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November 28, 2001

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

> St. Paul Teachers' Retirement Fund July 1, 2001 Actuarial Valuation Report

REGETVE (1)

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BT. PAUL, MN 55155

Commission Members:

RE:

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, 2001.

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.

We, Thomas K. Custis and Lance M. Burma, are actuaries for Milliman USA. We are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,

Milliman USA

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

Consulting Actuary

Lance M. Burma, F.S.A., M.A.A.A.

Consulting Actuary

St. Paul Teachers' Retirement Fund ACTUARIAL VALUATION REPORT

July 1, 2001

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St. Paul Teachers' Retirement Fund Report Highlights

(dollars in thousands)

		ıly 1, 2000 Valuation	uly 1, 2001 Valuation
A. CONTRIBUTIONS % OF PAYROLL (Table 11)			
1. Statutory Contributions - Chapter 354A		17.29%	17.07%
2. Required Contributions - Chapter 356		16.57%	15.81%
3. Sufficiency / (Deficiency)		0.72%	 1.26%
B. FUNDING RATIOS			
1. Accrued Benefit Funding Ratio			
a. Current Assets (Table 1)	\$	801,823	\$ 869,045
b. Current Benefit Obligations (Table 8)		946,827	 1,009,535
c. Funding Ratio		84.69%	86.08%
2. Accrued Liability Funding Ratio			
a. Current Assets (Table 1)	\$	801,823	\$ 869,045
b. Actuarial Accrued Liability (Table 9)	·	998,253	1,060,931
c. Funding Ratio		80.32%	81.91%
3. Projected Benefit Funding Ratio (Table 8)			
a. Current and Expected Future Assets	\$	1,163,430	\$ 1,247,302
b. Current and Expected Future Benefit Obligations		1,156,863	 1,226,096
c. Funding Ratio		100.57%	101.73%
C. PLAN PARTICIPANTS			
1. Active Members			
a. Number (Table 3)		4,445	4,671
b. Projected Annual Earnings	\$	198,974	\$ 214,775
c. Average Annual Earnings (Actual dollars)	\$	42,283	\$ 43,441
d. Average Age		43.1	43.1
e. Average Service		10.8	10.5
f. Additional Members on Leave of Absence*		283	253
2. Others			
a. Service Retirements (Table 4)		1,728	1,807
b. Disability Retirements (Table 5)		23	23
c. Survivors (Table 6)		213	220
d. Deferred Retirements (Table 7)		243	324
e. Terminated Other Non-Vested (Table 7)		1,697	1,671
f. Total		3,904	4,045

^{*} 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, 2001, the Accrued Benefit Funding Ratio is 86.08%.

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 2001 the Accrued Liability Funding Ratio is 81.91%.

The *Projected Benefit Funding Ratio* is a measure of the adequacy or deficiency in the contribution level. This year's ratio of 101.73% 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, 2000.

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, 2001, less

80% of the current year Unrecognized Asset Return at July 1, 2001 (the difference between actual net return on Market Value of Assets between June 30, 2000 and June 30, 2001 and the asset return expected during that period based on the assumed interest rate employed in the July 1, 2000 Actuarial Valuation); *less*

60% of the current year Unrecognized Asset Return at July 1, 2000 (the difference between actual net return on Market Value of Assets between June 30, 1999 and June 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*

30% of the Unrecognized Asset Return at July 1, 1999 (the difference between Market Value of Assets on June 30, 1999 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	\$ 1,769
Employee Contribution	22
State Amortization Aid	746
Interest	1,103
Dividends	148
Variations Margins	439
Commission Recapture	5
Securities Lending	7
Total Accounts Receivable	\$ 4,239
Fixed Assets	33
Total Other Assets	\$ 4,272

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 1.26% since the Statutory Contribution Rate is 17.07% compared to the Required Contribution Rate of 15.81%.

Changes in Actuarial Assumption

All 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

Effective with this July 1, 2001 valuation, the following plan provisions have been added or amended:

Effective January 1, 2002, the annual lump sum benefits payable to pre-1974 retirees will be paid as monthly installments.

All other plan provisions are the same as those used in the prior actuarial valuation of the Fund. Tables 13A and 13B contain summaries of current plan benefits.

