

ACCUMULATED SICK LEAVE CONVERSION CREDIT PROGRAMS PRESENTED TO THE WISCONSIN DEPARTMENT OF EMPLOYEE TRUST FUNDS ANNUAL ACTUARIAL VALUATION DECEMBER 31, 2013



June 10, 2014

Employee Trust Funds Board Wisconsin Retirement System 801 West Badger Road Madison, Wisconsin 55713-2526

Ladies and Gentlemen:

The results of the **Annual Actuarial Valuation** of benefit liabilities and costs of the Accumulated Sick Leave Conversion Credit (ASLCC) Programs are presented in this report. This report should not be relied upon for any other purpose. The recommended contribution rates are shown below:

	University Hospital	Health and Education	Other State		
	Authority	Facility	Wiscraft	Employers	Totals
Base Rate	1.1%	1.9%	1.7%	0.8%	0.8%
Supplemental Rate	0.7%	1.2%	1.1%	0.4%	0.4%
Total	1.8%	3.1%	2.8%	1.2%	1.2%

The date of the valuation was **December 31, 2013**.

The valuation was based upon data, furnished by the Department of Employee Trust Funds, concerning retired and non-retired participants and pertinent financial information.

Future actuarial measurements may differ significantly from those presented in this report due to such factors as experience differing from that anticipated by actuarial assumptions, changes in plan provisions, actuarial assumptions/methods or applicable law. Due to the limited scope of this assignment, we did not perform an analysis of the potential range of future measurements.

The valuation was completed in accordance with standards of practice prescribed by the Actuarial Standards Board and in conformance with Chapter 40 of the Wisconsin Statutes. To the best of our knowledge, this report is complete and accurate, and the actuarial methods and assumptions produced results which are reasonable. Brian B. Murphy, Mark Buis, and James D. Anderson submitting this statement are Members of the American Academy of Actuaries (MAAA), and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. The signing actuaries are independent of the plan sponsor.

Respectfully submitted,

Brian B. Murphy,

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BBM/MB/JDA:dj



ASLCC PROGRAM BASE PLUS SUPPLEMENTAL COMPUTED TOTAL EMPLOYER CONTRIBUTION RATES

The financial objectives of the ASLCC Program are to establish and receive contributions to support benefits that will remain approximately level from year to year. Combined program valuation results for the last 10 years are presented below:

Valuation Date				UAAL* Amortization
December 31	Base	Supplemental	Total	Years
2004	0.9%	0.4%	1.3%	21
2005	0.8%	0.4%	1.2%	20
2006^	0.7%	0.3%	1.0%	19
2007	0.6%	0.2%	0.8%	18
2008	0.6%	0.2%	0.8%	17
2009^	0.8%	0.4%	1.2%	16
2010^	0.8%	0.4%	1.2%	15
2010	0.9%	0.4%	1.3%	14
2011	0.9%	0.5%	1.4%	13
_				
2013	0.8%	0.4%	1.2%	12

^{*} Unfunded actuarial accrued liabilities.

[^] Assumption change.

COMMENTS

- Based on the policy established at the June 2002 ETF Board meeting, the amortization period for unfunded actuarial accrued liabilities was closed. Therefore, the remaining period will decline one year at a time until the UAAL is fully amortized.
- The State of Wisconsin issued Pension Obligation Bonds in 2003 that paid off the majority of unfunded liabilities of the ASLCC Program.
- In computing the rates in this report, we used the Frozen Initial Liability (FIL) method. This method was used because the Pension Obligation Bond paid off unfunded liabilities for some, but not all employers, requiring separate contribution rates for some of the employers. This method is described further on page 13.
- In total, during 2013, investment return on a market value basis was above the assumed level of 7.2% on a market value basis. Under the asset valuation method, gains and losses are phased-in over a five-year period, resulting in a 10.9% return on an actuarial value of assets basis. Overall, contribution rates for the December 31, 2013 valuation decreased by 0.2% from the prior year. This was due to favorable investment performance and favorable experience on premiums.
- The Market Value of Assets exceeds the Actuarial Value of Assets by approximately 6% as of the
 valuation date. The statutory asset valuation method will recognize all of the differences between
 actuarial value and market value over four future years. The result will be downward pressure on
 contribution rates.

