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HEGISLATIVE REFERENCE LIBRARY STATE OFFICE AUILPING ST. PAUL, MN 55155

December 8, 2000

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

Re:

St. Paul Teachers' Retirement Fund July 1, 2000 Actuarial Valuation Report

Commission Members:

Pursuant the terms of our actuarial services contract, we have performed an actuarial valuation of the St. Paul Teachers' Retirement Fund as of July 1, 2000.

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 St. Paul Teachers' Retirement Fund.

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 of Actuarial Work, adopted by the Commission.

Respectfully submitted,

Thomas K. Custis, F.S.A., M.A.A.A.

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Consulting Actuary

Consulting Actuary

Enclosure

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St. Paul Teachers' Retirement Fund Report Highlights

(dollars in thousands)

	July 1, 1999 Valuation			July 1, 2000 Valuation	
A. CONTRIBUTIONS % OF PAYROLL (Table 11) 1. Statutory Contributions - Chapter 354A		17 500/		17 200/	
2. Required Contributions - Chapter 356		17.52% 18.09%		17.29%	
3. Sufficiency / (Deficiency)		(0.57%)		16.57% 0.72%	
B. FUNDING RATIOS					
1. Accrued Benefit Funding Ratio					
a. Current Assets (Table 1)	\$	704,233	\$	801,823	
b. Current Benefit Obligations (Table 8)		888,491	·	946,827	
c. Funding Ratio		79.26%	-	84.69%	
2. Accrued Liability Funding Ratio					
a. Current Assets (Table 1)	\$	704,233	\$	801,823	
b. Actuarial Accrued Liability (Table 9)		938,847		998,253	
c. Funding Ratio	<u> </u>	75.01%		80.32%	
3. Projected Benefit Funding Ratio (Table 8)					
a. Current and Expected Future Assets	\$	1,058,827	\$	1,163,430	
b. Current and Expected Future Benefit Obligations		1,088,161	-	1,156,863	
c. Funding Ratio		97.30%		100.57%	
C. PLAN PARTICIPANTS					
1. Active Members					
a. Number (Table 3)		4,378		4,445	
b. Projected Annual Earnings	\$	188,717	\$	198,974	
c. Average Annual Earnings (Actual dollars)	\$	40,716	\$	42,283	
d. Average Age		42.9		43.1	
e. Average Service		10.8		10.8	
f. Additional Members on Leave of Absence*		237		283	
2. Others					
a. Service Retirements (Table 4)		1,637		1,728	
b. Disability Retirements (Table 5)		24		23	
c. Survivors (Table 6)		199		213	
d. Deferred Retirements (Table 7)		220		243	
e. Terminated Other Non-Vested (Table 7)		1,108		1,697	
f. Total		3,188		3,904	

^{*} Valued as deferred retirements, liability included with actives.

St. Paul Teachers' Retirement Fund Commentary

Purpose

The purpose of this valuation is to determine the financial status of the Plan. 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. As of July 1, 2000, the Accrued Benefit Funding Ratio is 84.69%.

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 use by the State. For 2000 the *Accrued Liability Funding Ratio* is 80.32%.

The *Projected Benefit Funding Ratio* is a measure of the adequacy or deficiency in the contribution level. This year's ratio of 100.57% shows that the current statutory contributions are sufficient in the long run.

Please see additional commentary on page 1 of this report regarding the comparable funding ratios determined as of July 1, 1999.

Asset Information (Tables 1 and 2)

Effective with the July 1, 2000 valuation of the fund, Minnesota Statutes require that the asset value used for actuarial purposes spread differences between actual return (measured on a market-value basis) and expected return on assets over a five year period. The previous method required under Minnesota Statutes recognized one third of the unrealized gains and losses. An Asset Valuation Method requirement exists because market values (which include all unrealized gains and losses) are typically volatile and can produce erratic changes in the contribution requirements from year to year. The intent of the change to the current method is to employ a more effective asset smoothing technique which is market-value based and which eliminates artificial bias related to manager style. The effective date of this requirement is July 1, 2000 with full transition to be accomplished as of July 1, 2003.

The calculation of the Actuarial Value of Assets is shown in Table 1 on lines F.1 to F.4. Actuarial Value of Assets is determined as:

Market Value of Assets at June 30, 2000, less

80% of the current year Unrecognized Asset Return at July 1, 2000 (the difference between actual net return on Market Value of Assets between 06/30/99 and 06/30/2000 and the asset return expected during that period based on the assumed interest rate employed in the July 1, 1999 Actuarial Valuation); *less*

60% of the Unrecognized Asset Return at July 1, 1999 (the difference between Market Value of Assets on 06/30/99 and the Actuarial Value of Assets used in the July 1, 1999 Actuarial Valuation).

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.

The following table presents the components of Table 1, line A.4:

Other Assets Table 1 Item A.4 (dollars in thousands)

	Market Value
Accounts Receivable	
Employer Contribution	\$ 1,485
Employee Contribution	20
State Amortization Aid	600
Interest	1,624
Dividends	30
Security Sales	2,385
Variation Margins	219
Total Accounts Receivable	\$ 6,363
Fixed Assets	26
Total Other Assets	\$ 6,389

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 level 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.

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 of 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 the 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 5.0% 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.

Sources 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 expectation. For an analysis of the major components of the Actuarial Gain or Loss 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 Fund has a current year contribution sufficiency of 0.72% since the Statutory Contribution Rate is 17.29% compared to the Required Contribution Rate of 16.57%.

Changes in Actuarial Assumption

Effective with this July 1, 2000 valuation, the following actuarial method is changed:

 Asset Valuation Method is changed to employ a more effective asset smoothing technique which is market-value based and which eliminates artificial bias related to manager style.

All other actuarial assumptions are the same as those used in the prior valuation. Table 12 contains a summary of all actuarial assumptions and methods.

Changes in Plan Provisions

No changes in plan provisions became effective during the 2000 fiscal year. Tables 13A and 13B contain summaries of current plan benefits.

St. Paul Teachers' Retirement Fund Accounting Balance Sheet

(dollars in thousands)

July 1, 2000

			Market Value
A. ASSETS		o r	49.260
 Cash, Equivalents, Short-Term Securities Investments 		\$	48,260
a. Fixed Income			210,603
b. Equity			615,897
c. Real Estate			015,657
d. Cash Overlay			_
3. Equity in Minnesota Post-Retirement Investment Fund			-
4. Other Assets*			6,389
B. TOTAL ASSETS		\$	881,149
C. AMOUNTS CURRENTLY PAYABLE		\$	7,921
D. ASSETS AVAILABLE FOR BENEFITS			
1. Member Reserves		\$	106,803
2. Employer Reserves			766,425
3. MPRIF Reserves			-
4. Non-MPRIF Reserves			-
5. Total Assets Available for Benefits			873,228
E. TOTAL AMOUNTS CURRENTLY PAYABLE AND			
ASSETS AVAILABLE FOR BENEFITS		\$	881,149
F. DETERMINATION OF ACTUARIAL VALUE OF ASSETS			
1. Market Value of Assets Available for Benefits (D.5)		\$	873,228
2. Unrecognized Asset Returns			
a. June 30, 2000 \$	15,965		
b. June 30, 1999	97,722		71 405
3. UAR Adjustment: .80 * 2(a) + .60 * 2(b)		\$	71,405 801,823
4. Actuarial Value of Assets (F.1 - F.3)		φ	001,023

^{*}See "Asset Information" in the Commentary Section of this report.

