# Minnesota State Retirement System

Legislators Retirement Fund Actuarial Valuation Report as of July 1, 2024





November 26, 2024

Minnesota State Retirement System Legislators Retirement Fund St. Paul, Minnesota

Dear Board of Directors:

The results of the July 1, 2024 annual actuarial valuation of the Legislators Retirement Fund are presented in this report. This report was prepared at the request of the Board and is intended for use by the Board and staff and those designated or approved by the Board. This report may be provided to parties other than the Board and staff only in its entirety. GRS is not responsible for the consequences of any unauthorized use of this report by parties other than the intended users described above.

The purpose of the valuation is to measure the Fund's funding progress and to determine the required contribution rate for the fiscal year beginning July 1, 2024, according to the prescribed assumptions. Note that the impact of GASB Statements No. 67 and No. 68 is provided in a separate report. This report should not be relied on for any purpose other than the purpose described herein. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215, the Legislative Commission on Pensions and Retirement (LCPR), and the Board of Directors. These parties are responsible for selecting the plan's funding policy, actuarial valuation methods, asset valuation methods and assumptions. The policies, methods and assumptions used in this valuation are those that have been so prescribed and are described in the Actuarial Basis section of this report. MSRS is solely responsible for communicating to GRS any changes required thereto.

All actuarial assumptions used in this report are reasonable for the purposes of this valuation. The combined effect of the assumptions is expected to have no significant bias (i.e., not significantly optimistic or pessimistic). All actuarial assumptions and methods used in the valuation follow the guidance in the applicable Actuarial Standards of Practice. Additional information about the actuarial assumptions is included in the Actuarial Basis section of this report.

The combined effect of the assumptions is expected to have no significant bias (i.e., not significantly optimistic or pessimistic). All actuarial assumptions and methods used in the valuation follow the guidance in the applicable Actuarial Standards of Practice. Additional information about the actuarial assumptions is included in the section of this report included in the Actuarial Basis section of this report.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in the Actuarial Basis section of this report. This report does not include a robust assessment of risk of future experience differing materially from the actuarial assumptions. We encourage a review and assessment of investment and other significant risks that may have a material effect on the plan's financial condition. Board of Directors Minnesota State Retirement System November 26, 2024 Page 2

We have assessed that the contribution rate calculated under the current funding policy is a reasonable Actuarially Determined Employer Contribution (ADEC) and it is consistent with the plan accumulating adequate assets to make benefit payments when due.

The valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise. Therefore, we did not make such a determination.

The findings in this report are based on data and other information through June 30, 2024. The valuation was based upon information furnished by the Minnesota State Retirement System (MSRS), concerning benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not audit the data. We are not responsible for the accuracy or completeness of the information provided by MSRS.

The Required Contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with Minnesota Statutes and the requirements of the Standards for Actuarial Work published by the LCPR. The timely receipt of the actuarially determined contributions is critical to support the financial health of the plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.

This report was prepared using our proprietary valuation model and related software which, in our professional judgment, has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

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

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge and belief, the information contained in this report is accurate and presents the actuarial position of the Legislators Retirement Fund as of the valuation date according to the prescribed assumptions, and was performed in accordance with the requirements of Minnesota Statutes Section 356.215, and the requirements of the Standards for Actuarial Work established by the LCPR. All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.



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The signing actuaries are independent of the plan sponsor. We are not aware of any relationship that would impair the objectivity of our work.

Bonita J. Wurst and Sheryl L. Christensen 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. In addition, GRS meets the requirements of "approved actuary" under Minnesota Statutes Section 356.215, Subdivision 1, Paragraph (c).

We are available to answer any questions or provide further details.

Respectfully submitted, Gabriel, Roeder, Smith & Company

Bonito J. Wurst

Bonita J. Wurst, ASA, EA, FCA, MAAA

Sheryl Christensen

Sheryl L. Christensen, FSA, EA, FCA, MAAA

BJW/SLC:sc



### **Other Observations**

#### General Implications of Contribution Allocation Procedure or Funding Policy on Future Expected Plan Contributions and Funded Status

Given the plan's pay-as-you-go contribution policy, if there are no changes in benefits or contributions and all actuarial assumptions are met (including the statutory assumption of the plan's assets earning 0.00%), it is expected that:

- (1) The funded status of the plan will remain at 0%; and
- (2) The fund will be completely dependent upon current contributions to pay benefits.

#### **Limitations of Funded Status Measurements**

Unless otherwise indicated, a funded status measurement presented in this report is based upon the actuarial accrued liability and the market value of assets. Unless otherwise indicated, with regard to any funded status measurements presented in this report:

- (1) The measurement is inappropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations; in other words, of transferring the obligations to an unrelated third party in an arm's length market value type transaction.
- (2) The measurement is dependent upon the actuarial cost method which, in combination with the plan's amortization policy, affects the timing and amounts of future contributions. The amounts of future contributions will most certainly differ from those assumed in this report due to future actual experience differing from assumed experience based upon the actuarial assumptions. A funded status measurement in this report of 100% is not synonymous with no required future contributions. If the funded status were 100%, the plan would still require future normal cost contributions (i.e., contributions to cover the cost of the active membership accruing an additional year of service credit).

#### **Limitations of Project Scope**

Actuarial standards do not require the actuary to evaluate the ability of the plan sponsor or other contributing entity to make required contributions to the plan when due. Such an evaluation was not within the scope of this project and is not within the actuary's domain of expertise. Consequently, the actuary performed no such evaluation.



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#### Contributions

The following table summarizes important contribution information as described in the Development of Costs section.

		Actuarial Valu	uation a	is of	
<b>Total Contributions</b> (dollars in thousands)	J	uly 1, 2024	Jul	y 1, 2023	
Statutory Contributions - Chapter 3A	\$	40 *	\$	130 *	Λ
Required Contributions - Chapter 356	\$	73,481	\$	53,483	
Sufficiency / (Deficiency)	\$	(73,441) *	\$	(53,353) *	Λ

\*Active member contributions to the Legislators Retirement Plan are equal to 9% of payroll. ^ Includes \$91 thousand in one-time direct State aid payable in October, 2023.

This plan has been closed to new members since July 1, 1997.

Required contributions are defined in statutes and the LCPR Standards for Actuarial Work and represent the amount needed to fully fund the plan within 2 years. The Required Contribution includes not only the expected benefit payments for the year, but also amounts intended to pre-fund future benefit payments. Actual contributions have been less than the Required Contribution amount since 1999. The funding target identified by Chapter 356 will not be met given the history of actual contributions made to the Fund.

This plan is currently funded on a pay-as-you-go basis by annual appropriations from the State's General Fund. For the fiscal year ending June 30, 2024, total contributions were \$8.9 million and total expenditures were \$8.9 million.

Because of the pay-as-you-go funding policy described above, an important risk for this plan is contribution risk. The ability of the fund to pay benefits in the future is critically dependent upon timely receipt of the contributions from the State's General Fund. The actuary cannot judge the probability that such payments will, in fact, be made. See page 5 for the expected benefit payments based on current data methods and assumptions.

The ratio of retiree liabilities to total accrued liabilities gives an indication of the maturity of the System. As the ratio increases, cash flow needs increase, and the liquidity needs of the portfolio changes. A ratio on the order of 50% indicates a maturing system. The ratio of retiree liabilities to total accrued liabilities as of July 1, 2024 is 87.0%, up from 86.5% in the prior year.

Participant reconciliation and statistics are detailed in the *Membership Data* section. The *Actuarial Basis* section includes a summary of plan provisions and actuarial methods and assumptions used for the calculations in this report.

Accounting information prepared according to GASB Statements No. 67 and No. 68 has been provided in a separate report dated November 22, 2024.



A summary of principal valuation results from the current valuation and the prior valuation follows. Any changes in plan provisions, actuarial assumptions or valuation methods and procedures between the two valuations are described after the summary.

	Actuarial Valuation as of			n as of
	Ju	ly 1, 2024	Ju	ly 1, 2023
Assumptions				
- Pre-retirement discount rate		0.0%		0.0%
- Post-retirement discount rate		0.0%		0.0%
Total Contributions (dollars in thousands)				
Statutory - Chapter 3A	\$	40 *	\$	130 *#
Required - Chapter 356		73,481 ^		53,483
Sufficiency / (Deficiency)		(73,441) *^		(53,353) *#
Funding Ratios (dollars in thousands)				
Accrued Liability Funding Ratio				
- Current assets (AVA)	\$	-	\$	-
- Actuarial accrued liability		145,768		158,755
- Unfunded actuarial accrued liability		145,768		158,755
- Funding ratio		0.00%		0.00%
Projected Benefit Funding Ratio				
- Current and expected future assets	\$	-	\$	144
- Current and expected future benefit obligations		146,757		159,788
- Projected benefit funding ratio		0.00%		0.09%
Participant Data				
Active Members				
- Number		7		7
- Actual covered payroll [GASB] (000s)	\$	422	\$	544
- Annual valuation earnings (000s)	\$	428	\$	416
- Average annual valuation earnings	\$	61,200	\$	59,496
- Projected annual earnings (000s)	\$	447	\$	434
- Average projected annual earnings	\$	63,801	\$	62,024
- Average age		72.4		71.4
- Average service		35.8		34.8
Service retirements		249		256
Survivors		85		93
Disability retirements		0		0
Deferred retirements		16		19
Non-vested terminations eligible for refund only		0		0
Total		357		375

\* Active member contributions from the Legislators Retirement Plan are equal to 9% of payroll.

A Expected benefit payments for the fiscal year ending June 30, 2025 are \$8,625,000. The total contribution (employer plus active member) will need to be approximately this amount. The Required Contribution also includes amounts intended to pre-fund future benefit payments.

# Includes \$91 thousand in one-time direct State aid payable in October 2023.



### **Effects of Changes**

The following changes in plan provisions were recognized as of July 1, 2024, but did not have an immediate cost impact:

• The actuarial equivalent factors were updated to reflect changes in assumptions.

The following changes in plan assumptions were recognized as of July 1, 2024:

- The mortality improvement scale was changed from MP-2018 to MP-2021.
- Mortality rate adjustments were modified as recommended in the July 20, 2023 review of actuarial assumptions.

Refer to the Actuarial Basis section of this report for a complete description of these changes. The combined impact of the above changes was to decrease the accrued liability by \$4.1 million and decrease the required contribution by \$2.0 million, as follows:

			eflecting sumption
(dollars in thousands)	Befo	re Changes	Changes
Normal Cost	\$	566	\$ 556
Amortization of UAAL*		74,922	72,884
Expenses	\$	41	\$ 41
Total Required Contribution	\$	75,529	\$ 73,481
Accrued Liability Funding Ratio		0.00%	0.00%
Projected Benefit Funding Ratio		0.00%	0.00%
UAAL*	\$	149,843	\$ 145,768

\*Unfunded Actuarial Accrued Liability.



