

December 2011

# Elective State Officers Retirement Fund

Actuarial Valuation Report as of July 1, 2011

**MERCER**

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# MERCER

December 2011

Minnesota State Retirement System  
Elective State Officers Retirement Fund  
St. Paul MN

Dear Board of Directors:

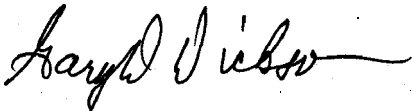
Submitted in this report are the July 1, 2011 actuarial valuation results for the Elective State Officers Retirement Fund. The purposes of this report are to:

- Present Mercer's actuarial estimates of the Plan's liabilities and expenses as required by Minnesota Statutes, Section 356.215 and the Standards for Actuarial Work established by the State of Minnesota Legislative Commission on Pensions and Retirement (LCPR) for the Minnesota State Retirement System (MSRS) to incorporate, as MSRS deems appropriate, in its financial statements; and
- Provide the actuarially required contribution for the fiscal year beginning July 1, 2011.

To the best of our knowledge and belief, the valuation 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, including one modification regarding decrement timing. The LCPR approved this exception prior to the preparation of this report in order to ensure consistency and comparability. For more information about the decrement timing methodology, please refer to the *Actuarial Basis* section.

We are available to answer any questions on the material in this report or to provide explanations or further details as appropriate. Moreover, this report contains a Glossary of certain terms referenced in the report, which you may wish to consult before reviewing the report. The undersigned credentialed actuaries meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained in this report. In addition, Mr. Dickson meets the requirements of "approved actuary" under Minnesota Statutes, Section 356.215, Subdivision 1, Paragraph (c). We are not aware of any direct or material indirect financial interest or relationship, including investments or other services that could create a conflict of interest, that would impair the objectivity of our work.

Respectfully submitted,



Gary D. Dickson, FSA, EA, MAAA



Bonita J. Wurst, ASA, EA, MAAA

## Highlights

### Contributions

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

<b>Contributions</b>	<b>Actuarial Valuation as of</b>	
	<b>July 1, 2011</b>	<b>July 1, 2010</b>
Statutory Contributions – Chapter 352C	\$ 0	\$ 0
Required Contributions – Chapter 356	748,401	643,501
Sufficiency / (Deficiency)	(748,401)	(643,501)

This plan has no assets. The Chapter 356 Required Contribution shown above represents the estimated annual contribution amount that would be needed in order for this plan to attain 100% funding by July 1, 2017, based upon the prescribed assumptions. Actual contributions have been less than the required amount since 1998. 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 approximately equal to the amount of annual benefit payments. The expected benefit payments for the next 10 years, based on current data, methods, and assumptions, are:

<b>Fiscal Year Ending</b>	<b>Expected Annual Benefit Payments</b>
2012	\$490,000
2013	476,000
2014	463,000
2015	449,000
2016	434,000
2017	417,000
2018	400,000
2019	382,000
2020	364,000
2021	344,000

## Highlights

The estimated benefit payments, actuarial accrued liability, and required contribution are based on prescribed assumptions. The economic assumptions are prescribed by Minnesota Statute, and the remaining assumptions are adopted by the MSRS Board of Directors and the Legislative Commission on Pensions and Retirement. We have a number of concerns about the prescribed assumptions.

- First, the current contribution and investment policy of this plan does not support an investment return assumption of 8.5%. For contribution calculations, a significantly lower discount rate, perhaps even 0%, would be more consistent with the recent experience of the plan and lack of any expected future investment earnings due to the current pay-as-you-go contribution policy.
- Second, the *Mortality Rates* that are prescribed by the LCPR are based on a table that is almost 30 years old. Mortality rates have improved since this table was adopted for use by the plan and are generally expected to continue to improve. Using this table as is does not comply with the guidance in Actuarial Standards of Practice Number 35 (ASOP 35), which requires an explicit assumption about mortality improvement, and if no mortality improvement is assumed after the valuation date, an explanation as to why. To the extent the rates in this table are too high, i.e. mortality has improved or will in the future, this report understates the plan's liabilities and required contributions.

In the event of a conflict between the Standards for Actuarial Work established by the LCPR and ASOP 35, the Standards require that the actuary for the Fund and the Commission's actuary review the situation to determine the approach to completing the valuations. We discussed this issue with Milliman, acting in their capacity as the Commission's actuary, and their preferred approach, as followed herein, is to use the prescribed mortality for 2011 valuations with commentary, and update the mortality assumption in 2012. A review of valuation assumptions has been authorized by MSRS and is scheduled to occur in 2012.

- We recommend that all prescribed assumptions be reviewed and updated, if possible, before the next actuarial valuation. Lowering the discount rate and updating the mortality table will increase the actuarial accrued liability.

The current assumptions may not comply with GASB standards for financial reporting. For GASB purposes, you have directed us to use an alternate assumption set, as follows:

	<b>Prescribed assumptions</b>	<b>Alternate assumptions</b>
Discount rate	8.5% pre-retirement 6.5% post-retirement	0% pre-retirement 0% post-retirement
Post-retirement benefit increase	Implicit in 6.5% post-retirement rate	2.0% annual increase
Mortality	1983 Group Annuity Mortality Pre-retirement: males set back four years, females set back two years Post-retirement: no set backs	RP 2000 generational mortality, white collar Pre-retirement: non-annuitant table, males set forward three years, females set back one year Post-retirement: annuitant table with no set backs

All other assumptions not noted above are the same under the Alternate assumptions as the Prescribed assumptions. Results under the alternate assumption set are shown on the next page, in the GASB exhibits, and in footnotes throughout the report.

