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MINNESOTA STATE RETIREMENT SYSTEM

LEGISLATORS RETIREMENT FUND

ACTUARIAL VALUATION REPORT AS OF JULY 1, 2013





December 4, 2013

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

#### Dear Board of Directors:

The results of the July 1, 2013 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 Fund only in its entirety. GRS is not responsible for the consequences of any unauthorized use of this report.

The purpose of the valuation is to measure the Fund's funding progress, to determine the required contribution rate for the fiscal year beginning July 1, 2013, and to determine the actuarial information for Governmental Accounting Standards Board (GASB) Statement No. 25. Note that we have not attempted to quantify the impact of GASB Statements No. 67 and 68 in this report.

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 otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by MSRS.

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 of this report. MSRS is solely responsible for communicating to GRS any changes required thereto.

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 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.

Board of Directors December 4, 2013 Page 2

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

Brian B. Murphy and Bonita J. Wurst are Members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. In addition, Mr. Murphy meets the requirements of "approved actuary" under Minnesota Statutes Section 356.215, Subdivision 1, Paragraph (c).

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 fairly presents the actuarial position of the Legislators Retirement Fund as of the valuation date 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.

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

Respectfully submitted,

Brian B. Murphy, FSA, EA, MAAA

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

BBM/BJW:sc

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#### **Contributions**

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

		Actuarial V	aluatio	n as of
Contributions (dollars in thousands)	J	uly 1, 2013	J	uly 1, 2012
Statutory Contributions* - Chapter 3A	\$	89	\$	123
Required Contributions - Chapter 356	\$	18,577	\$	18,331
Sufficiency / (Deficiency)	\$	(18,488)	\$	(18,208)

<sup>\*</sup> Member contributions equal to 9% of payroll.

The Chapter 356 Required Contribution shown above represents the estimated annual contribution amount that would be needed for this plan to attain 100% funding by July 1, 2026, based upon the prescribed assumptions. 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. Without a change in contribution policy, the funding target identified by Chapter 356 will not be met.

This plan is currently funded on a pay-as-you-go basis by annual appropriations from the state's General Fund. The current contribution levels (member contributions and annual appropriations) are not sufficient to cover annual benefit payments. For the fiscal year ending June 30, 2013, total contributions were \$3.5 million and total benefit payments were \$7.9 million. As of July 1, 2013, assets will cover approximately 16 months of future benefit payments. Therefore, the ability of the fund to pay benefits in the future is highly dependent upon timely receipt of the contributions from the state's General Fund. The expected benefit payments for the next 10 years, based on current data, methods, and assumptions, are:

	Expected Annual
Fiscal Year Ending	<b>Benefit Payments</b>
2014	\$ 8,333,000
2015	8,661,000
2016	8,964,000
2017	9,026,000
2018	8,999,000
2019	8,997,000
2020	9,005,000
2021	9,006,000
2022	8,923,000
2023	8,830,000

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.

The *Plan Accounting* section details the required accounting information for the Plan under GASB No. 25 (as amended by GASB No. 50). Statements No. 67 and No. 68, issued in June 2012, replace the requirements of Statements No. 25 and No. 27, respectively. Statement No. 68, effective for the fiscal year beginning July 1, 2014, sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67, effective for the fiscal year beginning July 1, 2013, sets the rules for the systems themselves. Accounting information prepared according to Statements No. 67 and No. 68 will be provided in a separate report beginning with the July 1, 2014 valuation.

