70,191	17,035,670
2011	14,076,123	0	0	59,925	14,136,048
2010	14,002,651	0	0	44,041	14,046,692
2009	12,125,053	0	0	36,768	12,161,821
2008	<u>12,650,418</u>	<u>0</u>	<u>0</u>	<u>19,212</u>	<u>12,669,630</u>
Totals	\$185,694,189	\$0	(\$15,007)	\$929,574	\$186,608,756

STATE OF WISCONSIN

H. Historical Statistics - Retiree Insurance - 2008 and Later (cont'd)

Year	Overhead Cost					Total	Actuarial Service Charge	State Internal Administration Expense	Interest Credits/Charges
	Insurance Company Expense	Reinsurance Expense	Risk Charge	State Premium Tax	Federal Income Tax				
2018	\$498,296	\$897	\$14,903	\$457,762	\$6,117	\$977,975	\$7,500	\$53,885	\$5,184
2017	479,402	888	16,991	410,171	1,135	908,587	21,500	41,662	1,757
2016	447,825	885	19,203	433,427	1,877	903,217	0	85,560	3,637
2015	433,768	847	16,007	380,473	761	831,856	0	40,464	3,064
2014	430,059	836	15,476	393,878	1,385	841,634	36,000	104,989	9,514
2013	407,919	851	14,631	368,093	3,239	794,733	12,000	0	7,098
2012	397,630	868	14,728	357,523	6,785	777,534	22,000	45,964	4,922
2011	373,492	875	100,229	299,388	12,431	786,415	0	53,761	6,767
2010	341,652	806	22,142	295,725	12,331	672,656	41,435	38,772	13,322
2009	317,468	764	17,105	260,348	11,673	607,358	0	36,837	24,523
2008	<u>298,953</u>	<u>722</u>	<u>16,662</u>	<u>265,470</u>	<u>10,711</u>	<u>592,518</u>	<u>27,305</u>	<u>0</u>	<u>15,954</u>
Totals	\$4,426,464	\$9,239	\$268,077	\$3,922,258	\$68,445	\$8,694,483	\$167,740	\$501,894	\$95,742

Year	Reserves		
	Contingent Liability Reserve	Premium Deposit Fund	Total
2018	\$0	\$343,983,569	\$343,983,569
2017	0	351,972,292	351,972,292
2016	0	357,495,643	357,495,643
2015	0	363,023,352	363,023,352
2014	0	364,891,996	364,891,996
2013	0	366,652,383	366,652,383
2012	0	366,110,007	366,110,007
2011	0	363,777,660	363,777,660
2010	0	357,229,357	357,229,357
2009	0	349,424,958	349,424,958
2008	6,269,070	332,961,288	339,230,358

Year	Interest Credits on Reserves			Withdrawals to Pay Health and LTC Premiums
	Contingent Liability Reserve	Premium Deposit Fund	Total	
2018	\$0	\$10,838,120	\$10,838,120	\$932,796
2017	0	11,254,391	11,254,391	1,211,428
2016	0	12,269,121	12,269,121	1,049,258
2015	0	13,290,039	13,290,039	852,928
2014	0	14,036,549	14,036,549	758,413
2013	0	14,923,289	14,923,289	716,230
2012	0	15,739,647	15,739,647	504,082
2011	0	16,791,512	16,791,512	586,579
2010	0	17,976,631	17,976,631	481,683
2009	351,100	18,252,922	18,604,022	458,842
2008	<u>772,679</u>	<u>17,885,303</u>	<u>18,657,982</u>	<u>479,381</u>
Totals	\$1,123,779	\$163,257,524	\$164,381,303	\$8,031,620

STATE OF WISCONSIN

I. Cumulative Financial Experience on Employee Insurance (Active Employees and Retirees) - 1958 through 2007

Employee Contributions		\$ 304,103,381
State Contributions		
Basic Plan	\$ 82,390,479	
Supplemental Plan	<u>36,340,802</u>	
		<u>118,731,281</u>
Total Premium		\$ 422,834,662
Death Claims	\$ 398,102,916	
AD&D Claims	20,768,912	
Living Benefit Claims	4,066,000	
Increase in Disability Claim Reserve	20,958,083	
Pooled Claims	(119,478)	
Pool Charge	1,065,368	
Conversion Charge	362,072	
Catastrophic Loss Credit	<u>0</u>	
Total Claim Charges		\$ 445,203,873
Contingent Liability Reserve on 12-31-2007	\$ 14,533,673	
Premium Deposit Fund on 12-31-2007	<u>323,291,613</u>	
Total		\$ 337,825,286
Payments to State		
State Premium Tax	\$ 9,230,199	
State Internal Administration Expense	3,885,022	
Actuarial Service Charge	38,388	
Audit/Consultant Service Charge	51,734	
Legal Expense	<u>39,790</u>	
Total		\$ 13,245,133
Payment from Contingent Liability Reserve for Premiums		\$ 3,530,569
Withdrawals of Postretirement Life Insurance Values to Pay Health and Long-Term Care Insurance Premiums		\$ 4,522,251
Excess of Disbursement and Reserves Over Premium		\$ 381,492,450
Minnesota Life Expenses	\$ 10,830,892	
Reinsurance Expense	180,635	
Risk Charge	1,584,835	
Federal Income Tax Charge	<u>971,199</u>	
Total	\$ 13,567,561	
Interest Credited to Plan	<u>395,060,011</u>	
Interest Credited to Plan Less Cost		\$ 381,492,450

STATE OF WISCONSIN

J. Historical Statistics - Active Employee and Retiree Insurance - through 2007

Year	Insurance In Force at End of Year		Year	Employee Contributions	Premium		Total Premium
	Pre-Retirement	Post-Retirement			State Contributions		
					Basic Plan	Supplemental Plan	
2007	7,803,344,000	320,232,500	2007	\$16,156,764	\$2,955,765	\$1,232,334	\$20,344,863
2006	7,329,155,000	295,682,250	2006	14,974,540	2,779,424	1,163,077	18,917,041
2005	6,999,101,000	277,559,750	2005	14,094,642	2,675,764	1,126,915	17,897,321
2004	6,760,990,000	261,620,000	2004	13,436,167	2,609,471	1,103,938	17,149,576
2003	6,377,422,000	248,541,250	2003	13,564,722	2,682,055	1,139,067	17,385,844
2002	6,100,363,000	234,159,250	2002	13,377,914	2,672,759	1,141,597	17,192,270
2001	5,601,752,000	219,827,750	2001	12,057,622	2,448,473	1,054,664	15,560,759
2000	4,965,080,000	207,848,750	2000	10,944,386	2,273,603	985,914	14,203,903
1999	4,593,228,000	195,619,000	1999	10,249,171	2,217,950	941,962	13,409,083
1998	4,252,269,000	184,580,000	1998	10,102,741	2,235,849	970,180	13,308,770
1997	3,681,951,000	176,424,750	1958-1997	<u>175,144,712</u>	<u>56,839,366</u>	<u>25,481,154</u>	<u>257,465,232</u>
			Total	\$304,103,381	\$82,390,479	\$36,340,802	\$422,834,662

Claims

Year	Death Losses				Living Benefits	Disability Losses	Total Claims
	Pre-Retirement Life	Pre-Retirement AD&D	Post-Retirement Life	Total			
2007	\$15,424,394	\$578,367	\$8,774,275	\$24,777,036	\$512,000	\$1,047,671	\$26,336,707
2006	14,953,112	1,119,759	8,480,232	24,553,103	576,000	2,314,751	27,443,854
2005	13,479,300	1,788,385	7,520,973	22,788,658	340,500	2,283,776	25,412,934
2004	13,872,722	940,858	7,554,908	22,368,488	601,500	(602,109)	22,367,879
2003	14,695,689	780,605	6,867,758	22,344,052	488,500	1,435,671	24,268,223
2002	11,458,035	1,041,829	6,811,293	19,311,157	242,500	690,982	20,244,639
2001	10,842,443	469,215	6,156,890	17,468,548	361,500	1,312,119	19,142,167
2000	9,303,701	738,921	6,183,157	16,225,779	166,000	714,191	17,105,970
1999	11,419,416	1,166,970	5,990,105	18,576,491	77,250	672,318	19,326,059
1998	10,449,799	1,216,350	5,146,711	16,812,860	141,000	1,497,976	18,451,836
1958-1997	<u>152,380,988</u>	<u>10,927,653</u>	<u>50,337,015</u>	<u>213,645,656</u>	<u>559,250</u>	<u>9,590,737</u>	<u>223,795,643</u>
Total	\$278,279,599	\$20,768,912	\$119,823,317	\$418,871,828	\$4,066,000	\$20,958,083	\$443,895,911