ASLCC PROGRAM SUMMARY OF PARTICIPANT DATA DECEMBER 31, 2013

Active Participants

	State Employees			
	(Non-University)	University	University Hospital	Total
Number	32,593	28,815	7,103	68,511
Annual Payroll	\$1,701,956,092	\$2,090,219,044	\$441,969,193	\$4,234,144,329
Accrued Unused Sick Days	2,848,160 days	2,735,644 days	320,271 days	5,904,075 days
Averages: Age	45.5 years	47.0 years	41.9 years	45.8 years
Service	12.5 years	11.4 years	9.1 years	11.7 years
Sick Leave Days	87.4 days	94.9 days	45.1 days	86.2 days

Retirees & Beneficiaries

Rate Category Without Medicare With Medicare **Total** Number* 5,042 9,124 14,166 Monthly Premiums Total \$5,365,437 \$5,702,679 \$11,068,116 Average 1,064.15 625.02 Prior Year Average 1,077.94 572.99

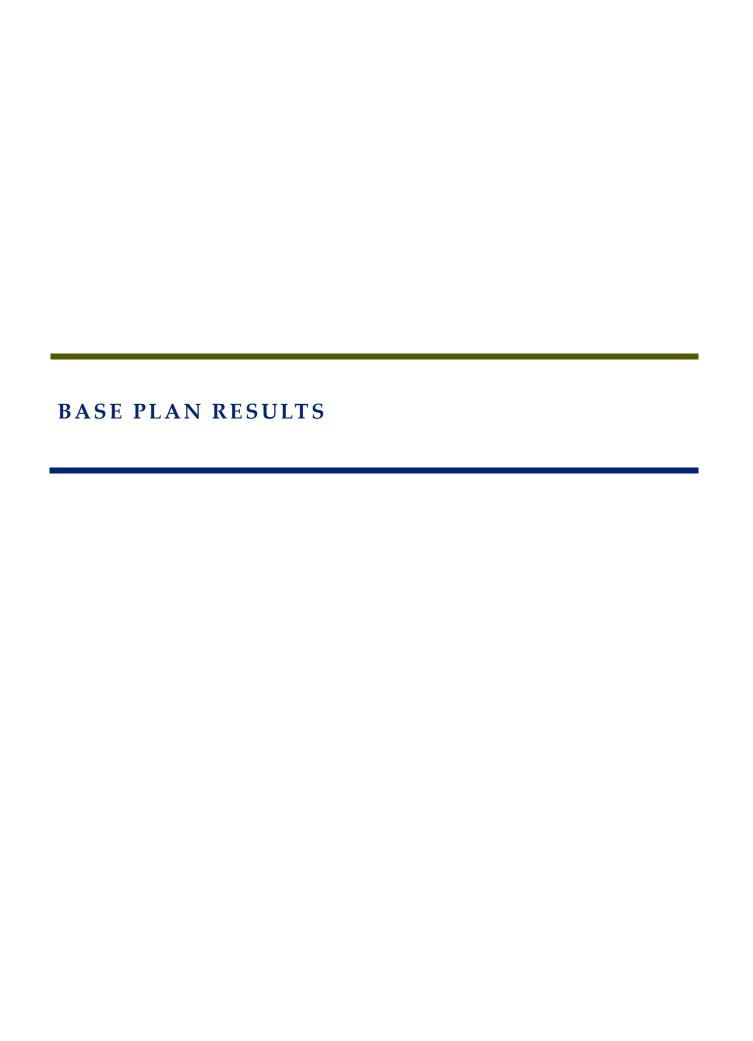
^{*} Number count does not include 5,396 escrowed annuitants.

ASLCC PROGRAM SUMMARY OF ASSETS DECEMBER 31, 2013

	Base Program	Supplemental Program	Total
Beginning Balance Adjustment	\$1,335,309,904 (1,001,806)	\$774,320,882 (703,986)	\$2,109,630,786 (1,705,792)
Adjusted Beginning Balance	\$1,334,308,098	\$773,616,896	\$2,107,924,994
Revenues			
Contributions	\$ 37,145,190	\$ 16,536,336	\$ 53,681,526
Investment Income	142,063,566	83,275,542	225,339,108
Total Revenues	\$ 179,208,756	\$ 99,811,878	\$ 279,020,634
Expenses			
Insurance Premiums	\$ 98,776,733	\$ 35,597,964	\$ 134,374,697
Administration	313,726	180,559	494,285
Total Expenses	\$ 99,090,459	\$ 35,778,523	\$ 134,868,982
Ending Balance - December 31, 2013	\$1,414,426,395	\$837,650,251	\$2,252,076,646
Internal Rate of Return	10.9%	10.9%	10.9%