St. Paul Teachers' Retirement Fund Change In Assets Available for Benefits

(dollars in thousands)

June 30, 2000

	 Market Value
A. ASSETS AVAILABLE AT BEGINNING OF PERIOD	\$ 801,955
B. OPERATING REVENUES	
1. Member Contributions	\$ 13,184
2. Employer Contributions	19,049
3. Supplemental Contributions	3,573
4. Investment Income	14,798
5. MPRIF Income	-
6. Investment Expenses	(2,664)
7. Net Realized Gain / (Loss)	30,660
8. Other	-
9. Net Change in Unrealized Gain / (Loss)	40,813
10. Total Operating Revenue	\$ 119,413
C. OPERATING EXPENSES	
1. Service Retirements	\$ 42,701
2. Disability Benefits	753
3. Survivor Benefits	3,714
4. Refunds	525
5. Administrative Expenses	447
6. Total Operating Expenses	\$ 48,140
D. OTHER CHANGES IN RESERVES	\$ -
E. ASSETS AVAILABLE AT END OF PERIOD	\$ 873,228
F. DETERMINATION OF CURRENT YEAR UNRECOGNIZED ASSET RETURN 1. Average Balance	
(a) Assets Available at Beginning of Period	\$ 801,955
(b) Assets Available at End of Period	873,228
(c) Average Balance {[(a) + (b) - Net Investment Income] / 2} {Net Investment Income: B.4+B.5+B.6+B.7+B.8+B.9}	\$ 795,788
2. Expected Return: .085 * F.1	67,642
3. Actual Return	83,607
4. Current Year UAR: F.3 - F.2	\$ 15,965

St. Paul Teachers Retirement Fund Association Active Members as of June 30, 2000

Participant Count
VEARS OF SERVICE

YEARS OF SERVICE										
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	TOTAL	
<20	-	-	-	-	-	-	-	-	-	
20-24	69	41	-	-	-	-	-	-	110	
25-29	116	417	28	-	-	-	-	-	561	
30-34	70	308	170	11	-	-	-	-	559	
35-39	52	197	161	94	10	-	-	-	514	
40-44	63	145	120	87	62	14	-	-	491	
45-49	68	166	125	120	89	97	13	-	678	
50-54	53	111	111	91	67	112	181	97	823	
55-59	22	60	56	49	47	61	67	126	488	
60-64	18	18	16	21	20	30	23	34	180	
65+	4	13	1	6	4	8	4	1	41	
All	535	1,476	788	479	299	322	288	258	4,445	
			A	verage Ai	ınual Earı	nings				
_			Y	EARS OF	SERVICE	<u> </u>				
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>	<u>TOTAL</u>	
<20	-	-	-	-	-	-	-	-	-	
20-24	6,571	30,119	-	-	-	-	-	-	15,348	
25-29	6,827	32,146	38,315	-	-	-	-	-	27,218	
30-34	7,971	33,827	39,659	50,401	-	-	-	-	32,689	
35-39	6,816	36,389	42,337	52,798	63,317	-	-	-	38,785	
40-44	5,877	35,095	45,433	51,408	55,717	62,218	-	-	40,141	
45-49	6,587	33,715	48,052	53,444	56,810	61,832	69,902	_	44,878	
50-54	5,971	41,773	49,409	53,980	58,805	62,481	64,750	64,324	53,763	
55-59	7,586	37,970	49,710	55,833	56,850	65,976	64,674	65,990	55,961	
60-64	4,547	36,777	40,955	53,923	58,009	62,918	70,199	68,528	52,910	
65+	3,965	16,560	35,322	47,536	54,894	56,681	70,451	62,703	38,273	
All	6,648	34,353	44,478	53,171	57,309	62,833	65,479	65,685	42,284	
Total Annual Earnings (in Thousands)										
				EARS OF	SERVICI	Ε				
_	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	<u>TOTAL</u>	
	3,557	50,705	35,048	25,469	17,135	20,232	18,857	16,947	187,950	

St. Paul Teachers Retirement Fund Association Retired Members as of June 30, 2000

Participant	Count
-------------	-------

Participant Count											
YEARS OF RETIREMENT Age <1 1.4 5.9 10.14 15.19 20.24 25.20 30+ TO											
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>	<u>TOTAL</u>		
<50	-	-	-	-	-	-	-	-	-		
50-54	-	-	-	-	-	-	-	-	-		
55-59	57	86	1	-	-	-	-	-	144		
60-64	36	221	83	-	-	-	-	-	340		
65-69	10	129	210	49	2	1	-	- '	401		
70-74	-	20	96	145	53	1	2	-	317		
75-79	-	2	20	81	104	14	-	-	221		
80-84	-	1	1	16	67	50	2	-	137		
85+	-	-	-	2	7	81	54	24	168		
All	103	459	411	293	233	147	58	24	1,728		
Average Annual Annuity											
_			YEA	ARS OF R	ETIREME	NT_					
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>	<u>TOTAL</u>		
< 50	-	-	-	-	-	-	-	-	-		
50-54	-	-	-	-	-	-	-	-	-		
55-59	25,442	21,854	7,272	-	-	-	-	-	23,173		
60-64	29,840	29,769	28,037	-	-	-	-	-	29,354		
65-69	24,348	33,098	30,608	22,399	50,359	43,916	-	-	30,382		
70-74	-	28,772	36,861	26,003	21,806	22,322	53,322	-	28,925		
75-79	-	28,261	34,693	26,344	24,027	21,005	-	-	25,688		
80-84	-	39,577	57,149	24,224	21,568	22,268	13,543	-	22,408		
85+	-	-	-	18,570	23,285	15,592	20,384	19,077	17,986		
All	26,873	29,193	31,756	25,347	23,019	18,617	21,284	19,077	26,874		
					• `	housands))				
-	-1	1.4		ARS OF R			25.20	20.1	- TOTAT		
	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	15-19 5-262	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	<u>TOTAL</u>		
	2,768	13,399	13,052	7,427	5,363	2,737	1,234	458	46,438		

St. Paul Teachers Retirement Fund Association Disabled Members as of June 30, 2000

Participant	Count
-------------	-------

YEARS OF RETIREMENT									
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	TOTAL
< 50	-	2	1	-	-	-	-	_	3
50-54	-	1	2	-	-	-	-	-	3
55-59	-	7	1	-	-	1	-	_	9
60-64	-	4	3	1	-	-	-	-	8
65-69	-	-	-	-	-	-	-	-	-
70-74	-	-	-	-	-	-	-	-	-
75-79	-	-	-	-	-	-	-	-	-
80-84	-	-	-	-	-	-	-	-	_
85+	-	-	-	-	-	-	-	-	-
All	-	14	7	1	-	1	-	-	23
				erage Ann		•			
				ARS OF RI			05.00	20:	
Age	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	TOTAL
<50	-	17,411	4,149	-	-	-	-	-	12,990
50-54	-	45,757	44,632	=	-	14007	-	-	45,007
55-59	-	39,574	19,988	-	_	14,907	-	-	34,657
60-64	-	38,661	26,082	40,609	-	-	-	-	34,188
65-69	-	-	-	-	-	-	-	-	-
70-74 75-79	-	-	-	-	-	-	-	-	-
73-79 80-84	-	-	-	-	-	-	-	-	-
85+	-	-	-	-	-	-	-	-	- -
All	-	36,589	27,378	40,609	-	14,907	-	-	33,018
				nual Annı ARS OF R					
	<u><1</u>	1-4	5-9	10-14	15-19	20-24	25-29	<u>30+</u>	TOTAL
	-	512	192	41	-	15	-		759

St. Paul Teachers Retirement Fund Association Survivor Members as of June 30, 2000

YEARS OF RETIREMENT									
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	20-24	25-29	30+	TOTAL
<50		2	2	-	-	<u> 20 21</u>	<u> </u>	1	5
50-54	_	1	1	1	_	_	_		3
55-59	1	2	4	3	-	-	-	_	10
60-64	1	5	5	5	1	2	-	_	19
65-69	-	1	5	3	1	-	_	-	10
70-74	1	1	3	8	2	3	-	-	18
75-79	-	-	2	8	13	3	2	-	28
80-84	-	-	1	7	11	8	2	-	29
85+	-	-	-	6	24	38	17	6	91
All	3	12	23	41	52	54	21	7	213
				erage Ann		•			
				ARS OF R					
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>	TOTAL
<50	-	9,867	2,396	-	-	-	-	3,350	5,576
50-54	-	28,814	30,472	20,328	-	-	-	-	26,538
55-59	40,988	15,907	16,135	20,549	-	-	-	-	19,899
60-64	38,045	24,937	32,820	16,202	8,956	11,676	-	-	23,166
65-69	-	6,456	43,531	18,166	15,107	-	-	-	29,372
70-74	27,354	25,590	26,281	28,133	20,830	11,637	-	-	24,079
75-79	-	-	13,369	22,112	21,970	15,010	11,235	-	19,884
80-84 85+	-	, -	18,035	30,070	20,910	15,486	10,618	16 201	20,815
83+	-	-	-	17,180	19,686	17,053	16,191	16,391	17,551
All	35,462	19,758	26,312	22,756	20,266	16,207	15,189	14,528	19,865
7 111	33,402	17,750	20,312	22,730	20,200	10,207	13,107	14,520	17,003
			Total An	nual Annı	iity (jn Th	ousands)			
				ARS OF R	• `	,			
	<u><1</u>	1-4	5-9	10-14	15-19	20-24	25-29	30+	TOTAL
	106	237	605	933	1,054	875	319	102	4,231