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 o					
	Jul	y 1, 2013	<b>July 1, 2012</b>			
Assumptions						
- Pre-retirement discount rate		0.0%		0.0%		
- Post-retirement discount rate		0.0%		0.0%		
- Post-retirement annual benefit increase		2.0%		2.0%		
<b>Contributions</b> (dollars in thousands)						
Statutory - Chapter 3A	\$	89	\$	123		
Required - Chapter 356		18,577 *		18,331		
Sufficiency / (Deficiency)		(18,488) *		(18,208)		
<b>Funding Ratios</b> (dollars in thousands)						
Accrued Liability Funding Ratio						
- Current assets (AVA)	\$	11,493	\$	15,523		
- Actuarial accrued liability		235,877		247,657		
- Funding ratio		4.87%		6.27%		
Projected Benefit Funding Ratio						
- Current and expected future assets	\$	12,289	\$	25,324		
- Current and expected future benefit obligations		241,751		257,458		
- Projected benefit funding ratio		5.08%		9.84%		
Participant Data						
Active Members						
- Number		24		34		
- Projected annual earnings (000s)		984		1,368		
- Average projected annual earnings		41,000		40,235		
- Average age		65.6		64.3		
- Average service		25.8		23.5		
Service Retirements		287		287		
Survivors		75		80		
Disability Retirements		0		0		
Deferred Retirements		70		74		
Terminated other Non-Vested		1		1		
Total		457		476		

<sup>\*</sup> Expected benefit payments for the fiscal year are \$8,333,000. The Required Contribution also includes amounts intended to pre-fund future benefit payments.

### **Legislative Changes**

Effective July 1, 2013, the Elective State Officers Retirement Fund (ESORF) is administratively consolidated with the Legislators Retirement Fund (LRF). This change first affects financial reporting for the fiscal year ending June 30, 2014. Beginning in 2014, the LRF actuarial valuation will include a separate calculation of the ESORF actuarial accrued liabilities. Benefit provisions for both retirement plans are unaffected by the merger.

#### Valuation of Future Annual Post-Retirement Benefit Increases

A very important assumption affecting the valuation results is the expectation of future annual post-retirement benefit increases, which, by statute, depends on the accrued liability funding ratio of the State Employees Retirement Fund (SERF) instead of this plan which has a 0% funding ratio. If the SERF reaches a funding ratio of 90% (on a market value of assets basis) in the future, post-retirement increases in the Legislators Retirement Fund will revert to the 2.5% level. The SERF's accrued liability funding ratio (on a market value of assets basis and assuming 2.0% post-retirement benefit increases in all future years) is currently 87.8%.

We performed a projection of the SERF's liabilities and assets, using 2013 valuation results as a baseline and assuming future experience follows the valuation assumptions, liabilities and normal cost assume future annual benefit increases at 2.5%, cashflow assumes future annual benefit increases at 2.0%, level normal cost as a percent of pay, and current statutory contribution levels. Our projection indicates the funded status of the SERF is not expected to reach 90% within the next 15 years of the projection. See the SERF 2013 valuation report, dated November 26, 2013, for additional information.

The liabilities in this report are based on the assumption that the post-retirement benefit increase will remain at the reduced level of 2.0% indefinitely. If we assumed future post-retirement benefit increases of 2.5% instead of 2.0%, the actuarial accrued liability would increase by \$16.2 million.

# **Supplemental Information**

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

- Plan assets presents 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.
- Plan accounting under GASB No. 25 (as amended by GASB No. 50) shows the disclosures required by GASB Statement No. 25 as amended by GASB Statement No. 50.
- Glossary defines the terms used in this report.

# Plan Assets Statement of Fiduciary Net Position (Dollars in Thousands)

	Market Value							
Assets	June	30, 2013	June	2 30, 2012				
Cash, equivalents, short term securities	\$	1,874	\$	1,424				
Fixed income		2,659		3,207				
Equity		8,615		10,903				
Other*		1,129		1,307				
Total cash, investments, and other assets	\$	14,277	\$	16,841				
Amounts Receivable		1		57				
Total Assets	\$	14,278	\$	16,898				
Amounts Payable*		(2,785)		(1,375)				
<b>Net Position Restricted for Pensions</b>	\$	11,493	\$	15,523				

<sup>\*</sup> Includes \$1,129 in Securities Lending Collateral as of June 30, 2103 and \$1,307 in Securities Lending Collateral as of June 30, 2012.