St. Paul Teachers' Retirement Fund Accounting Balance Sheet

(dollars in thousands)

July 1, 2001

·		Market Value		Cost Value
A. ASSETS 1. Cash, Equivalents, Short-Term Securities 2. Investments	\$	12,717	\$	12,717
a. Fixed Income b. Equity		235,604 567,625		157,445 534,432
c. Real Estated. Alternative3. Equity in Minnesota Post-Retirement Investment Fund		- 4,957 -		4,973 -
4. Other Assets* B. TOTAL ASSETS		4,272 825,175	 \$	4,272 713,839
C. AMOUNTS CURRENTLY PAYABLE	\$		\$	950
D. ASSETS AVAILABLE FOR BENEFITS				
 Member Reserves Employer Reserves 	\$	106,786 717,439	\$	106,786 606,103
 MPRIF Reserves Non-MPRIF Reserves Total Assets Available for Benefits 		- - 824,225	<u> </u>	- - 712,889
E. TOTAL AMOUNTS CURRENTLY PAYABLE AND		024,223	<u> </u>	712,007
ASSETS AVAILABLE FOR BENEFITS	<u></u>	825,175	\$	713,839
 F. DETERMINATION OF ACTUARIAL VALUE OF ASSETS 1. Market Value of Assets Available for Benefits (D.5) 2. Unrecognized Asset Returns 	\$	824,225		
a. June 30, 2001b. June 30, 2000c. June 30, 1999	\$ (104,645) 15,965 97,722			
3. UAR Adjustment: .80 * 2(a) + .60 * 2(b) + .30 * 2(c) 4. Actuarial Value of Assets (F.1 - F.3)		(44,820) 869,045		

^{*}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, 2001

		Market Value	 Cost Value
A. ASSETS AVAILABLE AT BEGINNING OF PERIOD	\$	873,228	\$ 685,832
B. OPERATING REVENUES			
1. Member Contributions	\$	13,170	\$ 13,170
2. Employer Contributions		19,996	19,996
3. Supplemental Contributions		3,573	3,573
4. Investment Income		12,847	12,847
5. MPRIF Income		-	-
6. Investment Expenses		(2,769)	(2,769)
7. Net Realized Gain / (Loss)		34,804	34,804
8. Other		-	-
9. Net Change in Unrealized Gain / (Loss)		(76,060)	-
10. Total Operating Revenue	\$	5,561	\$ 81,621
C. OPERATING EXPENSES			
1. Service Retirements	\$	48,197	\$ 48,197
2. Disability Benefits		761	761
3. Survivor Benefits		4,367	4,367
4. Refunds		795	795
5. Administrative Expenses		444	444
6. Total Operating Expenses	\$	54,564	\$ 54,564
D. OTHER CHANGES IN RESERVES	\$	-	\$ -
E. ASSETS AVAILABLE AT END OF PERIOD	\$	824,225	\$ 712,889
F. DETERMINATION OF CURRENT YEAR UNRECOGNIZED ASSET I	RETUR	N	
1. Average Balance			
(a) Assets Available at Beginning of Period	\$	873,228	
(b) Assets Available at End of Period		824,225	
(c) Average Balance {[(a) + (b) - Net Investment Income] / 2}	\$	864,316	
{Net Investment Income: B.4+B.5+B.6+B.7+B.8+B.9}			
2. Expected Return: .085 * F.1		73,467	
3. Actual Return		(31,178)	
4. Current Year UAR: F.3 - F.2	\$	(104,645)	

St. Paul Teachers Retirement Fund ACTIVE MEMBERS AS OF JUNE 30, 2001

_	Years of Service									
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25-29</u>	<u> 30+</u>	<u>ALL</u>	
<25	100	28	0	0	0	0	0	0	128	
25-29	142	405	25	0	0	0	0	0	572	
30-34	111	313	200	7	0	0	0	0	631	
35-39	49	194	161	94	20	0	0	0	518	
40-44	76	165	136	81	63	10	0	0	531	
45-49	64	164	128	97	96	87	8	0	644	
50-54	43	162	119	98	79	129	131	96	857	
55-59	30	66	73	62	59	58	74	146	568	
60-64	8	31	18	19	18	24	20	34	172	
65+	3	20	2	5	3	11	3	3	50	
ALL	626	1,548	862	463	338	319	236	279	4,671	

AVERAGE ANNUAL EARNINGS

	Years of Service									
<u>Age</u>	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	25-29	<u>30+</u>	ALL	
<25	12,648	24,388	0	0	0	0	0	0	15,216	
25-29	17,787	30,389	39,311	0	0	0	0	0	27,651	
30-34	21,956	32,617	40,599	54,802	0	0	0	0	33,518	
35-39	22,405	35,350	45,059	52,272	60,977	0	0	0	41,203	
40-44	17,929	31,262	46,655	54,497	57,603	61,328	0	0	40,532	
45-49	18,726	28,595	49,181	54,343	57,868	65,629	71,283	0	45,481	
50-54	19,939	33,544	48,792	57,723	60,542	63,526	66,681	67,900	53,659	
55-59	15,890	28,901	52,136	59,773	59,316	67,880	67,842	68,575	56,981	
60-64	19,326	28,045	54,501	55,913	58,308	68,240	68,024	72,460	55,691	
65+	17,197	16,296	8,008	42,809	62,273	64,029	76,287	65,002	38,452	
ALL	18,254	31,293	45,947	55,339	58,943	65,194	67,437	68,778	43,014	