Year	Total Claims	Conversion Charge	Pooled Claims	Pool Charge	Total Claim Charges
2007	\$26,336,707	\$0	\$0	\$298,751	\$26,635,458
2006	27,443,854	0	0	243,030	27,686,884
2005	25,412,934	0	0	213,495	25,626,429
2004	22,367,879	0	(40,116)	172,047	22,499,810
2003	24,268,223	0	(79,362)	138,045	24,326,906
2002	20,244,639	0	0	0	20,244,639
2001	19,142,167	1,800	0	0	19,143,967
2000	17,105,970	5,400	0	0	17,111,370
1999	19,326,059	14,820	0	0	19,340,879
1998	18,451,836	21,000	0	0	18,472,836
1958-1997	<u>223,795,643</u>	<u>319,052</u>	<u>0</u>	<u>0</u>	<u>224,114,695</u>
Total	\$443,895,911	\$362,072	(\$119,478)	\$1,065,368	\$445,203,873

STATE OF WISCONSIN

J. Historical Statistics - Active Employee and Retiree Insurance - through 2007 (cont'd)

Year	Overhead Cost						State Administration Expense	Internal Service Charge	Actuarial Consultant Charge	Audit/ Legal Expense	Interest Credits/Charges
	Insurance Company Expense	Reinsurance Expense	Risk Charge	State Premium Tax	Federal Income Tax	Total					
2007	\$868,193	\$3,255	\$48,189	\$543,582	\$46,634	\$1,509,853	\$249,586	\$23,937	\$0	\$0	\$90,476
2006	810,168	3,027	34,416	566,203	39,071	1,452,885	223,343	0	8,698	0	86,556
2005	761,403	2,864	17,262	523,708	34,781	1,340,018	208,373	0	0	0	99,255
2004	723,308	2,703	0	459,084	33,016	1,218,111	181,758	905	0	39,790	47,974
2003	681,447	3,043	6,533	495,966	42,214	1,229,203	253,423	1,700	18,633	0	83,487
2002	640,332	4,893	60,795	411,517	46,884	1,164,421	150,150	1,745	0	0	46,486
2001	576,218	5,323	56,204	387,097	34,496	1,059,338	107,850	1,650	0	0	67,341
2000	532,568	13,125	52,944	344,786	28,148	971,571	38,008	1,402	8,727	0	53,830
1999	472,366	14,071	26,028	389,658	33,123	935,246	0	1,391	0	0	49,296
1998	414,812	13,309	56,964	375,376	46,762	907,223	137,490	1,153	0	0	94,563
1958- 1997	<u>4,350,077</u>	<u>115,022</u>	<u>1,225,500</u>	<u>4,733,222</u>	<u>586,070</u>	<u>11,009,891</u>	<u>2,335,041</u>	<u>4,505</u>	<u>15,676</u>	<u>0</u>	<u>1,836,172</u>
Total	\$10,830,892	\$180,635	\$1,584,835	\$9,230,199	\$971,199	\$22,797,760	\$3,885,022	\$38,388	\$51,734	\$39,790	\$2,555,436

Year	Reserves			Total
	Disability Reserve	Contingent Liability Reserve	Premium Deposit Fund	
2007	\$20,958,083	\$14,533,673	\$323,291,613	\$358,783,369
2006	19,910,412	22,320,164	303,582,094	345,812,670
2005	17,595,661	29,423,280	288,655,047	335,673,988
2004	15,311,885	35,338,788	273,479,546	324,130,219
2003	15,913,994	40,413,306	256,750,262	313,077,562
2002	14,478,323	44,476,613	241,655,917	300,610,853
2001	13,787,341	48,211,931	223,143,852	285,143,124
2000	12,475,222	50,992,413	206,330,935	269,798,570
1999	11,761,031	53,505,251	189,675,567	254,941,849
1998	11,088,713	55,999,169	177,584,817	244,672,699
1997	9,590,737	57,505,153	166,585,300	233,681,190

Year	Interest Credits on Reserves				Withdrawals to Pay Health and LTC Premiums
	Disability Reserve	Contingent Liability Reserve	Premium Deposit Fund	Total	
2007	\$1,149,269	\$1,305,400	\$17,715,113	\$20,169,782	\$263,259
2006	975,149	1,681,973	16,073,075	18,730,197	538,053
2005	890,137	1,904,463	15,960,456	18,755,056	316,819
2004	937,441	2,796,523	15,200,843	18,934,807	537,217
2003	948,032	3,105,807	15,745,232	19,799,071	407,499
2002	938,590	3,352,789	15,343,979	19,635,358	536,412
2001	890,592	3,621,720	14,805,993	19,318,305	601,165
2000	837,693	3,782,331	13,637,481	18,257,505	241,630
1999	745,309	3,732,430	12,112,018	16,589,757	173,788
1998	653,225	3,848,131	11,326,953	15,828,309	219,407
1958- 1997	<u>10,979,387</u>	<u>81,367,379</u>	<u>114,139,662</u>	<u>206,486,428</u>	<u>687,002</u>
Total	\$19,944,824	\$110,498,946	\$262,060,805	\$392,504,575	\$4,522,251

WISCONSIN LOCAL GOVERNMENTS

V. Wisconsin Local Government Plan - Active Employees*

Report on operations for 2018, the fifty-ninth year of the plan.

A. Employee Coverage

	<u>12-31-2017</u>	<u>12-31-2018</u>
1. Employees Insured for Pre-Retirement Insurance (1)		
Basic Plan	75,719	75,762
Supplemental Plan	26,219	26,196
Additional Plan	33,063	32,967
2. Pre-Retirement Life and AD&D Insurance (1)		
Basic Plan	\$ 4,100,297,000	\$ 4,172,473,000
Supplemental Plan	1,517,765,000	1,545,795,000
Additional Plan	4,348,918,000	4,435,573,000

B. Spouse and Dependent Coverage

1. Employees Insured	32,786	32,828
2. Estimated Spouse and Dependent Life Insurance	\$ 795,935,000	\$ 796,730,000

*The active employee plan financial report includes:

- All active employees at ages under 70.
- All active employees at age 70 and over who continue to participate in the additional life insurance benefit.
- Spouses and dependents of active employees.

WISCONSIN LOCAL GOVERNMENTS

C. Premium Summary

Employee Contributions

Basic Plan	\$ 6,616,282	
Supplemental Plan	2,889,616	
Additional Plan	7,769,126	
Spouse and Dependent Plan	<u>1,171,614</u>	
		\$ 18,446,638

Employer Contributions to Premium

Basic Plan	\$ 1,787,364	
Supplemental Plan	<u>19,399</u>	
		<u>1,806,763</u>
Total Premium		\$ 20,253,401

D. Employee Claims

	<u>Basic Plan</u>	<u>Supplemental Plan</u>	<u>Additional Plan</u>	<u>Total</u>
Life	\$ 4,065,427	\$ 1,264,004	\$ 3,706,251	\$ 9,035,682
AD&D	420,454	83,000	489,695	993,149
Living Benefit	243,000	105,000	538,000	886,000
Disability	<u>(414,365)</u>	<u>(57,516)</u>	<u>(663,826)</u>	<u>(1,135,707)</u>
Total	\$ 4,314,516	\$ 1,394,488	\$ 4,070,120	\$ 9,779,124

E. Spouse and Dependent Claims

	<u>Spouse</u>	<u>Dependent</u>	
Life	\$ 874,717	\$ 125,357	\$ 1,000,074
Living Benefit	<u>0</u>	<u>0</u>	<u>0</u>
Total	\$ 874,717	\$ 125,357	\$ 1,000,074