### **Undiscounted Cash Flows**

Fiscal Year Ending		jected Benefit Payments	Fiscal Year Ending	Pro	ojected Benefit Payments	Fiscal Year Ending		jected Benefit Payments
2025	\$	8,625,000	2058	\$	432,000	2091	\$	-
2026	Ŧ	8,624,000	2059	Ŧ	352,000	2092	Ŧ	-
2027		8,631,000	2060		283,000	2093		-
2028		8,437,000	2061		225,000	2094		-
2029		8,176,000	2062		177,000	2095		-
2030		7,884,000	2063		137,000	2096		-
2031		7,572,000	2064		105,000	2097		-
2032		7,265,000	2065		79,000	2098		-
2033		6,921,000	2066		59,000	2099		-
2034		6,569,000	2067		43,000	2100		-
2035		6,213,000	2068		31,000	2101		-
2036		5,855,000	2069		22,000	2102		-
2037		5,497,000	2070		16,000	2103		-
2038		5,142,000	2071		11,000	2104		-
2039		4,790,000	2072		7,000	2105		-
2040		4,445,000	2073		5,000	2106		-
2041		4,107,000	2074		3,000	2107		-
2042		3,778,000	2075		2,000	2108		-
2043		3,458,000	2076		1,000	2109		-
2044		3,149,000	2077		1,000	2110		-
2045		2,853,000	2078		-	2111		-
2046		2,571,000	2079		-	2112		-
2047		2,303,000	2080		-	2113		-
2048		2,051,000	2081		-	2114		-
2049		1,815,000	2082		-	2115		-
2050		1,596,000	2083		-	2116		-
2051		1,394,000	2084		-	2117		-
2052		1,209,000	2085		-	2118		-
2053		1,040,000	2086		-	2119		-
2054		888,000	2087		-	2120		-
2055		752,000	2088		-	2121		-
2056		631,000	2089		-	2122		-
2057		525,000	2090		-	2123		-
						2124		-

Total for all years:

\$ 146,757,000



## Low-Default-Risk Obligation Measure

Actuarial Standards of Practice No. 4 (ASOP No. 4) was revised and reissued in December 2021 by the Actuarial Standards Board (ASB). It includes a new calculation called a Low-Default-Risk Obligation Measure (LDROM) to be prepared and issued annually for defined benefit pension plans. The transmittal memorandum for ASOP No. 4 includes the following explanation:

"The ASB believes that the calculation and disclosure of this measure provides appropriate, useful information for the intended user regarding the funded status of a pension plan. The calculation and disclosure of this additional measure is not intended to suggest that this is the "right" liability measure for a pension plan. However, the ASB does believe that this additional disclosure provides a more complete assessment of a plan's funded status and provides additional information regarding the security of benefits that members have earned as of the measurement date."

The following information has been prepared in compliance with this new requirement. Unless otherwise noted, the measurement date, actuarial cost methods, and assumptions used are the same as for the funding valuation covered in this actuarial valuation report.

- A. Low-Default-Risk Obligation Measure of benefits earned as of the measurement date: \$90,161,000
- B. Discount rate used to calculate the LDROM: 5.35% (Based on the FTSE Pension Liability Index as of the valuation date)
- C. Other significant assumptions that differ from those used for the funding valuation: none
- D. Actuarial cost method used to calculate the LDROM: Entry Age Actuarial Cost Method
- E. Valuation procedures to value any significant plan provisions that are difficult to measure using traditional valuation procedures, and that differ from the procedures used in the funding valuation: none
- F. The LDROM is a market-based measurement of the pension obligation. It estimates the amount the plan would need to invest in low risk securities to provide the benefits with greater certainty. This measure may not be appropriate for assessing the need for or amount of future contributions. This measure may not be appropriate for assessing the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligation.

Funding Valuation Actuarial Accrued Liability:	\$145,768,000
LDROM:	\$90,161,000
Difference:	\$55,607,000



## **Supplemental Information**

The remainder of the report includes information supporting the results presented in the previous sections.

- Plan assets present information about the plan's assets as reported by the Minnesota State Retirement System. The assets represent the portion of total fund liabilities that has been funded.
- Membership data presents and describes the membership data used in the valuation.
- **Development of costs** shows the liabilities for plan benefits and the derivation of the contribution amount.
- Actuarial basis describes the plan provisions, as well as the methods and assumptions used to value the plan. The valuation is based on the premise that the plan is ongoing.
- Additional schedules include a summary of funding progress over the long term.
- **Glossary** defines the terms used in this report.



## **Plan Assets**

	_	Marke	et Value	
Assets	June	30, 2024	June	30, 2023
Cash, equivalents, short term securities Fixed income	\$	176	\$	227
Equity Other		-		-
Total cash, investments, and other assets	\$	176	\$	227
Amounts Receivable		4		2
Total Assets	\$	180	\$	229
Amounts Payable		(180)		(229)
Net Position Restricted for Pensions	\$	-	\$	-



## **Plan Assets**

### **Reconciliation of Plan Assets (Dollars in Thousands)**

The following exhibit shows the revenue, expenses and resulting assets of the Fund as reported by the Minnesota State Retirement System for the prior two fiscal years.

Change in Assets	Market Value				
Year Ending	June	e 30, 2024	June	e <b>30, 2023</b>	
1. Fund balance at market value at beginning of year	\$	-	\$	-	
2. Contributions					
a. Member		38		49	
b. Employer		-		-	
c. Other sources (annual appropriations from State's General Fund)		8,813		8,699	
d. Total contributions	\$	8,851	\$	8,748	
3. Investment income					
a. Investment income/(loss)		-		-	
b. Investment expenses		-		-	
c. Net investment income/(loss)	\$	-	\$	-	
4. Other		-		-	
5. Total income: (2.d.) + (3.c.) + (4.)	\$	8,851	\$	8,748	
6. Benefits paid					
a. Annuity benefits	\$	(8,811)	\$	(8,712)	
b. Refunds		-		-	
c. Total benefits paid	\$	(8,811)	\$	(8,712)	
7. Expenses					
a. Other	\$	-	\$	-	
b. Administrative		(40)		(36)	
c. Total expenses	\$	(40)	\$	(36)	
8. Total disbursements: (6.c.) + (7.c.)	\$	(8,851)	\$	(8,748)	
9. Fund balance at market value at end of year: (1.) + (5.) + (8.)	\$	-	\$	-	
10. State Board of Investment calculated investment return		N/A		N/A	

#### **Actuarial Asset Value**

The Actuarial Value of Assets (AVA) is equal to the Market Value of Assets (consistent with valuations since July 1, 2000).



#### **Distribution of Active Members**

				Years	of Service a	s of June 30	) <u>, 2</u> 0	24				
Age	<3*	3 - 4	5 - 9	10 - 14	15 - 19	20 - 24	2	5 - 29	3	80 - 34	 35+	Total
< 25												
Avg. Earnings												
25 - 29												
Avg. Earnings												
30 - 34												
Avg. Earnings												
35 - 39												
Avg. Earnings												
40 - 44												
Avg. Earnings												
45 - 49												
Avg. Earnings												
50 - 54												
Avg. Earnings												
55 - 59												
Avg. Earnings												
60 - 64												
Avg. Earnings												
65 - 69										1	2	3
Avg. Earnings									\$	63,064	\$ 60,242	\$ 61,183
70+								1			3	4
Avg. Earnings							\$	60,634			\$ 61,407	\$ 61,214
Total								1		1	5	7
Avg. Earnings							\$	60,634	\$	63,064	\$ 60,941	\$ 61,200

\* This exhibit does not reflect service earned in other MSRS Plans or service earned in a Combined Service Annuity arrangement. It should not be relied upon as an indicator of non-vested status.

In each cell, the top number is the count of active participants for the age/service combination and the bottom number is average valuation earnings for the fiscal year ending on the valuation date.



#### **Distribution of Service Retirements**

						Years	s Re	etired as	of J	une 30, 2	024	ł				
Age		<1		1 - 4		5 - 9	1	0 - 14	1	.5 - 19	2	0 - 24		25+		Total
<50																
Avg. Benefit																
F0 F4																
50 - 54																
Avg. Benefit																
55 - 59																
Avg. Benefit																
																_
60 - 64		2		2		1										5
Avg. Benefit	Ş	17,059	Ş	35,946	Ş	9,564									\$	23,115
65 - 69				8		8		1								17
Avg. Benefit			\$	27,151	\$	20,350	\$	15,426							\$	23,261
C				-		-									-	-
70 - 74		1		7		17		15		4						44
Avg. Benefit	\$	2,265	\$	33,386	\$	32,662	\$	30,443	\$	19,514					\$	30,135
75 - 79				3		5		21		16		10				55
Avg. Benefit			ć	د 29,893	ć		ć		ć	20,887	ć				\$	23,627
Avg. Benefit			Ş	29,893	Ş	32,205	Ş	24,990	Ş	20,887	Ş	18,980			Ş	23,027
80 - 84				5		3		7		23		26		1		65
Avg. Benefit			\$	41,987	\$	52,712	\$	25,977	\$	21,296	\$	20,187	\$	21,232	\$	24,397
85 - 89				1		2		5		2		12		13		35
Avg. Benefit			Ş	69,016	Ş	41,891	Ş	33,911	Ş	20,059	\$	22,372	Ş	23,969	Ş	26,929
90+										1		5		22		28
Avg. Benefit									\$		\$	40,799	\$		\$	
															-	
Total		3		26		36		49		46		53		36		249
Avg. Benefit	\$	12,128	\$	34,286	\$	31,405	\$	27,515	\$	21,013	\$	22,399	\$	28,116	\$	26,396

In each cell, the top number is the count of retired participants for the age/years retired combination and the bottom number is the average annual benefit amount.



#### **Distribution of Survivors**

			Years S	inc	e Death a	as o	of June 30	), 2(	)24		
Age	<1	1 - 4	5 - 9	1	.0 - 14	1	5 - 19	2	0 - 24	25+	Total
<45											
Avg. Benefit											
45 - 49											
Avg. Benefit											
50 - 54											
Avg. Benefit											
55 - 59											
Avg. Benefit											
60 - 64		1									1
Avg. Benefit		\$ 25,521									\$ 25,521
65 - 69	1	1	1		1		1				5
Avg. Benefit	\$ 29,717	\$ 8,962	\$ 16,726	\$	7,421	\$	14,963				\$ 15,558
70 - 74	1	3	2								6
Avg. Benefit	\$ 7,239	\$ 36,239	\$ 20,419								\$ 26,133
75 - 79		2	4		3		1		2		12
Avg. Benefit		\$ 3,771	\$ 23,169	\$	33,345	\$	42,485	\$	28,053		\$ 24,904
80 - 84	2	7	2		1		2			2	16
Avg. Benefit	\$ 23,873	\$ 29,232	\$ 29,118	\$	18,572	\$	14,601			\$ 40,187	\$ 27,422
85 - 89	1	7	6				3			2	19
Avg. Benefit	\$ 16,258	\$ 23,580	\$ 30,251			\$	19,164			\$ 13,620	\$ 23,556
90+	1	8	6		7				1	3	26
Avg. Benefit	\$ 7,088	\$ 15,061	\$ 21,819	\$	13,687			\$	3,356	\$ 32,427	\$ 17,497
Total	6	29	21		12		7		3	7	85
Avg. Benefit	\$ 18,008	\$ 22,100	\$ 24,804	\$	18,486	\$	20,592	\$	19,820	\$ 29,271	\$ 22,355

In each cell, the top number is the count of survivors for the age/years since death combination and the bottom number is the average annual benefit amount.