### **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.

Ch	ange in Assets	Market Value							
Ye	ar Ending	June	30, 2013	June	30, 2012				
1.	Fund balance at market value at beginning of year	\$	15,523	\$	19,140				
2.	Contributions								
	a. Member		111		124				
	b. Employer		0		0				
	c. Other sources (annual appropriations from state's General Fund)		3,399		3,935				
	d. Total contributions	\$	3,510	\$	4,059				
3.	Investment income								
	a. Investment income/(loss)		1,783		273				
	b. Investment expenses		(20)		(20)				
	c. Net investment income/(loss)		1,763		253				
4.	Other		0		0				
5.	<b>Total income:</b> $(2.d.) + (3.c.) + (4.)$	\$	5,273	\$	4,312				
6.	Benefits paid								
	a. Annuity benefits		(7,826)		(7,721)				
	b. Refunds		(101)		(172)				
	c. Total benefits paid		(7,927)		(7,893)				
7.	Expenses								
	a. Other		(1,338)		0				
	b. Administrative		(38)		(36)				
	c. Total expenses		(1,376)		(36)				
8.	Total disbursements: $(6.c.) + (7.c.)$		(9,303)		(7,929)				
9.	Fund balance at market value at end of year: $(1.) + (5.) + (8.)$	\$	11,493	\$	15,523				

# **Plan Assets**

### **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 as of June 30, 2013									
Age	<3*	3 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35+	Total
< 25										
Avg. Earnings										
25 - 29										
Avg. Earnings										
30 - 34										
Avg. Earnings										
2 2										
35 - 39										
Avg. Earnings										
40 44										
40 - 44 Avg. Earnings										
Avg. Larinigs										
45 - 49					1					1
Avg. Earnings					43,204					43,204
50 - 54										
Avg. Earnings										
55 - 59					1	3	1			5
Avg. Earnings					42,258	38,321	40,471			39,538
60 - 64					2		2	1		5
Avg. Earnings					42,921		39,637	42,149		41,453
65 - 69					1			2		3
Avg. Earnings					36,070			39,551		38,390
_								•		,
70+					2	2	2		4	10
Avg. Earnings					36,070	36,070	39,282		37,657	37,347
Total					7	5	5	3	4	24
Avg. Earnings					39,931	37,420	39,661	40,417	37,657	39,033
9					,1	2.,.=0	,001	,,	2.,00.	,000

<sup>\*</sup> This exhibit does not reflect service earned in other MSRS or Combined Service Annuity benefits. 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 Retired as of June 30, 2013									
Age	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	Total		
< 50										
Avg. Benefit										
11.8. 2011011										
50 - 54										
Avg. Benefit										
55 - 59										
Avg. Benefit										
60 64	7	12	4					24		
60 - 64	7	13	4					24		
Avg. Benefit	29,696	25,730	17,010					25,433		
65 - 69	3	20	17	11				51		
Avg. Benefit	20,691	18,498	19,295	15,101				18,160		
11vg. Benefit	20,071	10,170	17,275	15,101				10,100		
70 - 74		10	24	26				60		
Avg. Benefit		25,616	15,589	16,800				17,785		
75 - 79	3	2	7	17	29			58		
Avg. Benefit	32,047	22,555	18,887	24,868	26,099			25,053		
80 - 84		1	3	11	17	21		53		
Avg. Benefit		23,339	21,796	26,784	23,001	24,229		24,211		
85 - 89		1	1	1	8	9	10	30		
Avg. Benefit		11,511	31,077	32,261	37,642	27,811	20,640	27,756		
11.5. Denom		11,011	51,077	52,201	57,012	27,011	20,010	=1,100		
90+		1				1	9	11		
Avg. Benefit		27,676				14,974	32,797	30,711		
Total	13	48	56	66	54	31	19	287		
Avg. Benefit	28,161	22,255	17,837	20,493	26,834	24,970	26,399	22,684		