ASLCC PROGRAM UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL) DECEMBER 31, 2013

	University Hospital	Health and Education		Other State	
	Authority	Facility Facility	Wiscraft	Employers	Totals
Balance December 31, 2012	\$ 15,611,032	\$ 61,810	\$ 197,632	\$ 0	\$ 15,870,474
Balance December 31, 2013	\$ 15,383,938	\$ 60,676	\$ 182,317	\$ 0	\$ 15,626,931
Base UAAL	\$ 8,088,774	\$ 34,584	\$ 99,069	\$ 0	\$ 8,222,427
Supplemental UAAL	\$ 7,295,164	\$ 26,092	\$ 83,248	\$ 0	\$ 7,404,504
Annual Payroll	\$263,507,596	\$337,425	\$1,169,449	\$3,969,129,858	\$4,234,144,329
Base Contribution Rate					
Normal Cost	0.8%	0.8%	0.8%	0.8%	0.8%
UAAL	0.3%	<u>1.1%</u>	0.9%	0.0%	<u>0.0%</u>
Total	1.1%	1.9%	1.7%	0.8%	0.8%
Supplemental Contribution Rate					
Normal Cost	0.4%	0.4%	0.4%	0.4%	0.4%
UAAL	0.3%	0.8%	0.7%	0.0%	0.0%
Total	0.7%	1.2%	1.1%	0.4%	0.4%
Total Contribution Rate	1.8%	3.1%	2.8%	1.2%	1.2%



SECTION 40.05(4)(B)

ACCUMULATED SICK LEAVE CONVERSION CREDIT PROGRAM SUMMARY OF ACCUMULATION AND PAYMENT CONDITIONS

Accumulation. The average annual sick leave balance of Wisconsin State employees (other than University employees) in 2013 was 87.4 days. Based upon an average of 12.5 years of service, this would correspond to an average annual addition of 7.0 days per year to sick leave accounts for past years. For University and University Hospital employees, the average balance was 85.1 days. Based upon an average of 11.0 years of service, this would correspond to an average annual addition of 7.7 days per year to the sick leave accounts for past years. For purposes of estimating sick leave balances at retirement, each individual was assumed to continue using sick leave at the same rate as in the past but not less than 25% nor more than 75% of the person's annual accrual rate (usually 16.25 days).

Eligibility for Payment of Accrued Sick Leave. Termination of employment with 20 or more years of service or eligibility for an immediate annuity from the Wisconsin Retirement System. State elected officials and certain state administrative officials terminating before their minimum service retirement age retain eligibility for benefits at their minimum service retirement age providing they do not elect a WRS separation benefit.

Amount of Payment for Unused Sick Leave. A conversion credit is computed at the time of retirement or death by multiplying the number of days of unused sick leave by the highest basic pay rate. The conversion credit is then used to cover the cost of health insurance premiums for the employee and eligible dependents. Unused portions are carried forward from year to year without interest and when total health insurance premiums paid on behalf of the retired employee equal or exceed the conversion credit, no further payments are made under the ASLCC program. Payments from the sick leave account may be escrowed indefinitely after retirement for participants who provide evidence of comparable health insurance coverage from another source.

40.05(4)(B) - BASE ASLCC PROGRAM DEVELOPMENT OF NORMAL COST

	December 31					
Actuarial Present Value of	2013	2012				
(1) Future Amount to be paid on behalf of present retirants and beneficiaries	\$ 385,979,471	\$ 382,077,309				
(2) Future Amount to be paid on behalf of future retirees and beneficiaries	1,354,935,103	1,293,019,202				
(3) Total Actuarial Present Value	\$ 1,740,914,574	\$ 1,675,096,511				
(4) Assets	1,414,426,394	1,335,309,904				
(5) Unfunded Actuarial Accrued Liabilities (UAAL)	\$ 8,222,427	\$ 8,528,765				
(6) Present Value of Future Normal Cost: (3) - (4) - (5)	\$ 318,265,752	\$ 331,257,842				
(7) Present Value of Future Salary	\$39,701,442,305	\$37,561,721,571				
(8) Normal Cost: (6) / (7) (not to exceed last year's rate + 0.2%)	0.8%	0.9%				