### **Reconciliation of Members**

		Termi	nated		Recipients		
		Deferred	Other Non-	Service	Disability		
	Actives	Retirement	Vested	Retirement	Retirement	Survivor	Total
Members on 7/1/2023	7	19	0	256	0	93	375
Additions	0	0	0	0	0	0	0
Return to active	0	0	0	0	0	0	0
Terminated non-vested	0	0	0	0	0	0	0
Service retirements	0	(3)	0	3	0	0	0
Terminated deferred	0	0	0	0	0	0	0
Terminated refund/transfer	0	0	0	0	0	0	0
Deaths	0	0	0	(10)	0	(13)	(23)
New beneficiary	0	0	0	0	0	5	5
Disabled	0	0	0	0	0	0	0
Unexpected status changes	0	0	0	0	0	0	0
Net change	0	(3)	0	(7)	0	(8)	(18)
Members on 6/30/2024	7	16	0	249	0	85	357

### Summary of Membership

Active Member Statistics	Total
Number	7
Average age	72.4
Average service	35.8
Average salary	\$ 61,200

	Deferred	Other Non-	
Terminated Member Statistics	Retirement	Vested	Total
Number	16	0	16
Average age	62.6	N/A	62.6
Average service	10.8	N/A	10.8
Average annual benefit	\$22,011	N/A	\$22,011
Average refund value	\$100,440	N/A	\$100,440

	S	ervice	Disabled			
<b>Retiree &amp; Survivor Member Statistics</b>	Re	etirees	Retirees	Su	rvivors	Total
Number		249	-		85	334
Average age		79.6	N/A		84.3	80.9
Average annual benefit	\$	26,396	N/A	\$	22,355	\$ 25,368



#### Actuarial Valuation Balance Sheet (Dollars in Thousands)

The actuarial balance sheet is based on the principle that the long-term projected benefit obligations of the plan should be ideally equal to the long-term resources available to fund those obligations. **A Projected Benefit Funding Ratio less than 100% indicates that contributions are insufficient.** The resources available to meet projected obligations for current members consist of current fund assets plus the present value of anticipated future contributions intended to fund benefits for current members. In the exhibit below, since statutory contributions are less than normal cost, B.2. is equal to the member statutory contribution rate, minus expenses, times the present value of future payroll, and Item B.1 is zero, as required by the LCPR Standards for Actuarial Work. Item D. Current Benefit Obligations, is the liability based on current service and projected compensation (the Entry Age Normal cost method is used to determine liabilities and contributions elsewhere in the report). Future pay-as-you-go contributions are not reflected in this exhibit.

	June 3	0, 2024
A. Actuarial Value of Assets	\$	-
B. Expected Future Assets		
1. Present value of expected future statutory supplemental contributions		-
<ol><li>Present value of future normal cost contributions*</li></ol>		-
3. Total expected future assets: (1.) + (2.)	\$	-
C. Total Current and Expected Future Assets	\$	-

D. Current Benefit Obligations**				
1. Benefit recipients	Non-V	ested	 Vested	 Total
a. Service retirements	\$	-	\$ 107,267	\$ 107,267
b. Disability retirements		-	-	-
c. Survivors		-	19,590	19,590
2. Deferred retirements		-	11,419	11,419
3. Former members without vested rights		-	-	-
4. Active members		-	 8,073	 8,073
5. Total Current Benefit Obligations	\$	-	\$ 146,349	\$ 146,349
E. Expected Future Benefit Obligations				\$ 408
F. Total Current and Expected Future Benefit Obligations***				\$ 146,757
G. Unfunded Current Benefit Obligations: (D.5.) - (A.)				\$ 146,349
H. Unfunded Current and Future Benefit Obligations: (F.) - (C.)				\$ 146,757
I. Accrued Benefit Funding Ratio: (A.)/(D.5.)				0.00%
J. Projected Benefit Funding Ratio: (C.)/(F.)				0.00%

\* Based on a present value of future payroll of \$894,000.

\*\* Present value of credited projected benefits (projected compensation, current service).

\*\*\*Present value of projected benefits (projected compensation, projected service).



#### Determination of Unfunded Actuarial Accrued Liability and Supplemental Contribution Rate (Dollars in Thousands)

	Value	rial Present of Projected enefits	Value		Act	uarial Accrued Liability
A. Determination of Actuarial Accrued Liability (AAL)						
1. Active members						
a. Retirement annuities	\$	8,394	\$	938	\$	7,456
b. Disability benefits		-		-		-
c. Survivor's benefits		87		24		63
d. Deferred retirements		-		24		(24)
e. Refunds*		-		3		(3)
f. Total	\$	8,481	\$	989	\$	7,492
2. Deferred retirements		11,419		-		11,419
3. Former members without vested rights		-		-		-
4. Benefit recipients		126,857		-		126,857
5. Total	\$	146,757	\$	989	\$	145,768
B. Determination of Unfunded Actuarial Accrued Liability	(UAAL)					
1. Actuarial accrued liability					\$	145,768
2. Current assets (AVA)						-
3. Unfunded actuarial accrued liability					\$	145,768
C. Determination of Supplemental Contribution Rate						
1. Current unfunded actuarial accrued liability to be						
amortized by June 30, 2026					\$	145,768
2. Supplemental contribution amount						72,884 **
* Includes non-vested refunds and non-married survivor	benefits c	only.				

\*\* The amortization factor as of July 1, 2024 is 2.00000.



### Changes in Unfunded Actuarial Accrued Liability (UAAL) (Dollars in Thousands)

	ar Ending e 30, 2024
A. Unfunded actuarial accrued liability at beginning of year	\$ 158,755
<ul> <li>B. Changes due to interest requirements and current rate of funding</li> <li>1. Normal cost, including expenses</li> <li>2. Contributions</li> <li>3. Interest on A., B.1. and B.2.</li> </ul>	584 (8,851) -
4. Total (B.1. + B.2. + B.3.)	\$ (8,267)
C. Expected unfunded actuarial accrued liability at end of year (A. + B.4.)	\$ 150,488
D. Increase (decrease) due to actuarial losses (gains) because of experience deviations from expected	
1. Age and service retirements	(24)
2. Disability retirements	-
3. Death-in-service benefits	11
4. Withdrawals	-
5. Salary increases	(26)
6. Investment income	-
7. Mortality of annuitants	668
8. Other items	(1,274)
9. Total	\$ (645)
E. Unfunded actuarial accrued liability at end of year before plan amendments and changes in actuarial assumptions (C. + D.9.)	\$ 149,843
F. Change in unfunded actuarial accrued liability due to changes in plan provisions	-
G. Change in unfunded actuarial accrued liability due to changes in actuarial assumptions	(4,075)
H. Change in unfunded actuarial accrued liability due to changes in actuarial methods	-
I. Unfunded actuarial accrued liability at end of year (E. + F. + G. + H.)	\$ 145,768



#### **Determination of Contribution Sufficiency/(Deficiency)\***

The required contribution is defined in Minnesota Statutes as the sum of normal cost, a supplemental contribution to amortize the UAAL, and an allowance for expenses. The dollar amounts shown are for illustrative purposes and equal percent of payroll multiplied by projected annual payroll.

	Percent of Payroll	Dollar ount (000s)
A. Statutory Contributions - Chapter 3A		
1. Employee contributions	9.00%	\$ 40
2. Employer contributions	0.00%	-
3. One-time direct State aid*	0.00%	-
4. Total	9.00%	\$ 40
B. Required Contributions - Chapter 356		
1. Normal cost		
a. Retirement benefits	117.67%	\$ 526
b. Disability benefits	0.00%	-
c. Survivors	2.91%	13
d. Deferred retirement benefits	3.36%	15
e. Refunds	0.45%	2
f. Total	124.39%	\$ 556
2. Supplemental contribution amortization of Unfunded		
Actuarial Accrued Liability by June 30, 2026	16,305.15%	\$ 72,884
3. Allowance for expenses	9.22%	 41
4. Total	16,438.76% *	\$ 73,481
C. Contribution Sufficiency/(Deficiency) (A.4 B.4.)	(16,429.76)%	\$ (73,441)

\* Plan is funded by annual appropriations from the State's General Fund. Estimated benefit payments of \$8,625,000 are expected to be paid during the upcoming fiscal year.

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$447 (determined by increasing reported pay for each member by one full year's assumed pay increase according to the actuarial salary scale, as prescribed by the LCPR Standards for Actuarial Work).



#### **Elective State Officers Retirement Plan (Dollars in Thousands)**

The Elective State Officers Retirement Plan was consolidated with the Legislators Retirement Plan on July 1, 2013, per 2013 legislation. These liabilities are included in the Unfunded Actuarial Accrued Liabilities on page 15 of this report.

Group	Number	nnual nefits	Average Age	-	Actuarial ued Liability
Deferred, Vested	0	N/A	N/A	\$	-
Service Retirements	6	\$ 282	86.3	\$	2,372
Survivors	3	\$ 151	86.3	\$	1,172
Total	9	\$ 433	86.3	\$	3,544

#### Year Ending June 30, 2024



### **Actuarial Methods**

All actuarial methods are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement, or the MSRS Board of Directors. Different methodologies may also be reasonable and results based on other methodologies would be different.

#### Actuarial Cost Method

Actuarial accrued liability and required contributions in this report are computed using the Entry Age Normal Cost method. This method is prescribed by Minnesota Statute. Under this method, a normal cost is developed by amortizing the actuarial value of benefits expected to be received by each active participant (as a level percentage of pay) over the total working lifetime of that participant, from hire to termination. Age as of the valuation date was calculated based on the dates of birth provided by the Fund. Entry age for valuation purposes was calculated as the age on the valuation date minus the provided years of service on the valuation date.

To the extent that current assets and future normal costs do not support participants' expected future benefits, an Unfunded Actuarial Accrued Liability ("UAAL") develops. The UAAL is amortized over the statutory amortization period using level dollar amortization. The total contribution developed under this method is the sum of normal cost, expenses, and the payment toward the UAAL.

#### Asset Valuation Method

Market Value (consistent with valuations since July 1, 2000).

Note: The term "market value" can be used interchangeably with the term "fair value."

#### Payment on the Unfunded Actuarial Accrued Liability

The unfunded liability is amortized as a level dollar amount each year to the statutory amortization date of June 30, 2026. If the Unfunded Actuarial Accrued Liability is negative, the surplus amount shall be amortized over 30 years as a level dollar amount. If the unfunded liability increases due to changes in benefits, assumptions, or methods, the statutory amortization date may be recalculated (but changed only if the calculation results in an earlier date).

#### Funding Objective

This plan is primarily funded on a pay-as-you-go basis, offset by active Legislators Retirement Fund member contributions and annual appropriations from the State's General Fund.

#### Changes in Methods since Prior Valuation

The method for determining the statutory amortization date when the unfunded liability increases due to changes in benefits, assumptions, or methods was modified to prevent the statutory period from being extended.



#### **Summary of Actuarial Assumptions**

The following assumptions were used in valuing the liabilities and benefits under the plan. All actuarial assumptions are prescribed by Minnesota Statutes, the Legislative Commission on Pensions and Retirement (LCPR), or the MSRS Board of Directors. These parties are responsible for selecting the assumptions used for this valuation. The assumptions prescribed are based on the most recent review of actuarial assumptions, dated July 20, 2023. The Allowance for Combined Service Annuity assumptions are based on an analysis completed by the LCPR actuary and documented in a report dated October 2016.

