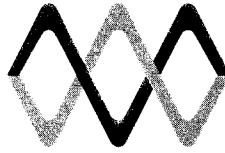


Elective State Officers Retirement Fund
ACTUARIAL VALUATION REPORT

July 1, 1999

 **FILE COPY**



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December 3, 1999

Legislative Commission on
Pensions and Retirement
55 State Office Building
St. Paul, Minnesota 55155

RE: Elective State Officers Retirement Fund

Commission Members:

Pursuant to the terms of our Actuarial Services Contract, we have performed an actuarial valuation of the Fund as of July 1, 1999.

The results of our calculations are set forth in the following report, as are the actuarial assumptions upon which our calculations have been made. We have relied on the basic employee data and asset figures as submitted by the Minnesota State Retirement System.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with the requirements of Section 356.215, Minnesota Statutes, and the requirements of the Standards for Actuarial Work, adopted by the Commission.

Respectfully submitted,

MILLIMAN & ROBERTSON, INC.

Thomas K. Custis, F.S.A., M.A.A.A.
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Elective State Officers Retirement Fund

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Elective State Officers Retirement Fund

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Elective State Officers Retirement Fund

Report Highlights

(dollars in thousands)

	07/01/98 Valuation	07/01/99 Valuation	
A. CONTRIBUTIONS (Table 11)			
1. Statutory Contributions - Chapter 352C % of Payroll	9.00%	0	*
2. Required Contributions - Chapter 356 % of Payroll	51.66%	321	*
3. Sufficiency (Deficiency): (A.1. - A.2.)	<hr/> -42.66%	<hr/> (321)	*
B. FUNDING RATIOS			
1. Accrued Benefit Funding Ratio			
a. Current Assets (Table 1)	\$500	\$198	
b. Current Benefit Obligations (Table 8)	\$3,222	\$3,373	
c. Funding Ratio: (a/b)	<hr/> 15.52%	<hr/> 5.87%	
2. Accrued Liability Funding Ratio			
a. Current Assets (Table 1)	\$500	\$198	
b. Actuarial Accrued Liability (Table 9)	\$3,369	\$3,373	
c. Funding Ratio: (a/b)	<hr/> 14.84%	<hr/> 5.87%	
3. Projected Benefit Funding Ratio (Table 8)			
a. Current and Expected Future Assets	\$653	\$198	
b. Current and Expected Future Benefit Obligations	\$3,522	\$3,373	
c. Funding Ratio: (a/b)	<hr/> 18.54%	<hr/> 5.87%	
C. PLAN PARTICIPANTS			
1. Active Members			
a. Number (Table 3)	6	0	
b. Projected Annual Earnings	\$500	\$0	
c. Average Annual Earnings (Projected \$)	\$83,302	\$0	
d. Average Age	55.0	0.0	
e. Average Service	13.3	0.0	
2. Others			
a. Service Retirements (Table 4)	5	8	
b. Survivors (Table 5)	6	5	
c. Disability Retirements (Table 6)	0	0	
d. Deferred Retirements (Table 7)	3	4	
e. Terminated Other Non-vested (Table 7)	0	0	
f. Total	<hr/> 14	<hr/> 17	

* For the July 1, 1999 valuation these amounts are in thousands of dollars.

Elective State Officers Retirement Fund

Commentary

Purpose

The purpose of this valuation is to determine the financial status of the Plan. In order to achieve this purpose, an actuarial valuation is made at the beginning of each fiscal year as required by Section 356.215 of Minnesota Statutes.

Report Highlights

The financial status of the Plan can be measured by three different funding ratios:

- The Accrued Benefit Funding Ratio is a measure of current funding status and, when viewed over a period of years, presents a view of the funding progress. It is based upon benefits which have been earned by service to the valuation date. This year's ratio is 5.87%. The corresponding ratio for the prior year was 15.52%
- The Accrued Liability Funding Ratio is also a measure of funding status and funding progress. It is based on the actuarial cost method that has historically been used by the State. For 1999 the ratio is 5.87%, which is a decrease from the 1998 value of 14.84%.
- The Projected Benefit Funding Ratio is a measure of the adequacy or deficiency in the contribution level. This year's ratio of 5.87% shows that the current statutory contributions are inadequate.