40.05(4)(B) - BASE ASLCC PROGRAM COMPUTED EMPLOYER CONTRIBUTIONS DECEMBER 31, 2013

Contributions for	Computed Employer Contribution Rate as a % of Covered Payroll
Normal Cost UAAL*	0.8% 0.0%
Total	0.8%

^{*} Unfunded actuarial accrued liabilities of \$8.2 million were amortized over 12 years. Although this results in a 0.0% of pay contribution due to rounding, unfunded liabilities are allocated to individual employers as shown on page 5 and employers having an unfunded liability will make a separate contribution towards this unfunded liability.

Discussion

The financial objective of the ASLCC program is to establish and receive contributions to support benefits that will remain approximately level from year to year. In 2003, the State of Wisconsin issued Pension Obligation Bonds which paid off the majority of unfunded liabilities of the ASLCC Program. Since unfunded liabilities remained for certain employers, the funding method was changed to the Frozen Initial Liability Actuarial Cost Method. Under this method, gains and losses arising from the difference between actual and assumed experience are reflected in the determination of the normal cost. Separate amortization schedules are established for employers with unfunded liabilities (see page 5), resulting in separate contribution rates for each participating employer.

40.05(4)(B) - BASE ASLCC PROGRAM COMPARATIVE STATEMENT OF RESULTS

		_		Average		_		Average
Valuation		Covered			Accr.	\$ Mil	lions	Computed
Date		Payroll			Sick			Employer
December 31	No. Active	\$ Millions	Age	Service	Days	Assets	UAAL	Rate
10044	50.071	Φ2 12 6 0	10.6	11.0	77.0	ф. 10 <i>с</i> 7	Ф 200 4	1.00/
1994^	58,971	\$2,136.9	43.6	11.8	77.0	\$ 186.7	\$ 380.4	1.9%
1995	57,941	2,151.9	44.2	12.5	80.3	236.8	370.1	1.9%
1996	57,920	2,184.3	44.2	12.3	79.4	283.2	354.4	1.8%
1997^#	58,872	2,260.8	44.3	12.3	79.5	337.2	251.8	1.8%
1998	60,502	2,415.5	44.4	12.2	79.9	392.9	241.9	1.9%
1999	62,158	2,521.6	44.6	12.2	81.0	457.0	260.0	1.8%
2000^	63,008	2,753.3	44.6	12.0	80.6	515.6	214.2	1.7%
2001	64,510	2,980.6	44.5	11.8	80.9	611.7	218.7	1.7%
2002	66,442	3,096.7	44.8	11.8	80.9	619.0	262.6	1.8%
2003^&	68,366	3,349.0	45.0	11.8	80.9	1,085.1	10.9	0.9%
2004	68,269	3,400.0	45.4	12.0	83.1	1,154.0	9.5	0.9%
2005	67,460	3,410.0	45.6	12.2	84.3	1,196.0	9.3	0.8%
2006^	67,892	3,592.5	45.8	12.2	85.5	1,272.7	9.2	0.7%
2007	68,789	3,726.4	45.9	12.2	87.1	1,394.4	7.2	0.6%
2008	69,720	3,878.0	45.9	12.1	85.1	1,402.8	8.9	0.6%
2009^	69,964	3,950.5	46.1	12.3	86.5	1,409.7	9.1	0.8%
2010^	69,920	3,962.1	46.3	12.3	86.9	1,416.1	9.0	0.8%
2011	66,533	3,905.5	45.9	11.9	86.2	1,373.1	8.8	0.9%
2012^	66,846	3,991.4	45.8	11.8	85.2	1,335.3	8.5	0.9%
2013	68,511	4,234.1	45.8	11.7	86.2	1,414.4	8.2	0.8%

[^] Assumption change.

[#] Benefit change.

[&]amp; Method change.



ACCUMULATED SICK LEAVE CONVERSION CREDIT PROGRAM SUPPLEMENTAL PLAN DECEMBER 31, 2013

This supplemental plan provides matching credits for participants retiring with 15 or more years of state service as follows:

• Protective: Match up to 78 hours (9.75 days) per full year of service through 24 years, plus 104 hours (13 days) per full year of service over 24 years.