WISCONSIN LOCAL GOVERNMENTS

F. Financial Experience - Active Employee Insurance

1. Premium

Employee Contributions	\$ 17,275,024	
Employer Contributions	<u>1,806,763</u>	
 Total Premium		 \$ 19,081,787

2. Claim Charges

Death Claims	\$ 9,035,682	
AD&D Claims	993,149	
Living Benefit Claims	886,000	
Pooled Claims	(23,449)	
Pool Charge	194,997	
Increase in Disability Claim Reserve	(1,135,707)	
Conversion Charge	2,940	
Catastrophic Loss Credit	<u>0</u>	
 Total Claim Charges		 \$ 9,953,612

3. Expense Charges

Minnesota Life Expenses	\$ 1,533,412	
Reinsurance Expense	3,400	
Risk Charge	<u>12,853</u>	
 Total Expense Charges		 \$ 1,549,665

4. Tax Charges

State Premium Tax	\$ 381,636	
Federal Income Tax	<u>28,089</u>	
 Total Tax Charges		 \$ 409,725

5. Interest Credits/Charges

On Premium	\$ 163,184	
On Disability Claim Reserve	776,944	
On Claims Paid	(81,336)	
On Expense Charges, Pool Charge & Conversion Charge	<u>(18,595)</u>	
 Total Interest Credits/Charges		 \$ 840,197

6. State Internal Administration Expense \$ 322,081

7. Audit/Consultant Service Charge \$ 0

8. Contribution to Stabilization Reserve [(1)-(2)-(3)-(4)+(5)-(6)-(7)] \$ 7,686,901

WISCONSIN LOCAL GOVERNMENTS

G. Reserve Summary

1. Premium Deposit Fund

Balance on 12-31-2017	\$	12,191,042
Interest Credit		373,674
Withdrawals on 12-31-2018		<u>0</u>
Balance on 12-31-2018	\$	12,564,716

2. Stabilization Reserve

Balance on 12-31-2017	\$	56,550,484
Interest Credit		1,677,025
Contribution on 12-31-2018		7,686,901
Withdrawals on 12-31-2018		<u>0</u>
Balance on 12-31-2018	\$	65,914,410

Interest Rate on Premium Deposit Fund and Stabilization Reserve in 2018		2.98%
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H. Stop-Loss Calculation for Active Employee Insurance

Stop-Loss Limit	\$	25,115,930
Claim Charges	\$	9,926,245
Expense Charges		<u>1,931,301</u>
Total Charges	\$	11,857,546
Catastrophic Loss Credit	\$	0

WISCONSIN LOCAL GOVERNMENTS

I. Financial Experience - Spouse and Dependent Insurance

1. Premium		\$ 1,171,614
2. Claim Charges		
Death Claims	\$ 1,000,074	
Living Benefit Claims	0	
Conversion Charge	<u>6,300</u>	
Total Claim Charges		\$ 1,006,374
3. Expense Charges		
Minnesota Life Expenses	\$ 62,096	
Risk Charge	<u>2,343</u>	
Total Expense Charges		\$ 64,439
4. Tax Charges		
State Premium Tax	\$ 23,432	
Federal Income Tax	<u>900</u>	
Total Tax Charges		\$ 24,332
5. Interest Credits/Charges		
On Premium	\$ 10,112	
On Claims Paid	(6,206)	
On Expense Charges & Conversion Charge	<u>(1,200)</u>	
Total Interest Credits/Charges		\$ 2,706
6. State Internal Administration Expense		\$ 64,968
7. Audit/Consultant Service Charge		\$ 0
8. Addition to Stabilization Reserve [(1)-(2)-(3)-(4)+(5)-(6)-(7)]		\$ 14,207
9. Stabilization Reserve		
Stabilization Reserve on 12-31-2017		\$ 1,383,961
Addition to Reserve on 12-31-2018		14,207
Interest on Stabilization Reserve in 2018		<u>42,538</u>
Stabilization Reserve on 12-31-2018		\$ 1,440,706

J. Stop-Loss Calculation for Spouse and Dependent Insurance

Stop-Loss Limit		\$ 1,698,840
Claim Charges		922,289
Expense Charges		<u>87,871</u>
Total Charges		\$ 1,010,160
Catastrophic Loss Credit		\$ 0

WISCONSIN LOCAL GOVERNMENTS

VI. Wisconsin Local Government Plan - Retirees*

Report on operations for 2018, the fifty-ninth year of the plan.

A. Retiree Coverage

	<u>12-31-2017</u>	<u>12-31-2018</u>
1. Retirees Insured for Pre-Age 65 Insurance		
Basic Plan	10,195	10,076
Supplemental Plan	2,039	2,095
Additional Plan	3,104	3,129
2. Pre-Age 65 Life and AD&D Insurance		
Basic Plan	\$ 647,073,000	\$ 650,280,000
Supplemental Plan	128,599,060	140,381,000
Additional Plan	369,673,033	397,320,000
3. Retirees Insured for Post-Age 65 Insurance	33,644	35,525
4. Post-Age 65 Insurance	\$ 509,135,750	\$ 537,174,500

*The retiree plan financial report includes:

- All retirees at age 65 and over, and all active employees at age 70 and over, who receive a post-retirement life insurance benefit with no further premium payments.
- All retirees under age 65 who receive post-retirement life insurance benefits based on continued premium payments.
- All funding contributions by employers toward future post-retirement life insurance for currently active employees.

WISCONSIN LOCAL GOVERNMENTS

B. Premium Summary

Pre-Age 65 Retiree Contributions

Basic Plan	\$ 4,513,703	
Supplemental Plan	312,649	
Additional Plan	<u>948,661</u>	
		\$ 5,775,013

Employer Contributions to Premium Deposit Fund \$ 1,926,713

Total Premium \$ 7,701,726

C. Retiree Claims

	<u>Basic Plan</u>	<u>Supplemental Plan</u>	<u>Additional Plan</u>	<u>Total</u>
1. Pre-Age 65 Life and AD&D Insurance				
Life	\$ 2,133,882	\$ 521,369	\$ 634,461	\$ 3,289,712
AD&D	0	0	0	0
Living Benefit	<u>130,000</u>	<u>0</u>	<u>0</u>	<u>130,000</u>
Total	\$ 2,263,882	\$ 521,369	\$ 634,461	\$ 3,419,712
2. Post-Age 65 Life Insurance				
Life	\$ 9,705,496			\$ 9,705,496
Living Benefit	<u>18,750</u>			<u>18,750</u>
Total	\$ 9,724,246			\$ 9,724,246

WISCONSIN LOCAL GOVERNMENTS

D. Financial Experience - Pre-Age 65 Retiree Insurance

1. Premium

Pre-Age 65 Contributions	\$ 5,775,013	
Total Premium		\$ 5,775,013

2. Claim Charges

Death Claims	\$ 3,289,712	
AD&D Claims	0	
Living Benefit Claims	130,000	
Pooled Claims	0	
Pool Charge	30,307	
Conversion Charge	0	
Catastrophic Loss Credit	<u>0</u>	
Total Claim Charges		\$ 3,450,019

3. Expense Charges

Minnesota Life Expenses	\$ 618,911	
Reinsurance Expense	1,372	
Risk Charge	<u>8,527</u>	
Total Expense Charges		\$ 628,810

4. Tax Charges

State Premium Tax	\$ 84,910	
Federal Income Tax	<u>12,948</u>	
Total Tax Charges		\$ 97,858

5. Interest Credits/Charges

On Premium	\$ 36,835	
On Claims Paid	(19,489)	
On Expense Charges, Pool Charge & Conversion Charge	<u>(6,276)</u>	
Total Interest Credits/Charges		\$ 11,070

6. State Internal Administration Expense \$ 72,304

7. Actuarial Service Charge \$ 7,500

8. Experience Credit [(1)-(2)-(3)-(4)+(5)-(6)-(7)] \$ 1,529,592

The Experience Credit is deposited in the Contingent Liability Reserve.