Asset Information (Tables 1 and 2)

Minnesota Statutes require that the asset value used for actuarial purposes recognize only a third of the unrealized gains and losses. This requirement exists because market values (which include all unrealized gain and losses) are typically volatile and can produce erratic changes in the contribution requirements from year to year.

The calculation of the Actuarial Value of Assets is shown in Table 1 on lines E1 to E6. It combines the cost value of the Assets Available for benefits and one-third of the difference between the market value and cost value of those assets.

The term "Actuarial Value of Assets" is used to indicate that the value was determined for use in this actuarial valuation. Since Minnesota Statutes refer to this value as "Current Assets", the latter phrase will be used in the remainder of this report.

This Plan participates in the Minnesota Post Retirement Investment Fund (i.e., MPRIF). After the MPRIF liability has been calculated for each participating Plan, the State Board of Investments, (i.e., SBI), will determine each Plan's portion of the excess earnings for the January benefit increase as well as the Plan's allocated market share of MPRIF.

Actuarial Balance Sheet (Table 8)

An actuarial balance sheet provides a method for evaluating current and future levels of funding.

The Current Benefit Obligation used to measure current funding levels is calculated as follows:

- For Active Members – Salary and service are projected to retirement to determine benefits for each member and the ratio of credited service to total service establishes the portion of the projected benefit to be used in calculating the current funding level.
- For Non-Active Members – The discounted value of benefits, including augmentation in cases where benefits have not commenced.

GASB Disclosure

Disclosure of the Current Benefit Obligation amounts used to be required by Statement No. 5 of the Governmental Accounting Standards Board (GASB). However, Statement No. 5 has been superceded by Statement No. 25. Tables 14 and 15 of this report are included to fulfill the requirements of Statement No. 25.

Actuarial Cost Method (Table 9)

The approach used by the State of Minnesota to determine contribution sufficiency is the Entry Age Normal Actuarial Cost Method. The primary characteristic of this method is that it allocates costs as a level percentage of payroll.

A comparison of this actuarial method (Table 9) to the actuarial balance sheet (Table 8) illustrates the two techniques for allocating liabilities of active Members to past and future. As noted in the prior section, the balance sheet allocates benefits and corresponding liabilities, on the basis of service. The method used in Table 9 allocates liabilities so that the cost each year will be a constant percentage of payroll. Both approaches, however, calculate the value of all future benefits the same way (see line F of Table 8 and line A6, column 1, of Table 9).

An Unfunded Actuarial Accrued Liability is computed under the Entry Age Normal Actuarial Cost Method by comparing the liabilities allocated to past service (Actuarial Accrued Liability) to the Current Assets. This amount, line B3, is funded over the remaining years to the amortization date by a series of payments that remain a constant percentage of payroll each year.

The payments will increase 5.00% each year because that is the assumed rate of increase in payroll. Although the payment schedule will be adequate to amortize the existing unfunded, the lower payments in the earlier years will not be sufficient to cover the interest

on the unfunded liability. After a few years, the annual payment will cover the interest and also repay a portion of the unfunded.

Source of Actuarial Gains and Losses (Table 10)

The assumptions used in making the calculations using the Entry Age Normal Actuarial Cost Method are based on long-term expectations. Each year the actual experience will deviate from the long-term expectations. For a detailed analysis of the major components, refer to Table 10.

Contribution Sufficiency (Table 11)

This report determines the adequacy of Statutory Contributions by comparing the Statutory Contributions to the Required Contributions.

The Required Contributions, set forth in Chapter 356, consist of:

- Normal costs based on the Entry Age Normal Actuarial Cost Method.
- A Supplemental Contribution for amortizing any Unfunded Actuarial Accrued Liability.
- An Allowance for Expenses.

Table 11 shows the Plan has a contribution deficiency since the Statutory Contribution Amount is \$0 compared to the Required Contribution Amount of \$321,000.

Changes in Actuarial Assumptions

There were no changes in actuarial assumptions since the last valuation.

Changes in Plan Provisions

There were no significant changes in plan provisions since the last valuation.

Changes in Plan Population

The remaining six active employees have either retired, terminated or elected coverage under another plan. Since this plan is closed to new entrants, there will no longer be an active payroll associated with plan costs. Accordingly, we have prepared a level dollar amortization of the remaining unfunded actuarial liability.

