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December 17, 2001

Legislative Commission on Pensions and Retirement 55 State Office Building St. Paul, Minnesota 55155 JAN 0 2 2002
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STATE OFFICE BUILDING

Re: Minneapolis Teachers' Retirement Fund July 1, 2001 Actuarial Valuation Report

Commission Members:

Pursuant the terms of our actuarial services contract, we have performed an actuarial valuation of the Minneapolis 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 Minneapolis 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 as adopted by the Commission on Pensions and Retirement.

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,

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

Low L. Cors

Consulting Actuary

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

Consulting Actuary

Minneapolis Teachers' Retirement Fund ACTUARIAL VALUATION REPORT

July 1, 2001

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Minneapolis Teachers' Retirement Fund Report Highlights

(dollars in thousands)

	July 1, 2000 Valuation			July 1, 2001 Valuation	
A. CONTRIBUTIONS % OF PAYROLL (Table 11)					
1. Statutory Contributions - Chapter 422A		23.25%		22.72%	
2. Required Contributions - Chapter 356		25.25%		25.45%	
3. Sufficiency / (Deficiency)		(2.00%)		(2.73%)	
B. FUNDING RATIOS					
1. Accrued Benefit Funding Ratio					
a. Current Assets (Table 1)	\$	1,027,633	\$	1,061,983	
b. Current Benefit Obligations (Table 8)		1,489,180		1,556,387	
c. Funding Ratio		69.01%		68.23%	
2. Accrued Liability Funding Ratio					
a. Current Assets (Table 1)	\$	1,027,633	\$	1,061,983	
b. Actuarial Accrued Liability (Table 9)		1,544,358		1,610,364	
c. Funding Ratio		66.54%		65.95%	
3. Projected Benefit Funding Ratio (Table 8)					
a. Current and Expected Future Assets	\$	1,635,867	\$	1,677,911	
b. Current and Expected Future Benefit Obligations		1,791,915		1,859,209	
c. Funding Ratio		91.29%		90.25%	
C. PLAN PARTICIPANTS					
1. Active Members					
a. Number (Table 3)		5,777		5,813	
b. Projected Annual Earnings	\$	255,488	\$	267,977	
c. Average Annual Earnings (Actual dollars)	\$	44,225	\$	46,100	
d. Average Age		42.6		42.6	
e. Average Service		8.4		8.3	
f. Additional Members on Leave of Absence *		67		64	
2. Others					
a. Service Retirements (Table 4)		3,033		3,161	
b. Disability Retirements (Table 5)		20		20	
c. Survivors (Table 6)		254		263	
d. Deferred Retirements (Table 7)		756		802	
e. Terminated Other Non-Vested (Table 7)	·	1,815		2,250	
f. Total		5,878		6,496	

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

Minneapolis 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. This year's ratio is 68.23%. The corresponding ratio for the prior year was 69.01%.

The Accrued Liability Funding Ratio is also a measure of funding status and funding progress. It is based on the actuarial cost method that has historically been used by the State. For 2001 the ratio is 65.95%, which is a decrease from the 2000 value of 66.54%.

The *Projected Benefit Funding Ratio* is a measure of the adequacy or deficiency in the contribution level. This year's ratio of 90.25% shows that the current statutory contributions are insufficient in the long run.

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.

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 A.6, 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 B.3, 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 deficiency since the Statutory Contribution Rate is 22.72% compared to the Required Contribution Rate of 25.45%.

Changes in Actuarial Assumption

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

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.