WISCONSIN LOCAL GOVERNMENTS

E. Financial Experience - Post-Age 65 Retiree Insurance

1. Premium Deposit Fund

Premium Deposit Fund on 12-31-2017	\$ 213,312,700
Contributions for Active Employees During 2018	1,926,713
Withdrawals on 12-31-2018	0
Withdrawals of Postretirement Life Insurance Values to pay Health and Long-Term Care Insurance Premiums	0
Interest on Premium Deposit Fund in 2018	<u>6,575,983</u>
Premium Deposit Fund on 12-31-2018	\$ 221,815,396

2. Contingent Liability Reserve

Contingent Liability Reserve on 12-31-2017	\$ 30,918,590
Contributions on 12-31-2018	1,529,592
Post-Age 65 Death Claims	(9,724,246)
Minnesota Life Expenses	(355,637)
State Premium Tax	(205,826)
Risk Charge	(5,608)
Interest on Contingent Liability Reserve in 2018	<u>925,973</u>
Contingent Liability Reserve on 12-31-2018	\$ 23,082,838

Interest Rate on Premium Deposit Fund and Contingent Liability Reserve in 2018	3.11%
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WISCONSIN LOCAL GOVERNMENTS

F. Summary of Assets and Liabilities for Post-Retirement Benefits on December 31

	<u>2017</u>	<u>2018</u>
1. Assets		
a. Retiree Premium Deposit Fund	\$ 213,312,700	\$ 221,815,396
b. Active Premium Deposit Fund Available for Post-Retirement Funding	12,191,042	12,564,716
c. Contingent Liability Reserve	30,918,590	23,082,838
d. Active Stabilization Reserve Available for Post-Retirement Funding	<u>51,870,550</u>	<u>61,143,963</u>
e. Total	\$ 308,292,882	\$ 318,606,913
2. Liabilities		
a. Post-Age 65 Retirees	\$ 219,338,916	\$ 228,744,866
b. Pre-Age 65 Retirees	44,349,260	40,299,584
c. Active Employees	<u>28,192,564</u>	<u>6,399,956</u>
d. Total	\$ 291,880,740	\$ 275,444,406
3. Unfunded Accrued Liability [2(d) - 1(e)]	\$ (16,412,142)	\$ (43,162,507)
4. Total Assets as a Percent of Total Liabilities [1(e)/2(d)]	105.6%	115.7%

Definitions of asset values:

- Retiree Premium Deposit Fund: total retiree premium deposit fund assets
- Active Premium Deposit Fund Available for Post-Retirement Funding: active premium deposit fund assets in excess of the active target reserve level. The target level of active premium deposit fund plus active stabilization reserve equals 25% of active plan premium.
- Contingent Liability Reserve: total contingent liability reserve assets
- Active Stabilization Reserve Available for Post-Retirement Funding: active stabilization reserve assets in excess of the active target reserve level. The target level of active premium deposit fund plus active stabilization reserve equals 25% of active plan premium.

Definitions of liability values:

- Post-Age 65 Retirees: present value of future claims
- Pre-Age 65 Retirees: present value of future claims minus present value of future premiums
- Active Employees: present values of future active employment claims and future post-retirement claims for active employees minus present values of future State and employee premium contributions

Funding Assumptions appear on page 61 of this report.

G. Stop-Loss Calculation for Retiree Insurance

Stop-Loss Limit	\$ 23,331,830	
Claim Charges	\$ 13,150,881	
Expense Charges	<u>1,280,790</u>	
Total Charges	\$ 14,431,672	
Catastrophic Loss Credit	\$ 0	

WISCONSIN LOCAL GOVERNMENTS

VII. Historical Experience

A. Cumulative Financial Experience on Active Employee Insurance - 2008 through 2018

Employee Contributions		\$ 178,809,560
Employer Contributions		<u>16,880,329</u>
Total Premium		\$ 195,689,889
Reserve Brought Forward on January 1, 2008		\$ 7,995,249
Death Claims	\$ 104,458,720	
AD&D Claims	8,625,542	
Living Benefit Claims	6,618,000	
Increase in Disability Claim Reserve	6,946,328	
Pooled Claims	(172,574)	
Pool Charge	1,009,741	
Conversion Charge	112,020	
Catastrophic Loss Credit	<u>0</u>	
Total Claim Charges		\$ 127,597,777
Premium Deposit Fund on 12-31-2018	\$ 12,564,716	
Stabilization Reserve on 12-31-2018	<u>65,914,410</u>	
Total		\$ 78,479,126
Payments to State		
State Premium Tax	\$ 3,913,799	
State Internal Administration Expense	2,646,584	
Actuarial Service Charge	0	
Audit/Consultant Service Charge	13,444	
Research Survey Cost	<u>0</u>	
Total		\$ 6,573,827
Excess of Disbursement and Reserves Over Premium and Reserve Brought Forward on January 1, 2008		\$ 8,965,592
Minnesota Life Expenses	\$ 15,093,739	
Reinsurance Expense	33,541	
Risk Charge	109,740	
Catastrophic Loss	0	
Federal Income Tax Charge	<u>280,683</u>	
Total		\$ 15,517,703
Interest Credited to Plan		<u>24,483,295</u>
Interest Credited to Plan Less Cost		\$ 8,965,592

WISCONSIN LOCAL GOVERNMENTS

B. Historical Statistics - Active Employee Insurance - 2008 and Later

<u>Year</u>	<u>Insurance in Force at End of Year</u>	<u>Premium</u>		
		<u>Employee Contributions</u>	<u>Employer Contributions</u>	<u>Total Premium</u>
2018	\$10,153,841,000	\$17,275,024	\$1,806,763	\$19,081,787
2017	9,966,980,000	16,916,303	1,803,431	18,719,734
2016	9,794,200,000	16,642,233	1,719,771	18,362,004
2015	9,368,725,000	16,019,705	1,694,114	17,713,819
2014	9,071,624,000	15,627,511	1,557,078	17,184,589
2013	8,808,111,000	15,302,736	1,537,139	16,839,875
2012	8,309,500,000	15,569,667	1,555,163	17,124,830
2011	8,654,114,000	16,740,728	1,408,259	18,148,987
2010	8,586,067,000	16,895,496	1,371,228	18,266,724
2009	8,280,640,000	16,275,592	1,294,951	17,570,543
2008	7,811,801,000	<u>15,544,565</u>	<u>1,132,432</u>	<u>16,676,997</u>
Totals		\$178,809,560	\$16,880,329	\$195,689,889

Claims

<u>Year</u>	<u>Death Losses</u>			<u>Living Benefits</u>	<u>Disability Losses</u>	<u>Total Claims</u>
	<u>Life</u>	<u>AD&D</u>	<u>Total</u>			
2018	\$9,035,682	\$993,149	\$10,028,831	\$886,000	(\$1,135,707)	\$9,779,124
2017	9,206,218	428,077	9,634,295	705,000	(245,498)	10,093,797
2016	7,741,046	545,761	8,286,807	469,000	1,245,097	10,000,904
2015	10,735,324	928,547	11,663,871	1,155,000	610,935	13,429,806
2014	9,319,278	841,742	10,161,020	908,000	1,484,178	12,553,198
2013	10,259,826	1,040,611	11,300,437	0	6,079	11,306,516
2012	8,753,139	674,179	9,427,318	642,000	1,174,943	11,244,261
2011	8,835,570	674,431	9,510,001	68,000	1,215,476	10,793,477
2010	10,419,788	1,148,439	11,568,227	1,332,000	942,703	13,842,930
2009	8,830,683	237,777	9,068,460	185,000	1,069,766	10,323,226
2008	<u>11,322,166</u>	<u>1,112,829</u>	<u>12,434,995</u>	<u>268,000</u>	<u>578,356</u>	<u>13,281,351</u>
Totals	\$104,458,720	\$8,625,542	\$113,084,262	\$6,618,000	\$6,946,328	\$126,648,590