Investment return	0.00% per annum.
Salary increases	4.25% annually.
Inflation	2.25% annually.
Mortality rates	
Pre-retirement	Pub-2010 General Employee Mortality Table adjusted for mortality improvements using projection scale MP-2021.
Post-retirement	Pub-2010 Healthy Retired General Mortality Table, adjusted for mortality improvements using projection scale MP-2021. Rates are multiplied by a factor of 1.04 for males and 1.10 for females.
Notes	The Pub-2010 employee mortality table as published by the Society of Actuaries (SOA) contains mortality rates for ages 18 to 80 and the annuitant mortality table contains mortality rates for ages 50 to 120. We have extended the annuitant mortality table as needed for members younger than age 50 who are receiving a benefit by deriving rates based on the employee table and the juvenile table. Similarly, we have extended the employee table as needed for members older than age 80 by deriving rates based on the annuitant table.
Retirement	Members retiring from active status are assumed to retire according to the age related rates shown in the rate table. Members who have attained the highest assumed retirement age are assumed to retire in one year.
Withdrawal	Ultimate rates based on actual experience. Rates are shown in the rate table.
Disability	None.
Allowance for combined service annuity	None.



### Summary of Actuarial Assumptions (Continued)

Administrative expenses	Prior year administrative expenses expressed as percentage of prior year projected payroll.
Refund of contributions	For non-vested members, account balances accumulate interest until the assumed commencement date and are discounted back to the valuation date. Active members decrementing after becoming eligible for a benefit are assumed to take the contributions accumulated with interest if larger than the value of the benefit.
Commencement of deferred benefits	Members receiving deferred annuities (including current terminated deferred members) are assumed to begin receiving benefits at age 62.
Percentage married	85% of active members are assumed to be married. Legislators in payment status are assumed to be 100% married for purposes of a death benefit, except if reported with a joint & survivor benefit. 100% of Elective State Officers members are assumed to be eligible for the automatic survivor benefit.
Age of spouse	Females are assumed to be three years younger than their spouses, and males are assumed to be three years older than their spouses.
Eligible children	Each member may have two dependent children depending on member's age. Assumed first born child born at member's age 28 and second born child at member's age 31.
Form of payment	Active married members are assumed to elect a 50% joint and survivor annuity. Active single members and deferred members are assumed to elect a life annuity. Unless reported with a joint and survivor option, retired members are assumed to have a spouse that is eligible for the automatic survivor benefit. Deferred Elective State Officers Retirement Fund members are assumed to elect a life annuity with automatic survivor benefits.
Eligibility testing	Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
Decrement operation	Withdrawal decrements do not operate during retirement eligibility. Decrements are assumed to occur mid-fiscal year.
Service credit accruals	It is assumed that members accrue one year of service credit per year.
Benefit service	Exact fractional service is used to determine the amount of benefit payable.
Pay increases	Pay increases are assumed to happen at the beginning of the fiscal year. This is equivalent to assuming that reported earnings are pensionable earnings for the year ending on the valuation date.
Final average salary	For present value of future benefit purposes, final average salary was calculated in accordance with pay increase assumptions, but was not permitted to fall below the final average salary reported in the data.



### Summary of Actuarial Assumptions (Continued)

Unknown data for certain members	To prepare this report, GRS has used and relied on participant data supplied by the Fund. Although GRS has reviewed the data in accordance with Actuarial Standards of Practice No. 23, GRS has not verified or audited any of the data or information provided.
	In cases where submitted data was missing or incomplete, the following assumptions were applied:
	Legislators Retirement Plan
	Data for active members:
	There were no members reported with zero or invalid salary.
	There were no members reported with missing service.
	There were no members reported with missing or invalid gender or birth dates.
	Data for terminated members:
	There were 2 members reported without a benefit. If available, we calculated benefits for these members using the reported Average Salary and credited service. If Average Salary was also not reported (2 members), we assumed a value of \$30,000. There were no members reported without credited service or a termination date.
	There were no members reported with missing or invalid gender or birth dates.
	Data for members receiving benefits:
	There were no members reported with missing or invalid gender, birth dates or benefits.
	There were 243 retired members reported:
	- 93 members were reported with the 100% joint and survivor option. These members were valued as indicated by the option elected.
	<ul> <li>149 members were reported with the life annuity option and 1 member was reported with the 50% joint and survivor option. All of these members were valued as a 50% joint &amp; survivor annuity per MSRS' direction.</li> </ul>
	Of the 243 retired members, 109 members had an invalid or missing survivor gender and 101 members had a missing or invalid survivor date of birth. We used the valuation assumptions if the survivor gender or date of birth was missing or invalid.
	There were no retirees reported with a bounceback annuity and an unreasonable reduction factor.
	There were no survivors reported on the data file with an expired benefit.



### Summary of Actuarial Assumptions (Continued)

Unknown data for certain members – (Concluded)	Elective State Officers Retirement Plan Data for members receiving benefits:		
	There were no members reported with missing or invalid birth dates, genders or benefits.		
	All retired members were reported with a life annuity option. Members were assumed to have a spouse that is eligible for the automatic survivor benefits. Valuation assumptions were used if the survivor gender (3 members) or date of birth (3 members) were missing or invalid.		
Changes in actuarial assumptions	The mortality improvement scale was changed from MP-2018 to MP-2021. Mortality rate adjustments were modified as recommended in the July 20, 2023 review of actuarial assumptions.		



#### Summary of Actuarial Assumptions (Concluded)

Age in	Post-Retireme	ent Mortality**	Pre-Retireme	nt Mortality**
2024	Male	Female	Male	Female
20	0.04%	0.02%	0.04%	0.01%
25	0.03%	0.01%	0.03%	0.01%
30	0.05%	0.02%	0.05%	0.02%
35	0.08%	0.04%	0.07%	0.03%
40	0.09%	0.05%	0.09%	0.04%
45	0.13%	0.07%	0.11%	0.05%
50	0.29%	0.22%	0.14%	0.08%
55	0.42%	0.31%	0.21%	0.12%
60	0.65%	0.43%	0.32%	0.19%
65	0.95%	0.64%	0.47%	0.28%
70	1.46%	1.01%	0.65%	0.42%
75	2.44%	1.79%	0.96%	0.70%
80	4.38%	3.32%	1.53%	1.20%
85	8.10%	6.36%	6.55%	4.97%
90	14.16%	11.97%	13.62%	10.89%

#### Percent of Members Dying Each Year\*

Generally, mortality rates are expected to increase as age increases (with the exception of young ages, where expected mortality may decrease as age increases). In cases where the application of the projection scale would reverse the nature of this trend, standard mortality rates have been adjusted slightly. The adjustment has no material effect on results.
 \*\* Rates are adjusted for mortality improvements using Scale MP-2021 from a base year of 2010.

Percent			Percent Terminating (Withdrawing)	
Age	Retiring	Service	House	Senate
60	0.00%	1	0.0%	0.0%
61	0.00	2	30.0	0.0
62	40.00	3	0.0	0.0
63	30.00	4	20.0	25.0
64	30.00	5	0.0	0.0
65	40.00	6	10.0	0.0
66	30.00	7	0.0	0.0
67	25.00	8	5.0	10.0
68	25.00	9+	0.0	0.0
69	25.00			
70	30.00			
71+	100.00			



#### **Summary of Plan Provisions – Legislators Retirement Plan**

Following is a summary of the major plan provisions used in the valuation of this report. MSRS is solely responsible for the validity, accuracy and comprehensiveness of this information. If any of the plan provisions shown below are not accurate and complete, the valuation results may differ significantly from those shown in this report and may require a revision of this report.

Plan year	July 1 through June 30.	
Eligibility	Members of the State Legislature first elected to office before July 1, 1997, and who elect to retain coverage under this plan (i.e., do not elect Social Security coverage). Plan is closed to new members.	
Contributions		
Member	9.00% of salary which must be paid to the State's General Fund.	
Employer	Plan is funded by annual appropriations from the State's General Fund. Employee contributions are "picked up" according to the provisions of Internal Revenue Code 414(h).	
Allowable service	Service while in an eligible position.	
Salary	Compensation received for service as a member of the legislature. Salary includes the monthly compensation paid to a legislator and the per diem payments paid during a regular or special session. Salary does not include additional compensation attributable to a leadership position.	
Average salary	Average of the five highest successive years of salary.	
Retirement		
Normal retirement benefit		
Age/Service requirements	Age 62 and either six full years of service or service during all or part of four regular legislative sessions. For eligibility purposes, service does not include credit for time not served when a member does not serve a full term of office	
Amount	A percentage of Average Salary for each year of service as follows: First elected prior to January 1, 1979: (a) 5.00% for the first eight years of service prior to January 1, 1979; and (b) 2.50% for subsequent years. Elected after December 31, 1978: (a) 2.50%.	



### Summary of Plan Provisions – Legislators Retirement Plan (Continued)

Retirement (Concluded)	
Early retirement benefit	
Age/Service requirements	Age 55 and either six full years of service or service during all or part of four regular legislative sessions.
Amount	Normal retirement benefit based on service and Average Salary at retirement date and actuarially reduced for each month the member is under age 62 assuming augmentation to age 62 at 3.00% per year.
Form of payment	Paid as a 50% joint and survivor annuity to member, spouse and dependent children. Annuitants may elect 100% joint and survivor bounce back annuity, life annuity, or a term certain and life annuity on an actuarially equivalent basis.
Benefit increases	1.50% per year.
	A benefit recipient who has been receiving a benefit for at least 12 full months as of the June 30 of the calendar year immediately before the adjustment will receive a full increase. Members receiving benefits for at least one month but less than 12 full months as of the June 30 of the calendar year immediately before the adjustment will receive a pro rata increase.
Disability	No additional benefits provided beyond standard plan. Treated as retirement or termination, depending on age and service at termination.
Death	
Surviving spouse benefit	
Age/Service requirement	Death while active, or after termination if service requirements for a normal retirement benefit is met but payments have not begun.
Amount	Survivor payments of 50% of the retirement benefit of the member assuming the member had attained normal retirement age and had a minimum of eight years of service. Benefit is paid for life. A former member's benefit is augmented as a Deferred Annuity to date of death before determining the portion payable to the spouse. If the legislator was at least age 60 at death, the surviving spouse may elect an optional joint and survivor annuity. If a deferred benefit was not eligible to be in pay status before July 1, 1997, an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Benefit increases	Same as for retirement.