TABLE 1

Elective State Officers Retirement Fund

Statement of Plan Net Assets*(dollars in thousands)*

JULY 1, 1999

	<u>Market Value</u>	<u>Cost Value</u>
A. ASSETS IN TRUST		
1. Cash, Equivalents, Short-term Securities	\$0	\$0
2. Fixed Income	0	0
3. Equity	0	0
4. Real Estate	0	0
5. Equity in MPRIF	0	0
6. Other	203	203
Subtotal	<u>\$203</u>	<u>\$203</u>
B. ASSETS RECEIVABLE	0	0
C. LIABILITIES	(5)	(5)
D. NET ASSETS HELD IN TRUST FOR PENSION BENEFITS		
1. MPRIF Reserves	0	0
2. Member Reserves	194	194
3. Other Non-MPRIF Reserves	4	4
4. Total Assets Available for Benefits	<u>\$198</u>	<u>\$198</u>
E. DETERMINATION OF ACTUARIAL VALUE OF ASSETS		
1. Cost Value of Assets Available for Benefits (D4)		\$198
2. Market Value (D4)	\$198	
3. Cost Value (D4)	<u>198</u>	
4. Market Over Cost: (E2-E3)	\$0	
5. One-third of Market Over Cost: (E4)/3		<u>0</u>
6. Actuarial Value of Assets (E1+E5) (Same as "Current Assets")		<u>\$198</u>

TABLE 2

Elective State Officers Retirement Fund

Statement of Change In Plan Net Assets*(dollars in thousands)*

YEAR ENDING JUNE 30, 1999

	<u>Market Value</u>	<u>Cost Value</u>
A. ASSETS AVAILABLE AT BEGINNING OF PERIOD	\$500	\$500
B. ADDITIONS		
1. Member Contributions	\$26	\$26
2. Employer Contributions	40	40
3. Contributions From Other Sources	0	0
4. MPRIF Income	0	0
5. Net Investment Income		
a. Interest and Dividends	0	0
b. Net Realized Gain (Loss)	0	0
c. Net Change in Unrealized Gain (Loss)	0	0
d. Investment Expenses	0	0
Net Subtotal	<u>0</u>	<u>0</u>
6. Other	0	0
7. Total Additions	<u>\$66</u>	<u>\$66</u>
C. OPERATING EXPENSES		
1. Service Retirements paid from MPRIF	\$0	\$0
2. Service Retirements paid from plan assets	213	213
2. Disability Benefits	0	0
3. Survivor Benefits	0	0
4. Refunds	87	87
6. Administrative Expenses	5	5
7. Other	63	63
8. Total Disbursements	<u>\$368</u>	<u>\$368</u>
D. OTHER CHANGES IN RESERVES	0	0
E. ASSETS AVAILABLE AT END OF PERIOD	<u><u>\$198</u></u>	<u><u>\$198</u></u>

ELECTIVE STATE OFFICERS RETIREMENT PLAN

ACTIVE MEMBERS AS OF JUNE 30, 1999

Age	Years of Service								ALL
	<u>≤1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	
<25	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0	0
60-64	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0
ALL	0	0	0	0	0	0	0	0	0

AVERAGE ANNUAL EARNINGS

Age	Years of Service								ALL
	<u>≤1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	
<25	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	0	0	0	0
45-49	0	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0	0
60-64	0	0	0	0	0	0	0	0	0
65+	0	0	0	0	0	0	0	0	0
ALL	0	0	0	0	0	0	0	0	0

PRIOR FISCAL YEAR EARNINGS (IN ACTUAL DOLLARS) BY YEARS OF SERVICE

Age	<u>≤1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	ALL
All	0	0	0	0	0	0	0	0	0

ELECTIVE STATE OFFICERS RETIREMENT PLAN

SERVICE RETIREMENTS AS OF JUNE 30, 1999

Age	Years Retired							ALL
	≤1	1-4	5-9	10-14	15-19	20-24	25+	
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0
60-64	1	0	0	0	0	0	0	1
65-69	2	1	3	0	0	0	0	6
70-74	0	1	0	0	0	0	0	1
75-79	0	0	0	0	0	0	0	0
80-84	0	0	0	0	0	0	0	0
85+	0	0	0	0	0	0	0	0
ALL	3	2	3	0	0	0	0	8