<u>Year</u>	<u>Total Claims</u>	<u>Conversion Charge</u>	<u>Pooled Claims</u>	<u>Pool Charge</u>	<u>Total Claim Charges</u>
2018	\$9,779,124	\$2,940	(\$23,449)	\$194,997	\$9,953,612
2017	10,093,797	9,000	(12,352)	168,914	10,259,359
2016	10,000,904	10,920	171	146,140	10,158,135
2015	13,429,806	26,100	(54,822)	122,637	13,523,721
2014	12,553,198	0	387	84,519	12,638,104
2013	11,306,516	600	(2,331)	73,447	11,378,232
2012	11,244,261	6,900	0	71,793	11,322,954
2011	10,793,477	17,040	(80,178)	55,483	10,785,822
2010	13,842,930	11,040	0	42,860	13,896,830
2009	10,323,226	25,380	0	25,007	10,373,613
2008	<u>13,281,351</u>	<u>2,100</u>	<u>0</u>	<u>23,944</u>	<u>13,307,395</u>
Totals	\$126,648,590	\$112,020	(\$172,574)	\$1,009,741	\$127,597,777

WISCONSIN LOCAL GOVERNMENTS

B. Historical Statistics - Active Employee Insurance - 2008 and Later (cont'd)

Year	Overhead Costs						State Internal Administration Expense	Audit/Consultant Service Charge	Interest Credits/Charges
	Insurance Company Expense	Reinsurance Expense	Risk Charge	State Premium Tax	Federal Income Tax	Total			
2018	\$1,533,412	\$3,400	\$12,853	\$381,636	\$28,089	\$1,959,390	\$322,081	\$0	\$63,253
2017	1,504,318	3,335	12,699	374,395	11,793	1,906,540	204,407	0	51,244
2016	1,475,571	3,272	3,382	367,240	11,411	1,860,876	419,785	0	55,218
2015	1,423,482	3,156	0	354,276	8,548	1,789,462	198,529	0	38,566
2014	1,380,953	3,061	0	343,692	7,381	1,735,087	515,107	0	44,679
2013	1,321,269	2,890	0	336,798	8,552	1,669,509	0	0	47,584
2012	1,310,049	2,822	0	342,497	17,592	1,672,960	225,516	0	51,340
2011	1,388,398	2,991	0	362,980	36,880	1,791,249	263,769	5,239	87,014
2010	1,329,765	3,078	24,714	365,334	47,967	1,770,858	190,230	5,955	98,413
2009	1,255,064	2,849	31,721	351,411	50,468	1,691,513	180,736	2,250	147,950
2008	<u>1,171,458</u>	<u>2,687</u>	<u>24,371</u>	<u>333,540</u>	<u>52,002</u>	<u>1,584,058</u>	<u>126,424</u>	<u>0</u>	<u>130,121</u>
Totals	\$15,093,739	\$33,541	\$109,740	\$3,913,799	\$280,683	\$19,431,502	\$2,646,584	\$13,444	\$815,382

Year	Reserves			
	Disability Reserve	Stabilization Reserve	Premium Deposit Fund	Total
2018	\$24,097,476	\$65,914,410	\$12,564,716	\$102,576,602
2017	25,233,183	56,550,484	12,191,042	93,974,709
2016	25,478,681	47,954,165	11,825,627	85,258,473
2015	24,233,584	39,938,189	11,446,930	75,618,703
2014	23,622,649	35,701,886	11,053,067	70,377,602
2013	22,138,471	31,467,384	10,651,475	64,257,330
2012	22,132,392	25,834,701	10,238,389	58,205,482
2011	20,957,449	20,189,994	9,813,308	50,960,751
2010	19,741,973	13,292,179	9,371,161	42,405,313
2009	18,799,270	9,368,979	8,910,328	37,078,577
2008	17,729,504	2,772,172	8,447,660	28,949,336

Year	Interest Credits on Reserves			
	Disability Reserve	Stabilization Reserve	Premium Deposit Fund	Total
2018	\$776,944	\$1,677,025	\$373,674	\$2,827,643
2017	785,232	1,410,415	365,415	2,561,062
2016	804,797	1,232,753	378,697	2,416,247
2015	845,921	1,149,709	393,863	2,389,493
2014	842,622	1,050,910	401,592	2,295,124
2013	887,019	905,946	413,086	2,206,051
2012	904,315	785,652	425,081	2,115,048
2011	935,213	572,680	442,147	1,950,040
2010	984,110	437,826	460,833	1,882,769
2009	985,322	141,104	462,668	1,589,094
2008	<u>982,931</u>	<u>0</u>	<u>452,411</u>	<u>1,435,342</u>
Totals	\$9,734,426	\$9,364,020	\$4,569,467	\$23,667,913

WISCONSIN LOCAL GOVERNMENTS

C. Cumulative Financial Experience on Spouse and Dependent Insurance - 1983 through 2018

Employee Contribution		\$	44,060,423
Death Claims	\$		40,727,344
Living Benefit Claims			235,000
Conversion Charge			<u>338,445</u>
Total Claim Charges		\$	41,300,789
Stabilization Reserve on 12-31-2018		\$	1,440,706
Payments to State			
State Premium Tax	\$		881,210
State Internal Administration Expense			1,445,916
Audit/Consultant Service Charge			<u>16,000</u>
Total		\$	2,343,126
Payment from Stabilization Reserve for Premiums		\$	41,392
Excess of Disbursement and Reserves over Premium		\$	1,065,590
Minnesota Life Expenses	\$		1,904,927
Risk Charge			82,396
Federal Income Tax Charge			<u>67,245</u>
Total	\$		2,054,568
Interest Credited to Plan			<u>3,120,158</u>
Interest Credited to Plan Less Cost		\$	1,065,590

WISCONSIN LOCAL GOVERNMENTS

D. Historical Statistics - Spouse and Dependent Insurance

<u>Year</u>	<u>Employee Contributions</u>	<u>Death Losses</u>	<u>Living Benefits</u>	<u>Conversion Costs</u>	<u>Total Claim Charges</u>
2018	\$1,171,614	\$1,000,074	\$0	\$6,300	\$1,006,374
2017	1,184,896	1,030,967	0	4,800	1,035,767
2016	1,191,484	1,202,132	20,000	4,200	1,226,332
2015	1,196,318	1,051,479	10,000	4,500	1,065,979
2014	1,208,721	1,245,796	20,000	2,700	1,268,496
2013	1,216,332	1,330,896	20,000	2,160	1,353,056
2012	1,248,127	1,180,227	0	14,400	1,194,627
2011	1,297,655	1,631,968	0	22,200	1,654,168
2010	1,329,441	1,448,386	10,000	9,300	1,467,686
2009	1,341,736	1,539,639	20,000	8,820	1,568,459
1983- 2008	<u>31,674,099</u>	<u>28,065,780</u>	<u>135,000</u>	<u>259,065</u>	<u>28,459,845</u>
Total	\$44,060,423	\$40,727,344	\$235,000	\$338,445	\$41,300,789

<u>Year</u>	<u>Overhead Cost</u>					<u>State Internal Administration Expense</u>	<u>Audit/ Consultant Charge</u>
	<u>Insurance Company Expense</u>	<u>Risk Charge</u>	<u>State Premium Tax</u>	<u>Federal Income Tax</u>	<u>Total</u>		
2018	\$62,096	\$2,343	\$23,432	\$900	\$88,771	\$64,968	\$0
2017	62,799	2,370	23,698	(913)	87,954	79,932	0
2016	63,149	2,383	23,830	(1,140)	88,222	91,392	0
2015	63,405	2,393	23,926	(1,408)	88,316	38,028	0
2014	64,062	2,417	24,174	(1,569)	89,084	113,603	0
2013	64,466	2,433	24,327	(1,756)	89,470	0	0
2012	66,151	2,496	24,963	(1,637)	91,973	52,095	0
2011	68,776	2,595	25,953	(1,246)	96,078	69,352	294
2010	70,593	2,659	26,589	(1,138)	98,703	36,037	612
2009	71,246	2,683	26,835	(1,564)	99,200	43,980	0
1983- 2008	<u>1,248,184</u>	<u>57,624</u>	<u>633,483</u>	<u>78,716</u>	<u>2,018,007</u>	<u>856,529</u>	<u>15,094</u>
Total	\$1,904,927	\$82,396	\$881,210	\$67,245	\$2,935,778	\$1,445,916	\$16,000