·		Prior	Fiscal Year	r Earnings	(In THOUS	SANDS) by	Years of Se	ervice	
<u>Age</u>	<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>	ALL
ALL	11,427	48,442	39,606	25,622	19,923	20,797	15,915	19,189	200,918

SERVICE RETIREMENTS AS OF JUNE 30, 2001

	Years Retired									
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	15-19	<u>20-24</u>	<u>25+</u>	ALL		
< 50	0	0	0	0	0	0	0	0		
50-54	0	0	0	0	0	0	0	0		
55-59	58	103	1	0	0	0	0	162		
60-64	38	225	72	0	0	0	0	335		
65-69	16	155	202	52	2	1	0	428		
70-74	1	17	134	140	53	2	2	349		
75-79	0	3	17	86	110	18	0	234		
80-84	0	0	2	15	74	49	1	141		
85+	0	0	0	0	9	62	87	158		
ALL	113	503	428	293	248	132	90	1,807		

AVERAGE ANNUAL BENEFIT

	Years Retired									
<u>Age</u>	<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+</u>	<u>ALL</u>		
<50	0	0	0	0	0	0	0	0		
50-54	0	0	0	0	0	0	0	0		
55-59	29,558	22,291	9,808	0	0	0	0	24,816		
60-64	26,554	30,357	29,403	0	0	0	0	29,720		
65-69	17,932	31,523	33,703	23,200	54,222	47,286	0	31,176		
70-74	13,524	24,309	38,838	29,409	23,605	26,391	57,413	31,997		
75-79	0	30,612	35,593	28,836	26,531	20,285	0	27,609		
80-84	0	0	52,073	27,344	24,102	22,971	32,051	24,506		
85+	0	0	0	0	20,634	17,862	19,757	19,063		
ALL	26,760	28,862	34,692	28,033	25,190	20,440	20,730	28,453		

		Total An	nual Benefi	it (IN THO	USANDS)	by Years R	ETIRED	
<u>Age</u>	<u>≤1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	<u>20-24</u>	<u>25+</u>	ALL
ALL	3,024	14,518	14,848	8,214	6,247	2,698	1,866	51,415

DISABILITY RETIREMENTS AS OF JUNE 30, 2001

_				Years D	isabled			
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	ALL
<50	0	2	1	0	0	0	0	3
50-54	0	2	2	0	0	0	0	4
55-59	0	5	3	0	0	0	0	8
60-64	0	3	3	1	0	1	0	8
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	12	9	1	0	1	0	23

AVERAGE ANNUAL BENEFIT

				Years D	isabled			
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	<u>20-24</u>	<u>25+</u>	<u>ALL</u>
< 50	0	18,747	4,467	0	0	0	0	13,987
50-54	0	25,519	48,056	0	0	0	0	36,788
55-59	0	38,881	24,699	0	0	0	0	33,562
60-64	0	50,484	28,082	43,725	0	16,096	0	36,940
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	36,199	28,769	43,725	0	16,096	0	32,744

		Total Ann	ual Benefit	t (IN THOU	USANDS) b	y Years DI	SABLED	
<u>Age</u>	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>
ALL	0	434	259	44	0	16	0	753

SURVIVORS AS OF JUNE 30, 2001

Years	Since	Death

_				I cars on	ice Death			
Age	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>
<50	0	1	3	0	0	0	1	5
50-54	0	0	2	2	1	0	0	5
55-59	0	3	3	3	1	0	0	10
60-64	1	4	6	5	1	3	0	20
65-69	0	3	6	13	5	1	0	28
70-74	0	1	2	8	19	5	2	37
75-79	0	0	1	10	18	9	2	40
80-84	0	0	0	1	7	17	9	34
85+	0	0	0	0	6	13	22	41
ALL	1	12	23	42	58	48	36	220

AVERAGE ANNUAL BENEFIT

Years Since Death

<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>
<50	0	10,885	4,928	0	0	0	3,350	5,804
50-54	0	0	31,917	19,568	16,149	0	0	23,824
55-59	0	24,061	22,677	20,740	19,300	0	0	22,173
60-64	36,521	22,280	32,756	24,225	10,218	16,058	0	25,084
65-69	0	38,409	40,986	24,751	21,545	11,440	0	28,645
70-74	0	27,354	30,143	25,291	25,857	17,107	17,611	24,379
75-79	0	0	1,236	31,674	21,114	16,842	8,789	21,679
80-84	0	0	0	24,700	11,761	18,324	13,864	15,980
85+	0	0	0	0	17,522	18,150	19,858	18,975
ALL	36,521	26,231	28,287	25,904	20,900	17,587	17,161	21,654