Minneapolis Teachers' Retirement Fund Accounting Balance Sheet

(dollars in thousands)

July 1, 2001

		Market Value	Cost Value
A. ASSETS 1. Cash, Equivalents, Short-Term Securities	\$	123,430	\$ 123,430
2. Investments			
a. Fixed Income		378,075	393,133
b. Equity		473,022	446,639
c. Real Estate		4,336	4,336
3. Equity in Minnesota Post-Retirement Investment Fund		-	-
4. Other Assets		28,484	 30,302
B. TOTAL ASSETS	\$	1,007,347	 997,840
C. AMOUNTS CURRENTLY PAYABLE	\$	74,949	\$ 74,949
D. ASSETS AVAILABLE FOR BENEFITS			
1. Member Reserves	\$	237,283	\$ 237,283
2. Employer Reserves		695,115	685,608
3. MPRIF Reserves		=	-
4. Non-MPRIF Reserves			-
5. Total Assets Available for Benefits	\$	932,398	\$ 922,891
E. TOTAL AMOUNTS CURRENTLY PAYABLE AND	r		
ASSETS AVAILABLE FOR BENEFITS	<u>\$</u>	1,007,347	\$ 997,840
F. DETERMINATION OF ACTUARIAL VALUE OF ASSETS			
1. Market Value of Assets Available for Benefits (D.5)	\$	932,398	
2. Unrecognized Asset Returns			
a. June 30, 2001	\$ (217,974)	•	
b. June 30, 2000	44,266		
c. June 30, 1999	60,783		
3. UAR Adjustment: .80 * 2(a) + .60 * 2(b) + .30 * 2(c)		(129,585)	
4. Actuarial Value of Assets (F.1 - F.3)	\$	1,061,983	

Minneapolis 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	\$	1,099,516	\$ 972,933
В.	OPERATING REVENUES			
	1. Member Contributions	\$	16,321	\$ 16,321
	2. Employer Contributions		22,029	22,029
	3. Supplemental Contributions *		20,875	20,875
	4. Investment Income		42,312	42,312
	5. MPRIF Income		-	-
	6. Net Realized Gain / (Loss)		(45,029)	(45,029)
	7. Other		-	-
	8. Net Change in Unrealized Gain / (Loss)		(117,076)	 <u>-</u>
	9. Total Operating Revenue	\$	(60,568)	\$ 56,508
C.	OPERATING EXPENSES			
	1. Service Retirements	\$	91,896	\$ 91,896
	2. Disability Benefits		839	839
	3. Survivor Benefits		6,168	6,168
	4. Refunds		516	516
	5. Administrative Expenses		672	672
	6. Investment Expenses		6,459	 6,459
	7. Total Operating Expenses	\$	106,550	\$ 106,550
D.	CHANGE IN ACCOUNTING METHOD	\$	- ·	\$ -
E.	ASSETS AVAILABLE AT END OF PERIOD	\$	932,398	\$ 922,891
F.	DETERMINATION OF CURRENT YEAR UNRECOGNIZED ASSET	RETUR	N.	
	1. Average Balance			
	(a) Assets Available at Beginning of Period		1,099,516	
	(b) Assets Available at End of Period		932,398	
	(c) Average Balance {[(a) + (b) - Net Investment Income] / 2} {Net Investment Income: B.4+B.5+B.6+B.7+B.8-C.6}	\$	1,079,083	
	2. Expected Return: .085 * F.1		91,722	
	3. Actual Return		(126,252)	
	4. Current Year UAR: F.3 - F.2		(217,974)	

^{*} Includes contributions from School District #1, the City of Minneapolis, and matching State contributions.