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 Statement No. 25 (as amended by GASB 50).

## Principal Valuation Results

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	
	July 1, 2011	July 1, 2010
<b>Contributions</b>		
Statutory – Chapter 352C	\$ 0	\$ 0
Required – Chapter 356*	748,401	643,501
Sufficiency / (Deficiency)*	(748,401)	(643,501)
<b>Funding Ratios</b>		
Accrued Liability Funding Ratio		
– Current assets (AVA)	\$ 0	\$ 214,002
– Actuarial accrued liability*	3,692,642	3,782,189
– Funding ratio*	0.00%	5.66%
Projected Benefit Funding Ratio		
– Current and expected future assets	\$ 0	\$ 214,002
– Current and expected future benefit obligations	3,692,642	3,782,189
– Projected benefit funding ratio	0.00%	5.66%
<b>Participant Data</b>		
Active members	0	0
Service retirements	10	11
Survivors	4	4
Disability retirements	0	0
Deferred retirements	1	1
Terminated other non-vested	0	0
<b>Total</b>	<b>15</b>	<b>16</b>

\* *Alternate assumption results:*

<i>Required contribution</i>	\$ 1,269,363
<i>Sufficiency / (deficiency)</i>	(1,269,363)
<i>Actuarial accrued liability</i>	7,610,176
<i>Actuarial accrued liability funding ratio</i>	0.00%

## Principal Valuation Results

### Valuation of Future Post-Retirement Benefit Increases

A very important assumption affecting the valuation results is the expectation of future post-retirement benefit increases, which depends on the accrued liability funding ratio of the State Employees Retirement Fund. If the State Employees Retirement Fund reaches a funding ratio of 90% (on a market value of assets basis) in the future, post-retirement increases in the Elective State Officers Retirement Fund will revert to the 2.5% level. The State Employees Retirement Fund'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 87.0%.

We performed a projection of liabilities and assets of the State Employees Retirement Fund, using the 2011 valuation results as a baseline and assuming future experience follows the valuation assumptions (including future investment returns of 8.5%). In addition, the projection utilized the following methods and assumptions:

- Liabilities and normal cost assume future COLAs at 2.5% level payable for all years
- Cash flow assuming future COLAs at current 2.0% level
- Level normal cost as a percent of pay (assuming total payroll increases as assumed in the valuation for purposes of amortizing the unfunded liability). Plan changes affecting members first hired after June 30, 2010 are expected to ultimately reduce the cost of the plan, but have not yet had a material impact on the valuation results. We did not attempt to quantify this reduction.
- Current statutory contribution levels (i.e. not including potential contribution increases under the contribution stabilizer statutes).

Based on these assumptions and methods, the projection indicates that the funded status of the State Employees Retirement Fund is not expected to reach 90% within the next 15 years of the projection.

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. We relied on direction from MSRS, including MSRS' interpretation of applicable Minnesota Statutes, on this issue. If we assumed future post-retirement benefit increases of 2.5% instead of 2.0%, the actuarial accrued liability would increase \$114,000.

## Important Notices

Mercer has prepared this report exclusively for the Board of Directors of the Minnesota State Retirement System (MSRS) and the Legislative Commission on Pensions and Retirement (LCPR); Mercer is not responsible for reliance upon this report by any other party. Subject to this limitation, MSRS may direct that this report be provided to its auditors in connection with audits of the Plan or its sponsoring entities.

The only purposes of this report are to:

- Present Mercer's actuarial estimates of the Plan's liabilities and expenses as required by Minnesota Statutes, Section 356.215 and the Standards for Actuarial Work established by the State of Minnesota LCPR for MSRS to incorporate, as MSRS deems appropriate, in its financial statements; and
- provide the actuarially required contribution rate for the period beginning July 1, 2011.

This report may not be used for any other purpose; Mercer is not responsible for the consequences of any unauthorized use.

Decisions about benefit changes, granting new benefits, investment policy, funding policy, benefit security and/or benefit-related issues should not be made on the basis of this valuation, but only after careful consideration of alternative economic, financial, demographic and societal factors, including financial scenarios that assume future sustained investment losses.

The State Board of Investment (SBI) is solely responsible for selecting the plan's investment policies, asset allocations and individual investments. Mercer's actuaries have not provided any investment advice to the Board of Directors or the SBI.

A valuation report is only a snapshot of a Plan's estimated financial condition at a particular point in time; it does not predict the Plan's future financial condition or its ability to pay benefits in the future and does not provide any guarantee of future financial soundness of the Plan. Over time, a plan's total cost will depend on a number of factors, including the amount of benefits the plan pays, the number of people paid benefits, the period of time over which benefits are paid, plan expenses and the amount earned on any assets invested to pay benefits. These amounts and other variables are uncertain and unknowable at the valuation date.