AVERAGE ANNUAL BENEFIT

Age	Years Retired							ALL
	≤1	1-4	5-9	10-14	15-19	20-24	25+	
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0
60-64	41,232	0	0	0	0	0	0	41,232
65-69	43,404	2,642	19,099	0	0	0	0	24,458
70-74	0	11,667	0	0	0	0	0	11,667
75-79	0	0	0	0	0	0	0	0
80-84	0	0	0	0	0	0	0	0
85+	0	0	0	0	0	0	0	0
ALL	42,680	7,155	19,099	0	0	0	0	24,956

TOTAL ANNUAL BENEFIT (ACTUAL DOLLARS) BY YEARS RETIRED

Age	≤1	1-4	5-9	10-14	15-19	20-24	25+	ALL
All	128,040	14,310	57,297	0	0	0	0	199,648

ELECTIVE STATE OFFICERS RETIREMENT PLAN

SURVIVORS AS OF JUNE 30, 1999

Age	Years Since Death							ALL
	≤1	1-4	5-9	10-14	15-19	20-24	25+	
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0
60-64	0	0	1	0	0	0	0	1
65-69	0	1	0	0	0	0	0	1
70-74	0	0	0	0	0	0	0	0
75-79	0	0	0	0	0	0	0	0
80-84	0	0	1	0	0	0	0	1
85+	0	0	1	0	0	1	0	2
ALL	0	1	3	0	0	1	0	5

AVERAGE ANNUAL BENEFIT

Age	Years Since Death							ALL
	≤1	1-4	5-9	10-14	15-19	20-24	25+	
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0
60-64	0	0	5,858	0	0	0	0	5,858
65-69	0	33,761	0	0	0	0	0	33,761
70-74	0	0	0	0	0	0	0	0
75-79	0	0	0	0	0	0	0	0
80-84	0	0	15,815	0	0	0	0	15,815
85+	0	0	29,202	0	0	7,342	0	18,272
ALL	0	33,761	16,958	0	0	7,342	0	18,396

TOTAL ANNUAL BENEFIT (ACTUAL DOLLARS) BY YEARS SINCE DEATH

Age	≤1	1-4	5-9	10-14	15-19	20-24	25+	ALL
All	0	33,761	50,874	0	0	7,342	0	91,980

ELECTIVE STATE OFFICERS RETIREMENT PLAN

DISABILITY RETIREMENTS AS OF JUNE 30, 1999

Age	Years Disabled							ALL
	<1	1-4	5-9	10-14	15-19	20-24	25+	
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0
60-64	0	0	0	0	0	0	0	0
65-69	0	0	0	0	0	0	0	0
70-74	0	0	0	0	0	0	0	0
75-79	0	0	0	0	0	0	0	0
80-84	0	0	0	0	0	0	0	0
85+	0	0	0	0	0	0	0	0
ALL	0	0	0	0	0	0	0	0

AVERAGE ANNUAL BENEFIT

Age	Years Disabled							ALL
	<1	1-4	5-9	10-14	15-19	20-24	25+	
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0	0	0
60-64	0	0	0	0	0	0	0	0
65-69	0	0	0	0	0	0	0	0
70-74	0	0	0	0	0	0	0	0
75-79	0	0	0	0	0	0	0	0
80-84	0	0	0	0	0	0	0	0
85+	0	0	0	0	0	0	0	0
ALL	0	0	0	0	0	0	0	0

TOTAL ANNUAL BENEFIT (IN THOUSANDS) BY YEARS DISABLED

Age	<1	1-4	5-9	10-14	15-19	20-24	25+	ALL
All	0	0	0	0	0	0	0	0

TABLE 7

Elective State Officers Retirement Fund

Reconciliation Of Members

	Actives	Terminated	
		Deferred Retirement	Other Non-Vested
A. ON JUNE 30, 1998	6	3	0
B. ADDITIONS	0	2	0
C. DELETIONS			
1. Service Retirement	(2)	(1)	0
2. Disability	0	0	0
3. Death	0	0	0
4. Terminated - Deferred	(2)	0	0
5. Terminated - Refund	(1)	0	0
6. Terminated - Other Non-Vested	0	0	0
7. Returned as Active	0	0	0
8. Transferred (to)/from Other Fund	(1)	0	0
D. DATA ADJUSTMENTS	0	0	0
Vested	0		
Non-Vested	0		
E. TOTAL ON JUNE 30, 1999	0	4	0