Minneapolis Teachers' Retirement Fund ACTIVE MEMBERS AS OF JUNE 30, 2001

	Years of Service											
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	15-19	<u>20-24</u>	25-29	30+	ALL			
<25 25-29	117 214	38 467	0 49	0	0	0	0	0	155 730			
30-34 35-39	120 52	327 196	337 296	5 95	0 15	0 0	0 0	0 0	789 654			
40-44 45-49	138 54	208 217	253 250	124 153	113 107	8 41	1 12	0 0	845 834			
50-54 55-59	62 26	111 62	231 130	145 88	116 85	83 44	113 70	60 91	921 596			
60-64 65+	15 6	30 4	41 11	36 16	40 5	20 4	14 3	32 12	228 61			
ALL	804	1,660	1,598	662	481	200	213	195	5,813			
AVERAGE ANNUAL EARNINGS												
					ars of Serv							
<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>	ALL			
<25 25-29	11,611 15,916	23,545 29,211	0 36,154	0 0	0	0 0	0	0	14,537 25,780			
30-34 35-39	16,563 19,813	33,118 37,297	40,853 45,951	52,414 49,877	0 - 55,619	0 0	0 0	0 0	34,026 42,071			
40-44 45-49	17,096 20,412	32,855 36,991	46,792 47,872	53,997 57,241	58,724 61,241	49,326 60,221	38,047 73,945	0 0	41,178 47,679			
50-54 55-59	17,232 19,421	38,454 33,437	48,780 49,955	59,518 57,280	64,091 65,095	65,754 65,555	68,997 68,374	70,894 72,869	54,482 56,959			
60-64 65+	22,065 11,320	35,764 16,183	43,123 31,162	57,139 38,433	66,278 60,161	67,036 82,384	70,933 67,484	70,677 56,669	54,717 42,675			
ALL	16,438	33,142	45,570	55,584	62,250	64,380	69,032	70,905	42,868			
		10D F155	. 	,								
A 60		IOR FISCA			•	J SANDS) B <u>20-24</u>						
<u>Age</u> All	<u><1</u> 13,216	<u>1-4</u> 55,016	<u>5-9</u> 72,821	<u>10-14</u> 36,797	<u>15-19</u> 29,942	12,876	<u>25-29</u> 14,704	<u>30+</u> 13,827	<u>ALL</u> 249,192			
	,	,	· -,	,	,- · -	,	,,,	,,	,			

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	13	58	0	1	0	0	0	72		
55-59	36	331	51	0	0	0	0	418		
60-64	19	293	222	31	0	0	0	565		
65-69	8	134	277	113	24	2	0	558		
70-74	0	36	148	220	89	22	1	516		
75-79	0	4	18	124	153	74	10	383		
80-84	0	1	1	22	94	132	26	276		
85+	0	0	0	3	25	99	246	373		
ALL	76	857	717	514	385	329	283	3,161		

				Years I	Retired			
Age	<u><1</u>	1-4	<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	34,551	32,880	0	15,164	0	0	0	32,936
55-59	19,397	38,133	28,837	0	0	0	0	35,385
60-64	16,473	27,731	37,903	21,164	0	0 .	0	30,989
65-69	8,605	23,283	34,463	39,595	18,156	17,883	0	31,686
70-74	0	28,570	27,488	34,546	36,051	23,511	15,647	31,857
75-79	0	39,443	40,702	31,510	31,695	33,664	6,867	31,871
80-84	0	10,479	39,167	33,550	25,874	28,782	12,737	26,632
85+	0	0	0	24,910	35,480	20,294	19,188	20,620
ALL	20,122	31,471	33,852	33,979	30,683	26,907	18,147	30,382

_		TOTAL AN	INUAL BEN	EFIT (IN T	HOUSANDS	S) BY YEAR	S RETIRED	
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	<u>20-24</u>	<u>25+</u>	ALL
All	1,529	26,971	24,272	17,465	11,813	8,852	5,136	96,038

DISABILITY RETIREMENTS AS OF JUNE 30, 2001

_				Years D				
Age	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	20-24	25+	ALL
<50	0	1	0	0	0	0	0	1
50-54	1	4	3	0	0	0	0	8
55-59	0	1	4	1	1	0	0	7
60-64	0	1	2	1	0	0	0	4
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	1	7	9	2	1	0	0	20

	Years Disabled										
<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	1,718	0	0	0	0	0	1,718			
50-54	8,597	43,438	45,756	0	0	0	0	39,952			
55-59	0	46,471	48,378	47,991	34,948	0	0	46,132			
60-64	0	7,153	24,225	31,080	0	0	0	21,670			
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	8,597	32,727	42,137	39,536	34,948	0	0	36,547			