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 Sin	ce Death	as of June	30, 2013		
Age	<1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25+	Total
<45								
Avg. Benefit								
Tivg. Benefit								
45 - 49								
Avg. Benefit								
50 - 54		1						1
Avg. Benefit		6,301						6,301
55 - 59		1	1					2
Avg. Benefit		13,097	12,705					12,901
Avg. Benefit		13,077	12,703					12,701
60 - 64					1			1
Avg. Benefit					6,932			6,932
_								
65 - 69		2	2	2				6
Avg. Benefit		22,109	24,294	23,818				23,407
70 74		4	1	1	2	2	2	10
70 - 74		4	1	10.052	2	2	27.225	12
Avg. Benefit		12,472	5,833	19,953	14,703	19,559	37,235	18,222
75 - 79	1	3	4	1		1		10
Avg. Benefit	15,142	25,574	16,345	7,594		13,484		17,832
11,8, 201010	10,1.2	20,07	10,0 .0	7,65		10,101		11,002
80 - 84	1	5		2	3	3	1	15
Avg. Benefit	17,296	19,360		37,524	24,037	11,131	7,146	20,120
85 - 89	3	4	3	1	5		2	18
Avg. Benefit	17,659	10,155	13,874	3,957	20,833		10,387	14,673
00	1	2	2		4	4	2	40
90+	11.024	10.862	14.536		1	10.743	7 093	10 12 274
Avg. Benefit	11,034	19,862	14,536		9,216	10,743	7,983	12,374
Total	6	22	13	7	12	7	8	75
Avg. Benefit		16,699	15,631	22,027	18,486	13,820	15,792	16,882

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**

		Term	inate d	]	Recipients		
		Deferred	Other Non-	Service	Disability		
	Actives	Retirement	Vested	Retirement	Retirement	Survivor	Total
Members on 7/1/2012	34	74	1	287	0	80	476
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	(6)	(7)	0	13	0	0	0
Terminated deferred	(4)	4	0	0	0	0	0
Terminated refund/transfer	0	(1)	0	0	0	0	(1)
Deaths	0	0	0	(13)	0	(10)	(23)
New beneficiary	0	0	0	0	0	5	5
Disabled	0	0	0	0	0	0	0
Data correction	0	0	0	0	0	0	0
Net change	(10)	(4)	0	0	0	(5)	<b>(19)</b>
Members on 6/30/2013	24	70	1	287	0	75	457

	Deferred	Other Non-	
Terminated Member Statistics on June 30, 2013	Retirement	Vested	Total
Number	70	1	71
Average age	58.2	64.3	58.3
Average service	11.9	4.0	11.8
Average annual benefit, with augmentation to Normal			
Retirement Date and 30% CSA load	\$28,587	N/A	\$28,587
Average refund value, with 30% CSA load	\$82,155	\$38,728	\$81,543

### **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. 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, B.2 is the estimated present value of contributions to fund the normal cost rate for current members until their respective termination dates. Since statutory contributions are less than normal cost, B.2. is equal to the statutory contribution rate, minus expenses, times the present value of future payroll and Item B.1 is zero.

The contributions made in excess of amounts required for current benefit payments are accumulated as a reserve to help meet benefit payments in later years. It is this reserve system which permits the establishment of a level rate of contribution each year.

					June 30	, 2013
A. Actuarial Value of Assets					\$	11,493
B. Expected Future Assets						
Present value of expected future statutory supplemental contribution	ons					0
2. Present value of future normal cost contributions						796
3. Total expected future assets: $(1.) + (2.)$					\$	796
C. Total Current and Expected Future Assets					\$	12,289
D. Current Benefit Obligations*						
1. Benefit recipients	Non-Ve	ested	V	ested	Tot	al
a. Service retirements	\$	0	\$	131,509	\$	131,509
b. Disability retirements		0		0		0
c. Survivors		0		17,822		17,822
2. Deferred retirements with augmentation		0		69,932		69,932
3. Former members without vested rights**		39		0		39
4. Active members		0		18,763		18,763
5. Total Current Benefit Obligations	\$	39	\$	238,026	\$	238,065
E. Expected Future Benefit Obligations					\$	3,686
F. Total Current and Expected Future Benefit Obligations***					\$	241,751
G. Unfunded Current Benefit Obligations: $(D.5.)$ - $(A.)$					\$	226,572
H. Unfunded Current and Future Benefit Obligations: $(F.)$ - $(C.)$					\$	229,462
I. Accrued Benefit Funding Ratio: (A.)/(D.5.)						4.83%
J. Projected Benefit Funding Ratio: (C.)/(F.)						5.08%

<sup>\*</sup> Present value of credited projected benefits (projected compensation, current service).

<sup>\*\*</sup> Former members who have not satisfied vesting requirements and have not collected a refund of member contributions as of the valuation date.