St. Paul Teachers Retirement Fund Association Reconciliation of Members

			Terminated	
		Leave of	Deferred	Other
	Actives	Absence	Retirement	Non-Vested
A. ON June 30, 1999	4,378	237	220	1,108
B. ADDITIONS	649	137	69	569
C. DELETIONS				
1 Service Retirement	(98)	(5)	(6)	-
2 Disability		(1)	-	-
3 Death – Survivor	(2)	(1)	-	-
4 Death – Other	(4)	-	-	(1)
5 Terminated – Deferred	(48)	(19)	-	(1)
6 Terminated – Refund	(98)	(6)	(12)	(91)
7 Terminated - Combined Service	(336)	(3)	(20)	203
8 Terminated - Other Non-Vested	(9)	(6)	-	-
9 Leave of Absence	(130)	-	(3)	(2)
10 Returned as Active	147	(50)	(3)	(87)
D. DATA ADJUSTMENTS	(4)	-	(2)	(1)
1 Vested	3,034			
2 Non-Vested	1,411			
E. TOTAL ON June 30, 2000	4,445	283	243	1,697
		Recipients		
	Retirement			
	Annuitants	Disabled	Survivors	
A. ON June 30, 1999	1,637	24	199	
B. ADDITIONS	143	1	27	
C. DELETIONS				
1 Service Retirement	-	(2)	-	
2 Death	(52)	-	(13)	
3 Annuity Expired	-	-	-	
4 Returned as Active	=	-	-	
D. DATA ADJUSTMENTS				
E. TOTAL ON June 30, 2000	1,728	23	213	

St. Paul Teachers' Retirement Fund Actuarial Balance Sheet

(dollars in thousands)

July 1, 2000

A. CURRENT ASSETS (Table 1; Line F.6)	\$	801,823				
B. EXPECTED FUTURE ASSETS						
Present Value of Expected Future Statutory Supp	lemen	tal Contribi	ıtions	5	\$	202,997
2. Present Value of Future Normal Costs					4	158,610
3. Total Expected Future Assets						361,607
C. TOTAL CURRENT AND EXPECTED FUTURE A	\$	1,163,430				
D. CURRENT BENEFIT OBLIGATIONS	Vested		Total			
1. Benefit Recipients						
a. Retirement Annuities			\$	519,172	\$	519,172
b. Disability Benefits				7,910		7,910
c. Surviving Spouse and Child Benefits				31,257		31,257
2. Deferred Retirements				4,459		4,459
3. Former Members Without Vested Rights				2,531		2,531
4. Active Members						
a. Retirement Annuities *	\$	13,195		336,457		349,652
b. Disability Benefits		14,522		-		14,522
c. Surviving Spouse and Child Benefits		4,088		_		4,088
d. Deferred Retirements		1,793		8,501		10,294
e. Refund Liability Due to Death or Withdrawal	ı			2,942		2,942
5. Total Current Benefit Obligations	\$	33,598	\$	913,229	\$	946,827
E. EXPECTED FUTURE BENEFIT OBLIGATIONS					\$	210,036
F. TOTAL CURRENT AND EXPECTED FUTURE BENEFIT OBLIGATIONS						1,156,863
G. CURRENT UNFUNDED ACTUARIAL LIABILIT		\$	145,004			
H. CURRENT AND FUTURE UNFUNDED ACTUAL	RIAL I	LIABILITY	(F -	C)	\$	(6,567)

* Includes members on leave of absence.

St. Paul Teachers' Retirement Fund

Determination of Unfunded Actuarial Accrued Liability (UAAL) and Supplemental Contribution Rate

(dollars in thousands)

July 1, 2000

	Pre of	Actuarial esent Value Projected Benefits	Pre	setuarial sent Value f Future rmal Costs		Actuarial Accrued Liability
A. DETERMINATION OF ACTUARIAL ACCRUED LIABILITY (AAL) 1. Active Members						
a. Retirement Benefits	\$	535,247	\$	121,125	\$	414,122
b. Disability Benefits	Ψ	24,855	Ψ	10,378	Ψ	14,477
c. Surviving Spouse and Child Benefits		7,044		2,763		4,281
d. Deferred Retirements		18,303		14,146		4,157
e. Refund Liability Due to Death or Withdrawal		6,085		10,198		(4,113)
f. Total	\$	591,534	\$	158,610	\$	432,924
2. Deferred Retirements	\$	4,459			\$	4,459
3. Former Members Without Vested Rights		2,531				2,531
4. Annuitants in MPRIF		-				-
5. Annuitants Not in MPRIF		558,339				558,339
6. Total	\$	1,156,863	\$	158,610	\$	998,253
 B. DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL) 1. Actuarial Accrued Liability (A.6) 2. Current Assets (Table 1; Line F.6) 3. Unfunded Actuarial Accrued Liability (B.1 - B.2) 					\$	998,253 801,823 196,430
 C. DETERMINATION OF SUPPLEMENTAL CONTR 1. Present Value of Future Payrolls Through the Amortization Date of June 30, 2020 	JBU	JTION RATI	Ξ			2,815,926
2. Supplemental Contribution Rate (B.3 / C.1)						6.98%

St. Paul Teachers' Retirement Fund Changes in Unfunded Actuarial Accrued Liability (UAAL)

(dollars in thousands)

June 30, 2000

A. UAAL AT BEGINNING OF YEAR	\$	234,614
B. CHANGE DUE TO INTEREST REQUIREMENTS AND CURRENT RATE OF FUNDING		
1. Normal Cost and Expenses	\$	18,130
2. Contributions		(35,806)
3. Interest		19,961
4. Total	\$	2,285
C. EXPECTED UAAL AT END OF YEAR (A. + B.4)	\$	236,899
D. INCREASE / (DECREASE) DUE TO ACTUARIAL LOSSES / (GAINS) BECAUSE OF EXPERIENCE DEVIATIONS FROM EXPECTED		
1. Age and Service Retirements *	\$	-
2. Disability Retirements *		-
3. Death-in-Service Benefits *		-
4. Withdrawal *		-
5. Salary Increases		(8,419)
6. Contribution Income *		-
7. Investment Income **		30,406
8. Mortality of Annuitants		(6,497)
9. Other Items		(2,433)
10. Total	\$	13,057
E. UAAL AT END OF YEAR BEFORE PLAN AMENDMENTS AND CHANGES IN ACTUARIAL ASSUMPTIONS (C + $\rm D.10$)	\$	249,956
F. CHANGE IN UAAL DUE TO PLAN AMENDMENTS		-
G. CHANGE IN UAAL DUE TO CHANGES IN ACTUARIAL ASSUMPTIONS		(53,526)
H. UAAL AT END OF YEAR (E + F + G)	_\$	196,430

^{*} Included in Item D.9.

^{**} Includes a gross investment loss of \$2,938, plus amounts used to provide next year's cost of living adjustments to retirees totaling \$27,468

St. Paul Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2000

	Percent of		
_	Payroll	Doll	ar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
1. Employee Contributions	6.05%	\$	12,036
2. Employer Contributions	9.07%	•	18,037
3. Supplemental Contribution	210770		10,037
a. 1996 Legislation	0.75%		1,490
b. 1997 Legislation	1.42%		2,827
4. Administrative Expense Assessment	0.00%		_,=,-
5. Total	17.29%	\$	34,390
 B. REQUIRED CONTRIBUTIONS - CHAPTER 356 1. Normal Cost a. Retirement Benefits 	7 150/	Φ	14.210
	7.15%	\$	14,218
b. Disability Benefits	0.62%		1,241
c. Surviving Spouse and Child Benefits	0.15%		308
d. Deferred Retirements	0.78%		1,559
e. Refund Liability Due to Death or Withdrawal	0.65%		1,302
f. Total	9.35%	\$	18,628
2. Supplemental Contribution Amortization	6.98%		13,880
3. Allowance for Administrative Expenses	0.24%		469
4. Total	16.57%	\$	32,977
C. CONTRIBUTION SUFFICIENCY / (DEFICIENCY) (A.5 - B.4)	0.72%		1,413
Projected Annual Payroll for Fiscal Year Beginning on the Valuation D	ate:	\$	198,974

St. Paul Teachers' Retirement Fund

Summary of Actuarial Assumptions and Methods

Interest:

Pre-Retirement:

8.50% per annum

Post-Retirement:

8.50% per annum

Salary Increases:

Total reported pay for prior fiscal year increased through the salary increase assumption to current fiscal year. Graded rates are shown in

the rate table.