		TOTAL AND	NUAL BEN	EFIT (IN TI	IOUSANDS) BY YEARS	DISABLED	
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	20-24	<u>25+</u>	<u>ALL</u>
All	9	229	379	79	35	0	0	731

SURVIVORS AS OF JUNE 30, 2001

_	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	10	24	23	6	4	0	0	67	
50-54	1	1	4 .	1	0	0	0	7	
55-59	1	0	2	0	0	0	0	3	
60-64	3	6	7	0	0	0	0	16	
65-69	0	10	10	5	0	1	1	27	
70-74	4	9	13	10	4	4	1	45	
75-79	0	15	11	5	3	5	1	40	
80-84	2	6	7	0	1	1	2	19	
85+	2	3	5	10	6	9	4	39	
ALL	23	74	82	37	18	20	9	263	

	Years Since Death								
<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>	ALL	
<50	17,837	14,552	17,631	3,749	13,212	0	0	15,052	
50-54	7,064	63,716	34,822	6,051	0	0	0	30,874	
55-59	54,784	0	23,147	0	0	0	0	33,693	
60-64	18,339	18,334	21,089	0	0	0	0	19,540	
65-69	0	37,703	42,766	34,910	0	16,887	18,704	37,586	
70-74	17,701	25,002	35,633	29,158	43,165	24,344	15,107	29,684	
75-79	0	29,263	26,894	23,055	19,584	20,900	11,510	25,620	
80-84	23,959	26,656	23,598	0	27,493	19,636	19,989	24,218	
85+	17,616	31,794	23,277	20,356	17,420	18,918	14,674	20,104	
ALL	19,530	24,585	26,915	21,987	23,126	20,433	15,999	23,794	

TOTAL ANNUAL BENEFIT (IN THOUSANDS) BY YEARS SINCE DEATH										
<u>Age</u>	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	ALL		
All	449	1,819	2,207	814	416	409	144	6,258		

Minneapolis Teachers' Retirement Fund Reconciliation of Members

				Terminated	
		_	Leave of	Deferred	Other
		<u>Actives</u>	Absence	Retirement	Non-Vested
A.	ON JUNE 30, 2000	5,777	67	756	1,815
B.	ADDITIONS	857	7	109	514
C.	DELETIONS				
	1. Service Retirement	(149)	(8)	(50)	(8)
	2. Disability	0	(1)	(1)	0
	3. Death - Survivor	0	0	0	0
	4. Death - Other	(2)	(1)	(1)	0
	5. Terminated - Deferred	(109)	0	0	0
	6. Terminated - Refund	(80)	. 0	(11)	(36)
	7. Terminated - Other Non-Vested	(521)	0	0	0
	8. Returned as active	49	0	(19)	(30)
D.	DATA ADJUSTMENTS	(9)	0	19	(5)
	1. Vested	3,802	64	802	2,250
	2. Non-Vested	2,011	0	0	0
E.	TOTAL ON JUNE 30, 2001	5,813	64	802	2,250

		Recipients				
		Retirement		<u></u>	Other	
		Annuitants	<u>Disabled</u>	Survivors	Beneficiary	
A.	ON JUNE 30, 2000	3,010	20	254	23	
B.	ADDITIONS	218	2	14	0	
C.	DELETIONS					
	1. Service Retirement	0	(3)	0	0	
	2. Death	(87)	0	(7)	0	
	3. Annuity Expired	0	0	(14)	0	
	4. Returned as Active	0	0	0	0	
D.	DATA ADJUSTMENTS	(4)	1	16	1	
E.	TOTAL ON JUNE 30, 2001	3,137	20	263	24	

Minneapolis Teachers' Retirement Fund Actuarial Balance Sheet

(dollars in thousands)