• Others: Match up to 52 hours (6.5 days) per full year of service through 24 years, plus up to 104 hours (13 days) per full year of service over 24 years.

The results below are for the supplemental program only. (The results on page 7 are for the ASLCC base program only.) The supplemental plan accrued liabilities are offset by supplemental plan assets which are accounted for separately by DETF.

Contributions for	Computed Employer Contribution Rate as a % of Covered Payroll
Normal Cost UAAL*	0.4% 0.0%
Total	0.4%

^{*} Unfunded actuarial accrued liabilities of \$7.4 million were amortized over 12 years. Although this results in a 0.0% of pay contribution due to rounding, unfunded liabilities are allocated to individual employers as shown on page 5 and employers having an unfunded liability will make a separate contribution towards this unfunded liability.

The contribution rate shown above was developed based upon the active participant data as shown on page 3. This is the same data that was used in the development of the base plan rates.

$\begin{array}{c} 40.05(4)(B) - SUPPLEMENTAL\ ASLCC\ PROGRAM \\ DEVELOPMENT\ OF\ NORMAL\ COST \end{array}$

	December 31					
Actuarial Present Value of		2013		2012		
(1) Future Amount to be paid on behalf of present retirants and beneficiaries	\$	390,287,152	\$	362,031,667		
(2) Future Amount to be paid on behalf of future retirees and beneficiaries		594,195,398		591,046,768		
(3) Total Actuarial Present Value	\$	984,482,550	\$	953,078,435		
(4) Assets		837,650,251		774,320,882		
(5) Unfunded Actuarial Accrued Liabilities (UAAL)		7,404,504		7,341,709		
(6) Present Value of Future Normal Cost: (3) - (4) - (5)	\$	139,427,795	\$	171,415,844		
(7) Present Value of Future Salary	\$	39,701,442,305	\$	37,561,721,571		
(8) Normal Cost: (6) / (7)		0.4%		0.5%		

ASLCC SUPPLEMENTAL PLAN COMPARATIVE STATEMENT OF RESULTS

		_		Average		_		Average
Valuation		Covered			Accr.	\$ Mi	llions	Computed
Date		Payroll			Sick			Employer
December 31	No. Active	\$ Millions	Age	Service	Days	Assets	UAAL	Rate
2003^&	68,366	\$3,349.0	45.0	11.8	80.9	\$ 519.9	\$ 9.1	0.5%
2004	68,269	3,400.0	45.4	12.0	83.1	570.6	7.9	0.4%
2005	67,460	3,410.0	45.6	12.2	84.3	609.7	7.8	0.4%
2006^	67,892	3,592.5	45.8	12.2	85.5	670.5	7.5	0.3%
2007	68,789	3,726.4	45.9	12.2	87.1	744.4	6.5	0.2%
2008	69,720	3,878.0	45.9	12.1	85.1	757.0	7.2	0.2%
2009^	69,964	3,950.5	46.1	12.3	86.5	769.7	7.2	0.4%
2010^	69,920	3,962.1	46.3	12.3	86.9	782.3	7.2	0.4%
2011	66,533	3,905.5	45.9	11.9	86.2	771.5	7.4	0.4%
2012^	66,846	3,991.4	45.8	11.8	85.2	774.3	7.3	0.5%
2013	68,511	4,234.1	45.8	11.7	86.2	837.7	7.4	0.4%

[^] Assumption change.

For the 2000 and subsequent valuations, retiree liabilities were separately calculated for the supplemental plan.

[&]amp; Method change.



ACTUARIAL VALUATION METHOD

The actuarial funding method prescribed in the statute for WRS is the **Frozen Initial Liability Actuarial Cost Method**. This funding method is also used for the ASLCC valuation. Under this method, the amount of remaining unfunded actuarial accrued liabilities at any valuation date is affected only by the monthly amortization payments, compound interest, the added liability created by new employer units, and any added liabilities caused by changes in benefit provisions.

Actuarial gains or losses arising from the difference between actual and assumed experience are reflected in the determination of the normal cost. In this manner, experience gains or losses in any year are amortized (spread) over the average future working lifetime of the active participant group.

ASSET VALUATION METHOD

The asset valuation method used for ASLCC valuations is referred to as the "Market Recognition Account" or MRA. The MRA recognizes assumed returns fully each year. Differences between actual and assumed returns are phased-in over a closed 5-year period. The objective is to give recognition to long-term changes in asset values while minimizing the effect of short-term fluctuations in the capital markets. In accordance with its smoothing objective, the MRA will tend to exceed the market value when the markets are doing poorly, and will fall short of the market value when markets are doing well.