<u>Year</u>	<u>Insurance In Force At End of Year</u>	<u>Stabilization Reserve</u>	<u>Interest Credits</u>	
			<u>On Stabilization Reserve</u>	<u>Current Premium Less Charges</u>
2018	\$796,730,000	\$1,440,706	\$42,538	\$2,706
2017	795,935,000	1,383,961	42,135	1,100
2016	803,760,000	1,359,483	49,746	346
2015	807,400,000	1,523,853	55,221	1,827
2014	805,950,000	1,462,810	65,312	185
2013	810,265,000	1,659,775	76,939	1,253
2012	819,980,000	1,807,777	83,235	1,510
2011	852,035,000	1,813,600	107,302	(1,396)
2010	882,590,000	2,229,931	125,084	1,942
2009	897,225,000	2,376,502	144,205	(2,608)
1983- 2008	<u>895,485,000</u>	<u>2,604,808</u>	<u>2,065,094</u>	<u>256,482</u>
Total			\$2,856,811	\$263,347

WISCONSIN LOCAL GOVERNMENTS

E. Cumulative Financial Experience on Retiree Insurance - 2008 through 2018

Retiree Contributions		\$ 56,010,832
Employer Contributions		<u>20,391,317</u>
Total Premium		\$ 76,402,149
Reserve Brought Forward on January 1, 2008		\$ 208,679,884
Death Claims	\$ 130,649,845	
AD&D Claims	2,813,037	
Living Benefit Claims	424,000	
Pooled Claims	0	
Pool Charge	138,099	
Conversion Charge	0	
Catastrophic Loss Credit	<u>0</u>	
Total Claim Charges		\$ 134,024,981
Contingent Liability Reserve on 12-31-2018	\$ 23,082,838	
Premium Deposit Fund on 12-31-2018	<u>221,815,396</u>	
Total		\$ 244,898,234
Payments to State		
State Premium Tax	\$ 2,966,011	
State Internal Administration Expense	678,370	
Actuarial Service Charge	144,870	
Audit/Consultant Service Charge	0	
Research Survey Cost	<u>0</u>	
Total		\$ 3,789,251
Withdrawals of Postretirement Life Insurance Values to Pay Health Insurance Premiums		\$ 24,311
Excess of Disbursement and Reserves Over Premium and Reserve Brought Forward on January 1, 2008		\$ 97,654,744
Minnesota Life Expenses	\$ 8,743,121	
Reinsurance Expense	13,127	
Risk Charge	168,162	
Catastrophic Loss	0	
Federal Income Tax Charge	<u>185,092</u>	
Total	\$ 9,109,502	
Interest Credited to Plan	<u>106,764,246</u>	
Interest Credited to Plan Less Cost		\$ 97,654,744

WISCONSIN LOCAL GOVERNMENTS

F. Historical Statistics - Retiree Insurance - 2008 and Later

Year	Insurance In Force at End of Year		Pre-Age 65 Retiree Contributions	PDF Contributions	Total Premium
	Pre-Age 65	Post-Age 65			
2018	1,187,981,000	537,174,500	\$5,775,013	\$1,926,713	\$7,701,726
2017	1,145,345,093	509,135,750	5,701,145	1,899,029	7,600,174
2016	1,141,194,000	472,046,250	5,718,247	1,874,958	7,593,205
2015	1,112,234,000	433,244,500	5,509,597	1,818,885	7,328,482
2014	1,090,809,000	401,638,500	5,459,554	1,776,490	7,236,044
2013	1,090,977,000	369,512,250	5,505,225	1,743,698	7,248,923
2012	1,020,957,000	339,426,250	5,400,091	1,814,635	7,214,726
2011	917,858,000	296,558,250	4,655,484	1,895,348	6,550,832
2010	800,016,000	263,634,750	4,332,956	1,928,846	6,261,802
2009	744,181,000	247,986,000	4,061,882	1,906,415	5,968,297
2008	714,345,000	230,296,250	<u>3,891,638</u>	<u>1,806,300</u>	<u>5,697,938</u>
Totals			\$56,010,832	\$20,391,317	\$76,402,149

Claims

Death Losses

Year	Pre-Age 65 Life	Pre-Age 65 AD&D	Post -Age 65 Life	Total	Pre-Age 65 Living Benefits	Post-Age 65 Living Benefits	Total Claims
2018	\$3,289,712	\$0	\$9,705,496	\$12,995,208	\$130,000	\$18,750	\$13,143,958
2017	3,639,854	58,362	8,993,031	12,691,247	59,000	0	12,750,247
2016	5,475,274	196,502	8,954,073	14,625,849	0	14,750	14,640,599
2015	5,446,127	295,595	8,624,236	14,365,958	0	80,750	14,446,708
2014	3,875,731	626,749	7,337,281	11,839,761	0	0	11,839,761
2013	4,196,353	264,010	7,415,466	11,875,829	0	17,250	11,893,079
2012	4,950,514	113,582	6,588,265	11,652,361	0	13,000	11,665,361
2011	5,810,820	513,478	6,141,237	12,465,535	0	12,500	12,478,035
2010	6,091,729	364,772	5,939,071	12,395,572	0	15,250	12,410,822
2009	3,577,600	206,391	5,551,594	9,335,585	0	35,000	9,370,585
2008	<u>4,607,218</u>	<u>173,596</u>	<u>4,439,163</u>	<u>9,219,977</u>	<u>0</u>	<u>27,750</u>	<u>9,247,727</u>
Totals	\$50,960,932	\$2,813,037	\$79,688,913	\$133,462,882	\$189,000	\$235,000	\$133,886,882

Year	Total Claims	Conversion Charge	Pooled Claims	Pool Charge	Total Claim Charges
2018	\$13,143,958	\$0	\$0	\$30,307	\$13,174,265
2017	12,750,247	0	0	23,422	12,773,669
2016	14,640,599	0	0	21,229	14,661,828
2015	14,446,708	0	0	16,096	14,462,804
2014	11,839,761	0	0	13,199	11,852,960
2013	11,893,079	0	0	7,732	11,900,811
2012	11,665,361	0	0	8,896	11,674,257
2011	12,478,035	0	0	6,052	12,484,087
2010	12,410,822	0	0	3,851	12,414,673
2009	9,370,585	0	0	3,678	9,374,263
2008	<u>9,247,727</u>	<u>0</u>	<u>0</u>	<u>3,637</u>	<u>9,251,364</u>
Totals	\$133,886,882	\$0	\$0	\$138,099	\$134,024,981

WISCONSIN LOCAL GOVERNMENTS

F. Historical Statistics - Retiree Insurance - 2008 and Later (cont'd)

Year	Overhead Cost						State Internal Administration Expense	Actuarial Service Charge	Interest Credits/Charges
	Insurance Company Expense	Reinsurance Expense	Risk Charge	State Premium Tax	Federal Income Tax	Total			
2018	\$974,548	\$1,372	\$14,135	\$290,736	\$12,948	\$1,293,739	\$72,304	\$7,500	\$11,070
2017	943,351	1,354	8,248	304,493	10,699	1,268,145	56,360	21,500	13,003
2016	931,180	1,353	13,552	321,065	13,350	1,280,500	115,745	0	4,841
2015	892,989	1,306	10,572	314,850	13,478	1,233,195	54,740	0	8,231
2014	848,726	1,289	6,425	264,516	15,675	1,136,631	142,028	36,000	11,667
2013	828,185	1,244	20,021	267,149	19,318	1,135,917	0	12,000	11,576
2012	785,780	1,189	29,194	256,922	22,779	1,095,864	62,181	22,000	5,425
2011	713,181	1,079	30,153	271,532	19,193	1,035,138	72,728	0	12,776
2010	654,086	1,055	14,297	268,565	19,479	957,482	52,451	18,565	12,474
2009	612,443	968	9,505	205,157	19,697	847,770	49,833	0	11,698
2008	<u>558,652</u>	<u>918</u>	<u>12,060</u>	<u>201,026</u>	<u>18,476</u>	<u>791,132</u>	<u>0</u>	<u>27,305</u>	<u>16,703</u>
Totals	\$8,743,121	\$13,127	\$168,162	\$2,966,011	\$185,092	\$12,075,513	\$678,370	\$144,870	\$119,464