Because modeling all aspects of a situation is not possible or practical, we may use summary information, estimates, or simplifications of calculations to facilitate the modeling of future events in an efficient and cost-effective manner. We may also exclude factors or data that are immaterial in our judgment. Use of such simplifying techniques does not, in our judgment, affect the reasonableness of valuation results for the plan.

To prepare the valuation report, actuarial assumptions, as described in the *Actuarial Basis* section of this report, are used in a forward looking financial and demographic model to present a single scenario from a wide range of possibilities; the results based on that single scenario are included in the valuation. The future is uncertain and the plan's actual experience will differ from those assumptions; these differences may be significant or material because these results are very sensitive to the assumptions made and, in some cases, to the interaction between the assumptions.

Different assumptions or scenarios within the range of possibilities may also be reasonable and results based on those assumptions would be different. As a result of the uncertainty inherent in a forward looking projection over a very long period of time, no one projection is uniquely "correct" and many alternative projections of the future could also be regarded as reasonable. Two different actuaries could, quite reasonably, arrive at different results based on the same data and different views of the future. A "sensitivity analysis" shows the degree to which results would be different if you substitute alternative assumptions within the range of possibilities for those utilized in this report. We have not been engaged to perform such a sensitivity analysis and thus the results of



## Important Notices

such an analysis are not included in this report. At MSRS's request, Mercer is available to perform such a sensitivity analysis.

Actuarial assumptions may also be changed from one valuation to the next because of changes in mandated requirements, plan experience, changes in expectations about the future and other factors. A change in assumptions is not an indication that prior assumptions were unreasonable when made.

The calculation of actuarial liabilities for valuation purposes is based on a current estimate of future benefit payments. The calculation includes a computation of the "present value" of those estimated future benefit payments using an assumed discount rate; the higher the discount rate assumption, the lower the estimated liability will be. For purposes of estimating the liabilities (future and accrued) in this report, you selected an assumption based on the estimated long-term investment return on the investments that are expected to be used to finance the payment of benefits. Using a lower discount rate assumption, such as a rate based on long-term bond yields, could substantially increase the estimated present value of future and accrued liabilities.

Because valuations are a snapshot in time and are based on estimates and assumptions that are not precise and will differ from actual experience, contribution calculations are inherently imprecise. There is no uniquely "correct" level of contributions for the coming plan year.

Valuations do not affect the ultimate cost of the Plan, only the timing of contributions into the Plan. Plan funding occurs over time. Contributions not made this year, for whatever reason, including errors, remain the responsibility of the Plan sponsor and can be made in later years. If the contribution levels over a period of years are lower or higher than necessary, it is normal and expected practice for adjustments to be made to future contribution levels to take account of this with a view to funding the plan over time.

Data, computer coding and mathematical errors are possible in the preparation of a valuation involving complex computer programming and thousands of calculations and data inputs. Errors in a valuation discovered after its preparation may be corrected by amendment to the valuation or in a subsequent year's valuation.

Actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes Section 356.215, the 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 Mercer any changes required thereto.

To prepare this report Mercer has used and relied on financial data and participant data supplied by MSRS and summarized in the *Plan Assets* and *Membership Data* sections of this report. MSRS is responsible for ensuring that such participant data provides an accurate description of all persons who are participants under the terms of the plan or otherwise entitled to benefits as of the valuation date that is sufficiently comprehensive and accurate for the purposes of this report. Although Mercer has reviewed the data in accordance with Actuarial Standards of Practice No. 23, Mercer has not verified or audited any of the data or information provided.

Mercer has also used and relied on the summary of plan provisions, including amendments, and interpretations of plan provisions, supplied by MSRS as summarized in the *Actuarial Basis* section of this report and on plan provisions stipulated by statute. We have assumed for purposes of this valuation that copies of any official plan document including all amendments and collective bargaining agreements as well as any interpretations of any such document have been provided to Mercer along with a written summary of any other substantive commitments. The Board of Directors is solely responsible for the validity, accuracy and comprehensiveness of

## Important Notices

this information. If any data or plan provisions supplied are not accurate and complete, the valuation results may differ significantly from the results that would be obtained with accurate and complete information; this may require a later revision of this report. Moreover, plan documents may be susceptible to different interpretations, each of which could be reasonable, and that the different interpretations could lead to different valuation results.

MSRS should notify Mercer promptly after receipt of the valuation report if MSRS disagrees with anything contained in the valuation report or is aware of any information that would affect the results of the valuation report that has not been communicated to Mercer or incorporated therein. The valuation report will be deemed final and acceptable to MSRS unless MSRS promptly provides such notice to Mercer.

The information contained in this document (including any attachments) is not intended by Mercer to be used, and it cannot be used, for the purpose of avoiding penalties under the Internal Revenue Code that may be imposed on the taxpayer.

## 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 and the Minnesota State Board of Investments. 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 25 (as amended by GASB 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 Plan Net Assets as of June 30, 2011

	<b>Market Value</b>
<hr/>	
<b>Assets in Trust</b>	
▪ Cash, equivalents, short term securities	\$ 0
▪ Fixed income	0
▪ Equity	0
▪ Other	0
<b>Total assets in trust</b>	<hr/> \$ 0
Assets Receivable	642
<b>Total Assets</b>	<hr/> \$ 642
Amounts Payable	(642)
<b>Net Assets held in trust for pension benefits</b>	<hr/> \$ 0

## Plan Assets

### Reconciliation of Plan Assets

The following exhibit shows the revenue, expenses and resulting assets of the Fund as reported by the Minnesota State Retirement System for the Plan's Fiscal Year July 1, 2010 to June 30, 2011.