Mortality:

Pre-Retirement:

Male:

1983 Group Annuity Mortality Table male rates

set back 5 years.

Female:

1983 Group Annuity Mortality Table female

rates set back 3 years.

Post-Retirement:

Male:

1983 Group Annuity Mortality Table male rates

set back 3 years.

Female:

1983 Group Annuity Mortality Table female

rates set back 1 years.

Post-Disability:

Male:

1987 Railroad Retirement Board Mortality for

Disabled Annuitants

Female:

1987 Railroad Retirement Board Mortality for

Disabled Annuitants

Retirement Age:

Active Members:

Active Members are assumed to retire according to the graded rates shown in the rate table. Rates are applied beginning at the participant's

first early retirement age.

Deferred Members:

Basic Members are assumed to retire at age 60. Coordinated Members are assumed to retire at age 63. If over the assumed retirement age, one

year from valuation date.

Other Non-Vested Members:

Return of contributions is assumed to occur immediately.

Separation:

Graded rates shown in the rate table.

Disability:

Graded rates shown in the rate table.

Administrative Expenses:

Prior year administrative expenses (excluding investment expenses)

expressed as a percentage of prior year payroll.

Return of

Contributions:

All employees withdrawing after becoming eligible for a deferred benefit were assumed to take the larger of their contributions accumulated with interest or the value of their deferred benefit.

Family Composition:

85% of male Members and 60% of female Members are assumed to be married. Female is assumed to be four years younger than male.

Married members are assumed to have two children.

Social Security:

N/A

Benefit Increases

After Retirement:

2.0% per annum

Special Consideration:

Additional post retirement benefit increase is accounted for by increasing the reserve value for all service retirements, disability retirements and survivors eligible for the increase by an amount that equals the excess of the five year time weighted total rate of return over the assumed interest rate of 8.50% multiplied by the quantity of one minus the rate of contribution deficiency.

Optional Benefit Forms:

Married Members are assumed to elect the following forms of benefit:

Males:

35% elect life annuity option 15% elect 50% J&S option 50% elect 100% J&S option

Females:

80% elect life annuity option 10% elect 50% J&S option 10% elect 100% J&S option

Actuarial Cost Method:

Entry Age Normal Actuarial Cost Method with normal costs expressed as a level percentage of earnings. Under this method Actuarial Gains (Losses) reduce (increase) the Unfunded Actuarial Accrued Liability.

Asset Valuation Method:

Market Value, adjusted for amortization obligations receivable at the end of each fiscal year, less of a percentage of the Unrecognized Asset Return determined at the close of each of the four preceding fiscal years. Unrecognized Asset Return is the difference between actual net return on Market Value of Assets and the asset return expected during that fiscal year (based on the assumed interest rate employed in the July 1 Actuarial Valuation of the fiscal year). Transition rules apply between July 1, 2000 and July 1, 2003, when

the method is fully in effect.

Payment on the Unfunded Actuarial Accrued Liability:

The Unfunded Actuarial Accrued Liability is amortized as level percentage of payroll each year to the statutory amortization date

assuming payroll increases of 5.00% per annum.

Missing Data:

The submitted participant data has been reviewed for reasonableness and constancy with data submitted for prior valuations. We have not audited this data, and the results of this valuation may change based on the accuracy of the underlying data. In cases where submitted data was missing or incomplete, the following assumptions were applied:

Date of Birth: Average age of

Average age of participant group based

on prior years valuation report.

Date of Hire:

Current valuation date minus years of

service.

Years of Service:

Years of service on last year's valuation

plus one year.

Sex:

Male.

Deferred Benefit:

Calculated. Salary at termination is estimated based on termination date. Estimated salary is \$48,318 for 1999/2000 terminations and is decreased by 6.5% for each year that

actual termination precedes July 1,

2000.

Supplemental Contributions:

The St. Paul School District and the State of Minnesota are scheduled to make the following supplemental contributions to the plan:

1996 Legislation:

Supplemental contributions according to the following schedule (thousands of dollars):

<u>Year</u>	<u>State</u>	<u>School</u>
06/30/01	690	800
06/30/02	950	800
06/30/03+	1,050	800

1997 Legislation:

Annual supplemental contributions of \$2,827,000 made on October 1.

 $Separations \ Expressed \ as \ the \ Number \ of \ Occurrences \ per \ 10,000:$

	Withdrawal			Disability			
<u>Age</u>	Male	<u>Female</u>	Male	<u>Female</u>			
20	2,000	2,000	4	4			
21	2,000	2,000	4	4			
22	2,000	2,000	4	4			
23	1,800	1,800	5	5			
24	1,600	1,600	5	5			
25	1,400	1,400	5	5			
26	1,200	1,200	5	5			
27	1,000	1,000	5	5			
28	850	850	5	5			
29	750	750	5	5			
30	690	690	6	6			
31	630	630	6	6			
32	570	570	6	6			
33	530	530	6	6			
34	490	490	6	6			
35	450	450	6	6			
36	420	420	7	7			
37	400	400	7	7			
38	380	380	8	8			
39	360	360	8	8			
40	340	340	8	8			
41	320	320	9	9			
42	300	300	9	9			
43	280	280	10	10			
44	260	260	10	10			
45	240	240	11	11			
46	220	220	12	12			
47	200	200	13	13			
48	180	180	14	14			
49	160	160	16	16			
50	140	140	17	17			
51	120	120	19	19			
52	100	100	22	22			
53	80	80	26	26			
54	60	60	30	30			

Separations Expressed as the Number of Occurrences per 10,000:

	Withd	rawal	Disability			
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>		
55	50	50	36	36		
56	40	40	41	41		
57	30	30	47	47		
58	20	20	52	52		
59	10	10	58	58		
60	0	0	63	63		
61	0	0	69	69		
62	0	0	76	76		
63	0	0	84	84		
64	0	0	93	93		
65	0	0	93	93		
66	0	0	93	93		
67	0	0	93	93		
68	0	0	93	93		
69	0	0	93	93		
70	0	0	93	93		

Deaths Expressed as the Number of Occurrences per 10,000:

	Pre-Retirement Mortality		Post-Retirement Mortality		Post-Disability Mortality	
<u>Age</u>	<u>Male</u>	<u>Female</u>	Male	<u>Female</u>	<u>Male</u>	<u>Female</u>
20	2	2	2	2	071	071
20	3	2	3	2	271	271
21	3	2 2	4	2	271	271
22	3	2	4	2	271	271
23	4		4	2	272	272
24	4	2	4	2	272	272
25	4	2	4	2	272	272
26	4	2	4	3	272	272
27	4	2	4	3	272	272
28	4	3	5	3	272	272
29	4	3	5	3	272	272
30	5	3	5	3	272	272
31	5	3	5	3	272	272
32	5	3	6	4	272	272
33	5	3	6	4	272	272
34	6	4	6	4	273	273
35	6	4	7	4	273	273
36	6	4	7	5	273	273
37	7	4	8	5	273	273
38	7	5	9	5	273	273
39	8	5	9	6	273	273
40	9	5	10	6	273	273
41	9	6	10	7	273	273
42	10	6	11	7	273	273
43	10	7	12	8	274	274
44	11	7	14	8	274	274
45	12	8	15	9	274	274
46	14	8	17	10	275	275
47	15	9	19	11	276	276
48	17	10	22	12	279	279
49	19	11	25	14	283	283
50	22	12	28	15	289	289
51	25	14	31	16	298	298
52	28	15	35	18	310	310
53	31	16	39	19	327	327
54	35	18	43	21	348	348

Separations Expressed as the Number of Occurrences per 10,000:

	Pre-Retirement Mortality		Post-Retirement Mortality		Post-Disability Mortality	
Age	Male	<u>Female</u>	<u>Male</u>	<u>Female</u>	Male	<u>Female</u>
55	39	19	48	23	371	371
56	43	21	52	25	395	395
57	48	23	57	28	417	417
58	52	25	61	31	437	437
59	57	28	66	34	455	455
60	61	31	71	38	473	473
61	66	34	77	42	494	494
62	71	38	84	47	516	516
63	77	42	92	52	541	541
64	84	47	101	58	569	569
65	92	52	111	64	598	598
66	101	58	124	71	628	628
67	111	64	139	78	658	658
68	124	71	156	87	687	687
69	139	78	176	98	716	716

Retirements Expressed as the Number of Occurrences per 10,000:

Age	Basic Members Eligible for Rule of 90 Provision	Basic Members Not Eligible for Rule of 90 Provision	Coordinated Members Eligible for Rule of 90 Provision	Coordinated Members Not Eligible for Rule of 90 Provision
<55	4,000	0	4,000	0
55	4,000	1,000	4,000	500
56	4,000	1,000	4,000	500
57	4,000	1,000	4,000	500
58	4,000	1,000	4,000	500
59	4,000	1,000	4,000	500
60	4,000	1,000	4,000	500
61	4,000	1,000	4,000	500
62	4,000	4,000	4,000	2,000
63	4,000	4,000	4,000	2,000
64	4,000	4,000	4,000	2,000
65	4,000	4,000	4,000	2,000
66	5,000	5,000	4,000	4,000
67	5,000	5,000	4,000	4,000
68	5,000	5,000	4,000	4,000
69	5,000	5,000	4,000	4,000
70	5,000	5,000	4,000	4,000
70 71	8,000	8,000	8,000	8,000
72	8,000	8,000	8,000	8,000
73	8,000	8,000	8,000	8,000
73 74	8,000	8,000	8,000	8,000
74 75	8,000	8,000	8,000	8,000
73 76	8,000	8,000	8,000	8,000
76 77	8,000 8,000	8,000	8,000	8,000
77 78	8,000 8,000	8,000	8,000	8,000
78 79	8,000	8,000	8,000	8,000
80 or more	10,000	10,000	10,000	10,000

Annual Salary Increases

Age	<u>Male</u>	<u>Female</u>
<22	7.25%	7.25%
23	7.25	7.25
24	7.20	7.20
25	7.15	7.15
26	7.10	7.10
27	7.05	7.05
28	7.00	7.00
29	6.95	6.95
30	6.90	6.90
31	6.85	6.85
32	6.80	6.80
33	6.75	6.75
34	6.70	6.70
35	6.65	6.65
36	6.60	6.60
37	6.55	6.55
38	6.50	6.50
39	6.40	6.40
40	6.30	6.30
41	6.20	6.20
42	6.10	6.10
43	6.00	6.00
44	5.90	5.90
45	5.80	5.80
46	5.70	5.70
47	5.65	5.65
48	5.60	5.60
49	5.55	5.55
50	5.50	5.50
51	5.45	5.45
52	5.40	5.40
53	5.35	5.35
54	5.30	5.30
55	5.25	5.25

St. Paul Teachers Retirement Fund Association Active Members as of June 30, 2000

				_	oant Coun				
Age –	<u><1</u>	1-4	5-9	YEARS OF 10-14	15-19		25.20	20.1	ТОТАТ
<20	<u> </u>	<u>1 -4</u>	<u>3-9</u>	10-14	13-19	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	<u>TOTAL</u>
20-24	_	_	_	_	<u>-</u> -	-	-	-	-
25-29	_	_	_	_	_	-	-	-	-
30-34	_	_	_	_	_	_	-	-	-
35-39	_	_	_	<u>-</u>	_	_	_	<u>-</u> -	-
40-44	_	_	-	_	_	_	_	_	_
45-49	_	_	_	_	9	34	11	_	54
50-54	_	_	_	2	7	54	164	91	318
55-59	_	_	_	_	3	23	62	118	206
60-64	_	_	-	_	_	8	19	32	59
65+	_	-	_	- -	-	1	4	1	6
								_	· ·
All	-	-	-	2	19	120	260	242	643
				Average Ar	ınual Earı	nings			
				YEARS OF		0			
Age -	<1	1-4	5-9	10-14	15-19	20-24	25-29	30+	TOTAL
<20	_	-		_	-	-			
20-24	-	-	-	-	-	-	-	-	_
25-29	-	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-	-
35-39	-	-	_	-	-	-	-	-	-
40-44	-	-	-	-	-	-	-	-	-
45-49	-	-	-	-	44,631	61,519	70,424	-	60,518
50-54	-	-	-	23,762	48,356	63,013	64,419	64,806	63,682
55-59	-	-	-	-	61,537	66,929	64,458	65,855	65,492
60-64	-	-	-	-	-	63,711	70,326	69,228	68,833
65+	-	-	-	-	-	56,722	70,451	62,703	66,871
All	-	-	-	23,762	48,673	63,334	65,207	65,894	64,498
				Annual Ear			s)		
	<u></u>	1-4	5-9	YEARS OF 10-14	15-19	20-24	25-29	30+	<u>TOTAL</u>
	<u><1</u>	1-4	<u> </u>	10-14	13-17	<u> 20-24</u>	<u> </u>	<u>30+</u>	TOTAL

48

925

7,600

16,953

15,946

41,471

St. Paul Teachers Retirement Fund Association Retired Members as of June 30, 2000

Participant Cou	nt
ADC OF DETERMAN	יז גירו

	YEARS OF RETIREMENT								
Age -	<u><1</u>	1-4	5-9	10-14	15-19	20-24	25-29	30+	TOTAL
< 50	-	-	-	_					-
50-54	-	-	-	-	-	-	-	_	-
55-59	48	68	1	-	-	-	-	_	117
60-64	27	185	69	-	-	-	-	-	281
65-69	6	93	189	49	2	1	-	-	340
70-74	~	11	80	134	53	1	2	-	281
75-79	-	-	19	74	103	14	-	-	210
80-84	-	1	1	14	65	50	2	-	133
85+	-	-	-	2	6	80	54	24	166
All	81	358	359	273	229	146	58	24	1,528
				_	nual Ann	•			
	· · · · · · · · · · · · · · · · · · ·				ETIREME				
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>	<u>TOTAL</u>
<50	-	-	-	-	-	-	-	-	-
50-54	-	-	-	-	-	-	-	-	-
55-59	28,440	24,782	7,272	-	-	-	-	-	26,133
60-64	36,031	33,357	31,000	-	-	-	-	-	33,035
65-69	35,669	40,933	32,877	22,399	50,359	43,916	<u>-</u>	-	33,755
70-74	-	44,411	41,660	27,724	21,806	22,322	53,322	-	31,392
75-79	-	-	36,399	28,166	24,166	21,005	-	-	26,472
80-84	-	39,577	57,149	27,322	21,889	22,268	13,543	-	22,876
85+	-	-	-	18,570	26,686	15,767	20,384	19,077	18,176
All	31,506	34,053	34,656	26,800	23,269	18,733	21,284	19,077	28,964
			Total A	nnual Ann	uity (in T	housends)			
					ETIREME	•	ı		
_	<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	TOTAL
	2,552	12,191	12,442	7,316	5,329	2,735	1,234	458	44,257

St. Paul Teachers Retirement Fund Association Disabled Members as of June 30, 2000

				Participa ARS OF RI		NT			
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	20-24	25-29	30+	TOTAL
< 50	-	1	-	-	-	-	-	-	1
50-54	-	1	2	-	-	_	-	-	3
55-59	-	6	-	-	-	1	-	-	7
60-64	_	3	1	1	-	-	-	-	5
65-69	-	-	-	-	-	-	-	-	-
70-74	-	-	-	-	-	-	-	-	-
75-79	-	-	-	-	-	-	-	-	-
80-84	-	-	-	-	-	-	-	-	-
85+	-	-	-	-	-	-	-	-	-
All	-	11	3	1	-	1	-	-	16
				erage Ann		-			
	-1	1 4		ARS OF R			25.20	20.1	
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>	TOTAL
<50	-	32,806	-	-	-	-	-	-	32,806
50-54 55-59	-	45,757	44,632	-	-	14.007	-	-	45,007
55-59 60-64	-	43,821 47,807	- 52,497	- 40,609	-	14,907	-	-	39,690 47,305
65-69	-	47,807	32,497	40,009	-	-	-	-	47,303
70 - 74	-	-	-	-	-	-	-	-	-
70-74 75-79	-	-	-	-	-	-	-	-	-
80-84	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
85+	-	-	-	-	-	-	-	-	-
All	-	44,083	47,253	40,609	-	14,907	-	-	42,637