### Summary of Plan Provisions – Legislators Retirement Plan (Continued)

Death (Concluded)	
Surviving dependent child	ren's benefit
Age/Service requirement	Same as spouse's benefit.
Amount	Benefit for first child is 25.00% of the retirement benefit (computed as for surviving spouse) with 12.50% for each additional child. Maximum payable (including spouse) is 100.00% of the retirement benefit. Benefits cease when a child marries or attains age 18 (22 if a full-time student).
Benefit increases	Same as for retirement.
<b>Refund of contributions</b>	
Age/Service requirement	Member dies before receiving any retirement benefits and survivor benefits are not payable.
Amount	Member's contributions with 6.00% interest through June 30, 2011. Beginning July 1, 2011, a member's contributions increase at 4.00% interest. Beginning July 1, 2018, a member's contributions increase at 3.00% interest.
Termination	
Refund of contributions	
Age/Service requirement	Termination of service.
Amount	Member's contributions with 6.00% interest through June 30, 2011. Beginning July 1, 2011, a member's contributions increase at 4.00% interest. Beginning July 1, 2018, a member's contributions increase at 3.00% interest. If a member is vested, a deferred annuity may be elected in lieu of a refund.
Deferred benefit	
Age/Service requirement	Same service requirements as for normal retirement.
Amount	Benefit computed under law in effect at termination and increased by the following annual augmentation percentage:
	(a.) 0.00% before July 1, 1973;
	(b.) 5.00% from July 1, 1973, to January 1, 1981;
	(c.) 3.00% until the earlier of January 1 of the year following attainment of age 55 and January 1, 2012;
	(d.) 5.00% until the earlier of January 1, 2012, and when the annuity begins;
	(e.) 2.00% from January 1, 2012 through December 31, 2018; and
	(f.) 0.00% from January 1, 2019, thereafter.



### Summary of Plan Provisions – Legislators Retirement Plan (Concluded)

<u>Deferred benefit -</u> (Concluded)	
Amount (Concluded)	Amount is payable at normal or early retirement.
	For members who terminated prior to July 1, 1997, but were not eligible to commence their pensions before July 1, 1997, the benefit shall be increased to reflect the actuarial equivalent change in post-retirement interest rate from 5.00% to 6.00%.
Adjustments for benefits not in pay status	Benefits are adjusted on an actuarial equivalent basis to reflect the 1997 change in post-retirement interest rate assumption from 5.00% to 6.00%.
Actuarial equivalent factors	Actuarially equivalent factors based on Pub-2010 mortality for healthy annuitants, reflecting projected mortality improvements using Scale MP-2021 from a base year of 2010, with male rates multiplied by a factor of 1.04 and female rates multiplied by a factor of 1.10, blended 50% males and 50% females, 5.42% post-retirement interest, and 7.0% pre-retirement interest. Based upon statutory requirements; Joint and Survivor factors are based on an interest assumption of 6.50%.
Combined service annuity	Members are eligible for combined service benefits if they:
	(a.) Have sufficient allowable service in total that equals or exceeds the applicable service credit vesting requirement of the retirement plan with the longest applicable service credit vesting requirement;
	(b.) Have at least six months of allowable service credit in each plan worked under; and
	(c.) Are not in receipt of a benefit from another plan, or have applied for benefits with an effective date within one year.
	Members who meet the above requirements must have their benefit based on the following:
	(a.) Allowable service in all covered plans are combined in order to determine eligibility for early retirement.
	(b.) Average salary is based on the high five consecutive years during their entire service in all covered plans.
Changes in plan provisions	The actuarial equivalent factors were updated to reflect changes in assumptions.



#### Summary of Plan Provisions – Elective State Officers Retirement Plan

Following is a summary of the major plan provisions used in the valuation of this report. MSRS is solely responsible for the validity, accuracy and comprehensiveness of this information. If any of the plan provisions shown below are not accurate and complete, the valuation results may differ significantly from those shown in this report and may require a revision of this report.

Plan year	July 1 through June 30.
Eligibility	Must be employed as a "Constitutional Officer" first elected prior to July 1, 1997, and must elect to retain coverage under this plan (i.e., does not elect Social Security coverage). Plan is closed to new members since July 1, 1997.
Contributions	Plan is funded by annual appropriations from the State's General Fund.
Allowable service	Service while in an eligible position as a constitution officer.
Salary	Salary upon which Elective State Officers Retirement Fund contributions have been made.
Average salary	Average of the five highest successive years of Salary.
Retirement	
Normal retirement benefit	
Age/Service requirements	Age 62 and eight years of Allowable Service.
Amount	2.50% of Average Salary for each year of Allowable Service. For members who terminated service after June 30, 1997, an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Early retirement benefit	
Age/Service requirement	Age 60 and eight years of Allowable Service.
Amount	Normal retirement benefit based on Allowable Service and Average Salary at retirement date with reduction of 0.50% for each month the member is under age 62 at the time of retirement.
Form of payment	Life annuity.
Benefit increases	1.5% per year.
	A benefit recipient who has been receiving a benefit for at least 12 full months as of the June 30 of the calendar year immediately before the adjustment will receive a full increase. Members receiving benefits for at least one month but less than 12 full months as of the June 30 of the calendar year immediately before the adjustment will receive a pro rata increase.



### Summary of Plan Provisions – Elective State Officers Retirement Plan (Continued)

Disability	No additional benefits provided beyond standard plan. Treated as retirement or termination, depending on age and Allowable Service as of disablement.
Death	
Surviving spouse benefit	
Age/Service requirement	Death while active, or after retirement, or after termination but prior to retirement with at least eight years of Allowable Service.
Amount	Survivor payments of 50% of the retirement benefit of the member assuming the member had attained age 62 and had a minimum of eight years of Allowable Service. A former member's benefit is augmented as a Deferred Annuity to date of death before determining the portion payable to the spouse.
	If a member dies prior to July 1, 1997, and the beneficiary was not eligible to commence a survivor benefit as of July 1, 1997, an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Benefit increases	Same as for retirement.
<u>Surviving dependent</u> children's benefit	
Age/Service requirement	Same as spouse's benefit.
Amount	Benefit for first child is 25.00% of the retirement benefit (computed as for surviving spouse) with 12.50% for each additional eligible child. Maximum payable (including spouse) is 100.00% of the retirement benefit. Benefits cease when a child marries or attains age 18 (22 if a full-time student).
Benefit increases	Same as for retirement.
Termination	
Refund of contributions	
Age/Service requirement	Termination of service.
Amount	Member's contributions with 6.00% interest through June 30, 2011. Beginning July 1, 2011, a member's contributions increase at 4.00% interest. Beginning July 1, 2018, a member's contributions increase at 3.00% interest. If a member is vested, a deferred annuity may be elected in lieu of a refund.



### Summary of Plan Provisions – Elective State Officers Retirement Plan (Continued)

Termination (Concluded)	
Deferred benefit	
Age/Service requirement	Eight years of Allowable Service.
Amount	Benefit computed under law in effect at termination and increased by the following annual augmentation percentage:
	(a.) 0.00% before July 1, 1979;
	(b.) 5.00% from July 1, 1979, to January 1, 1981;
	(c.) 3.00% until age 55, or until January 1, 2012, whichever is earlier;
	(d.) 5.00% thereafter until the annuity begins but prior to January 1, 2012;
	(e.) 2.00% from January 1, 2012 through December 31, 2018; and
	(f.) 0.00% from January 1, 2019, thereafter.
	Amount is payable at normal or early retirement.
	If a member terminated prior to July 1, 1997, but was not eligible to commence his or her pension before July 1, 1997, an actuarial increase shall be made for the change in the post-retirement interest rates from 5.00% to 6.00%.
Combined service annuity	Members are eligible for combined service benefits if they:
	(a.) Have sufficient allowable service in total that equals or exceeds the applicable service credit vesting requirement of the retirement plan with the longest applicable service credit vesting requirement;
	(b.) Have at least six months of allowable service credit in each plan worked under; and
	(c.) Are not in receipt of a benefit from another plan, or have applied for benefits with an effective date within one year.
	Members who meet the above requirements must have their benefit based on the following:
	(a.) Allowable service in all covered plans are combined in order to determine eligibility for early retirement.
	(b.) Average salary is based on the high five consecutive years during their entire service in all covered plans.



### Summary of Plan Provisions – Elective State Officers Retirement Plan (Concluded)

Actuarial equivalent factors	Actuarially equivalent factors based on Pub-2010 mortality for healthy annuitants, reflecting projected mortality improvements using Scale MP-2021 from a base year of 2010, with male rates multiplied by a factor of 1.04 and female rates multiplied by a factor of 1.10, blended 50% males and 50% females, 5.42% post-retirement interest, and 7.0% pre-retirement interest. Based upon statutory requirements; Joint and Survivor factors are based on an interest assumption of 6.50%.
Changes in plan provisions	The actuarial equivalent factors were updated to reflect changes in assumptions.