Change in Assets	Market Value
1. Fund balance at market value at July 1, 2010	\$ 214,002
2. Restatement of plan assets as of July 1, 2010*	(214,002)
3. Contributions	
a. Member	0
b. Employer	0
c. Other sources	460,335
d. Total contributions	\$ 460,335
4. Investment income	
a. Investment income/(loss)	\$ 0
b. Investment expenses	0
c. Total investment income/(loss)	\$ 0
5. Other	0
<b>6. Total income (2.d. + 3.c. + 4.)</b>	<b>\$ 460,335</b>
7. Benefits paid	
a. Annuity benefits	\$ (459,693)
b. Refunds	0
c. Total benefits paid	\$ (459,693)
8. Expenses	
a. Other	\$ 0
b. Administrative	(642)
c. Total expenses	\$ (642)
<b>9. Total disbursements (6.c. + 7.c.)</b>	<b>\$ (460,335)</b>
<b>10. Fund balance at market value at June 30, 2011 (1 + 2. + 5. + 8.)</b>	<b>\$ 0</b>

\* Net assets as of July 1, 2010 were restated by MSRS for a prior period adjustment after the 2010 valuation report was issued. Per MSRS, the prior period adjustment results from a reduction of the Assets Receivable balance as of June 30, 2010. The amount previously reported included a contingency that received financial statement recognition instead of note disclosure only, which MSRS felt was more appropriate.

## Plan Assets

### Actuarial Asset Value

Actuarial Asset Value is equal to Market Value, including receivable contributions and reduced by amounts payable at the valuation date.

## Membership Data

### Distribution of Service Retirements

Age	Years Retired as of June 30, 2011							Total
	<1	1 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25+	
<55								0
Avg. Benefit								N/A
55 – 59								0
Avg. Benefit								N/A
60 – 64								0
Avg. Benefit								N/A
65 – 69			3					3
Avg. Benefit			24,167					24,167
70 – 74								0
Avg. Benefit								N/A
75 – 79				2	1			3
Avg. Benefit				75,466	9,067			53,333
80 – 84				1	3			4
Avg. Benefit				18,059	27,905			25,443
85 – 89								0
Avg. Benefit								N/A
90+								0
Avg. Benefit								N/A
<b>Total</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>10</b>
<b>Avg. Benefit</b>	<b>N/A</b>	<b>N/A</b>	<b>24,167</b>	<b>56,330</b>	<b>23,195</b>	<b>N/A</b>	<b>N/A</b>	<b>33,427</b>

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.

## Membership Data

### Distribution of Survivors

Age	Years Since Death as of June 30, 2011							Total
	<1	1 – 4	5 – 9	10 – 14	15 – 19	20 – 24	25+	
<55								0
Avg. Benefit								N/A
55 – 59								0
Avg. Benefit								N/A
60 – 64								0
Avg. Benefit								N/A
65 – 69	1							1
Avg. Benefit	34,717							34,717
70 – 74					1			1
Avg. Benefit					9,067			9,067
75 – 79								0
Avg. Benefit								N/A
80 – 84					1			1
Avg. Benefit					52,256			52,256
85 – 89								0
Avg. Benefit								N/A
90+					1			1
Avg. Benefit					24,479			24,479
<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>4</b>
<b>Avg. Benefit</b>	<b>34,717</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>28,601</b>	<b>N/A</b>	<b>N/A</b>	<b>30,130</b>

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



## Membership Data

### Reconciliation of Members

	Actives	Terminated		Recipients			Total
		Deferred Retirement	Other Non-vested	Service Retirements	Disability Retirements	Survivors	
<b>Members on 7/1/2010</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>4</b>	<b>16</b>
New entrants	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	0	0	0	0	0	0
Terminated deferred	0	0	0	0	0	0	0
Terminated refund	0	0	0	0	0	0	0
Deaths	0	0	0	(1)	0	(1)	(2)
New beneficiary	0	0	0	0	0	1	1
Disabled	0	0	0	0	0	0	0
Benefits expired	0	0	0	0	0	0	0
Data correction	0	0	0	0	0	0	0
Net change	0	0	0	(1)	0	0	(1)
<b>Members on 6/30/2011</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>15</b>

<b>Terminated Member Statistics</b>	<b>Deferred Retirement</b>	<b>Other Non-Vested</b>	<b>Total</b>
Number	1	0	1
Average Age	65.5	N/A	65.5
Average Service	8.1	N/A	8.1
Average annual benefit, with augmentation to Normal Retirement Date and 30% CSA load	\$22,511	N/A	\$22,511
Average refund value, with 30% CSA load	\$195,870	N/A	\$195,870

## Development of Costs

### Actuarial Valuation Balance Sheet

The actuarial balance sheet is based on the principle that the long-term projected benefit obligations of the plan should ideally be equal to the long-term resources available to fund those benefits. Because this plan is funded on a pay-as-you-go basis, the present value of future member and employer contributions is zero, and the present value of benefits is not equal to the assets on hand, as shown in the exhibit below.