Total Annual Benefit (IN THOUSANDS) by Years SINCE DEATH

<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	ALL
ALL	37	315	651	1,088	1,212	844	618	4,764

St. Paul Teachers' Retirement Fund Reconciliation of Members

				Terminated	
			Leave of	Deferred	Other
		<u>Actives</u>	<u>Absence</u>	Retirement	Non-Vested
A.	ON JUNE 30, 2000	4,445	283	243	1,697
B.	ADDITIONS	706	92	130	331
C.	DELETIONS				·
	1. Service Retirement	(98)	(3)	(7)	(20)
	2. Disability	0	(1)	0	0
	3. Death - Survivor	(1)	0	0	0
	4. Death - Other	0	(1)	0	(1)
	5. Terminated - Deferred	(90)	(40)	0	0
	6. Terminated - Refund	(84)	(12)	(12)	(215)
	7. Terminated - Other Non-Vested	(403)	(18)	(1)	(1)
	8. Returned as active	192	(52)	(15)	(125)
D.	DATA ADJUSTMENTS	4	5	(14)	55_
	1. Vested	3,189	253	324	1,671
	2. Non-Vested	1,482	0	0	0
E.	TOTAL ON JUNE 30, 2001	4,671	253	324	1,671

		Recipients							
		Retirement			Other				
		Annuitants	<u>Disabled</u>	Survivors	Beneficiary				
A.	ON JUNE 30, 2000	1,728	23	213	0				
B.	ADDITIONS	129	1	24	. 0				
C.	DELETIONS								
	1. Service Retirement	0	(1)	0	0				
	2. Death	(57)	(1)	(15)	0				
	3. Annuity Expired	0	0	0	0				
	4. Returned as Active	0	0	0	0				
D.	DATA ADJUSTMENTS	7	1	(2)	0				
E.	TOTAL ON JUNE 30, 2001	1,807	23	220	0				

St. Paul Teachers' Retirement Fund Actuarial Balance Sheet

(dollars in thousands)

July 1, 2001

A. CURRENT ASSETS (Table 1; Line F.6)	\$	869,045
 B. EXPECTED FUTURE ASSETS 1. Present Value of Expected Future Statutory Supplemental Contributions 2. Present Value of Future Normal Costs 3. Total Expected Future Assets 	\$	213,092 165,165 378,257
C. TOTAL CURRENT AND EXPECTED FUTURE ASSETS	\$	1,247,302
D. CURRENT BENEFIT OBLIGATIONS Non-Vested Vested 1. Benefit Recipients		Total
a. Retirement Annuities \$ 554,7 b. Disability Benefits 7,3 c. Surviving Spouse and Child Benefits 42,4 2. Deferred Retirements 7,3	84 43 02 36 14 60 90	554,796 7,384 42,443 7,302 936 365,635 10,989 4,110 12,650 3,290 1,009,535
E. EXPECTED FUTURE BENEFIT OBLIGATIONS	_\$_	216,561
F. TOTAL CURRENT AND EXPECTED FUTURE BENEFIT OBLIGATIONS	\$	1,226,096
G. CURRENT UNFUNDED ACTUARIAL LIABILITY (D.5 - A)	\$	140,490
H. CURRENT AND FUTURE UNFUNDED ACTUARIAL LIABILITY (F - C)	\$	(21,206)

^{*} Includes members on leave of absence.

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

(dollars in thousands)

July 1, 2001

	Pro	Actuarial esent Value f Projected Benefits	Pre	Actuarial sent Value of Future rmal Costs		Actuarial Accrued Liability
A. DETERMINATION OF ACTUARIAL ACCRUED LIABILITY (AAL) 1. Active Members a. Retirement Benefits	\$	<i>557</i> 200	\$	127.020	\$	430,369
a. Retirement Benefitsb. Disability Benefitsc. Surviving Spouse and Child Benefitsd. Deferred Retirements	Ф	557,398 18,861 7,254 22,920	Ф	127,029 8,017 2,933 16,795	Ф	10,844 4,321 6,125
e. Refund Liability Due to Death or Withdrawal		6,802		10,391		(3,589)
f. Total	\$	613,235	\$	165,165	\$	448,070
2. Deferred Retirements	\$	7,302			\$	7,302
3. Former Members Without Vested Rights		936				936
4. Annuitants in MPRIF		-				-
5. Annuitants Not in MPRIF		604,623				604,623
6. Total	\$	1,226,096	\$	165,165	\$	1,060,931
B. DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)					•	1.060.021
1. Actuarial Accrued Liability (A.6)					\$	1,060,931
2. Current Assets (Table 1; Line F.6)					-\$	869,045
3. Unfunded Actuarial Accrued Liability (B.1 - B.2)	,				<u> </u>	191,886
C. DETERMINATION OF SUPPLEMENTAL CONTR	UBU	JTION RATE	3			2 022 070
Amortization Date of June 30, 2020						2,932,070
2. Supplemental Contribution Rate (B.3 / C.1)						6.54%