### Schedule of Funding Progress<sup>1</sup> (Dollars in Thousands)

#### **Legislators Retirement Fund**

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded (Overfunded) AAL (UAAL) (b)-(a)	Funded Ratio (a)/(b)	Actual Covered Payroll (Previous FY) (c)	UAAL as a Percentage of Covered Payroll <u>(b)-(a)</u> (c)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	07/01/1995	\$ 21,213	\$ 50,255	\$ 29.042	42,21%	\$ 7.056	411.59%
07/01/1997 $25,678$ $60,055$ $34,377$ $42.76$ $7,767$ $442.60$ $07/01/1998$ $31,212$ $62,928$ $31,716$ $49,60$ $6,802$ $466.27$ $07/01/1999$ $33,474$ $66,418$ $32,944$ $50.40$ $7,490$ $439.84$ $07/01/2000$ $37,255$ $69,364$ $32,099$ $53.72$ $5,808$ $552.67$ $07/01/2001$ $42,608$ $75,072$ $32,464$ $56.76$ $5,858$ $554.18$ $07/01/2002$ $45,501$ $78,070$ $32,569$ $58.28$ $5,089$ $639.99$ $07/01/2003$ $2$ $      07/01/2004$ $46,155$ $83,197$ $37,042$ $55.48$ $3,815$ $970.89$ $07/01/2005$ $45,523$ $81,836$ $36,314$ $55.63$ $3,014$ $1,204.84$ $07/01/2005$ $48,504$ $81,614$ $31,700$ $2,880$ $1,747.42$ $07/01/2006$ $48,504$ $81,649$ $41,580$ $51.90$ $2,380$ $1,747.42$ $07/01/2008$ $39,209$ $86,131$ $66,922$ $45.52$ $1,933$ $2,354.34$ $07/01/2010$ $26,821$ $86,236$ $59,415$ $31.10$ $1,877$ $3,165.42$ $07/01/2011$ $15,523$ $247,657$ $232,134$ $6.27$ $1,378$ $4$ $1,6845.72$ $07/01/2013$ $11,493$ $235,877$ $224,384$ $4.87$ $1,233$ $4$ $18,198.22$ $07/01/2014$ $5,430$ $230,219$ $226,789$		. ,		. ,			
07/01/1998 $31,212$ $62,928$ $31,716$ $49,60$ $6,802$ $446.27$ $07/01/1999$ $33,474$ $66,418$ $32,944$ $50.40$ $7,490$ $439.84$ $07/01/2000$ $37,265$ $69,364$ $32,099$ $53.72$ $5,808$ $552.67$ $07/01/2001$ $42,608$ $75,072$ $32,464$ $56.76$ $5,858$ $554.18$ $07/01/2002$ $45,501$ $78,070$ $32,569$ $58.28$ $5,089$ $639.99$ $07/01/2003$ $2$ $     07/01/2004$ $46,155$ $83,197$ $37,042$ $55.48$ $3,815$ $970.89$ $07/01/2005$ $45,523$ $81,836$ $36,314$ $55.63$ $3,014$ $1,204.84$ $07/01/2005$ $48,504$ $81,361$ $32,858$ $59,622$ $2,894$ $1,135.45$ $07/01/2006$ $48,504$ $81,361$ $32,858$ $59,622$ $2,994$ $1,747.42$ $07/01/2008$ $39,209$ $86,131$ $46,922$ $45.52$ $1,993$ $2,354.34$ $07/01/2009$ $28,663$ $90,431$ $61,768$ $31.70$ $1,963$ $3,146.61$ $07/01/2010$ $26,821$ $86,236$ $59,415$ $31.10$ $1,877$ $3,165.42$ $07/01/2011$ $15,523$ $247,657$ $232,134$ $6.27$ $1,378$ $4$ $1,6845.72$ $07/01/2013$ $11,493$ $235,877$ $224,384$ $4.87$ $1,233$ $4$ $18,198.22$ $07/01/2015$ $3,430$ $230,219$ $226,7$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$							
07/01/2001 $42,608$ $75,072$ $32,464$ $56.76$ $5,858$ $554.18$ $07/01/2003$ $45,501$ $78,070$ $32,569$ $58.28$ $5,089$ $639.99$ $07/01/2003$ $45,551$ $83,197$ $37,042$ $55.48$ $3,815$ $970.89$ $07/01/2005$ $45,523$ $81,836$ $36,314$ $55.63$ $3,014$ $1,204.84$ $07/01/2006$ $48,504$ $81,361$ $32,858$ $59.62$ $2,894$ $1,135.45$ $07/01/2007$ $44,869$ $86,449$ $41,580$ $51.90$ $2,380$ $1,747.42$ $07/01/2008$ $39,209$ $86,131$ $46,922$ $45.52$ $1,993$ $2,354.34$ $07/01/2009$ $28,663$ $90,431$ $61,768$ $31.70$ $1,963$ $3,146.61$ $07/01/2010$ $26,821$ $86,236$ $59,415$ $31.10$ $1,877$ $3,165.42$ $07/01/2011$ $319,140$ $216,559$ $197,419$ $8.84$ $1,774$ $11,128.47$ $07/01/2012$ $15,523$ $247,657$ $232,134$ $6.27$ $1,378$ $4$ $16,845.72$ $07/01/2013$ $11,493$ $235,877$ $224,384$ $4.87$ $1,223$ $4$ $21,622.28$ $07/01/2014$ $5$ $8,258$ $250,860$ $242,602$ $3.29$ $1,122$ $4$ $21,622.28$ $07/01/2014$ $5$ $8,258$ $250,860$ $242,602$ $3.29$ $1,224$ $4$ $22,094.44$ $07/01/2015$ $3,430$ $230,219$ $22,7700$ $0.00$ $889$ $4$ <					53.72		552.67
$07/01/2003^2$ $07/01/2004$ 46,15583,19737,04255.483,815970.89 $07/01/2005$ 45,52381,83636,31455.633,0141,204.84 $07/01/2006$ 48,50481,36132,85859.622,8941,135.45 $07/01/2007$ 44,86986,44941,58051.902,3801,747.42 $07/01/2008$ 39,20986,13146,92245.521,9932,354.34 $07/01/2009$ 28,66390,43161,76831.701,9633,146.61 $07/01/2010$ 26,82186,23659,41531.101,8773,165.42 $07/01/2011^3$ 19,140216,559197,4198.841,77411,128.47 $07/01/2012$ 15,523247,657232,1346.271,378416,845.72 $07/01/2013$ 11,493235,877224,3844.871,233418,198.22 $07/01/2014^5$ 8,258250,860242,6023.291,122421,622.28 $07/01/2015$ 3,430230,219226,7891.491,700413,340.53 $07/01/2016$ -218,514218,0080.001,033420,620.33 $07/01/2018$ -213,008218,0080.001,011419,879.53 $07/01/2020$ -195,405195,4050.00889420,07.34 $07/01/2021$ -174,301174,3010.00 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
07/01/200307/01/200545,52381,36137,04235,43413,04513,04	07/01/2002	45,501	78,070	32,569	58.28	5,089	639.99
07/01/2005 $45,523$ $81,836$ $36,314$ $55.63$ $3,014$ $1,204.84$ $07/01/2006$ $48,504$ $81,361$ $32,858$ $59.62$ $2,894$ $1,135.45$ $07/01/2007$ $44,869$ $86,449$ $41,580$ $51.90$ $2,380$ $1,747.42$ $07/01/2008$ $39,209$ $86,131$ $46,922$ $45.52$ $1,993$ $2,354.34$ $07/01/2009$ $28,663$ $90,431$ $61,768$ $31.70$ $1,963$ $3,146.61$ $07/01/2010$ $26,821$ $86,236$ $59,415$ $31.10$ $1,877$ $3,165.42$ $07/01/2011$ $3$ $19,140$ $216,559$ $197,419$ $8.84$ $1,774$ $11,128.47$ $07/01/2012$ $15,523$ $247,657$ $232,134$ $6.27$ $1,378$ $4$ $16,845.72$ $07/01/2013$ $11,493$ $235,877$ $224,384$ $4.87$ $1,233$ $4$ $18,198.22$ $07/01/2014$ $5$ $8,258$ $250,860$ $242,602$ $3.29$ $1,122$ $4$ $21,622.28$ $07/01/2015$ $3,430$ $230,219$ $226,789$ $1.49$ $1,700$ $4$ $13,340.53$ $07/01/2015$ $3,430$ $230,219$ $227,700$ $0.00$ $889$ $4$ $25,613.05$ $07/01/2016$ $ 218,514$ $218,008$ $0.00$ $1,033$ $4$ $20,620.33$ $07/01/2018$ $ 200,982$ $200,982$ $0.00$ $1,011$ $4$ $19,879.53$ $07/01/2020$ $ 155,405$ $0.00$ $967$ <	07/01/2003 <sup>2</sup>	-	-		-	-	-
07/01/2006 $48,504$ $81,361$ $32,858$ $59,62$ $2,894$ $1,135.45$ $07/01/2007$ $44,869$ $86,449$ $41,580$ $51.90$ $2,380$ $1,747.42$ $07/01/2008$ $39,209$ $86,131$ $46,922$ $45.52$ $1,993$ $2,354.34$ $07/01/2009$ $28,663$ $90,431$ $61,768$ $31.70$ $1,963$ $3,146.61$ $07/01/2010$ $26,821$ $86,236$ $59,415$ $31.10$ $1,877$ $3,165.42$ $07/01/2011$ $3$ $19,140$ $216,559$ $197,419$ $8.84$ $1,774$ $11,128.47$ $07/01/2012$ $15,523$ $247,657$ $232,134$ $6.27$ $1,378$ $4$ $16,845.72$ $07/01/2013$ $11,493$ $235,877$ $224,384$ $4.87$ $1,233$ $4$ $18,198.22$ $07/01/2014$ $5$ $8,258$ $250,860$ $242,602$ $3.29$ $1,122$ $4$ $21,622.28$ $07/01/2014$ $5$ $3,430$ $230,219$ $226,789$ $1.49$ $1,700$ $4$ $13,340.53$ $07/01/2015$ $3,430$ $230,219$ $227,700$ $0.00$ $889$ $4$ $22,094.44$ $07/01/2016$ $ 213,008$ $218,008$ $0.00$ $1,013$ $4$ $20,620.33$ $07/01/2018$ $ 213,008$ $218,008$ $0.00$ $1,011$ $4$ $19,879.53$ $07/01/2020$ $ 195,405$ $195,405$ $0.00$ $866$ $20,362.27$ $07/01/2021$ $ 174,301$ $174,301$	07/01/2004	46,155	83,197	37,042	55.48	3,815	970.89
$07/01/2007$ $44,869$ $86,449$ $41,580$ $51.90$ $2,380$ $1,747.42$ $07/01/2008$ $39,209$ $86,131$ $46,922$ $45.52$ $1,993$ $2,354.34$ $07/01/2009$ $28,663$ $90,431$ $61,768$ $31.70$ $1,963$ $3,146.61$ $07/01/2010$ $26,821$ $86,236$ $59,415$ $31.10$ $1,877$ $3,165.42$ $07/01/2011^3$ $19,140$ $216,559$ $197,419$ $8.84$ $1,774$ $11,128.47$ $07/01/2012$ $15,523$ $247,657$ $232,134$ $6.27$ $1,378^4$ $16,845.72$ $07/01/2013$ $11,493$ $235,877$ $224,384$ $4.87$ $1,233^4$ $18,198.22$ $07/01/2014^5$ $8,258$ $250,860$ $242,602$ $3.29$ $1,122^4$ $21,622.28$ $07/01/2015$ $3,430$ $230,219$ $226,789$ $1.49$ $1,700^4$ $13,340.53$ $07/01/2016$ $ 218,514$ $218,514$ $0.00$ $889^4$ $22,094.44$ $07/01/2017$ $ 227,700$ $227,700$ $0.00$ $889^4$ $25,613.05$ $07/01/2018$ $ 213,008$ $218,008$ $0.00$ $1,011^4$ $19,879.53$ $07/01/2019$ $ 200,982$ $200,982$ $0.00$ $1,011^4$ $19,879.53$ $07/01/2020$ $ 195,405$ $195,405$ $0.00$ $856^4$ $20,207.34$ $07/01/2021$ $ 174,301$ $174,301$ $0.00$ $856^4$ $20,362.27$ $07/01/2023$ $ 158,755$ <	07/01/2005	45,523	81,836	36,314	55.63	3,014	1,204.84
$07/01/2008$ $39,209$ $86,131$ $46,922$ $45.52$ $1,993$ $2,354.34$ $07/01/2009$ $28,663$ $90,431$ $61,768$ $31.70$ $1,963$ $3,146.61$ $07/01/2010$ $26,821$ $86,236$ $59,415$ $31.10$ $1,877$ $3,165.42$ $07/01/2011^3$ $19,140$ $216,559$ $197,419$ $8.84$ $1,774$ $11,128.47$ $07/01/2012$ $15,523$ $247,657$ $232,134$ $6.27$ $1,378$ $^4$ $16,845.72$ $07/01/2013$ $11,493$ $235,877$ $224,384$ $4.87$ $1,233$ $^4$ $18,198.22$ $07/01/2014^5$ $8,258$ $250,860$ $242,602$ $3.29$ $1,122$ $^4$ $21,622.28$ $07/01/2015$ $3,430$ $230,219$ $226,789$ $1.49$ $1,700$ $^4$ $13,340.53$ $07/01/2016$ - $218,514$ $218,514$ $0.00$ $989$ $^4$ $22,094.44$ $07/01/2016$ - $213,008$ $218,008$ $0.00$ $1,013$ $^4$ $20,620.33$ $07/01/2017$ - $227,700$ $227,700$ $0.00$ $889$ $^4$ $20,207.34$ $07/01/2018$ - $213,008$ $218,008$ $0.00$ $1,011$ $^4$ $19,879.53$ $07/01/2020$ - $195,405$ $195,405$ $0.00$ $967$ $^4$ $20,207.34$ $07/01/2021$ - $174,301$ $174,301$ $0.00$ $889$ $^4$ $24,087.23$ $07/01/2023$ - $158,755$ $158,755$ $0.00$ <td>07/01/2006</td> <td>48,504</td> <td>81,361</td> <td>32,858</td> <td>59.62</td> <td>2,894</td> <td>1,135.45</td>	07/01/2006	48,504	81,361	32,858	59.62	2,894	1,135.45
07/01/200928,66390,43161,76831.701,9633,146.6107/01/201026,82186,23659,41531.101,8773,165.4207/01/201119,140216,559197,4198.841,77411,128.4707/01/201215,523247,657232,1346.271,378416,845.7207/01/201311,493235,877224,3844.871,233418,198.2207/01/201458,258250,860242,6023.291,122421,622.2807/01/20153,430230,219226,7891.491,700413,340.5307/01/2016-218,514218,5140.00989422,094.4407/01/2017-227,700227,7000.00889420,620.3307/01/2018-213,008218,0080.001,013420,620.3307/01/2019-200,982200,9820.001,011419,879.5307/01/2020-195,405195,4050.00967420,207.3407/01/2021-174,301174,3010.00856420,362.2707/01/2022-165,961165,9610.00689424,087.2307/01/2023-158,755158,7550.00544429,182.90	07/01/2007	44,869	86,449	41,580	51.90	2,380	1,747.42