				June 30, 2011
A. Actuarial Value of Assets				\$ 0
B. Expected future assets				
1. Present value of expected future statutory supplemental contributions				\$ 0
2. Present value of future normal cost contributions				0
3. Total present value of future contributions (1. + 2.)				\$ 0
C. Total current and expected future assets (A. + B.3.)				\$ 0
D. Current benefit obligations	<u>Non-Vested</u>	<u>Vested</u>		<u>Total</u>
1. Benefit recipients				
a. Service retirements	\$ 0	\$ 2,475,641	\$	2,475,641
b. Disability	0	0		0
c. Survivors	0	905,738		905,738
2. Deferred retirements with augmentation	0	311,263		311,263
3. Former members without vested rights	0	0		0
4. Active members	0	0		0
5. Total Current Benefit Obligations	\$ 0	\$ 3,692,642	\$	3,692,642
E. Expected Future Benefit Obligations				\$ 0
F. Total Current and Expected Future Benefit Obligations				\$ 3,692,642
G. Unfunded Current Benefit Obligations (D.5. – A.)				\$ 3,692,642
H. Unfunded Current and Future Benefit Obligations (F. – C.)				\$ 3,692,642

## Development of Costs

### Determination of Unfunded Actuarial Accrued Liability and Supplemental Contribution Amount

	Actuarial Present Value of Projected Benefits	Actuarial Present Value of Future Normal Costs	Actuarial Accrued Liability
<b>A. Determination of Actuarial Accrued Liability (AAL)</b>			
1. Active members	\$ 0	\$ 0	\$ 0
2. Deferred retirements with future augmentation	311,263	0	311,263
3. Former members without vested rights	0	0	0
4. Benefit recipients	3,381,379	0	3,381,379
5. Total	\$ 3,692,642	\$ 0	\$ 3,692,642*
<b>B. Determination of Unfunded Actuarial Accrued Liability (UAAL)</b>			
1. Actuarial accrued liability			\$ 3,692,642
2. Current assets (AVA)			0
3. Unfunded actuarial accrued liability			\$ 3,692,642
<b>C. Determination of Supplemental Contribution Amount</b>			
1. Current unfunded actuarial accrued liability to be amortized by July 1, 2017			\$ 3,692,642
2. Supplemental contribution amount			\$ 747,401**

\* Actuarial accrued liability, Unfunded actuarial accrued liability, and Supplemental contribution amount under the alternate assumptions are \$7,610,176, \$7,610,176, and \$1,268,363, respectively.

\*\* The amortization factor as of July 1, 2011 is 4.9406.

## Development of Costs

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

	Year Ending June 30, 2011
A. Unfunded actuarial accrued liability at beginning of year	\$ 3,568,187
B. Changes due to interest requirements and current rate of funding	
1. Normal cost and actual administrative expenses	\$ 642
2. Contributions	(460,335)
3. Interest on A., B.1. and B.2.	283,759
4. Total (B.1. + B.2. + B.3.)	\$ (175,934)
C. Expected unfunded actuarial accrued liability at end of year (A. + B.4.)	\$ 3,392,253
D. Increase (decrease) due to actuarial losses (gains) because of experience deviations from expected	
1. Salary increases	\$ 0
2. Investment return	0
3. Mortality of benefit recipients	90,980
4. Restatement of plan assets	214,002
5. Other items	(4,593)
6. Total	\$ 300,389
E. Unfunded actuarial accrued liability at end of year before plan amendments and changes in actuarial assumptions (C. + D.5.)	\$ 3,692,642
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 methods	\$ 0
I. Unfunded actuarial accrued liability at end of year (E. + F. + G. + H.)	\$ 3,692,642

## Development of Costs

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

The annual required contribution (ARC) is the sum of normal cost, a supplemental contributions to amortize the Unfunded Actuarial Accrued Liability, and an allowance for expenses.

	<b>Dollar Amount</b>
<hr/>	
A. Statutory contributions – Chapter 352C	
1. Employee contributions	\$ 0
2. Employer contributions	0
3. Total	<u>\$ 0</u>
B. Required contributions – Chapter 356	
1. Normal cost	\$ 0
2. Supplemental contribution amortization by July 1, 2017 of Unfunded Actuarial Accrued Liability	\$ 747,401
3. Allowance for expenses	\$ 1,000
4. Total**	<u>\$ 748,401</u>
C. Contribution Sufficiency/(Deficiency) (A.3. – B.4.)	\$ (748,401)

\* Plan is funded by annual appropriations from the state's General Fund. Estimated benefit payments of \$490,000 are expected to be paid during the upcoming fiscal year.

\*\* Required contribution under the alternate assumptions is \$1,269,363.

## Actuarial Basis

### Actuarial cost method

Actuarial Accrued Liability and required contributions in this report are computed using the Individual Entry Age Normal Cost Method. This method is prescribed by Minnesota Statutes.

The objective under this method is to fund each member's benefits under the Plan as payments which are level as a percentage of salary, starting at original participation date (or employment date), and continuing until the assumed date of retirement termination, disability or death. For valuation purposes, entry age for each member is determined as the age at valuation minus years of service as of the valuation date.