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

(dollars in thousands)

June 30, 2001

A. UAAL AT BEGINNING OF YEAR	\$ 196,430
B. CHANGE DUE TO INTEREST REQUIREMENTS AND CURRENT RATE OF FUNDING	
Normal Cost and Expenses	\$ 19,097
2. Contributions	(36,739)
3. Interest	16,758
4. Total	\$ (884)
C. EXPECTED UAAL AT END OF YEAR (A. + B.4)	\$ 195,546
D. INCREASE / (DECREASE) DUE TO ACTUARIAL LOSSES / (GAINS) BECAUSE OF EXPERIENCE DEVIATIONS FROM EXPECTED	
1. Age and Service Retirements *	\$ <u>.</u>
2. Disability Retirements *	-
3. Death-in-Service Benefits *	-
4. Withdrawal *	-
5. Salary Increases	(2,602)
6. Contribution Income *	-
7. Investment Income **	(8,279)
8. Mortality of Annuitants	(2,475)
9. Other Items	 9,695
10. Total	\$ (3,660)
E. UAAL AT END OF YEAR BEFORE PLAN AMENDMENTS AND CHANGES IN ACTUARIAL ASSUMPTIONS (C + D.10)	\$ 191,886
F. CHANGE IN UAAL DUE TO PLAN AMENDMENTS	-
G. CHANGE IN UAAL DUE TO CHANGES IN ACTUARIAL ASSUMPTIONS	
H. UAAL AT END OF YEAR $(E + F + G)$	\$ 191,886

^{*} Included in Item D.9.

^{**} Includes a gross investment gain of \$17,650, offset by \$9,371 used to provide next year's cost of living adjustments to retirees.

St. Paul Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2001

_	Percent of Payroll	Dol	lar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
1. Employee Contributions	5.97%	\$	12,831
2. Employer Contributions	8.97%	Ψ	19,256
3. Supplemental Contribution	0.7770		17,230
a. 1996 Legislation	0.81%		1,750
b. 1997 Legislation	1.32%		2,827
4. Administrative Expense Assessment	0.00%		2,027
5. Total	17.07%	•	36,664
3. 10tai =	17.0776	Φ	30,004
B. REQUIRED CONTRIBUTIONS - CHAPTER 356 1. Normal Cost			
a. Retirement Benefits	6.96%	\$	14,938
b. Disability Benefits	0.45%		974
c. Surviving Spouse and Child Benefits	0.15%		324
d. Deferred Retirements	0.89%		1,914
e. Refund Liability Due to Death or Withdrawal	0.60%		1,297
f. Total	9.05%	\$	19,447
2. Supplemental Contribution Amortization	6.54%		14,056
3. Allowance for Administrative Expenses	0.22%		466
4. Total	15.81%	\$	33,969
C. CONTRIBUTION SUFFICIENCY / (DEFICIENCY) (A.5 - B.4)	1.26%		2,695
Projected Annual Payroll for Fiscal Year Beginning on the Valuation	Date:	\$	214,775

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 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 \$51,459 for 2000/2001 terminations and is

decreased by 6.5% for each year that actual termination precedes July 1,

2001.

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>
06/30/02	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:

	Withd	Disability			
<u>Age</u>	<u>Male</u>	<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	lrawal	Disal	bility
<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			tirement tality	Post-Disability Mortality		
Age	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	
20	2	2	3	2	271	271	
21	3	2	4	2 2	271	271	
22	3	2	4	2	271	271	
23	4	2	4	2	271	271	
23 24	4	2	4	2	272	272	
24 25	4	2	4	2	272	272	
23 26	4	2	4	3	272	272	
26 27	4	2	4	3	272	272	
28	4	3	5	3	272	272	
20 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	272	
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	2.5	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-Disability Mortality		
Age	Male	<u>Female</u>	Male	<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
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
74	8,000	8,000	8,000	8,000
75	8,000	8,000	8,000	8,000
76	8,000	8,000	8,000	8,000
77	8,000	8,000	8,000	8,000
78	8,000	8,000	8,000	8,000
79	8,000	8,000	8,000	8,000
80 or more	10,000	10,000	10,000	10,000

Annual Salary Increases

Age	Male	<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 **ACTIVE MEMBERS AS OF JUNE 30, 2001**