July 1, 2001

A. CURRENT ASSETS (Table 1; Line F.6)			\$	1,061,983
 B. EXPECTED FUTURE ASSETS 1. Present Value of Expected Future Statutory Supplem 2. Present Value of Future Normal Costs 3. Total Expected Future Assets 	\$ 	367,083 248,845 615,928		
C. TOTAL CURRENT AND EXPECTED FUTURE ASSE	TS		\$	1,677,911
D. CURRENT BENEFIT OBLIGATIONS 1. Benefit Recipients	Non-Vested	 Vested	-	Total
a. Retirement Annuities b. Disability Benefits c. Surviving Spouse and Child Benefits 2. Deferred Retirements 3. Former Members Without Vested Rights 4. Active Members a. Retirement Annuities * \$ b. Disability Benefits c. Surviving Spouse and Child Benefits d. Deferred Retirements e. Refund Liability Due to Death or Withdrawal 5. Total Current Benefit Obligations	2,529 18,218 4,839 308 - 25,894	\$ 1,018,897 6,952 59,818 31,038 1,900 397,167 - 11,749 2,972 1,530,493	\$	1,018,897 6,952 59,818 31,038 1,900 399,696 18,218 4,839 12,057 2,972 1,556,387
E. EXPECTED FUTURE BENEFIT OBLIGATIONS			\$	302,822
F. TOTAL CURRENT AND EXPECTED FUTURE BENE	\$	1,859,209		
G. CURRENT UNFUNDED ACTUARIAL LIABILITY (I	\$	494,404		
H. CURRENT AND FUTURE UNFUNDED ACTUARIA	\$	181,298		

^{*} Includes members on leave of absence.

Minneapolis Teachers' Retirement Fund Determination of Unfunded Actuarial Accrued Liability (UAAL) and Supplemental Contribution Rate

(dollars in thousands)

July 1, 2001

	Actuarial Present Value of Projected Benefits		Actuarial Present Value of Future Normal Costs			Actuarial Accrued Liability
A. DETERMINATION OF ACTUARIAL ACCRUED LIABILITY (AAL)						
1. Active Members						
a. Retirement Benefits	\$	667,726	\$	200,528	\$	467,198
b. Disability Benefits	•	33,370	,	16,257	-	17,113
c. Surviving Spouse and Child Benefits		9,698		4,805		4,893
d. Deferred Retirements	22,495 al 7,315	19,623		2,872		
e. Refund Liability Due to Death or Withdrawal		7,315	7,63	7,632		(317)
f. Total	\$	740,604	\$	248,845	\$	491,759
2. Deferred Retirements	\$	31,038			\$	31,038
3. Former Members Without Vested Rights		1,900				1,900
4. Annuitants in MPRIF		-				-
5. Annuitants Not in MPRIF		1,085,667				1,085,667
6. Total	\$	1,859,209	\$	248,845	\$	1,610,364
B. DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL) 1. Actuarial Accrued Liability (A.6)					.	1,610,364
2. Current Assets (Table 1; Line F.6)					Ψ	1,061,983
3. Unfunded Actuarial Accrued Liability (B.1 - B.2)	1				\$	548,381
C. DETERMINATION OF SUPPLEMENTAL CONTR 1. Present Value of Future Payrolls Through the Amortization Date of June 30, 2020 2. Supplemental Contribution Rate (B.3 / C.1)		ITION RATI	Ξ			3,671,680 14.94%

Minneapolis Teachers' Retirement Fund Changes in Unfunded Actuarial Accrued Liability (UAAL)

(dollars in thousands)