At any given date, a liability is calculated equal to the contributions which would have been accumulated if this method of funding had always been used, the current plan provisions had always been in place, and all assumptions had been precisely accurate. The difference between this liability and the assets (if any) which are held in the fund is the unfunded liability. The unfunded liability is typically funded over a chosen period in accordance with the amortization schedule.

A detailed description of the calculation follows:

The normal cost for each active member under the assumed retirement age is determined by applying to earnings the level percentage of salary which, if contributed each year from date of entry into the Plan until the assumed retirement (termination, disability or death) date, is sufficient to provide the full value of the benefits expected to be payable.

- The present value of future normal costs is the total of the discounted values of all active members' normal cost, assuming these to be paid in each case from the valuation date until retirement (termination, disability or death) date. The discount rate assumptions used in this calculation are 8.5% pre-retirement and 6.5% post-retirement, as described in the *Summary of Actuarial Assumptions*.
- The present value of projected benefits is calculated as the value of all benefit payments expected to be paid to the Plan's current members, including active and retired members, beneficiaries, and terminated members with vested rights.
- The accrued liability is the excess of the present value of projected benefits over the present value of future normal costs.
- The unfunded liability is the excess of the accrued liability over the assets of the fund, and represents that part of the accrued liability which has not been funded by accumulated past contributions.
- Since this is a closed plan with no active members, normal cost and present value of future normal costs is \$0.

### Decrement timing

All decrements are assumed to occur on the anniversary of the valuation date, beginning on the valuation date. Decrement timing is a fundamental part of the computer programming underlying actuarial calculations. Mercer's valuation systems use beginning of year decrements, a generally accepted actuarial practice. The LCPR approved this modification to the Standards for Actuarial Work prior to the preparation of this report in order to ensure consistency and comparability.

## Actuarial Basis

### Payment on the unfunded actuarial accrued liability

A level dollar amount each year to the statutory amortization date of July 1, 2017. If there is a negative Unfunded Actuarial Accrued Liability, the surplus amount shall be amortized over 30 years.

### Asset valuation method

Market Value.

### Funding objective

This plan is currently funded on a pay-as-you-go basis by annual appropriations from the state's General Fund approximately equal to the amount of annual benefit payments and the fund's share of MSRS' annual administrative expenses.

### Changes in actuarial methods since prior valuation

None.

## Actuarial Basis

### Summary of actuarial assumptions

The following assumptions were used in valuing the liabilities and benefits under the plan. Certain actuarial assumptions, including discount rates, mortality tables and others identified in this report, are prescribed by Minnesota Statutes, the LCPR, or the Board of Directors. These parties are responsible for selecting the assumptions used for this valuation.

The *Investment Return* assumption is defined in Minnesota Statute. The current contribution and investment policy of this plan does not support an investment return assumption of 8.5%. For contribution calculations, a significantly lower discount rate, perhaps even 0%, would be more consistent with the recent experience of the plan and lack of any expected future investment earnings due to the current pay-as-you-go contribution policy.

The *Allowance for Combined Service Annuity* was 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.

The *Mortality Rates* that are prescribed by the LCPR are based on a table that is almost 30 years old. Mortality rates have improved since this table was adopted for use by the plan and are generally expected to continue to improve. Using this table as is does not comply with the guidance in Actuarial Standards of Practice Number 35 (ASOP 35), which requires an explicit assumption about mortality improvement, and if no mortality improvement is assumed after the valuation date, an explanation as to why. To the extent the rates in this table are too high, i.e. mortality has improved or will in the future, this report understates the plan's liabilities and required contributions.

In the event of a conflict between the Standards for Actuarial Work established by the LCPR and ASOP 35, the Standards require that the actuary for the Fund and the Commission's actuary review the situation to determine the approach to completing the valuations. We discussed this issue with Milliman, acting in their capacity as the Commission's actuary, and their preferred approach, as followed herein, is to use the prescribed mortality for 2011 valuations with commentary, and update the mortality assumption in 2012. A review of valuation assumptions has been authorized by MSRS and is scheduled to occur in 2012.

<i>Investment return:</i>	6.50% compounded annually post-retirement. 8.50% compounded annually pre-retirement.
<i>Benefit increases after retirement</i>	Payment of 2.0% annual benefit increases after retirement accounted for by using a 6.50% post-retirement assumption, as required by statute.
<i>Mortality</i>	
<i>Healthy Pre-retirement</i>	1983 Group Annuity Mortality for males set back four years. 1983 Group Annuity Mortality for females set back two years.
<i>Healthy Post-retirement</i>	1983 Group Annuity Mortality for males. 1983 Group Annuity Mortality for females.
<i>Disabled</i>	Male: N/A Female: N/A
<i>Allowance for combined service annuity</i>	Liabilities for former members not in pay status are increased by 30% to account for the effect of some participants having eligibility for a Combined Service Annuity.
<i>Administrative expenses</i>	\$1,000 per year.
<i>Refund of contributions</i>	All employees withdrawing after eight years of service were assumed to leave their contributions on deposit and receive a deferred annuitant benefit.