<sup>\*\*\*</sup> Present value of projected benefits (projected compensation, projected service).

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

	Actuarial Present Value of Projected Benefits	Actuarial Present Value of Future Normal Costs	Actuarial Accrued Liability
A. Determination of Actuarial Accrued Liability (AAL)			
1. Active members			
a. Retirement annuities	\$ 21,958	\$ 5,557	\$ 16,401
b. Disability benefits	0	0	0
c. Survivor's benefits	491	184	307
d. Deferred retirements	0	117	(117)
e. Refunds*	0	16	(16)
f. Total	\$ 22,449	\$ 5,874	\$ 16,575
2. Deferred retirements with future augmentation	69,932	0	69,932
3. Former members without vested rights*	39	0	39
4. Benefit recipients	149,331	0	149,331
5. Total	\$ 241,751	\$ 5,874	\$ 235,877
B. Determination of Unfunded Actuarial Accrued Liability (UAAL	)		
Actuarial accrued liability			\$ 235,877
2. Current assets (AVA)			11,493
3. Unfunded actuarial accrued liability			\$ 224,384
C. Determination of Supplemental Contribution Rate			
1. Current unfunded actuarial accrued liability to be			
amortized by June 30, 2026			\$ 224,384
Supplemental contribution amount			\$ 17,260 **

<sup>\*</sup> Former members with either six full years of service or service during all or part of four regular legislative sessions that have not collected a refund of member contributions as of the valuation date.

<sup>\*\*</sup> The amortization factor as of July 1, 2013 is 13.0000.

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

	Ending 30, 2013
A. Unfunded actuarial accrued liability at beginning of year	\$ 232,134
B. Changes due to interest requirements and current rate of funding	
1. Normal cost and expenses	1,758
2. Contributions	(3,510)
3. Interest on A., B.1. and B.2.	0
4. Total $(B.1. + B.2. + B.3.)$	(1,752)
C. Expected unfunded actuarial accrued liability at end of year $(A. + B.4.)$	230,382
D. Increase (decrease) due to actuarial losses (gains) because of experience deviations from expected	
1. Age and service retirements	(1,551)
2. Disability retirements	0
3. Death-in-service benefits	23
4. Withdrawals	(286)
5. Salary increases	193
6. Investment income	(387)
7. Mortality of annuitants	(1,030)
8. Other items*	(2,960)
9. Total	(5,998)
E. Unfunded actuarial accrued liability at end of year before plan amendments and	
changes in actuarial assumptions $(C. + D.9.)$	224,384
F. Change in unfunded actuarial accrued liability due to changes in plan provisions	0
G. Change in unfunded actuarial accrued liability due to changes in actuarial assumptions	0
H. Change in unfunded actuarial accrued liability due to changes in actuarial methods	0
I. Unfunded actuarial accrued liability at end of year $(E. + F. + G. + H.)$	\$ 224,384

<sup>\*</sup> Other items include actuarial gains due to a number of changes in benefit amounts for members who were a deferred vested status last year and retired this year. In the prior valuation, many of these benefits were not available and were estimated. Actual benefits provided by MSRS for this valuation were smaller for many members than the estimated benefits used in the 2012 valuation.

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

The required contribution is defined in statutes as the sum of normal cost, a supplemental contribution to amortize the UAAL, and an allowance for expenses.

	Percent of Payroll	ollar nt (000s)
A. Statutory Contributions - Chapter 352	_	_
1. Employee Contributions	9.00%	\$ 89
2. Employer contributions	0.00%	 0
3. Total	9.00%	\$ 89
B. Required Contributions - Chapter 356  1. Normal cost		
a. Retirement benefits	122.43%	\$ 1,205
b. Disability benefits	0.00%	0
c. Survivors	4.47%	44
d. Deferred retirement benefits	3.59%	35
e. Refunds	0.62%	6
f. Total	131.11%	\$ 1,290
2. Supplemental contribution amortization of Unfunded		
Actuarial Accrued Liability by June 30, 2026	1,754.09%	\$ 17,260
3. Allowance for expenses	2.78%	\$ 27
4. Total	1,887.98% *	\$ 18,577
C. Contribution Sufficiency/(Deficiency) (A.3 B.4.)	(1,878.98%)	\$ (18,488)

<sup>\*</sup> Plan is funded by annual appropriations from the state's General Fund. Estimated benefit payments of \$8,333,000 are expected to be paid during the upcoming fiscal year.