	Retirement Annuitants	Recipients	
		Disabled	Survivors
A. ON JUNE 30, 1998	5	0	6
B. ADDITIONS	3	0	0
C. DELETIONS			
1. Service Retirement	0	0	0
2. Death	0	0	(1)
3. Annuity Expired	0	0	0
4. Returned as Active	0	0	0
D. DATA ADJUSTMENTS	0	0	0
E. TOTAL ON JUNE 30, 1999	8	0	5

TABLE 8

Elective State Officers Retirement Fund

Actuarial Balance Sheet*(dollars in thousands)*

JULY 1, 1999

A.	CURRENT ASSETS (TABLE 1, E6)			\$198
B.	EXPECTED FUTURE ASSETS			
	1. Present Value of Expected Future Statutory Supplemental Contributions (See Table 11)			\$0
	2. Present Value of Future Normal Costs			0
	3. Total Expected Future Assets			<u>\$0</u>
C.	TOTAL CURRENT AND EXPECTED FUTURE ASSETS			<u>\$198</u>
D.	CURRENT BENEFIT OBLIGATIONS	<u>Non-Vested</u>	<u>Vested</u>	<u>Total</u>
	1. Benefit Recipients			
	a. Retirement Annuities		\$2,086	\$2,086
	b. Disability Benefits		0	0
	c. Surviving Spouse and Child Benefits		750	750
	2. Deferred Retirements with Future Augmentation		537	537
	3. Former Members without Vested Rights		0	0
	4. Active Members			
	a. Retirement Annuities	0	0	0
	b. Disability Benefits	0	0	0
	c. Survivor's Benefits	0	0	0
	d. Deferred Retirements	0	0	0
	e. Refund Liability Due to Death or Withdrawal	0	0	0
	5. Total Current Benefit Obligations	<u>\$0</u>	<u>\$3,373</u>	<u>\$3,373</u>
E.	EXPECTED FUTURE BENEFIT OBLIGATIONS			<u>\$0</u>
F.	TOTAL CURRENT AND EXPECTED FUTURE BENEFIT OBLIGATIONS			<u>\$3,373</u>
G.	CURRENT UNFUNDED ACTUARIAL LIABILITY (D5-A)			\$3,175
H.	CURRENT AND FUTURE UNFUNDED ACTUARIAL LIABILITY (F-C)			\$3,175

Elective State Officers Retirement Fund

**Determination Of Unfunded Actuarial Accrued Liability (UAAL)
And Supplemental Contribution Rate**
(dollars in thousands)

JULY 1, 1999

	Actuarial Present Value of Projected Benefits <u>(1)</u>	Actuarial Present Value of Future Normal Costs <u>(2)</u>	Actuarial Accrued Liability <u>(3)=(1)-(2)</u>
A. DETERMINATION OF ACTUARIAL ACCRUED LIABILITY (AAL)			
1. Active Members			
a. Retirement Annuities	\$0	\$0	\$0
b. Disability Benefits	0	0	0
c. Survivor's Benefit	0	0	0
d. Deferred Retirements	0	0	0
e. Refunds Due to Death or Withdrawal	0	0	0
f. Total	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
2. Deferred Retirements With Future Augmentation	537		537
3. Former Members Without Vested Rights	0		0
4. Annuitants in MPRIF	0		0
5. Recipients Not in MPRIF	<u>2,836</u>		<u>2,836</u>
6. Total	<u>\$3,373</u>	<u>\$0</u>	<u>\$3,373</u>
B. DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)			
1. AAL (A6)			\$3,373
2. Current Assets (Table 1, E6)			<u>198</u>
3. UAAL (B1-B2)			<u>\$3,175</u>
C. DETERMINATION OF SUPPLEMENTAL CONTRIBUTION RATE			
1. Current UAAL to be Amorzied by July 1, 2020			\$3,175
2. Supplemental Contribution Amount			\$316

Note: If non-segregated member reserves were not counted as assets, the UAAL would be \$3,378, resulting in a Supplemental Contribution Amount of 336.