ACTUARIAL METHODS AND ASSUMPTIONS USED IN VALUATIONS

The principal areas of risk assumption are:

- long-term *rates of investment return* likely to be generated by system assets
- rates of mortality among participants, retirees and beneficiaries
- rates of withdrawal of active participants
- rates of disability among participants
- patterns of salary increases to be experienced by participants
- the age and service distribution of actual retirements
- future *rates of sick leave usage* by plan participants

In an actuarial valuation, the actuary projects the monetary effect of each risk assumption for each distinct experience group, for the next year and for each year over the next half-century or longer.

Once actual risk experience has occurred and been observed, it will not coincide exactly with assumed risk experience, regardless of the skill of the actuary, the completeness of the data, and the precision of the calculations. Each valuation provides a complete recalculation of assumed future risk experience and takes into account all past differences between assumed and actual risk experience. The result is a continual series of small adjustments to the computed contribution rate. From time to time it becomes necessary to adjust the package of risk measurements to reflect basic experience trends -- but not random year to year fluctuations.

The liabilities calculated in this report reflect a 3% adjustment for future contingencies. Examples of contingencies are:

- Actual data for some employers (including Health and Education Facility, Housing and Economic Development and Wiscraft) was not available at the time of this report. Based on prior calculations, they represent approximately 0.2% of total liabilities.
- Higher than the anticipated rate of increase in health care costs.

SUMMARY OF ASSUMPTIONS USED FOR ANNUAL ACTUARIAL VALUATIONS ASSUMPTIONS ADOPTED BY ETF BOARD AFTER CONSULTING WITH ACTUARY

Economic Assumptions

The long-term rates of investment return used in making the valuation was 7.2% a year, compounded yearly.

Salary adjustment factors used to project earnings for each participant between the valuation date and the participant's retirement age are shown below for sample years of service. This assumption is used to project a participant's current earnings to the earnings upon which benefits will be based.

% Merit and Longevity Increase Next Year								
		University	Public School	Prote	ective	Exec. &		
Service	General	Teachers	Teachers	With S.S.	W/O S.S.	Elec.		
1	3.5 %	3.2 %	5.8 %	4.8 %	5.5 %	2.0 %		
2	3.5 %	3.2 %	5.8 %	4.8 %	5.5 %	2.0 %		
3	3.1 %	3.1 %	5.4 %	4.1 %	4.7 %	2.0 %		
4	2.8 %	3.0 %	5.1 %	3.5 %	3.8 %	1.9 %		
5	2.5 %	2.9 %	4.7 %	2.8 %	3.0 %	1.9 %		
10	1.5 %	2.4 %	3.2 %	1.1 %	0.9 %	1.6 %		
15	1.1 %	1.7 %	1.8 %	0.8 %	0.5 %	1.2 %		
20	0.9 %	1.1 %	0.8 %	0.7 %	0.4 %	0.7 %		
25	0.6 %	0.8 %	0.4 %	0.6 %	0.3 %	0.4 %		
30	0.4 %	0.6 %	0.2 %	0.5 %	0.2 %	0.3 %		

If the number of active participants remains constant, then the total active participant payroll will increase 3.2% a year, the base portion of the individual salary increase assumptions. This increasing payroll was recognized in amortizing unfunded actuarial accrued liabilities. Premium payments from the ASLCC Program are also assumed to increase 3.2% a year. The average premium payment was used in the projection of sick leave balances.

Separate assumptions regarding secular trend of health care inflation and aging assumptions were not used. Because of the structure of the ASLCC program, use of these assumptions would not significantly affect results.

DECREMENT PROBABILITIES

The mortality table used to measure mortality for retired participants was the Wisconsin 2012 Mortality Table as adopted by the Board in connection with the 2009-2011 Experience Study. The rates in this table were based on actual WRS experience projected to 2017 with scale BB to allow for future improvements (margin) in mortality. Sample life expectancy values from this table are shown below. This assumption is used to measure the probabilities of participants dying before retirement and the probabilities of each benefit payment being made after retirement.