Note: Projected annual payroll for fiscal year beginning on the valuation date: \$984.

#### **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**

An actuarial cost method is a set of techniques used by the actuary to develop contribution levels under a retirement plan. The actuarial cost method used in this valuation for all purposes is the Entry Age Actuarial Cost Method. 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. The total contribution developed under this method is the sum of normal cost, expenses, and the payment toward the UAAL.

#### **Decrement Timing**

All decrements are assumed to occur mid-fiscal year.

#### **Asset Valuation Method**

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

#### Payment on the Unfunded Actuarial Accrued Liability

The unfunded liability is amortized as a level dollar 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 will be re-determined.

#### **Funding Objective**

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

#### **Changes in Methods since Prior Valuation**

None.

### **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 last assumption review, dated January 2012, prepared by a former actuary, and are consistent with the *Alternate Assumptions* used in the 2011 valuation.

The Allowance for Combined Service Annuity was also based on a recommendation by a former actuary. We are unable to judge the reasonableness of this assumption without performing a substantial amount of additional work beyond the scope of the assignment.

Investment return	0.00% per annum post-retirement
	0.00% per annum pre-retirement
Benefit increases after	Payment of 2.00% annual benefit increases after retirement are accounted for
retirement	explicitly in the projected benefits. This valuation does not reflect potential additional benefit increases payable if the State Employees Retirement Fund's funding ratio exceeds 90%.
Salary increases	5.00% annually.
Inflation	3.00% annually.
Mortality rates	
Healthy Pre-retirement	RP-2000 employee generational mortality table projected with mortality improvement scale AA, white collar adjustment, set forward three years for males and set back one year for females.
Healthy Post-retirement	RP-2000 annuitant generational mortality table projected with mortality improvement scale AA, white collar adjustment.
	The RP-2000 employee mortality table as published by the Society of Actuaries (SOA) contains mortality rates for ages 15 to 70 and the annuitant mortality table contains mortality rates for ages 50 to 120. We have applied the annuitant mortality table for active members beyond age 70 until the assumed retirement age and the employee mortality table for annuitants younger than age 50.
Disabled	N/A
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 rate table.

# **Summary of Actuarial Assumptions (Continued)**

Disability	None.
Allowance for combined	Liabilities for former members are increased by 30.00% to account for the effect
service annuity	of some participants having eligibility for a Combined Service Annuity.
Administrative expenses	Prior year administrative expenses expressed as percentage of prior year projected payroll.
Refund of contributions	Account balances accumulate interest until normal retirement date and are
	discounted back to the valuation date. All employees withdrawing after becoming
	eligible for a deferred benefit take the larger of their contributions accumulated with interest or the value of their deferred benefit.
Commencement of deferred	Members receiving deferred annuities (including current terminated deferred
benefits	members) are assumed to begin receiving benefits at age 62.
Percentage married	85% of active members are assumed to be married.
Age of spouse	Females are assumed to be three years younger than their male 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 50% joint and survivor annuity.
	Active single members and deferred members are assumed to elect a life annuity.
	Unless reported with a joint & survivor option, retired members are assumed to
	have a spouse that is eligible for the automatic survivor benefit.
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.
Service credit accruals	It is assumed that members accrue one year of service credit per year.

### **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.

There are no members reported with missing gender or birth dates. In cases where submitted data was missing or incomplete, the following assumptions were applied:

#### Data for active members:

There were no members reported with missing salary or service.

#### Data for terminated members:

There were 13 members reported without a benefit. If available, we calculated benefits for these members using the reported Average Salary, Credited Service and Termination Date. If Average Salary was also not reported (10 members), we assumed a value of \$30,000. If Termination Date was not reported (three members), we assumed the member terminated at age 40 (or current age if younger than 40). There were no members reported without Credited Service.

#### Data for members receiving benefits:

There were no members reported without a benefit.