Elective State Officers Retirement Fund

Changes In Unfunded Actuarial Accrued Liability (UAAL)*(dollars in thousands)*

YEAR ENDING JUNE 30, 1999

A. UAAL AT BEGINNING OF YEAR	\$2,869
B. CHANGE DUE TO INTEREST REQUIREMENTS AND CURRENT RATE OF FUNDING	
1. Normal Cost and Expenses	\$70
2. Contribution	(67)
3. Interest on A, B1 and B2	244
4. Total (B1+B2+B3)	<u>\$247</u>
C. EXPECTED UAAL AT END OF YEAR (A+B4)	\$3,116
D. INCREASE (DECREASE) DUE TO ACTUARIAL LOSSES (GAINS) BECAUSE OF EXPERIENCE DEVIATIONS FROM EXPECTED	
1. Salary Increases	\$0
2. Investment Return	30
3. MPRIF Mortality	0
4. Mortality of Other Benefit Recipients	(120)
5. Other Items	149
6. Total	<u>\$59</u>
E. UAAL AT END OF YEAR BEFORE PLAN AMENDMENTS AND CHANGES IN ACTUARIAL ASSUMPTION (C+D6)	\$3,175
F. CHANGE IN ACTUARIAL ACCRUED LIABILITY DUE TO PLAN AMENDMENTS	0
G. CHANGE IN ACTUARIAL ACCRUED LIABILITY DUE TO CHANGES IN ACTUARIAL ASSUMPTIONS	0
H. UAAL AT END OF YEAR (E+F+G)	<u><u>\$3,175</u></u>

Elective State Officers Retirement Fund

Determination Of Contribution Sufficiency
(dollars in thousands)

JULY 1, 1999

	Dollar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 352C	
1. Employee Contributions	\$0
2. Employer Contributions	0
3. Total	\$0
* Employer contributions are required to cover the portion of the benefit liabilities which are not funded by the member's accumulated contribution at the time of benefit commencement.	
B. REQUIRED CONTRIBUTIONS - CHAPTER 356	
1. Normal Cost	
a. Retirement Benefits	\$0
b. Disability benefits	0
c. Survivors	0
d. Deferred Retirement Benefits	0
e. Refunds Due to Death or Withdrawal	0
f. Total	\$0
2. Supplemental Contribution Amortization by July 1, 2020 of UAAL	316
3. Allowance for Expenses	5
4. Total	\$321
C. CONTRIBUTION SUFFICIENCY (DEFICIENCY) [A3-B4]	(\$321)

Note: Projected Annual Payroll for Fiscal Year Beginning on JULY 1, 1999 is \$0.

The deficiency amount shown above is calculated based on reported assets which include a receivable of 203 for member contributions that are held in the State's general fund. If this amount was not considered as an asset of the fund in these calculations, the deficiency would be 341.

Elective State Officers Retirement Fund

Summary of Actuarial Assumptions and Methods

Interest: **Pre-Retirement:** 8.5% per annum
 Post-Retirement: 5.0% per annum

Salary Increases: 5.0% annually

Mortality: **Pre-Retirement:**
 Male - 1983 GAM (Males -4)
 Female - 1983 GAM (Females -2)

Post-Retirement:
 Male - 1983 GAM (Males)
 Female - 1983 GAM (Females)

Post-Disability:
 Male - N/A
 Female - N/A

Retirement Age: Age 62 or if over age 62, one year from valuation date.

Separation: Rates based on years of service:

<u>Year</u>	<u>Rate</u>
1	0%
2	0
3	0
4	50
5	0
6	0
7	0
8	50

Disability: None

<i>Expenses:</i>	Prior year administration expenses expressed as percentage of prior year payroll.
<i>Return 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.
<i>Family Composition:</i>	85% of Members are assumed to be married. Female is three years younger than male. Each Member may have up to two dependent children depending on the Member's age. Assume first child born at Member's age 28 and second child born at Member's age 31.
<i>Social Security:</i>	N/A
<i>Benefit Increases After Retirement:</i>	Payment of earnings on retired reserves in excess of 5% accounted for by 5% post-retirement assumptions.
<i>Actuarial Cost Method:</i>	Entry Age Normal Actuarial Cost Method based on earnings and the date the employee entered the plan is applied to all plan benefits. Under this method, Actuarial Gains (Losses) reduce (increase) the Unfunded Actuarial Accrued Liability.
<i>Asset Valuation Method:</i>	Cost Value plus one-third Unrealized Gains or Losses.
<i>Payment on the Unfunded Actuarial Accrued Liability:</i>	A level percentage of payroll each year to the statutory amortization date assuming payroll increases of 5.0% per annum.