Total Annual Annuity (in Thousands) YEARS OF RETIREMENT

			I E	AKS OF K	EIIKEMI	ZIN I			_
•	<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	<u>TOTAL</u>
	_	485	142	41	-	15	-	_	682

St. Paul Teachers Retirement Fund Association Survivor Members as of June 30, 2000

Participant Count	
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			YEA	ARS OF RI	ETIREME	NT			
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	25-29	<u>30+</u>	TOTAL
< 50	-	1	-	-	-	-	-	1	2
50-54	-	1	1	1	-	-	-	-	3
55-59	-	1	4	3	-	-	-	-	8
60-64	1	4	5	5	1	2	-	-	18
65-69	-	-	5	3	1	-	-	-	9
70-74	1	1	2	8	2	3	-	-	17
75-79	-	-	1	8	13	3	2	-	27
80-84	-	-	1	7	11	8	2	-	29
85+	-	-	-	6	24	38	17	6	91
All	2	8	19	41	52	54	21	7	204
				•	ual Annui	•			
					ETIREME				
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>	<u>TOTAL</u>
<50		9,625	-	-	-	-	-	3,350	6,488
50-54	-	28,814	30,472	20,328	-	-	-	-	26,538
55-59	-	28,808	16,135	20,549	-	-	-	-	19,374
60-64	38,045	25,941	32,820	16,202	8,956	11,676	-	-	23,290
65-69	-	-	43,531	18,166	15,107	-	-	-	31,918
70-74	27,354	25,590	38,154	28,133	20,830	11,637	-	-	25,346
75-79	-	-	20,502	22,112	21,970	15,010	11,235	-	20,389
80-84	-	-	18,035	30,070	20,910	15,486	10,618	-	20,815
85+	-	-	-	17,180	19,686	17,053	16,191	16,391	17,551
All	32,699	24,575	31,137	22,756	20,266	16,207	15,189	14,528	20,276
					uity (in Th	•			
					ETIREME	ENT			_
	<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>	<u>TOTAL</u>
	65	197	592	933	1,054	875	319	102	4,136

BASIC

St. Paul Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2000

	Percent of		
	Payroll	Dolla	ar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
1. Employee Contributions	8.00%	\$	3,496
2. Employer Contributions	11.64%		5,087
3. Supplemental Contribution			- ,
a. 1996 Legislation	0.75%		328
b. 1997 Legislation	1.42%		621
4. Administrative Expense Assessment	0.00%		_
5. Total	21.81%	\$	9,532
B. REQUIRED CONTRIBUTIONS - CHAPTER 356			
1. Normal Cost			
a. Retirement Benefits	7.86%	\$	3,436
b. Disability Benefits	0.93%		407
c. Surviving Spouse and Child Benefits	0.16%		70
d. Deferred Retirements	1.09%		476
e. Refund Liability Due to Death or Withdrawal	1.53%		669
f. Total	11.57%	\$	5,058
Projected Annual Payroll for Fiscal Year Beginning on the Valuation Da	ıte:	\$	43,703

St. Paul Teachers' Retirement Fund Summary of Plan Provisions

GENERAL

Eligibility: A teacher who is employed in a public school district located in

the corporate limits of the City of St. Paul and who is not covered by the Social Security Act. Also includes employees of

the St. Paul Teachers Retirement Fund.

Contributions: Member:

8.00% of Salary.

Employer:

11.64% of Salary.

All periods of service for which salary deductions were made

and service during sabbatical leave. After June 30, 1974, St. Paul service for part-time teachers is granted on a proportional basis using actual duty days vs. the agreed number of annual duty days. Years of service credited prior to May 31, 1976 are

not recomputed.

Salary: Total compensation. Excludes lump sum payments for unused

vacation leave or unused sick leave at separation.

Average Salary: Average of the 5 highest years of Salary during the last 10 years

while making contributions or while disabled.

RETIREMENT

Normal Retirement Benefit:

Eligibility: Age 65 and 5 years of Allowable Service. Proportionate

Retirement Annuity is available at age 65 and 1 year of

Allowable Service.

Amount: 2.50% of Average Salary for each year of Allowable Service.

Early Retirement Benefit:

Eligibility: An unreduced benefit is available upon the attainment of age 60

and 25 years of Allowable Service, or Rule of 90 (Age plus

Allowable Service totals 90).

A reduced benefit is available upon the attainment of age 55 and

5 years of Allowable Service.

Amount:

The greater of:

2.00% of Average Salary for each year of Allowable Service not to exceed 40 years with reduction of 0.25% for each month the Member is under age 65 (age 60 if 25 years of Allowable Service). No reduction if age plus years of Allowable Service totals 90.

or

2.50% of Average Salary for each year of Allowable Service assuming augmentation to age 65 at 3.00% per year and actuarial reduction for each month the Member is under age 65.

Form of Payment:

Life annuity.

Benefit Increases:

Benefits are increased 2.0% annually beginning on the January 1 following fiscal year end if the Member has been receiving benefits for at least 12 months at fiscal year end. Beneficiaries are entitled to the increase the Member would have received.

In addition, if the time weighted rate of return over the last 5 years exceeds 8.5%, the Board of Trustees will increase benefits by the excess rate of return multiplied by the quantity of one minus the rate of contribution deficiency.

DISABILITY

Disability Benefit:

Eligibility:

Totally and permanently disabled before the age of 65 with 5

years of St. Paul service.

Amount:

An annuity of 75% of the annual contract salary for the last full year of service reduced by any Social Security and Workers' Compensation benefits.

Payments are recomputed as a retirement at age 65. Payments stop if disability ceases or death occurs.

Form of Payment:

Life annuity.

Benefit Increases:

Same as for retirement.

Retirement After Disability:

Eligibility:

Age 65 with continued disability.

Amount:

Normal Retirement Benefit based on Average Salary and Allowable Service as if Member had continued in his latest

position during the period of his disability.

Form of Payment:

Life annuity.

Benefit Increases:

Same as for retirement.

DEATH

Family Benefits:

Eligibility:

Active Member with 3 years of St. Paul service.

Amount:

Benefit of 15% of B.A. salary to spouse plus 25% of B.A. salary to each eligible child (maximum of 2). B.A. salary is the maximum salary payable to a teacher holding a B.A. degree.

Spouse's benefits cease upon death or when the spouse elects to receive survivor's benefits. Such election does not affect benefits paid to children but total benefits may not exceed 90% of the Member's final salary. Children's benefits cease upon

marriage or age 18 (22 if full time student).

Survivor's Benefits:

Eligibility:

Amount:

Active or retired Member with 5 years of St. Paul service. A surviving spouse must have been married to the Member for 3 years at the time of his death or retirement, whichever occurs first.

Survivor's payment of the 100% joint and survivor benefit earned by the Member to the date of his death or his retirement, whichever occurs first.

Benefit Increases:

Same as for a retired person if payments have been made over one year. The allocation is based on the years of Allowable Service of the person on whose behalf the annuity is paid and the years receiving the payment.

Refund of Contributions:

Eligibility:

Death of a Member or former Member when Family Benefits

and Survivor's Benefits are not payable.

Amount:

The excess of the Member's contributions with 6.00% interest (unless the Member was disabled) over total benefits paid.

TERMINATION

Deferred Annuity:

Eligibility:

5 years of Allowable Service.

Amount:

Benefit computed under law in effect at termination and

increased

following annual percentage:

3.00% until January 1 of the year following the

attainment of 55, and

5.00% thereafter until the annuity begins.

Amount is payable as a normal or early retirement benefit.

Refund of Contributions:

Eligibility:

Termination of teaching service.

Amount:

Member's contributions with 5.00% interest if termination occurred before May 16, 1989 and 6.00% interest if termination occurred after May 16, 1989. A deferred annuity may be elected

in lieu of a refund.