<u>5-9</u>

1-4

<u><1</u>

<u>Age</u> <2.5

25-29

30-34

35-39

40-44

45-49

50-54

55-59

60-64

65+

ALL

	Ye	ars of Servi	ice			
)	<u>10-14</u>	15-19	20-24	25-29	<u>30+</u>	<u>ALL</u>
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	5	23	7	0	35
0	0	9	49	118	91	267
0	0	2	14	64	136	216

AVERAGE ANNUAL EARNINGS

	Years of Service											
<u>Age</u>	<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>ALL</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	47,978	65,031	72,256	0	64,040			
50-54	0	0	0	0	48,427	64,368	66,624	67,765	65,986			
55-59	0	0	0	0	66,728	68,413	67,450	68,526	68,183			
60-64	0	0	0	0	0	67,810	68,304	73,000	71,212			
65+	0	0	0	0	0	66,762	80,043	67,876	71,560			
ALL	0	0	0	0	50,574	65,351	67,325	68,804	67,214			

	Prior Fiscal Year Earnings (In THOUSANDS) by Years of Service												
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	<u>ALL</u>				
ALL	0	. 0	0	0	809	6,012	13,869	17,958	38,648				

SERVICE RETIREMENTS AS OF JUNE 30, 2001

_	Years Retired										
Age .	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	ALL			
< 50	0	0	0	0	0	0	0	0			
50-54	0	0	0	0	0	0	0	0			
55-59	48	85	1	0	0	0	0	134			
60-64	22	183	62	0	0	0	0	267			
65-69	6	111	180	52	2	1	0	352			
70-74	0	7	108	130	53	2	2	302			
75-79	0	2	14	79	107	18	0	220			
80-84	0	0	2	12	72	49	1	136			
85+	0	0	0	0	9	60	87	156			
ALL	76	388	367	273	243	130	90	1,567			

AVERAGE ANNUAL BENEFIT

				Years I	Retired			
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	32,210	25,181	9,808	0	0	0	0	27,584
60-64	36,771	34,272	32,300	0	0	0	0	34,020
65-69	28,669	39,052	36,533	23,200	54,222	47,286	0	35,355
70-74	0	43,747	44,981	31,215	23,605	26,391	57,413	35,234
75-79	0	39,655	39,398	30,503	27,113	20,285	0	28,668
80-84	0	0	52,073	33,288	24,460	22,971	32,051	25,164
85+	0	0	0	0	20,634	18,377	19,757	19,277
ALL	33,251	33,847	38,425	29,573	25,545	20,718	20,730	31,016

		Total An	nual Benef	it (IN THO	USANDS)	by Years R	ETIRED	
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	ALL
ALL	2,527	13,132	14,101	8,073	6,207	2,693	1,865	48,602

DISABILITY RETIREMENTS AS OF JUNE 30, 2001

_				Years D	isabled	<u> </u>		
<u>Age</u>	<u>≤1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	ALL
<50	0	1	0	0	0	0	0	. 1
50-54	0	1	2	0	0	0	0	3
55-59	0	4	1	0	0	0	0	5
60-64	0	3	1	1	0	1	0	6
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	9	4	1	0	1	0	15

AVERAGE ANNUAL BENEFIT

				Years D	isabled			
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	ALL
<50	0	35,323	0	0	0	0	0	35,323
50-54	0	49,267	48,056	0	0	0	0	48,460
55-59	0	44,809	52,575	0	0	0	0	46,362
60-64	0	50,484	56,524	43,725	0	16,096	0	44,633
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	46,142	51,303	43,725	0	16,096	0	45,354

		Total Ann	ual Benefit	(IN THO	USANDS) t	y Years DI	SABLED	<u>. 1</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+</u>	ALL
ALL	0	415	205	43	0	16	0	680

SURVIVORS AS OF JUNE 30, 2001

Vanre	Sinca	Dogth

<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>
<50	0	0	1	0	0	0	1	2
50-54	0	0	2	2	1	0	0	5
55-59	0	1	3	3	1	0	0	8
60-64	1	3	6	5	1	3	0	19
65-69	0	3	6	12	5	1	0	27
70-74	0	1	2	8	19	5	2	37
75-79	0	0	0	10	18	9	2	39
80-84	0	0	0	1	7	17	9	34
85+	0	0	0	0	6	13	22	41
ALL	1	8	20	41	58	48	36	212