## Actuarial Basis

### Summary of actuarial assumptions *(continued)*

<i>Percentage married</i>	85.00% of members are assumed to be married.				
<i>Age of spouse</i>	Females are assumed to be three years younger than males.				
<i>Eligible children</i>	Members are assumed to have two dependent children depending upon member's age. Assumed first child born at member's age 28 and second child is born at member's age 31.				
<i>Commencement of deferred benefits</i>	Members receiving deferred annuities (including current terminated deferred members) are assumed to begin receiving benefits at age 62.				
<i>Form of payment</i>	Members are assumed to elect a life annuity.				
<i>Alternate assumptions</i>	<p>For GASB purposes, MSRS has directed us to use an alternate assumption set, as follows:</p> <p>Discount rate:</p> <table data-bbox="535 808 1047 871"> <tr> <td>Pre-retirement</td> <td>0.00%</td> </tr> <tr> <td>Post-retirement</td> <td>0.00%</td> </tr> </table> <p>Post-retirement benefit increases: 2.00%</p> <p>Mortality: RP 2000 generational mortality, white collar                      Pre-retirement: non-annuitant table, males set forward three years, females set back one year                      Post-retirement: annuitant table with no set backs</p> <p>All other assumptions not noted above are the same under the Alternate assumptions as the Prescribed assumptions.</p>	Pre-retirement	0.00%	Post-retirement	0.00%
Pre-retirement	0.00%				
Post-retirement	0.00%				
<i>Changes in actuarial assumptions</i>	None.				

## Actuarial Basis

### 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. Moreover, these plan provisions may be susceptible to different interpretations, each of which could be reasonable, and that the different interpretations could lead to different valuation results.

<i>Plan year</i>	July 1 through June 30
<i>Eligibility</i>	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.
<i>Contributions</i>	Plan is funded by annual appropriations from the state's General Fund.
<i>Allowable service</i>	Service while in an eligible position as a constitution officer.
<i>Salary</i>	Salary upon which Elective State Officers Retirement Fund contributions have been made.
<i>Average salary</i>	Average of the five highest consecutive years of salary.
<b>Retirement</b>	
<u><i>Normal retirement benefit</i></u>	
<i>Age/service requirements</i>	Age 62 and eight years of Allowable Service.
<i>Amount</i>	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%.
<u><i>Early retirement benefit</i></u>	
<i>Age/Service requirements</i>	Age 60 and eight years of Allowable Service.
<i>Form of payment</i>	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.
<i>Form of payment</i>	Life annuity.
<i>Benefit increases</i>	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 18 full months as of December 31 will receive a full increase. Members receiving benefits for at least six full months but less than 18 full months will receive a pro rata increase.
<b><i>Disability</i></b>	No additional benefits provided beyond standard plan. Treated as retirement or termination, depending on age and Allowable Service as of disablement.

## Actuarial Basis

### Summary of plan provisions (*continued*)

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#### **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.

##### 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 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.

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#### **Termination**

##### Refund of contributions

*Age/service requirement*

Termination of service.

*Amount*

Member's contributions with 6.00% interest compounded daily to July 1, 2011 and 4.00% compounded daily thereafter. If a member is vested, a deferred annuity may be elected in lieu of a refund.

##### Deferred benefit

*Age/service requirement*

Eight years of Allowable Service.

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## Actuarial Basis

### Summary of plan provisions *(continued)*

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**Termination** *(continued)*

Deferred benefit

*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; and
- (e) 2.00% from January 1, 2012 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%.

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**Combined Service Annuity**

Members are eligible for combined service benefits if they:

- (a.) Has 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
- (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.

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**Changes in plan provisions**

None.

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## Plan Accounting Under GASB 25 (as amended by GASB 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>

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 $\frac{(b) - (a)}{(c)}$
07/01/1991	\$ 308,000	\$ 2,249,000	\$ 1,941,000	13.69%	\$ 422,000	459.95%
07/01/1992	334,000	2,380,000	2,046,000	14.03%	378,000	541.27%
07/01/1993	322,000	2,689,000	2,367,000	11.97%	500,000	473.40%
07/01/1994	361,000	2,848,000	2,487,000	12.68%	411,000	605.11%
07/01/1995	378,000	2,948,000	2,570,000	12.82%	422,000	609.00%
07/01/1996	412,000	2,983,000	2,571,000	13.81%	456,000	563.82%
07/01/1997	456,000	3,214,000	2,758,000	14.19%	467,000	590.58%
07/01/1998	500,000	3,369,000	2,869,000	14.84%	461,000	622.34%
07/01/1999	198,000	3,373,000	3,175,000	5.87%	291,000	1,091.07%
07/01/2000	199,000	3,535,000	3,336,000	5.63%	0	N/A
07/01/2001	201,000	3,775,000	3,574,000	5.32%	0	N/A
07/01/2002	201,000	4,075,000	3,874,000	4.93%	0	N/A
07/01/2003 <sup>2</sup>	--	--	--	--	--	--
07/01/2004	203,566	4,001,787	3,798,221	5.09%	0	N/A
07/01/2005	204,297	4,065,308	3,861,011	5.03%	0	N/A
07/01/2006	207,099	3,969,766	3,762,667	5.22%	0	N/A
07/01/2007	211,540	3,969,250	3,757,710	5.33%	0	N/A
07/01/2008	212,336	3,907,991	3,695,655	5.43%	0	N/A
07/01/2009	213,165	3,885,951	3,672,786	5.49%	0	N/A
07/01/2010	214,002	3,782,189	3,568,187	5.66%	0	N/A
07/01/2011 <sup>3</sup>	0	7,610,176	7,610,176	0.00%	0	N/A

<sup>1</sup> Information prior to 2008 provided by The Segal Company.