Unless reported with a joint & survivor option, retired members were assumed to have a spouse that is eligible for the automatic survivor benefit. Of the 287 retired members, 109 were reported with a joint & survivor option. Of the remaining 178 members, 81 were reported as a life annuity option but with a spouse benefit. The remaining 97 retired members were reported as a life annuity but were valued as a 50% joint & survivor annuity per MSRS' direction.

Changes in actuarial assumptions

None.

# **Summary of Actuarial Assumptions (Concluded)**

Rate (	%)*
--------	-----

		Kate (70)			
	Heal	thy	Heal	lthy	
	Pre-Retiremen	t Mortality**	Post-Retirement Mortalit		
Age	Male	Female	Male	Female	
20	0.04%	0.02%	0.03%	0.02%	
25	0.04	0.02	0.04	0.02	
30	0.05	0.02	0.04	0.03	
35	0.08	0.04	0.06	0.05	
40	0.11	0.06	0.09	0.06	
45	0.17	0.09	0.13	0.10	
50	0.24	0.15	0.60	0.24	
55	0.35	0.22	0.54	0.35	
60	0.56	0.34	0.66	0.56	
65	0.85	0.54	1.16	0.91	
70	2.67	0.82	1.93	1.52	

<sup>\*</sup> Generally, mortality rates are expected to increase as age increases. Due to the combination of pre-retirement rates, post-retirement rates, the white collar adjustment and Projection Scale AA, the prescribed mortality tables have a few ages where assumed mortality decreases slightly instead of increases. We have used the rates prescribed, but note that the prescribed assumption may not be reasonable at every age. If the rates were reasonably adjusted so that they decrease at all ages, we would not expect the valuation results to be materially different.

<sup>\*\*</sup> These rates were adjusted for mortality improvements using projection scale AA.

			Withdrawal	
Age	<b>Percent Retiring</b>	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**

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).	
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 (Continued)**

<b>Retirement (Continued)</b>	
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.
Form of Payment	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	Benefit recipients receive future annual 2.0% benefit increases. When the funding ratio of the State Employees Retirement Fund reaches 90% (on a Market Value of Assets basis), the benefit increase will revert to 2.5%. A benefit recipient who has been receiving a benefit for at least 12 full months as of June 30 will receive a full increase. Members receiving benefits for at least one month but less than 12 full months as of June 30 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 (Continued)**

Dooth	(Continued)
Death (	(Continued)

Surviving dependent 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 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 retirement.

Refund of contributions

Age/Service requirement Member dies before receiving any retirement benefits and survivor benefits are

not payable.

Amount Member's contributions with 6.00% annual interest compounded daily until June

30, 2011, 4.00% thereafter.

**Termination** 

Refund of contributions

Age/Service requirement Termination of service.

Amount Member's contributions with 6.00% annual interest compounded daily until June

30, 2011, 4.00% thereafter. 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; and

(e.) 2.00% from January 1, 2012 forward.

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 5.0% to 6.0%.

# **Summary of Plan Provisions (Concluded)**

Optional form conversion factors	Actuarially equivalent factors based on RP-2000 mortality for healthy annuitants, white collar adjustment, projected to 2025 using Scale AA, blended 55% males, and 6.5% interest.					
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; and					
	(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.					
Legislative changes	Effective July 1, 2013, the Elective State Officers Retirement Fund (ESORF) is administratively consolidated with the Legislators Retirement Fund (LRF). This change first affects financial reporting for the fiscal year ending June 30, 2014. Beginning in 2014, the LRF actuarial valuation will include a separate calculation of the ESORF actuarial accrued liabilities. Benefit provisions for both retirement plans are unaffected by the merger.					

# Plan Accounting Under GASB No. 25 (as amended by GASB No. 50)

Provided below is information required under GASB Statement No. 25 as amended by GASB Statement No. 50 - Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans as amended by GASB Statement No. 50.