Year	Reserves		
	Contingent Liability Reserve	Premium Deposit Fund	Total
2018	\$23,082,838	\$221,815,396	\$244,898,234
2017	30,918,590	213,312,700	244,231,290
2016	38,097,058	205,048,477	243,145,535
2015	45,987,286	197,480,756	243,468,042
2014	53,223,215	189,909,860	243,133,075
2013	58,638,249	181,280,272	239,918,521
2012	63,563,611	172,545,902	236,109,513
2011	67,625,600	164,069,046	231,694,646
2010	70,833,865	157,167,232	228,001,097
2009	73,364,357	150,285,432	223,649,789
2008	75,189,487	140,921,026	216,110,513

Year	Interest Credits on Reserves			Withdrawals to Pay Health and LTC Premiums
	Contingent Liability Reserve	Premium Deposit Fund	Total	
2018	\$925,973	\$6,575,983	\$7,501,956	\$0
2017	1,227,058	6,365,194	7,592,252	0
2016	1,597,091	6,550,796	8,147,887	10,368
2015	1,963,438	6,785,555	8,748,993	0
2014	2,281,364	6,863,358	9,144,722	10,260
2013	2,606,565	6,990,672	9,597,237	0
2012	2,921,314	7,127,704	10,049,018	0
2011	3,294,095	7,427,799	10,721,894	0
2010	3,750,711	7,773,175	11,523,886	3,683
2009	4,068,966	7,762,181	11,831,147	0
2008	<u>4,229,674</u>	<u>7,556,115</u>	<u>11,785,789</u>	<u>0</u>
Totals	\$28,866,249	\$77,778,532	\$106,644,781	\$24,311

WISCONSIN LOCAL GOVERNMENTS

G. Cumulative Financial Experience on Employee Insurance (Active Employees and Retirees) - 1960 through 2007

Employee Contributions		\$ 247,240,031
Employer Contributions		
Premium Credited to Plan	\$ 34,214,362	
Premium Deposit Fund	<u>35,774,042</u>	
		<u>69,988,404</u>
Total Premium		\$ 317,228,435
Death Claims	\$ 273,752,066	
AD&D Claims	16,867,867	
Living Benefit Claims	3,510,750	
Increase in Disability Claim Reserve	17,151,148	
Pooled Claims	0	
Pool Charge	99,732	
Conversion Charge	338,490	
Catastrophic Loss Credit	<u>(178,106)</u>	
Total Claim Charges		\$ 311,541,947
Contingent Liability Reserve on 12-31-2007	\$ 75,683,793	
Premium Deposit Fund on 12-31-2007	<u>140,991,340</u>	
Total		\$ 216,675,133
Payments to State		
State Premium Tax	\$ 6,679,342	
State Internal Administration Expense	3,892,703	
Actuarial Service Charge	38,388	
Audit/Consultant Service Charge	51,735	
Research Survey Cost	<u>10,520</u>	
Total		\$ 10,672,688
Payment from Contingent Liability Reserve for Premiums		\$ 1,883,923
Withdrawals of Postretirement Life Insurance Values to Pay Health Insurance Premiums		\$ 56,310
Excess of Disbursement and Reserves Over Premium		\$ 223,601,566
Minnesota Life Expenses	\$ 18,448,064	
Reinsurance Expense	131,816	
Risk Charge	1,357,265	
Catastrophic Loss	178,106	
Federal Income Tax Charge	<u>952,651</u>	
Total	\$ 21,067,902	
Interest Credited to Plan	<u>244,669,468</u>	
Interest Credited to Plan Less Cost		\$ 223,601,566

WISCONSIN LOCAL GOVERNMENTS

H. Historical Statistics - Active Employee and Retiree Insurance - through 2007

Year	Insurance In Force at End of Year		Year	Premium			Total Premium
	Pre-Retirement	Post-Retirement		Employee Contributions	Employer Contributions	Employer PDF Contributions	
2007	\$8,106,420,000	\$209,309,500	2007	\$18,514,622	\$1,104,737	\$1,732,601	\$21,351,960
2006	7,605,139,000	190,202,187	2006	16,955,065	950,272	1,610,684	19,516,021
2005	7,197,947,000	173,746,187	2005	15,776,326	880,599	1,523,359	18,180,284
2004	6,704,793,000	161,093,937	2004	14,659,344	833,183	1,488,778	16,981,305
2003	6,344,520,000	152,082,937	2003	13,898,798	804,687	1,461,837	16,165,322
2002	5,965,707,000	141,320,687	2002	12,512,375	741,180	1,374,756	14,628,311
2001	5,505,865,000	134,879,000	2001	11,320,435	571,653	1,274,766	13,166,854
2000	4,964,213,000	125,537,000	2000	10,116,720	537,353	1,378,975	12,033,048
1999	4,559,369,000	115,355,750	1999	9,455,950	525,820	1,329,891	11,311,661
1998	3,729,857,000	106,349,250	1998	8,935,636	520,786	1,305,749	10,762,171
1997	3,388,947,000	101,841,000	1960 -1997	115,094,760	26,744,092	21,292,646	163,131,498
			Total	\$247,240,031	\$34,214,362	\$35,774,042	\$317,228,435

Claims

Year	Death Losses			Total	Living Benefits	Disability Losses	Total Claims
	Pre-Retirement Life	Pre-Retirement AD&D	Post-Retirement Life				
2007	\$13,661,977	\$1,192,492	\$5,305,187	\$20,159,656	\$511,000	\$1,327,477	\$21,998,133
2006	12,342,722	1,580,258	4,521,061	18,444,041	901,000	1,430,034	20,775,075
2005	10,388,980	879,966	4,145,891	15,414,837	124,500	804,850	16,344,187
2004	12,627,796	1,015,277	4,283,601	17,926,674	200,000	(605,989)	17,520,685
2003	12,350,259	1,669,819	3,986,298	18,006,376	487,000	549,221	19,042,597
2002	9,734,737	1,236,492	3,852,234	14,823,463	458,750	1,332,365	16,614,578
2001	9,365,292	628,839	3,562,572	13,556,703	123,000	1,869,808	15,549,511
2000	7,971,710	769,460	3,348,041	12,089,211	23,750	1,086,269	13,199,230
1999	7,612,827	720,856	3,340,578	11,674,261	283,750	332,907	12,290,918
1998	7,828,959	587,626	3,261,026	11,677,611	177,000	901,549	12,756,160
1960- 1997	93,984,509	6,586,782	36,275,809	136,847,100	221,000	8,122,657	145,190,757
Total	\$197,869,768	\$16,867,867	\$75,882,298	\$290,619,933	\$3,510,750	\$17,151,148	\$311,281,831

Year	Total Claims	Conversion Charge	Pooled Claims	Pool Charge	Total Claim Charges
2007	\$21,998,133	\$11,160	\$0	\$23,273	\$22,032,566
2006	20,775,075	57,600	0	25,208	20,857,883
2005	16,344,187	26,640	0	19,746	16,390,573
2004	17,520,685	26,640	0	17,119	17,564,444
2003	19,042,597	16,860	0	14,386	19,073,843
2002	16,614,578	22,500	0	0	16,637,078
2001	15,549,511	16,380	0	0	15,565,891
2000	13,199,230	8,940	0	0	13,208,170
1999	12,290,918	4,740	0	0	12,295,658
1998	12,756,160	1,500	0	0	12,757,660
1960- 1997	145,190,757	145,530	0	0	145,336,287
Total	\$311,281,831	\$338,490	\$0	\$99,732	\$311,720,053