June 30, 2001

A. UAAL AT BEGINNING OF YEAR	\$ 516,725
B. CHANGE DUE TO INTEREST REQUIREMENTS AND CURRENT RATE OF FUNDING	
1. Normal Cost and Expenses	\$ 28,101
2. Contributions	(59,225)
3. Interest	43,793
4. Total	\$ 12,669
C. EXPECTED UAAL AT END OF YEAR (A + B.4)	\$ 529,394
D. INCREASE / (DECREASE) DUE TO ACTUARIAL LOSSES / (GAINS) BECAUSE OF EXPERIENCE DEVIATIONS FROM EXPECTED	
1. Age and Service Retirements (b)	\$ -
2. Disability Retirements (b)	-
3. Death-in-Service Benefits (a)	-
4. Withdrawal (b)	-
5. Salary Increases	(12,689)
6. Contribution Income (b)	-
7. Investment Income (c)	13,655
8. Mortality of Annuitants	848
9. Other Items	 17,173
10. Total	\$ 18,987
E. UAAL AT END OF YEAR BEFORE PLAN AMENDMENTS AND CHANGES IN ACTUARIAL ASSUMPTIONS (C + D.5)	\$ 548,381
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)	\$ 548,381

- (a) Included in Item D.8.
- (b) Included in Item D.9.
- (c) Includes a gross investment loss of \$10,396 increased by \$3,259 used to provide next year's cost of living adjustment to annuitants.

Minneapolis Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2001

-	Percent of Payroll	Doll	ar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
	5.99%	e e	16,058
1. Employee Contributions	8.80%	Ф	23,573
2. Employer Contributions	0.0070		23,373
3. Supplemental Contribution *	1.87%		5 000
a. 1993 Legislation			5,000
b. 1996 Legislation	1.23%		3,290
c. 1997 Legislation	4.83%		12,954
4. Administrative Expense Assessment	0.00%		-
5. Total	22.72%	\$	60,875
 B. REQUIRED CONTRIBUTIONS - CHAPTER 356 1. Normal Cost a. Retirement Benefits 	8.31%	\$	22,277
b. Disability Benefits	0.69%	Ψ	1,850
c. Surviving Spouse and Child Benefits	0.18%		484
d. Deferred Retirements	0.79%		2,126
e. Refund Liability Due to Death or Withdrawal	0.28%		756
f. Total	10.25%	\$	27,493
2. Supplemental Contribution Amortization	14.94%	•	40,036
3. Allowance for Administrative Expenses	0.26%		706
4. Total	25.45%	\$	68,235
C. CONTRIBUTION SUFFICIENCY / (DEFICIENCY) (A.3 - B.5)	(2.73%)		(7,360)
Projected Annual Payroll for Fiscal Year Beginning on the Valuation	Date:	\$	267,977

^{*} Includes contributions from School District #1, the City of Minneapolis, and matching State contributions.

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 6 years.

Female:

1983 Group Annuity Mortality Table female

rates set back 4 years.

Post-Retirement:

Male:

1983 Group Annuity Mortality Table male

rates set back 4 years.

Female:

1983 Group Annuity Mortality Table female

rates set back 2 years.

<u>Post-Disability</u>:

Male:

1977 Railroad Retirement Board Mortality

for Disabled Annuitants

Female:

1977 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:

80% of male Members and 60% of female Members are assumed to be

married. Female is assumed to be three years younger than male.

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:

25% elect life annuity option 15% elect 50% J&S option 20% elect 75% J&S option 40% elect 100% J&S option

Females:

70% elect life annuity option 15% elect 50% J&S option 5% elect 75% 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.

Assumed date for 07/01/2001 is July 1,

1958.

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. Service at termination is calculated assuming termination on the valuation date in which the participant is first reported in vested status. Salary at termination is estimated based on assumed termination date if not

available.

Estimated salary begins at \$15,000 for 1993 termination date and increases according to the salary assumption thereafter. Current level is \$24,629.

Supplemental Contributions: The City of Minneapolis, the Minneapolis School District, and the State of Minnesota are scheduled to make the following supplemental contributions to the plan:

1993 Legislation:

Supplemental contributions of \$5,000,000 annually are assumed to be made until the amortization date of June 30, 2020.

1996 Legislation:

Supplemental contributions of \$1,740,000 annually are assumed to be made until the amortization date of June 30, 2020 plus additional supplemental contributions according to the following schedule:

Year	<u>Amount</u>
June 30, 2002	1,550,000
June 30, 2003	1,850,000
June 30, 2004 - 2020	2,000,000

1997 Legislation:

Supplemental contributions of \$12,954,000 annually are assumed to be made beginning July 1, 1999 and continuing until the amortization date of June 30, 2020.