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

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)		
07/01/1991	\$ 14,694	\$ 30,403	\$ 15,709	48.33%	\$ 7,078	221.94%		
07/01/1992	15,160	33,224	18,064	45.63	6,556	275.53		
07/01/1993	17,169	36,801	19,632	46.65	7,322	268.12		
07/01/1994	18,738	45,448	26,710	41.23	6,589	405.37		
07/01/1995	21,213	50,255	29,042	42.21	7,056	411.59		
07/01/1996	22,532	54,225	31,693	41.55	6,267	505.71		
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	37,265	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		
07/01/2006	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 <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 4	16,845.72		
07/01/2013	11,493	235,877	224,384	4.87	1,233 4	18,198.22		

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

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

# Plan Accounting Under GASB No. 25 (as amended by GASB No. 50)

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

The GASB Statement No. 25 required and actual contributions are as follows:

		Actuarially										
	Plan Year	Required	Actual	Actual Member Contributions		Actual Member Annual Required		Actual Employer Contributions <sup>2</sup>			Perce	ntage
	<b>Ended</b>	Contribution	Covered Payroll			Contributions Contributions					Contr	ibuted
,	June 30	Rate (a)	<b>(b)</b>	(c)		[(a)x(b)]-(c)=(d)		(e)		(e)	/(d)	
	1991	32.62 %	\$ 7,078	\$	637	\$	1,672		\$	1,889	112	2.98 %
	1992	27.67	6,556		590		1,224			601	49	0.10
	1993	30.49	7,322		659		1,573			2,284	145	5.20
	1994	32.12	6,589		593		1,457			1,618	111	.05
	1995	38.34	7,056		635		2,070			2,938	141	.93
	1996	41.54	6,267		564		2,039			1,511	74	1.10
	1997	43.96	7,767		699		2,715			3,176	116	5.98
	1998	48.03	6,802		612		2,655			5,199	195	5.82
	1999	47.19	7,490		674		2,861			2,091	73	3.09
	2000	52.72	5,808		523		2,539			3,192	125	5.72
	2001	47.26	5,858		527		2,241			5,039	224	1.85
	2002	60.14	5,089		458		2,603			4,135	158	3.86
	$2003^{3}$	63.12	-		-		-		-		-	
	2004	63.12	3,815		343		2,065			425	20	).58
	2005	104.72	3,014		384		2,773			1,822	65	5.71
	2006	112.64	2,894		264		2,995			5,684	189	0.78
	2007	111.24	2,380		239		2,408			1,772	73	3.59
	2008	171.10	1,993		180		3,230			2,217	68	3.64
	2009	243.21	1,963		248		4,526			1,269	28	3.04
	2010	413.00	1,877		170		7,582			1,975	26	5.05
	2011	432.92	1,774		160		7,520			2,805	37	7.30
	2012 4	1,320.95	1,378 5		124		18,079			3,935	21	.77
	2013	1,340.00	1,233 5		111		16,411			3,399	20	).71
	2014	1,887.98	N/A		N/A		N/A			N/A	N	/A

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

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

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

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

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

# **Glossary of Terms**

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 compliance with GASB No. 25, 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 The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under

GASB No. 25. The ARC consists of the Employer Normal Cost and

Amortization Payment.

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.

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.

# **Glossary of Terms (Concluded)**

GASB Governmental Accounting Standards Board.

GASB No. 25 and These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or

contribute to them. Statement No. 27 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while

Statement No. 25 sets the rules for the systems themselves.

GASB No. 50 The accounting standard governing a state or local governmental

employer's accounting for pensions.

GASB No. 67 and Statements No. 67 and No. 68, issued in June 2012, replace the requirements of Statements No. 25 and No. 27, respectively. Statement No.

68, effective for the fiscal year beginning July 1, 2014, sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 67, effective for the fiscal year beginning July 1, 2013, sets the rules for the systems themselves. Accounting information prepared according to Statements No. 67 and No. 68 will be

provided in a separate report beginning July 1, 2014.

Normal Cost The annual cost assigned, under the Actuarial Cost Method, to the current

plan year.

Projected Benefit Funding The ratio of the sum of Actuarial Value of Assets and Expected Assets to

the Actuarial Present Value of Projected Benefits.

Unfunded Actuarial Accrued The difference between the Actuarial Accrued Liability and Actuarial

*Liability* Value of Assets.

Ratio

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.