St. Paul Teachers Retirement Fund Association Active Members as of June 30, 2000

	I	Pa	rí	icij	pant	t C	ou	nt
_	4	n	~	~ T	~ -	~ ~	** ~	_

YEARS OF SERVICE											
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	TOTAL		
< 20	-	-	-	-	-	-	-	-	-		
20-24	69	41	-	-	-	-	-	-	110		
25-29	116	417	28	-	-	-	-	-	561		
30-34	70	308	170	11	-	-	-	-	559		
35-39	52	197	161	94	10	-	-	-	514		
40-44	63	145	120	87	62	14	-	-	491		
45-49	68	166	125	120	80	63	2	-	624		
50-54	53	111	111	89	60	58	17	6	505		
55-59	22	60	56	49	44	38	5	8	282		
60-64	18	18	16	21	20	22	4	2	121		
65+	4	13	1	6	4	7	-	-	35		
All	535	1,476	788	477	280	202	28	16	3,802		
Average Annual Earnings											
			Y	EARS OF	SERVICE	3					
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	TOTAL		
<20	-	-	-	-	-	-	-	-	-		
20-24	6,571	30,119	-	-	-	-	-	-	15,348		
25-29	6,827	32,146	38,315	-	-	-	-	-	27,218		
30-34	7,971	33,827	39,659	50,401	-	-	-	-	32,689		
35-39	6,816	36,389	42,337	52,798	63,317	-	-	-	38,785		
40-44	5,877	35,095	45,433	51,408	55,717	62,218	-	-	40,141		
45-49	6,587	33,715	48,052	53,444	58,181	62,001	67,033	-	43,524		
50-54	5,971	41,773	49,409	54,659	60,025	61,986	67,943	57,010	47,517		
55-59	7,586	37,970	49,710	55,833	56,530	65,399	67,355	67,971	48,999		
60-64	4,547	36,777	40,955	53,923	58,009	62,629	69,597	57,332	45,145		
65+	3,965	16,560	35,322	47,536	54,894	56,675	-	-	33,371		
All	6,648	34,353	44,478	53,294	57,895	62,535	68,009	62,531	38,527		
				nnual Ear EARS OF	• •	Thousand E	s)				
_	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	20-24	25-29	<u>30+</u>	TOTAL		
	3,557	50,705	35,048	25,421	16,211	12,632	1,904	1,000	146,479		

St. Paul Teachers Retirement Fund Association Retired Members as of June 30, 2000

Participant Count	

YEARS OF RETIREMENT											
Age -	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	20-24	<u>25-29</u>	<u>30+</u>	TOTAL		
< 50	-	-	-	-	-	-	-	-	-		
50-54	-	-	-	-	-	-	-	-	-		
55-59	9	18	-	-	-	-	-	-	27		
60-64	9	36	14	-	-	-	-	-	59		
65-69	4	36	21	-	-	-	-	-	61		
70-74	-	9	16	11	-	-	-	-	36		
75-79	-	2	1	7	1	-	-	-	11		
80-84	-	-	-	2	2	-	-	-	4		
85+	-	-	-	-	1	1	-	-	2		
Ąll	22	101	52	20	4	1	-	-	200		
Average Annual Annuity YEARS OF RETIREMENT											
A 00	<1	1-4	5-9	10-14	15-19	20-24	25-29	30+	TOTAL		
Age <50	<u>>1</u>	1-4	<u>5-9</u>	10-14	<u>13-19</u>	<u> 20-24</u>	<u> 23-29</u>	<u> </u>	TOTAL		
50-54	_	_	_	_	_	_	_	_	_		
55-59	9,453	10,790	_		_	_	_	_	10,345		
60-64	11,266	11,330	13,434	_	_	_	_	_	11,819		
65-69	7,368	12,856	10,187	_	-	_	_	_	11,577		
70-74	7,500	9,658	12,866	5,043	_	_	_	_	9,674		
75-79	_	28,261	2,295	7,081	9,729	_	_	_	10,738		
80-84	-	20,201		2,542	11,114	_	-	_	6,828		
85+	-	-	-	-	2,875	1,621	-	-	2,248		
All	9,816	11,964	11,734	5,506	8,708	1,621	-	-	10,905		
				nnual Anr ARS OF R		housands) ENT)				
•	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	20-24	25-29	<u>30+</u>	TOTAL		
	216	1,208	610	110	35	2	_	-	2,181		

St. Paul Teachers Retirement Fund Association Disabled Members as of June 30, 2000

Participant (Count
EARS OF RET	IREMENT

YEARS OF RETIREMENT										
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	<u>20-24</u>	25-29	<u>30+</u>	TOTAL	
< 50	-	1	1	-	-	-	-	-	2	
50-54	-	-	-	-	-,	-	-	-	_	
55-59	-	1	1	-	-	-	-	-	2	
60-64	-	1	2	-	-	-	-	-	3	
65-69	-	-	-	-	-	-	-	-	-	
70-74	-	-	-	-	-	-	-	-	-	
75-79	-	-	-	-	-	-	-	-	-	
80-84	-	-	-	-	-	-	-	-	-	
85+	-	-	-	-	-	-	-	-	-	
All	-	3	4	-	-	-	-	-	7	
			Av	erage An	nual Annu	ıity				

YEARS OF RETIREMENT

	TEMES OF RETREMENT											
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	TOTAL			
< 50	-	2,016	4,149	-	-	-	-	-	3,083			
50-54	-	-	-	-	-	-	-	-	-			
55-59	-	14,091	19,988	-	-	-	-	-	17,039			
60-64	-	11,225	12,875	-	-	-	-	-	12,325			
65-69	-	-	-	-	-	-	-	-	-			
70-74	-	-	-	-	-	-	-	-	-			
75-79	-	-	-	-	-	-	-	-	-			
80-84	-	-	-	-	-	-	-	-	-			
85+	-	-	-	-	-	-	-	-	-			
All	-	9,111	12,472	-	-	-	-	-	11,031			

Total Annual Annuity (in Thousands)

YEARS OF RETIREMENT

<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	<u>20-24</u>	25-29	<u>30+</u>	TOTAL
-	27	50	-	-	-	-	-	77

St. Paul Teachers Retirement Fund Association Survivor Members as of June 30, 2000

	Par	tici	pant	Cour	nt
m	ADC	$\Delta \Gamma$	DET	ים כדי	1173

YEARS OF RETIREMENT												
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	25-29	30+	TOTAL			
< 50	-	1	2	-	-	-	-	_	3			
50-54	-	-	-	-	-	-	-	-	-			
55-59	1	1	-	-	-	-	-	-	2			
60-64	-	1	-	-	-	-	-	-	1			
65-69	-	1	-	-	-	-	-	-	1			
70-74	-	-	1	-	-	-	-	-	1			
75-79	-	-	1	-	-	-	-	-	1			
80-84	-	-	-	-	-	-	-	-	-			
85+	-	-	-	-	-	-	-	-	-			
All	1	4	4	-	-	-	-	-	9			
Average Annual Annuity												
			YEA	ARS OF R	ETIREME	ENT						
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	25-29	<u>30+</u>	TOTAL			
< 50	-	10,110	2,396	-	-	-	-	-	4,967			
50-54	-	-	-	-	-	-	-	-	-			
55-59	40,988	3,005	-	-	-	-	-	-	21,996			
60-64	-	20,922	-	-	-	-	-	-	20,922			
65-69	-	6,456	-	-	-	-	_	-	6,456			
70-74	-	-	2,534	-	-	-	-	-	2,534			
75-79	-	-	6,236	-	-	-	-	-	6,236			
80-84	-	-	-	-	-	-	-	-	-			
85+	-	-	-	-	-	-	-	-	-			
All	40,988	10,123	3,391	-	-	-	-	-	10,560			
					uity (in Th ETIREME							
	<u><1</u>	1-4	5-9	10-14	15-19	20-24	25-29	<u>30+</u>	TOTAL			
	41	40	14	-	-	-	-	-	95			

COORDINATED

St. Paul Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2000

	Percent of		
<u> </u>	Payroll	Doll	lar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
1. Employee Contributions	5.50%	\$	8,540
2. Employer Contributions	8.34%		12,950
3. Supplemental Contribution			,
a. 1996 Legislation	0.75%		1,162
b. 1997 Legislation	1.42%		2,206
4. Administrative Expense Assessment	0.00%		
5. Total	16.01%	\$	24,858
B. REQUIRED CONTRIBUTIONS - CHAPTER 356 1. Normal Cost		٠	
a. Retirement Benefits	6.94%	\$	10,782
b. Disability Benefits	0.54%		834
c. Surviving Spouse and Child Benefits	0.15%		238
d. Deferred Retirements	0.70%		1,083
e. Refund Liability Due to Death or Withdrawal	0.41%		633
f. Total	8.74%	\$	13,570
Projected Annual Payroll for Fiscal Year Beginning on the Valuation D	ate:	\$	155,271

St. Paul Teachers' Retirement Fund Summary of Plan Provisions

GENERAL

Eligibility: A teacher who is employed in a public school district located in

the corporate limits of the City of St. Paul and who is covered by the Social Security Act. Also includes employees of the St. Paul

Teachers Retirement Fund.