Single Life Expectancy Wisconsin 2012 Mortality Table

Sample Attained		re Life ncy (years)			
Ages	Males	Females			
40	42.9	46.1			
45	38.1	41.3			
50	33.3	36.5			
55	28.7	31.8			
60	24.4	27.2			
65	20.1	22.7			
70	16.1	18.4			
75	12.4	14.3			
80	9.0	10.7			
85	6.3	7.6			

The values shown above are for non-disabled participants.

ACTIVE PARTICIPANT MORTALITY RATES

Sample	Mortalit	ty Rates
Attained Ages	Males	Females
20	0.000155	0.000089
25	0.000184	0.000097
30	0.000229	0.000129
35	0.000398	0.000230
40	0.000540	0.000329
45	0.000717	0.000519
50	0.000966	0.000765
55	0.002228	0.001345
60	0.003147	0.001935
65	0.004814	0.002974
70	0.007979	0.005057
75	0.013576	0.009155
80	0.024949	0.017103

This assumption is used to measure the probability of participants dying while in service.

RATES OF RETIREMENT FOR THOSE ELIGIBLE TO RETIRE

Normal Retirement Pattern

	General		Public	School	Unive	ersity	Prote	ctive*	Exec. &
Age	Male	Female	Male	Female	Male	Female	With S.S.	W/O S.S.	Elected
50							6%	4%	
51							7%	4%	
52							8%	5%	
53							23%	17%	
54							18%	25%	
55							17%	21%	
56							16%	27%	
57	20%	17%	40%	27%	13%	14%	16%	30%	15%
58	20%	17%	35%	27%	13%	14%	16%	30%	15%
59	20%	17%	25%	27%	13%	13%	16%	30%	15%
60	20%	20%	28%	27%	13%	13%	18%	26%	10%
61	20%	20%	25%	27%	13%	19%	18%	15%	13%
62	27%	27%	36%	34%	15%	19%	22%	20%	13%
63	32%	28%	32%	27%	15%	19%	29%	40%	12%
64	24%	25%	24%	23%	15%	18%	16%	40%	12%
65	24%	25%	24%	28%	15%	22%	30%	40%	12%
66	30%	29%	25%	30%	20%	23%	20%	40%	20%
67	24%	20%	24%	28%	18%	17%	15%	40%	17%
68	17%	18%	24%	26%	18%	17%	25%	40%	15%
69	17%	18%	24%	20%	18%	17%	20%	40%	15%
70	17%	18%	20%	20%	20%	20%	100%	100%	13%
71	17%	18%	20%	20%	20%	20%	100%	100%	13%
72	17%	15%	20%	20%	15%	20%	100%	100%	25%
73	17%	15%	20%	20%	15%	20%	100%	100%	10%
74	17%	15%	20%	20%	15%	20%	100%	100%	10%
75	100%	100%	100%	100%	100%	100%	100%	100%	100%

^{*} Includes early retirements.

Early Retirement Pattern

	% Retiring Next Year									
	Gen	eral	Public	School	Univ	Exec. &				
Age	Male	Female	Male	Female	Male	Female	Elected			
55	8.0%	6.1%	12.0%	11.0%	4.8%	5.5%	4.5%			
56	8.0%	6.4%	12.0%	11.0%	3.0%	5.5%	4.5%			
57	4.3%	4.2%	12.0%	11.0%	2.0%	4.0%	4.5%			
58	5.3%	5.5%	12.0%	11.0%	2.5%	4.0%	4.5%			
59	5.5%	5.3%	12.0%	11.0%	4.0%	6.5%	4.5%			
60	7.5%	8.1%	12.0%	15.0%	4.0%	6.5%	4.5%			
61	8.0%	7.0%	12.0%	15.0%	7.5%	7.5%	4.5%			
62	14.0%	15.0%	20.0%	20.0%	7.0%	10.0%				
63	16.0%	15.0%	20.0%	20.0%	7.5%	10.0%				
64	17.0%	15.0%	20.0%	20.0%	8.0%	13.0%				

The assumed rates of separation from employment prior to service retirement due to disability and other causes are shown below for sample ages. For other terminations it was assumed that a percentage depending on age of participants terminating after age 35 with 5 or more years service will leave their contributions on deposit and be paid a benefit at normal retirement age and that the remaining participants would take a separation benefit. The percentage taking a separation benefit is 25% at age 35, grading downward to 0% at retirement eligibility. All participants terminating prior to normal retirement age with less than 5 years of service were assumed to take a separation benefit.