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

Withdrawal			Disability				
<u>Age</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>			
20	1,200	1,200	3	4			
21	1,200	1,150	3	4			
22	1,100	1,100	3	4			
23	1,050	1,050	3				
24	1,000	1,000	3	5 5			
25	950	950	3	5			
26	900	900	4	5			
27	850	850	4	5			
28	800	800	4	6			
29	750	750	4	6			
30	700	700	4	6			
31	650	650	4	6			
32	600	600	4	7			
33	550	550	5	7			
34	500	500	5	8			
35	450	450	5	8			
36	400	400	6	8			
37	350	350	6	9			
38	300	300	6	9			
39	250	250	6	10			
40	200	200	7	10			
41	190	190	7	11			
42	180	180	8	12			
43	170	170	8	13			
44	160	160	9	14			
45	150	150	10	15			
46	140	140	11	16			
47	130	130	12	18			
48	120	120	14	20			
49	110	110	16	23			
50	100	100	18	26			
51	90	90	20	29			
52	80	80	23	33			
53	70	70	26	37			
54	60	60	30	42			

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	49	
56	40	40	42	58	
57	30	30	50	68	
58	20	20	59	80	
59	10	10	69	94	
60	0	0	90	121	
61	0	0	116	154	
62	0	0	146	193	
63	0	0	0	0	
64	0	0	0	0	
65	0	0	0	0	
66	0	0	0	0	
67	0	0	0	0	
68	0	0	0	0	
69	0	0	0	0	
70	0	0	0	0	

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

	Pre-Retirement Mortality			tirement tality	Post-Disability Mortality		
<u>Age</u>	Male	<u>Female</u>	Male	<u>Female</u>	<u>Male</u>	<u>Female</u>	
20	3	1	3	2	271	271	
21	3	. 2	3	2	271	271	
22	3	2	4	2	271	271	
23	3	2	4	2	272	272	
24	4	2	4	2	272	272	
25	4	2	4	2	272	272	
26	4	2 2	4	2	272	272	
27	4	2	4	3	272	272	
28	4	2	4	3	272	272	
29	4	3	5	3	272	272	
30	4	3	5	3	272	272	
31	5	3	5	3	272	272	
32	5	3	5	3	272	272	
33	5	3	6	4	272	272	
34	5	3	6	4	273	273	
35	6	4	6	4	273	273	
36	6	4	7	4	273	273	
37	6	4	7	5	273	273	
38	7	4	8	5	273	273	
39	7	5	9	5	273	273	
40	8	5	9	6	273	273	
41	9	5	10	6	273	273	
42	9	6	10	7	273	273	
43	10	6	11	7	274	274	
44	10	7	12	8	274	274	
45	11	7	14	8	274	274	
46	12	8	15	9	275	275	
47	14	8	17	10	276	276	
48	15	9	19	11	279	279	
49	17	10	22	12	283	283	
50	19	11	25	14	289	289	
51	22	12	28	15	297	297	
52	25	14	31	16	310	310	
53	28	15	35	18	327	327	
54	31	16	39	19	348	348	

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

	Pre-Retirement Mortality			tirement tality	Post-Disability Mortality		
Age	Male	<u>Female</u>	Male	<u>Female</u>	<u>Male</u>	<u>Female</u>	
55	35	18	43	21	371	371	
56	39	19	48	23	395	395	
57	43	21	52	25	417	417	
58	48	23	57	28	437	437	
59	52	25	61	31	455	455	
60	57	28	66	34	473	473	
61	61	31	71	38	494	494	
62	66	34	77	42	516	516	
63	71	38	. 84	47	541	541	
64	77	42	92	52	569	569	
65	84	47	101	58	598	598	
66	92	52	111	64	628	628	
67	101	58	124	71	658	658	
68	111	64	139	78	687	687	
69	124	71	156	87	716	716	
70	139	78	176	97	746	746	