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

<sup>3</sup> Based on alternate assumptions.

## Plan Accounting Under GASB 25 (as amended by GASB 50)

### Schedule of Contributions from the Employer and Other Contributing Entities<sup>1</sup>

The GASB Statement No. 25 (as amended by GASB 50) required and actual contributions are as follows:

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 <sup>4</sup> (e)	Percentage Contributed (e) / (d)
1991	34.84%	\$ 422,000	\$ 38,000	\$ 109,000	\$ 40,000	36.70%
1992	33.28%	378,000	34,000	92,000	111,000	120.65%
1993	36.23%	500,000	45,000	136,000	88,000	64.71%
1994	38.64%	411,000	37,000	122,000	164,000	134.43%
1995	42.00%	422,000	38,000	139,000	165,000	118.71%
1996	43.58%	456,000	41,000	158,000	151,000	95.57%
1997	43.49%	467,000	42,000	161,000	167,000	103.73%
1998	51.07%	461,000	42,000	193,000	175,000	90.67%
1999	51.66%	291,000	26,000	124,000	40,000	32.26%
2000	\$ 321,000	0	0	321,000	306,000	95.33%
2001	340,000	0	0	340,000	330,000	97.06%
2002	371,000	0	0	371,000	354,000	95.42%
2003 <sup>5</sup>	412,000	0	0	412,000	371,000	90.12%
2004 <sup>6</sup>	412,000	0	0	412,000	382,679	92.88%
2005	436,594	0	0	436,594	394,561	90.37%
2006	464,671	0	0	464,671	416,638	89.66%
2007	477,221	0	0	477,221	427,468	89.57%
2008	506,141	0	0	506,141	434,894	85.92%
2009	557,643	0	0	557,643	442,099	79.28%
2010	601,274	0	0	601,274	453,201	75.37%
2011	643,501 <sup>7</sup>	0	0	643,501	460,335	71.54%
2012 <sup>8</sup>	1,269,363	0	0	1,269,363	N/A	N/A

<sup>1</sup> Information prior to 2008 provided by The Segal Company.

<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> Includes contributions from other sources (if applicable).

<sup>5</sup> Actuarially Required Contribution Rate/Amount prior to change in Actuarial Assumptions was \$389,000.

<sup>6</sup> Actuarially Required Contribution Rate/Amount is equal to prior year's amount since an actuarial valuation was not completed as of July 1, 2003.

<sup>7</sup> The Actuarially Required Contribution Amount before changes in plan provisions was \$656,039.

<sup>8</sup> Based on alternate assumptions.

## Glossary

**Actuarial Asset Value.** The value of assets used in calculating the required contributions. The actuarial asset value may be equal to the fair market value of assets, or it may spread the recognition of certain investment gains or losses over a period of years in accordance with an asset valuation method. The goal of an asset valuation method is to produce a relatively stable asset value thereby reducing year-to-year volatility in contribution requirements.

**Actuarial Cost Method.** Sometimes called “funding method,” a particular technique used by actuaries to establish the amount and incidence of the annual actuarial cost of pension plan benefits, or normal cost, and the related unfunded actuarial accrued liability. Ordinarily, the Annual Required Contribution (ARC) calculated for plan financial reporting is established by the actuarial cost method and comprises the normal cost and an amount for amortization of the unfunded actuarial accrued liability.

**Annual Pension Cost.** A measure of the periodic cost of an employer’s participation in a defined benefit pension plan.

**Annual Required Contributions (ARC).** The employer’s recommended annual contribution to a defined benefit pension plan, calculated in accordance with the parameters of GASB 25 (as amended by GASB 50) or GASB 27. The ARC for a given fiscal reporting period is affected by the specific actuarial cost method selected by the plan sponsor.

**ASA.** Associate of the Society of Actuaries.

**Augmentation.** Annual increase on deferred benefits.

**Current Benefit Obligations.** The present value of benefits earned to the valuation date, based on current service and including future salary increases to retirement.

**EA.** Enrolled Actuary

**FSA.** Fellow of the Society of Actuaries.

**MAAA.** Member of the American Academy of Actuaries.

**Normal Cost.** The annual cost assigned to the current year, under the actuarial cost method in use.

**Present Value.** Sometimes called “actuarial present value,” the current worth (on the valuation date) of an amount or series of amounts payable or receivable in the future. The present value is determined by discounting the future payments at a predetermined rate of interest, taking into account the probability of payment.

**Statement No. 25 of the Governmental Accounting Standards Board (GASB 25).** The accounting standard governing the financial reporting for defined benefit pension plans and note disclosures for defined contribution plans.

**Statement No. 27 of the Governmental Accounting Standards Board (GASB 27).** The accounting standard governing a state or local governmental employer’s accounting for pensions.

**Statement No. 50 of the Governmental Accounting Standards Board (GASB 50).** The accounting standard amending both GASB 25 and GASB 27 to require a schedule of funding progress under the Entry Age Normal method for plans that use the aggregate funding method to determine the Annual Required Contribution.

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