Contributions: Member: 5.50% of Salary.

Employer: 8.34% of Salary.

All periods of service for which salary deductions were made

and service during sabbatical leave. After June 30, 1974, St. Paul service for part-time teachers is granted on a proportional basis using actual duty days vs. the agreed number of annual duty days. Years of service credited prior to May 31, 1976 are

not recomputed.

Salary: Total compensation. Excludes lump sum payments for unused

vacation leave or unused sick leave at separation.

Average Salary: Average of the 5 highest successive years of Salary. Average

Salary is based on all Allowable Service is less than 5 years

RETIREMENT

Normal Retirement Benefit:

Eligibility:

First hired before

July 1, 1989:

Age 65 and 3 years of Allowable Service. Proportionate

Retirement Annuity is available at age 65 and 1 year of

Allowable Service.

First hired after

July 1, 1989:

The greater of age 65 or the age eligible for full Social Security

retirement benefits (but not greater than age 66) and 3 years of Allowable Service. Proportionate Retirement Annuity is available at normal retirement age and 1 year of Allowable

Service.

Amount:

1.70% of Average Salary for each year of Allowable Service.

Early Retirement Benefit:

Eligibility:

Age 55 and 3 years of Allowable Service. Any age with 30 years of Allowable Service. Rule of 90: Age plus Allowable Service totals 90.

Amount:

First hired before July 1, 1989:

The greater of:

1.20% of Average Salary for each of the first 10 years of Allowable Service plus 1.70% of Average Salary for each subsequent year of Allowable Service with reduction of 0.25% for each month the Member is under age 65 (age 62 if 30 years of Allowable Service). No reduction if age plus years of Allowable Service totals 90.

or

1.70% of Average Salary for each year of Allowable Service assuming augmentation to age 65 at 3.00% per year and actuarial reduction for each month the Member is under age 65.

First hired after July 1, 1989:

1.70% of Average Salary for each year of Allowable Service assuming augmentation to Normal Retirement Age at 3.00% per year and actuarial reduction for each month the Member is under Normal Retirement Age.

Form of Payment:

Life annuity. Actuarial equivalent options are:

- Guaranteed refund,
- 15 year certain and life, and
- 50% or 100% joint and survivor with bounce back feature without additional reduction.

Benefit Increases:

Benefits are increased 2.0% annually beginning on the January 1 following fiscal year end if the Member has been receiving benefits for at least 12 months at fiscal year end. Beneficiaries are entitled to the increase the Member would have received.

In addition, if the time weighted rate of return over the last 5 years exceeds 8.5%, the Board of Trustees will increase benefits by the excess rate of return multiplied by the quantity of one minus the rate of contribution deficiency.

DISABILITY

Disability Benefit:

Eligibility: Totally and permanently disabled before normal retirement age

with 3 years of Allowable Service. Also, at least 2 of the years

of Allowable Service must have been uninterrupted.

Amount: Normal Retirement Benefit based on Allowable Service and

Average Salary at disability without reduction for

commencement before normal retirement age. Benefit is

reduced by Workers' Compensation.

Payments are recomputed as a retirement benefit at the normal retirement age. Payments stop if disability ceases or death occurs. Benefits may be reduced on resumption of partial

employment.

Form of Payment: Same as for retirement.

Benefit Increases: Same as for retirement.

Retirement After Disability:

Eligibility: Normal retirement age with continued disability.

Amount: Any optional annuity continues, otherwise the larger of the

disability benefit paid before normal retirement age or the

normal retirement benefit available at the normal retirement age,

or an actuarially equivalent optional annuity.

Benefit Increases: Same as for retirement.

DEATH

Surviving Spouse Annuity:

Eligibility: Any active Member who dies with 3 years of Allowable Service

prior to retirement or disability benefits commence.

Any former Member who dies before retirement or disability

benefits commence.

Amount: Survivor's payment of the 100% joint and survivor benefit the

Member could have elected if terminated.

Upon the death of any vested active member, the benefit is calculated using 50% of otherwise applicable early retirement reduction from the Member's age 55 to the Member's benefit commencement age.

If a former Member had attained age 55 prior to death and had earned at least 3 years of Allowable Service prior to separation of service, benefits will commence immediately reduced for early commencement from Normal Retirement Age. If a former Member had earned at least 30 years of Allowable Service prior to separation of service, benefit will commence immediately, reduced for early commencement from age 62. If a former Member dies prior to age 55, benefits are deferred to age 55.

Benefit Increases:

Same as for a retired person if payments have been made over one year. The allocation is based on the years of Allowable Service of the person on whose behalf the annuity is paid and the years receiving the payment.

Refund of Contributions:

Eligibility:

Member or former Member dies before receiving any disability or retirement benefits and Survivor's Benefits are not payable.

Amount:

Member's contributions with 5.00% interest if death occurred before May 16, 1989 and 6.00% interest if death occurred after May 16, 1989.

TERMINATION

Deferred Annuity:

Eligibility:

3 years of Allowable Service.

Amount:

Benefit computed under law in effect at termination and increased by the following annual percentage:

3.00% until January 1 of the year following the attainment of 55, and

5.00% thereafter until the annuity begins.

Amount is payable as a normal or early retirement benefit.

Refund of Contributions:

Eligibility:

Termination of teaching service.

Amount:

Member's contributions with 5.00% interest if termination occurred before May 16, 1989 and 6.00% interest if termination occurred after May 16, 1989. A deferred annuity may be elected

in lieu of a refund.

St. Paul Teachers' Retirement Fund Schedule of Funding Progress

(dollars in thousands)

July 1, 2000

					Actual	
			'		Covered	
Actuarial					Payroll	
Valuation	Actuarial Value	Actuarial	Unfunded	Funded	(Previous	UAAL as % of
Date	of Assets	Accrued Liability	AAL (UAAL)	Ratio	FY)	Covered Payroll
	(A)	(B)	(B)-(A)	(A)/(B)	(C)	((B)-(A))/(C)
07/01/91	\$ 326,357	\$ 495,740	\$ 169,383	65.83%	\$ 110,131	153.80%
07/01/92	355,998	533,865	177,867	66.68%	115,274	154.30%
07/01/93	393,168	571,059	177,891	68.85%	122,930	144.71%
07/01/94	407,275	596,441	189,166	68.28%	129,308	146.29%
07/01/95	445,733	633,070	187,337	70.41%	139,175	134.61%
07/01/96	494,931	664,072	169,141	74.53%	145,677	116.11%
07/01/97	556,406	805,066	248,660	69.11%	151,363	164.28%
07/01/98	625,053	861,584	236,531	72.55%	168,564	140.32%
07/01/99	704,233	938,847	234,614	75.01%	178,254	131.62%
07/01/00	801,823	998,253	196,430	80.32%	187,950	104.51%

St. Paul Teachers' Retirement Fund Schedule of Employer Contributions

(dollars in thousands)

July 1, 2000

	Actuarially					
Year	Required	Actual		Annual		
Ended	Contribution	Covered	Actual Member	Required	Actual Employer	Percentage
June 30	Rate	Payroll	Contributions	Contributions	Contributions*	Contributed
	(A)	(B)	(C)	[(A)*(B)]-(C)		
1991	18.86%	\$ 110,131	\$ 7,518	\$ 13,253	\$ 10,255	77.38%
1992	18.87%	115,274	7,821	13,931	10,489	75.29%
1993	19.74%	122,930	8,202	16,064	10,839	67.47%
1994	18.68%	129,308	9,100	15,055	11,736	77.96%
1995	18.63%	139,175	8,788	17,140	13,084	76.33%
1996	17.96%	145,677	9,093	17,071	15,101	88.46%
1997	16.97%	151,363	9,484	16,202	16,043	99.02%
1998	20.35%	168,564	11,057	23,246	21,702	93.36%
1999	18.82%	178,254	11,649	21,899	21,066	96.19%
2000	18.09%	187,950	13,184	20,814	22,622	108.69%

^{*}Includes contributions from other sources (if applicable)