WISCONSIN LOCAL GOVERNMENTS

H. Historical Statistics - Active Employee and Retiree Insurance - through 2007 (cont'd)

Year	Overhead Cost						State Internal Administration Expense	Actuarial Service Charge	Audit/Consultant Charge	Research Survey Cost	Interest Credits/Charges
	Insurance Company Expense	Reinsurance Expense	Risk Charge*	State Premium Tax	Federal Income Tax	Total					
2007	\$1,642,242	\$3,416	\$65,405	\$468,673	\$72,165	\$2,251,901	\$249,586	\$23,936	\$0	\$0	\$191,898
2006	1,494,687	3,123	47,586	444,260	64,454	2,054,110	223,343	0	8,699	0	110,645
2005	1,389,672	2,909	42,714	349,646	61,415	1,846,356	208,373	0	0	0	143,998
2004	1,285,912	2,675	29,069	371,621	59,267	1,748,544	181,758	905	0	0	89,217
2003	1,221,501	2,639	54,756	401,966	60,462	1,741,324	253,424	1,700	18,633	0	121,600
2002	1,117,501	4,175	46,950	348,868	52,727	1,570,221	150,150	1,745	0	0	87,189
2001	1,003,151	4,517	47,021	325,213	44,602	1,424,504	107,850	1,650	0	0	92,006
2000	919,839	11,163	46,654	276,155	41,480	1,295,291	38,007	1,402	8,727	0	74,225
1999	842,497	11,704	39,389	256,390	45,544	1,195,524	0	1,391	0	0	61,178
1998	781,429	10,963	67,869	269,165	51,662	1,181,088	137,490	1,153	0	0	66,448
1960- 1997	<u>6,749,633</u>	<u>74,532</u>	<u>869,852</u>	<u>3,167,385</u>	<u>398,873</u>	<u>11,260,275</u>	<u>2,342,722</u>	<u>4,506</u>	<u>15,676</u>	<u>10,520</u>	<u>1,711,724</u>
Total	\$18,448,064	\$131,816	\$1,357,265	\$6,679,342	\$952,651	\$27,569,138	\$3,892,703	\$38,388	\$51,735	\$10,520	\$2,750,128

*Risk charge reflects reduction for 1987 catastrophic loss credit of \$178,106.

Year	Reserves			Total
	Disability Reserve	Contingent Liability Reserve	Premium Deposit Fund	
2007	\$17,151,148	\$75,683,793	\$140,991,340	\$233,826,281
2006	15,823,671	75,175,650	131,607,871	222,607,192
2005	14,393,637	75,305,226	123,117,809	212,816,672
2004	13,588,787	72,017,608	114,855,712	200,462,107
2003	14,194,776	70,683,368	107,040,743	191,918,887
2002	13,645,555	70,171,487	100,249,667	184,066,709
2001	12,313,190	69,463,315	92,628,705	174,405,210
2000	10,443,382	68,348,884	85,827,691	164,619,957
1999	9,357,113	66,759,288	78,788,609	154,905,010
1998	9,024,206	65,206,883	72,488,388	146,719,477
1997	8,122,657	64,306,104	67,178,644	139,607,405

Year	Interest Credits on Reserves			Total	Withdrawals to Pay Health Premiums
	Disability Reserve	Contingent Liability Reserve	Premium Deposit Fund		
2007	\$929,813	\$4,325,062	\$7,670,212	\$12,925,087	\$19,344
2006	818,117	4,180,360	6,879,378	11,877,855	0
2005	816,982	4,115,015	6,738,738	11,670,735	0
2004	823,287	4,424,860	6,337,309	11,585,456	11,118
2003	867,360	4,707,408	6,542,089	12,116,857	11,898
2002	827,016	4,782,466	6,363,346	11,972,828	0
2001	745,750	4,865,755	6,146,276	11,757,781	1,301
2000	667,981	4,744,914	5,660,107	11,073,002	0
1999	610,273	4,391,757	4,970,330	9,972,360	0
1998	551,337	4,327,436	4,580,522	9,459,295	12,649
1960- 1997	<u>7,916,027</u>	<u>72,558,458</u>	<u>47,033,599</u>	<u>127,508,084</u>	<u>0</u>
Total	\$15,573,943	\$117,423,491	\$108,921,906	\$241,919,340	\$56,310

STATE OF WISCONSIN
AND LOCAL GOVERNMENTS

VIII. Funding Assumptions

A. Salaries increase annually in accordance with the following schedule:

	Percentage Increase	
<u>Age</u>	<u>State</u>	<u>Local</u>
20	6.3	7.1
25	6.3	7.1
30	6.3	7.1
35	5.1	5.4
40	4.5	4.5
45	4.2	4.0
50	3.8	3.4
55	3.8	3.4
60	3.4	3.3
65	3.4	3.3

B. Annual employee withdrawal rates are as follows:

	Withdrawals Per 1,000	
<u>Age</u>	<u>State</u>	<u>Local</u>
20	173	180
25	140	130
30	114	81
35	88	62
40	31	25
45	26	21
50	21	18
55	20	17
60	20	17

C. Annual interest rates are projected portfolio rates, assuming new money rates grade to 5.00% over 10 years beginning with the 2018 new money rate of 3.41%.

D. Expected mortality and morbidity are based on studies of the actual experience of the plan during the years 2013 through 2017. Mortality and morbidity rates are expected to improve 2% per year in the future. The Local plan valuation assumes mortality improvement beyond 2032 will be reflected in reduced premium rates. The State plan valuation assumes premium contribution rates remain at their current levels in the future.

E. Annual accidental death rates of .12 deaths per thousand for State employees and .14 deaths per thousand for employees of participating public employers are assumed at all ages under 65. These rates are based on plan experience during 2013 through 2017.

F. No explicit allowance is made for insurance company expenses or State premium taxes.

STATE OF WISCONSIN
AND WISCONSIN LOCAL GOVERNMENTS

IX. Conversion of Postretirement Life Insurance Values to Pay Health or Long-Term Care Insurance Premiums

Report on operations for 2018, the twenty-fourth year of the benefit

	<u>State Retirees</u>	<u>Local Retirees</u>
A. Number of Retirees Utilizing Benefit		
1. Utilization on December 31, 2017	213	1
2. Conversions Effective in 2018	59	0
3. Terminations During 2018		
a. Exhaustion of Conversion Account Balance	37	0
b. Death	4	0
c. Revocation of Conversion	1	0
d. Reversion to Life Insurance Plan Reserve	<u>0</u>	<u>0</u>
e. Total Terminations (a+b+c+d)	42	0
4. Adjustments	2	0
5. Utilization on December 31, 2018 (1+2-3e+4)	232	1
B. Conversion Account Activity		
1. Conversion Account Balances on December 31, 2017	\$ 1,419,776.56	\$ 34.20
2. Conversion Account Balances Established in 2018	\$ 932,796.50	\$ 0.00
3. Payments From Conversion Accounts During 2018		
a. Health Insurance Premiums	\$ 795,244.11	\$ 0.00
b. Long-term Care Insurance Premiums	108,182.87	0.00
c. Death Benefits	30,479.58	0.00
d. Revocation of Conversion	24,200.00	0.00
e. Reversion to Life Insurance Plan Reserve	0.00	0.00
f. Adjustments	<u>(454.25)</u>	<u>0.00</u>
g. Total Payments (a+b+c+d+e+f)	\$ 957,652.31	\$ 0.00
4. Conversion Account Balances on December 31, 2018 (1+2-3g)	\$ 1,394,920.75	\$ 34.20

STATE OF WISCONSIN
AND WISCONSIN LOCAL GOVERNMENTS

	<u>State Retirees</u>	<u>Local Retirees</u>
C. Cumulative Number of Retirees Utilizing Benefit - 1995 through 2018		
1. Conversions	1,023	11
2. Terminations		
a. Exhaustion of Conversion Account Balance	738	11
b. Death	47	0
c. Revocation of Conversion	4	1
d. Reversion to Life Insurance Plan Reserve	<u>12</u>	<u>0</u>
e. Total Terminations (a+b+c+d)	801	12
3. Adjustments	10	2
4. Utilization on December 31, 2018 (1-2e+3)	232	1
D. Cumulative Conversion Account Activity - 1995 through 2018		
1. Conversion Account Balances Established	\$ 12,555,265.00	\$ 80,620.50
2. Payments From Conversion Accounts		
a. Health Insurance Premiums	\$ 9,532,235.85	\$ 80,579.80
b. Long-term Care Insurance Premiums	1,309,309.39	0.00
c. Death Benefits	213,512.49	0.00
d. Revocation of Conversion	50,878.90	0.00
e. Reversion to Life Insurance Plan Reserve	55,231.53	0.00
f. Adjustments	<u>(823.91)</u>	<u>6.50</u>
g. Total Payments (a+b+c+d+e+f)	\$ 11,160,344.25	\$ 80,586.30
3. Conversion Account Balances on December 31, 2018 (1-2g)	\$ 1,394,920.75	\$ 34.20