AVERAGE ANNUAL BENEFIT

Years Since Death

<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>
< 50	0	0	9,625	0	0	0	3,350	6,488
50-54	0	0	31,917	19,568	16,149	0	0	23,824
55-59	0	27,960	22,677	20,740	19,300	0	0	22,189
60-64	36,521	22,198	32,756	24,225	10,218	16,058	0	25,219
65-69	0	38,409	40,986	26,255	21,545	11,440	0	29,458
70-74	0	27,354	30,143	25,291	25,857	17,107	17,611	24,379
75-79	0	0	0	31,674	21,114	16,842	8,789	22,204
80-84	0	0	0	24,700	11,761	18,324	13,864	15,980
85+	0	0	0	0	17,522	18,150	19,858	18,975
ALL	36,521	29,642	32,211	26,373	20,900	17,587	17,161	22,044

Total Annual Benefit (IN THOUSANDS) by Years SINCE DEATH

<u>Age</u>	<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+</u>	ALL
ALL	36	237	644	1,081	1,212	844	617	4,673

BASIC

St. Paul Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2001

	Percent of		
	Payroll	Dolla	ar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
1. Employee Contributions	8.00%	\$	3,258
2. Employer Contributions	11.64%		4,740
3. Supplemental Contribution			
a. 1996 Legislation	0.81%		330
b. 1997 Legislation	1.32%		538
4. Administrative Expense Assessment	0.00%		_
5. Total	21.77%	\$	8,866
			
B. REQUIRED CONTRIBUTIONS - CHAPTER 356			
1. Normal Cost			
a. Retirement Benefits	7.79%	\$	3,173
b. Disability Benefits	0.78%		319
c. Surviving Spouse and Child Benefits	0.15%		63
d. Deferred Retirements	1.49%		605
e. Refund Liability Due to Death or Withdrawal	1.48%		601
f. Total	11.69%	\$	4,761
Projected Annual Payroll for Fiscal Year Beginning on the Valuation I	Date:	\$	40,724

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: 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.

Amount: 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 ACTIVE MEMBERS AS OF JUNE 30, 2001

_	Years of Service											
Age .	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25-29</u>	<u>30+</u>	<u>ALL</u>			
<25	100	28	0	0	0	0	0	0	128			
25-29	142	405	25	0	0	0	0	0	572			
30-34	111	313	200	7	0	0	0	0 -	631			
35-39	49	194	161	94	20	0	0	0	518			
40-44	76	165	136	81	63	10	0	0	531			
45-49	64	164	128	97	91	64	1	0	609			
50-54	43	162	119	98	70	80	13	5	590			
55-59	30	66	73	62	57	44	10	10	352			
60-64	8	31	18	19	18	20	5	2	121			
65+	3	20	2	5	3	9	1	. 1	44			
ALL	626	1,548	862	463	322	227	30	18	4,096			

AVERAGE ANNUAL EARNINGS

	Years of Service											
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25-29</u>	<u>30+</u>	ALL			
<25	12,648	24,388	0	0	0	0	0	0	15,216			
25-29	17,787	30,389	39,311	0	0	0	0	0	27,651			
30-34	21,956	32,617	40,599	54,802	0	0	0	0	33,518			
35-39	22,405	35,350	45,059	52,272	60,977	0	0	0	41,203			
40-44	17,929	31,262	46,655	54,497	57,603	61,328	0	0	40,532			
45-49	18,726	28,595	49,181	54,343	58,412	65,844	64,470	0	44,415			
50-54	19,939	33,544	48,792	57,723	62,100	63,011	67,199	70,350	48,081			
55-59	15,890	28,901	52,136	59,773	59,055	67,710	70,347	69,240	50,106			
60-64	19,326	28,045	54,501	55,913	58,308	68,326	67,186	63,821	49,149			
65+	17,197	16,296	8,008	42,809	62,273	63,421	68,777	59,253	33,937			
ALL	18,254	31,293	45,947	55,339	59,359	65,131	68,208	68,391	39,617			

Prior Fiscal Year Earnings (In THOUSANDS) by Years of Service												
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25-29</u>	<u>30+</u>	ALL			
ALL	11,427	48,442	39,606	25,622	19,114	14,785	2,046	1,231	162,271			

St. Paul Teachers Retirement Fund

SERVICE RETIREMENTS AS OF JUNE 30, 2001

	Years Retired										
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>			
<50	0	0	0	0	0	0	0	0			
50-54	0	0	0	0	0	0	0	0			
55-59	10	18	0	0	0	0	0	28			
60-64	16	42	10	0	0	0	0	68			
65-69	10	44	22	0	0	0	0	76			
70-74	1	10	26	10	0	0	0	47			
75-79	0	1	3	7	3	0	0	14			
80-84	0	0	0	3	2	0	0	5			
85+	0	0	0	0	0	2	0	2			
ALL	37	115	61	20	5	2	0	240			