Assumed Termination Rates by Attained Age and Years of Service

		% of Active Participants Terminating									
		Prote	ective								
		With	Without								
		Soc.	Soc.	Public	Schools	Unive	rsity	sity Exec. &		Other	
Age	Service	Sec.	Sec.	Males	Females	Males	Females	Elected	Males	Females	
	0	15.0%	4.0%	17.7%	15.0%	18.3%	22.0%	20.0%	17.5%	19.5%	
	1	7.0%	3.5%	11.4%	10.5%	15.0%	15.0%	14.0%	13.0%	13.5%	
	2	4.3%	2.1%	7.3%	7.1%	11.3%	12.5%	14.0%	8.5%	10.0%	
	3	3.8%	1.3%	5.2%	5.5%	9.6%	10.0%	10.0%	6.8%	8.0%	
	4	3.4%	1.2%	3.9%	4.6%	8.5%	9.5%	10.0%	6.0%	7.4%	
	5	2.6%	1.1%	3.0%	4.0%	7.5%	8.0%	9.0%	4.5%	6.0%	
	6	2.5%	1.0%	2.8%	3.5%	7.0%	7.0%	8.5%	4.0%	5.0%	
	7	2.3%	0.9%	2.5%	3.0%	5.5%	6.0%	8.0%	3.5%	4.5%	
	8	2.0%	0.8%	2.0%	2.5%	4.3%	5.0%	7.5%	3.0%	4.0%	
	9	1.7%	0.7%	1.8%	2.3%	3.2%	4.0%	7.0%	2.5%	3.8%	
25	10 & Over	1.7%	0.7%	1.8%	2.2%	3.2%	5.0%	6.0%	2.5%	3.8%	
30		1.6%	0.7%	1.4%	1.9%	3.2%	4.5%	5.1%	2.5%	3.3%	
35		1.4%	0.7%	1.2%	1.4%	3.1%	4.0%	4.2%	2.1%	2.8%	
40		1.2%	0.6%	1.1%	1.1%	2.7%	3.4%	3.7%	1.6%	2.2%	
45		1.1%	0.6%	1.0%	0.9%	2.1%	2.6%	3.3%	1.3%	1.8%	
50		1.0%	0.5%	1.0%	0.9%	1.6%	1.8%	3.1%	1.1%	1.6%	
55		1.0%	0.5%	1.0%	0.9%	1.4%	1.5%	3.0%	1.1%	1.5%	
60		1.0%	0.5%	1.0%	0.9%	1.4%	1.5%	3.0%	1.1%	1.5%	

Disability Rates

	% of Active Participants Becoming Disabled										
	Protective		Protective Public Schools		Univ	University		Exec. & Elected		Other	
Age	With SS	W/O SS	Males	Females	Males	Females	Males	Females	Males	Females	
20	0.01%	0.04%	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%	0.01%	0.01%	
25	0.01%	0.04%	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%	0.01%	0.01%	
30	0.01%	0.04%	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%	0.01%	0.03%	
35	0.02%	0.04%	0.01%	0.01%	0.01%	0.03%	0.01%	0.01%	0.01%	0.04%	
40	0.03%	0.07%	0.02%	0.02%	0.01%	0.04%	0.01%	0.01%	0.04%	0.05%	
45	0.05%	0.13%	0.04%	0.06%	0.02%	0.04%	0.01%	0.01%	0.07%	0.07%	
50	0.08%	0.74%	0.11%	0.12%	0.04%	0.07%	0.02%	0.02%	0.15%	0.11%	
55	1.21%	0.54%	0.21%	0.17%	0.11%	0.10%	0.09%	0.09%	0.29%	0.20%	
60	2.04%	0.16%	0.34%	0.25%	0.14%	0.15%	0.11%	0.11%	0.51%	0.29%	



June 10, 2014

Mr. Robert Conlin Wisconsin Department of Employee Trust Funds 801 West Badger Road Madison, Wisconsin 53713

Re: Accumulated Sick Leave Conversion Credit Programs

Dear Bob:

Enclosed are 40 bound copies and 20 stapled black and white copies of the report of the December 31, 2013 annual actuarial valuations of the ASLCC Programs.

Sincerely,

Mark Buis, FSA, EA, MAAA

MB:dj Enclosures