07/01/2010         26,821         86,236         59,415         31.10         1,877         3,165.42           07/01/2011 <sup>3</sup> 19,140         216,559         197,419         8.84         1,774         11,128.47           07/01/2012         15,523         247,657         232,134         6.27         1,378 <sup>4</sup> 16,845.72           07/01/2013         11,493         235,877         224,384         4.87         1,233 <sup>4</sup> 18,198.22           07/01/2014 <sup>5</sup> 8,258         250,860         242,602         3.29         1,122 <sup>4</sup> 21,622.28           07/01/2015         3,430         230,219         226,789         1.49         1,700 <sup>4</sup> 13,340.53           07/01/2016         -         218,514         218,514         0.00         989 <sup>4</sup> 22,094.44           07/01/2017         -         227,700         227,700         0.00         889 <sup>4</sup> 25,613.05           07/01/2018         -         213,008         218,008         0.00         1,011 <sup>4</sup> 19,879.53           07/01/2019         -         200,982         200,982         0.00         1,011 <sup>4</sup> 19,879.53           07/01/2020         -         195,405         195,405 </td <td>07/01/2008</td> <td>39,209</td> <td>86,131</td> <td>46,922</td> <td>45.52</td> <td>1,993</td> <td>2,354.34</td>	07/01/2008	39,209	86,131	46,922	45.52	1,993	2,354.34
07/01/2011 <sup>3</sup> 19,140216,559197,4198.841,77411,128.4707/01/201215,523247,657232,1346.271,378416,845.7207/01/201311,493235,877224,3844.871,233418,198.2207/01/201458,258250,860242,6023.291,122421,622.2807/01/20153,430230,219226,7891.491,700413,340.5307/01/2016-218,514218,5140.00989422,094.4407/01/2017-227,700227,7000.00889425,613.0507/01/2018-213,008218,0080.001,033420,620.3307/01/2019-200,982200,9820.001,011419,879.5307/01/2020-195,405195,4050.00856420,362.2707/01/2021-165,961165,9610.00689424,087.2307/01/2023-158,755158,7550.00544429,182.90	07/01/2009	28,663	90,431	61,768	31.70	1,963	3,146.61
07/01/201215,523247,657232,1346.271,378416,845.7207/01/201311,493235,877224,3844.871,233418,198.2207/01/201458,258250,860242,6023.291,122421,622.2807/01/20153,430230,219226,7891.491,700413,340.5307/01/2016-218,514218,5140.00989422,094.4407/01/2017-227,700227,7000.00889425,613.0507/01/2018-213,008218,0080.001,013420,620.3307/01/2019-200,982200,9820.001,011419,879.5307/01/2020-195,405195,4050.00967420,207.3407/01/2021-174,301174,3010.00856420,362.2707/01/2022-165,961165,9610.00689424,087.2307/01/2023-158,755158,7550.00544429,182.90	07/01/2010	26,821	86,236	59,415	31.10	1,877	3,165.42
07/01/201311,493235,877224,3844.871,233418,198.2207/01/201458,258250,860242,6023.291,122421,622.2807/01/20153,430230,219226,7891.491,700413,340.5307/01/2016-218,514218,5140.00989422,094.4407/01/2017-227,700227,7000.00889425,613.0507/01/2018-213,008218,0080.001,013420,620.3307/01/2019-200,982200,9820.001,011419,879.5307/01/2020-195,405195,4050.00967420,207.3407/01/2021-174,301174,3010.00856420,362.2707/01/2022-165,961165,9610.00689424,087.2307/01/2023-158,755158,7550.00544429,182.90	07/01/2011 <sup>3</sup>	19,140	216,559	197,419	8.84	1,774	11,128.47
07/01/2014         5         8,258         250,860         242,602         3.29         1,122         4         21,622.28           07/01/2015         3,430         230,219         226,789         1.49         1,700         4         13,340.53           07/01/2016         -         218,514         218,514         0.00         989         4         22,094.44           07/01/2017         -         227,700         227,700         0.00         889         4         25,613.05           07/01/2018         -         213,008         218,008         0.00         1,013         4         20,620.33           07/01/2019         -         200,982         200,982         0.00         1,011         4         19,879.53           07/01/2020         -         195,405         195,405         0.00         967         4         20,207.34           07/01/2021         -         174,301         174,301         0.00         856         4         20,362.27           07/01/2022         -         165,961         165,961         0.00         689         4         24,087.23           07/01/2023         -         158,755         158,755         0.00         544         29,	07/01/2012	15,523	247,657	232,134	6.27	1,378 <sup>4</sup>	16,845.72
07/01/2015         3,430         230,219         226,789         1.49         1,700         4         13,340.53           07/01/2016         -         218,514         218,514         0.00         989         4         22,094.44           07/01/2017         -         227,700         227,700         0.00         889         4         25,613.05           07/01/2018         -         213,008         218,008         0.00         1,013         4         20,620.33           07/01/2019         -         200,982         200,982         0.00         1,011         4         19,879.53           07/01/2020         -         195,405         195,405         0.00         967         4         20,320.734           07/01/2021         -         174,301         174,301         0.00         856         4         20,362.27           07/01/2022         -         165,961         165,961         0.00         689         4         24,087.23           07/01/2023         -         158,755         158,755         0.00         544         4         29,182.90	07/01/2013	11,493	235,877	224,384	4.87	1,233 4	18,198.22
07/01/2016       -       218,514       218,514       0.00       989       4       22,094.44         07/01/2017       -       227,700       227,700       0.00       889       4       25,613.05         07/01/2018       -       213,008       218,008       0.00       1,033       4       20,620.33         07/01/2019       -       200,982       200,982       0.00       1,011       4       19,879.53         07/01/2020       -       195,405       195,405       0.00       967       4       20,207.34         07/01/2021       -       174,301       174,301       0.00       856       4       20,362.27         07/01/2022       -       165,961       165,961       0.00       689       4       24,087.23         07/01/2023       -       158,755       158,755       0.00       544       4       29,182.90	07/01/2014 5	8,258	250,860	242,602	3.29	1,122 4	21,622.28
07/01/2017       -       227,700       227,700       0.00       889       4       25,613.05         07/01/2018       -       213,008       218,008       0.00       1,013       4       20,620.33         07/01/2019       -       200,982       200,982       0.00       1,011       4       19,879.53         07/01/2020       -       195,405       195,405       0.00       967       4       20,207.34         07/01/2021       -       174,301       174,301       0.00       856       4       20,362.27         07/01/2022       -       165,961       165,961       0.00       689       4       24,087.23         07/01/2023       -       158,755       158,755       0.00       544       4       29,182.90	07/01/2015	3,430	230,219	226,789	1.49	1,700 4	13,340.53
07/01/2018       -       213,008       218,008       0.00       1,033       4       20,620.33         07/01/2019       -       200,982       200,982       0.00       1,011       4       19,879.53         07/01/2020       -       195,405       195,405       0.00       967       4       20,207.34         07/01/2021       -       174,301       174,301       0.00       856       4       20,362.27         07/01/2022       -       165,961       165,961       0.00       689       4       24,087.23         07/01/2023       -       158,755       158,755       0.00       544       4       29,182.90	07/01/2016	-	218,514	218,514	0.00	989 <sup>4</sup>	22,094.44
07/01/2019       -       200,982       200,982       0.00       1,011       4       19,879.53         07/01/2020       -       195,405       195,405       0.00       967       4       20,207.34         07/01/2021       -       174,301       174,301       0.00       856       4       20,362.27         07/01/2022       -       165,961       165,961       0.00       689       4       24,087.23         07/01/2023       -       158,755       158,755       0.00       544       4       29,182.90	07/01/2017	-	227,700	227,700	0.00	889 4	25,613.05
07/01/2020       -       195,405       195,405       0.00       967       4       20,207.34         07/01/2021       -       174,301       174,301       0.00       856       4       20,362.27         07/01/2022       -       165,961       165,961       0.00       689       4       24,087.23         07/01/2023       -       158,755       158,755       0.00       544       4       29,182.90	07/01/2018	-	213,008	218,008	0.00	1,033 4	20,620.33
07/01/2021       -       174,301       0.00       856       4       20,362.27         07/01/2022       -       165,961       165,961       0.00       689       4       24,087.23         07/01/2023       -       158,755       158,755       0.00       544       4       29,182.90	07/01/2019	-	200,982	200,982	0.00	1,011 4	19,879.53
07/01/2022       -       165,961       165,961       0.00       689       4       24,087.23         07/01/2023       -       158,755       158,755       0.00       544       4       29,182.90	07/01/2020	-	195,405	195,405	0.00	967 <sup>4</sup>	20,207.34
07/01/2023 - 158,755 0.00 544 <sup>4</sup> 29,182.90	07/01/2021	-	174,301	174,301	0.00		20,362.27
	07/01/2022	-	165,961	165,961	0.00	689 <sup>4</sup>	24,087.23
07/01/2024 - 145,768 145,768 0.00 422 4 34,542.18	07/01/2023	-	158,755	158,755	0.00		29,182.90
	07/01/2024	-	145,768	145,768	0.00	422 4	34,542.18