AVERAGE ANNUAL BENEFIT

	Years Retired											
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	ALL				
<50	0	0	0	0	0	0	0	0				
50-54	0	0	0	0	0	0	0	0				
55-59	16,834	8,647	0	0	0	0	0	11,571				
60-64	12,506	13,300	11,446	0	0	0	0	12,841				
65-69	11,490	12,530	10,553	0	0	0	0	11,821				
70-74	13,524	10,703	13,321	5,939	0	0	0	11,198				
75-79	0	12,526	17,841	10,026	5,780	0	0	10,969				
80-84	0	0	0	3,572	11,224	0	0	6,633				
85+	0	0	0	0	0	2,420	0	2,420				
ALL	13,429	12,045	12,238	7,014	7,958	2,420	0	11,723				

Total Annual Benefit (IN THOUSANDS) by Years RETIRED										
<u>Age</u>	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	ALL		
ALL	496	1,385	746	140	39	4	0	2,813		

St. Paul Teachers Retirement Fund

DISABILITY RETIREMENTS AS OF JUNE 30, 2001

Years Disabled										
Age	<u>≤1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	25+	ALL		
<50	0	1	1	0	0	0	0	2		
50-54	0	1	0	0	0	0	0	1		
55-59	0	1	2	0	0	0	0	3		
60-64	0	0	2	0	0	0	0	. 2		
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	3	5	0	0	0	0	8		

AVERAGE ANNUAL BENEFIT

_	Years Disabled										
Age	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	25+	ALL			
<50	0	2,171	4,467	0	0	0	0	3,319			
50-54	0	1,772	0	0	0	0	0	1,772			
55-59	0	15,172	10,761	0	0	0	0	12,231			
60-64	0	0	13,862	0	0	0	0	13,862			
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	6,372	10,743	0	0	0	0	9,103			

	Total Annual Benefit (IN THOUSANDS) by Years DISABLED										
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>			
ALL	0	19	53	0	0	0	0	72			

St. Paul Teachers Retirement Fund

SURVIVORS AS OF JUNE 30, 2001

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

AVERAGE ANNUAL BENEFIT

	Years Since Death										
Age	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	<u>ALL</u>			
<50	0	10,885	2,580	0	0	0	0	5,348			
50-54	0	0	0	0	0	0	0	0			
55-59	0	22,112	0	0	0	0	0	22,112			
60-64	0	22,527	0	0	0	0	0	22,527			
65-69	0	0	0	6,714	0	0	0	6,714			
70-74	0	0	0	0	0	0	0	0			
75-79	0	0	1,236	0	0	0	0	1,236			
80-84	0	0	0	0	0	0	0	0			
85+	0	0	0	0	0	0	0	0			
ALL	0	19,409	2,132	6,714	0	0	0	11,343			

		Total Annua	al Benefit (1	IN THOUS	SANDS) by	Years SINC	CE DEATH	
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	ALL
ALL	0	77	6	6	0	0	0	90

COORDINATED

St. Paul Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2001

	Percent of	Dollar Amount		
	Payroll		Donar Amount	
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A				
1. Employee Contributions	5.50%	\$	9,573	
2. Employer Contributions	8.34%		14,516	
3. Supplemental Contribution			•	
a. 1996 Legislation	0.81%		1,420	
b. 1997 Legislation	1.32%		2,289	
4. Administrative Expense Assessment	0.00%		_	
5. Total	15.97%	\$	27,798	
	 			
B. REQUIRED CONTRIBUTIONS - CHAPTER 356				
1. Normal Cost				
a. Retirement Benefits	6.76%	\$	11,765	
b. Disability Benefits	0.38%		655	
c. Surviving Spouse and Child Benefits	0.15%		261	
d. Deferred Retirements	0.75%		1,309	
e. Refund Liability Due to Death or Withdrawal	0.40%		696	
f. Total	8.44%	\$	14,686	
1. 1041	0.1470	Ψ	1-1,000	
Projected Annual Payroll for Fiscal Year Beginning on the Valuation Date:			174,051	

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.

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, 2001

					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%
07/01/01	869,045	1,060,931	191,886	81.91%	202,915	94.56%

St. Paul Teachers' Retirement Fund Schedule of Employer Contributions

(dollars in thousands)

July 1, 2001

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% 75.29% 115,274 7,821 13,931 10,489 1993 19.74% 122,930 8,202 16,064 10,839 67.47% 1994 18.68% 129,308 9,100 11,736 77.96% 15,055 1995 18.63% 139,175 8,788 17,140 13,084 76.33% 88.46% 1996 17.96% 145,677 9,093 17,071 15,101 9,484 1997 16.97% 151,363 16,202 16,043 99.02% 1998 20.35% 168,564 11,057 23,246 21,702 93.36% 1999 18.82% 178,254 21,899 96.19% 11,649 21,066 2000 18.09% 187,950 108.69% 13,184 20,814 22,622 2001 16.57% 202,915 13,170 20,444 23,569 115.28%

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