<sup>1</sup> Information prior to 2012 provided by prior actuaries. See prior reports for additional detail.

<sup>2</sup> An actuarial valuation was not completed as of July 1, 2003.

<sup>3</sup> Based on the alternate assumptions, including an investment return assumption of 0%.

<sup>4</sup> Assumed equal to actual member contributions divided by 9%.

<sup>5</sup> Effective July 1, 2013, the Elective State Officers Retirement Fund was administratively consolidated with the Legislators Retirement Fund, first combined as of July 1, 2014 in this exhibit.



#### Schedule of Funding Progress<sup>1</sup> (Dollars in Thousands)

#### **Elective State Officers Retirement Fund**

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded (Overfunded) AAL (UAAL) (b) - (a)	Funded Ratio (a)/(b)	Actual Covered Payroll (Previous FY) (c)	UAAL as a Percentage of Covered Payroll [(b)-(a)]/(c)
7-1-1991	\$ 308	\$ 2,249	\$ 1,941	13.69%	\$ 422	459.95 %
7-1-1992	334	2,380	2,046	14.03	378	541.27
7-1-1993	322	2,689	2,367	11.97	500	473.40
7-1-1994	361	2,848	2,487	12.68	411	605.11
7-1-1995	378	2,948	2,570	12.82	422	609.00
7-1-1996	412	2,983	2,571	13.81	456	563.82
7-1-1997	456	3,214	2,758	14.19	467	590.58
7-1-1998	500	3,369	2,869	14.84	461	622.34
7-1-1999	198	3,373	3,175	5.87	291	1091.07
7-1-2000	199	3,535	3,336	5.63	-	N/A
7-1-2001	201	3,775	3,574	5.32	-	N/A
7-1-2002	201	4,075	3,874	4.93	-	N/A
7-1-2003 <sup>2</sup>						
7-1-2004	204	4,002	3,798	5.09	-	N/A
7-1-2005	204	4,065	3,861	5.03	-	N/A
7-1-2006	207	3,970	3,763	5.22	-	N/A
7-1-2007	212	3,969	3,757	5.33	-	N/A
7-1-2008	212	3,908	3,696	5.43	-	N/A
7-1-2009	213	3,886	3,673	5.49	-	N/A
7-1-2010	214	3,782	3,568	5.66	-	N/A
7-1-2011 <sup>3</sup>	-	7,610	7,610	0.00	-	N/A
7-1-2012	-	8,907	8,907	0.00	-	N/A
7-1-2013 <sup>4</sup>	-	8,595	8,595	0.00	-	N/A

<sup>1</sup> Information prior to 2012 provided by prior actuaries. See prior reports for additional detail.
 <sup>2</sup> An actuarial valuation was not completed as of July 1, 2003.
 <sup>3</sup> Based on the alternate assumptions, including an investment return assumption of 0%.

4 Effective July 1, 2013, the Elective State Officers Retirement Fund was administratively consolidated with the Legislators Retirement Fund. Effective July 1, 2014 combined results are shown with the Legislators Retirement Fund exhibit.



#### Schedule of Contributions from the Employer and Other Contributing Entities<sup>1</sup> (Dollars in Thousands)

#### **Legislators Retirement Fund**

Plan Year Ended June 30	Actuarially Required Contribution Rate (a)	Actual Covered Payroll (b)	Actual Member Contributions (c)	Annual Required Contributions [(a)x(b)] - (c) = (d)	Actual Employer Contributions <sup>2</sup> (e)	Percentage Contributed (e)/(d)
1995	38.34 %	\$ 7,056	\$ 635	\$ 2,070	\$ 2,938	141.93 %
1996	41.54	6,267	564	2,039	1,511	74.10
1997	43.96	7,767	699	2,715	3,176	116.98
1998	48.03	6,802	612	2,655	5,199	195.82
1999	47.19	7,490	674	2,861	2,091	73.09
2000	52.72	5,808	523	2,539	3,192	125.72
2001	47.26	5,858	527	2,241	5,039	224.85
2002	60.14	5,089	458	2,603	4,135	158.86
2003 <sup>3</sup>	63.12	-	-	-	-	0.00
2004	63.12	3,815	343	2,065	425	20.58
2005	104.72	3,014	384	2,773	1,822	65.71
2006	112.64	2,894	264	2,995	5,684	189.78
2007	111.24	2,380	239	2,408	1,772	73.59
2008	171.10	1,993	180	3,230	2,217	68.64
2009	243.21	1,963	248	4,526	1,269	28.04
2010	413.00	1,877	170	7,582	1,975	26.05
2011	432.92	1,774	160	7,520	2,805	37.30
2012 4	1,320.95	1,378 <sup>5</sup>	124	18,079	3,935	21.77
2013	1,340.00	1,233 <sup>5</sup>	111	16,411	3,399	20.71
2014 <sup>6</sup>	1,983.78	1,122 <sup>5</sup>	101	22,157	3,436	15.51
2015	2,287.58	1,700 <sup>5</sup>	153	38,736	3,216	8.30
2016	2,204.22	<b>989</b> <sup>5</sup>	89	21,711	5,087	23.43
2017	2,578.68	<b>889</b> <sup>5</sup>	80	22,844	8,716	38.15
2018	3,257.81	1,033 <sup>5</sup>	93	33,560	8,856	26.39
2019	2,716.47	1,011 <sup>5</sup>	91	27,373	8,798	32.14
2020	3,139.75	<b>967</b> <sup>5</sup>	87	30,274	8,764	28.95
2021	3,555.45	<b>856</b> <sup>5</sup>	77	30,358	8,639	28.46
2022	4,900.05	689 <sup>5</sup>	62	33,699	8,682	25.76
2023	5,825.29	544 <sup>5</sup>	49	31,641	8,699	27.49
2024	12,323.37	<b>422</b> <sup>5</sup>	38	51,967	8,813	16.96
2025	16,438.76	N/A	N/A	N/A	N/A	N/A

<sup>1</sup> Information prior to 2012 provided by prior actuary. See prior reports for additional detail.

<sup>2</sup> Includes contributions from other sources (if applicable). Information for 2004 to 2012 provided by MSRS.

<sup>3</sup> An actuarial valuation for this fiscal year was not completed.

<sup>4</sup> Based on the alternate assumptions, including an investment return assumption of 0%.

<sup>5</sup> Assumed equal to actual member contributions divided by 9%.

<sup>6</sup> Effective July 1, 2013, the Elective State Officers Retirement Fund was administratively consolidated with the Legislators Retirement Fund, first combined for plan year ending June 30, 2014 in this exhibit.



#### Schedule of Contributions from the Employer and Other Contributing Entities<sup>1</sup> (Dollars in Thousands)

Plan Year Ended June 30	Actuarially Required Contribution Rate/Amount <sup>2</sup> (a)	Actual Covered Payroll (b)	Actual Member Contributions (c)	Annual Required Contributions <sup>3</sup> [(a)x(b)] - (c) = (d)	Actual Employer Contributions (e)	Percentage Contributed (e)/(d)
1991	34.84%	\$ 422	\$ 38	\$ 109	\$ 40	36.70%
1992	33.28	378	34	92	111	120.65
1993	36.23	500	45	136	88	64.71
1994	38.64	411	37	122	164	134.43
1995	42.00	422	38	139	165	118.71
1996	43.58	456	41	158	151	95.57
1997	43.49	467	42	161	167	103.73
1998	51.07	461	42	193	175	90.67
1999	51.66	291	26	124	40	32.26
2000	\$ 321	-	-	321	306	95.33
2001	340	-	-	340	330	97.06
2002	371	-	-	371	354	95.42
2003	412	-	-	412	371	90.12
2004	412	-	-	412	383	92.88
2005	437	-	-	437	395	90.37
2006	465	-	-	465	417	89.66
2007	477	-	-	477	427	89.57
2008	506	-	-	506	435	85.92
2009	558	-	-	558	442	79.28
2010	601	-	-	601	453	75.37
2011	644	-	-	644	460	71.54
2012 <sup>4</sup>	1,269	-	-	1,269	466	36.73
2013 <sup>5</sup>	991	-	-	991	470	47.43

#### **Elective State Officers Retirement Fund**

<sup>1</sup> Information prior to 2012 provided by prior actuaries. See prior reports for additional detail.

<sup>2</sup> Shown as a percent of payroll for years before 2000.

<sup>3</sup> For years after 1999, the Annual Required Contribution is the dollar amount shown in (a).

<sup>4</sup> Based on the alternate assumptions, including an investment return assumption of 0%.

<sup>5</sup> Effective July 1, 2013, the Elective State Officers Retirement Fund was administratively consolidated with the Legislators Retirement Fund. Effective July 1, 2014 combined results are shown with the Legislators Retirement Fund exhibit.



# **Glossary of Terms**

Actual Covered Payroll (GASB)	The payroll of covered employees, which is typically only the pensionable pay (meets the statutory salary definition) and does not include pay above any pay cap.
Accrued Benefit Funding Ratio	The ratio of assets to Current Benefit Obligations.
Accrued Liability Funding Ratio	The ratio of assets to Actuarial Accrued Liability.
Actuarial Accrued Liability (AAL)	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
Actuarial Assumptions	Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.
Actuarial Cost Method	A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of future Normal Costs and the Actuarial Accrued Liability.
Actuarial Equivalent	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
Actuarial Present Value (APV)	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
Actuarial Present Value of Projected Benefits	The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
Actuarial Valuation	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for developing and monitoring retirement system's funding policy, such as the Funded Ratio and the Annual Required Contribution (ARC).
Actuarial Value of Assets	The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the Funded Ratio and the Actuarially Required Contribution (ARC).



# **Glossary of Terms (Continued)**

Amortization Method	A method for determining the Amortization Payment. Under the Level Percentage of Pay method, the Amortization payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. The stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.
Amortization Payment	That portion of the plan contribution or ARC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
Amortization Period	The period used in calculating the Amortization Payment.
Annual Required Contribution (ARC)	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The ARC consists of the Employer Normal Cost and Amortization Payment.
Annual Valuation Earnings	Reported salary at valuation date annualized for members with less than one year of service earned during the year.
Augmentation	Annual increases to deferred benefits.
Closed Amortization Period	A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example, if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.
Current Benefit Obligations	The present value of benefits earned to the valuation date, based on current service and including future salary increases to retirement (comparable to a Projected Unit Credit measurement).
Employer Normal Cost	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
Expected Assets	The present value of anticipated future contributions intended to fund benefits for current members.
Experience Gain/Loss	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience; e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience; i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.
GASB	Governmental Accounting Standards Board.



# **Glossary of Terms (Concluded)**

GASB Statements No. 25 and No. 27	These are the governmental accounting standards that previously set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. GASB Statement No. 27 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while GASB Statement No. 25 sets the rules for the systems themselves. These statements remain in effect only for pension plans that are not administered as trusts or equivalent arrangements. Please refer to the definition for GASB Statements No. 67 and No. 68 below.
GASB Statement No. 50	The accounting standard governing a state or local governmental employer's accounting for pensions. This statement remains in effect for pension plans that are not administered as trusts. Please refer to the definition of GASB Statements No. 67 and No. 68 below.
GASB Statements No. 67 and No. 68	GASB Statements No. 67 and No. 68, issued in June 2012, replace the requirements of GASB Statements No. 25, No. 27, and No. 50, respectively for pension plans administered as trusts. GASB Statement No. 68, effective for the fiscal year beginning July 1, 2014, sets the accounting and financial reporting rules for the employers that sponsor or contribute to public retirement systems, while GASB Statement No. 67, effective for the fiscal year beginning July 1, 2013, sets the rules for the systems themselves. Accounting and financial reporting information prepared according to GASB Statements No. 67 and No. 68 is provided in a separate report beginning with the June 30, 2014 actuarial valuation.
GASB Statement No. 82	GASB Statement No. 82, issued in March 2016, is an amendment to GASB Statements No. 67, No. 68, and No. 73, and is intended to improve consistency in the application of the accounting statements.
Normal Cost	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
Projected Annual Earnings	Projected annual payroll for fiscal year beginning on the valuation date, determined by increasing reported pay for each member by one full year's assumed pay increase according to the actuarial salary scale, as prescribed by the LCPR Standards for Actuarial Work.
Projected Benefit Funding Ratio	The ratio of the sum of Actuarial Value of Assets and Expected Assets to the Actuarial Present Value of Projected Benefits. A Ratio less than 100% indicates that contributions are insufficient.
Unfunded Actuarial Accrued Liability	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
Valuation Date	The date as of which the Actuarial Present Value of Future Benefits is determined. The benefits expected to be paid in the future are discounted to this date.