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

Age	Basic Members Eligible for 30 and out Provision	Basic Members Not Eligible for 30 and out Provision	Coordinated Members Eligible for Rule of 90 Provision	Coordinated Members Not Eligible for Rule of 90 Provision
55 or less	3,000	300	3,000	200
56	3,000	300	3,000	200
57	3,000	300	3,000	200
58	3,000	300	3,000	200
59	3,000	300	3,000	200
60	5,000	5,000	3,000	800
61	5,000	5,000	3,000	800
62	5,000	5,000	3,000	800
63	5,000	5,000	3,000	2,000
64	5,000	5,000	3,000	2,000
65	7,500	7,500	5,000	5,000
66	7,500	7,500	5,000	5,000
67	7,500	7,500	5,000	5,000
68	7,500	7,500	5,000	5,000
69	7,500	7,500	5,000	5,000
70	7,500	7,500	7,500	7,500
71	7,500	7,500	7,500	7,500
72	7,500	7,500	7,500	7,500
73	7,500	7,500	7,500	7,500
74	7,500	7,500	7,500	7,500
75	7,500	7,500	7,500	7,500
76	7,500	7,500	7,500	7,500
77	7,500	7,500	7,500	7,500
78	7,500	7,500	7,500	7,500
79	7,500	7,500	7,500	7,500
80 or more	10,000	10,000	10,000	10,000

Annual Salary Increases

Age	Male	<u>Female</u>
<22	7.50%	7.50%
23	7.40%	7.40%
24	7.30%	7.30%
25	7.20%	7.20%
26	7.10%	7.10%
27	7.00%	7.00%
28	6.90%	6.90%
29	6.80%	6.80%
30	6.70%	6.70%
31	6.60%	6.60%
32	6.50%	6.50%
33	6.40%	6.40%
34	6.30%	6.30%
35	6.20%	6.20%
36	6.10%	6.10%
37	6.00%	6.00%
38	5.90%	5.90%
39	5.80%	5.80%
40	5.70%	5.70%
41	5.60%	5.60%
42	5.50%	5.50%
43	5.45%	5.45%
44	5.40%	5.40%
45	5.35%	5.35%
46	5.30%	5.30%
47	5.25%	5.25%
48	5.20%	5.20%
49	5.15%	5.15%
50	5.10%	5.10%
51	5.05%	5.05%
52	5.00%	5.00%
53	5.00%	5.00%
54	5.00%	5.00%
55	5.00%	5.00%

Minneapolis Teachers' Retirement Fund ACTIVE MEMBERS AS OF JUNE 30, 2001

		<u></u>	<u> </u>									
				Ye	ars of Servi	ce						
<u>Age</u>	<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>	ALL			
<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	4	3	5	20	12	0	44			
50-54	0	1	2	11	25	49	112	60	260			
55-59	0	1	3	5	26	31	68	91	225			
60-64	0	0	0	3	[′] 8	11	14	30	66			
65+	0	0	0	0	1	3	3	12	19			
ALL	0	2	9	22	65	114	209	193	614			
AVERAGE ANNUAL EARNINGS												
				Ye	ars of Servi	ice						
<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	60,828	56,955	54,824	61,213	73,945	0	63,634			
50-54	0	79,543	76,690	60,907	67,158	64,484	69,084	70,894	68,202			
55-59	0	60,562	51,449	58,502	67,906	66,080	67,540	72,869	69,090			
60-64	0	0	0	67,848	66,941	66,939	70,933	70,938	69,646			
65+	0	0	0	0	65,498	86,841	67,484	56,669	63,605			
ALL	0	70,053	61,227	60,768	66,456	65,169	68,962	70,948	68,213			
						•						
	PR	IOR FISCA	AL YEAR I	EARNINGS	S (IN THOU	JSANDS) R	Y YEARS	OF SERVI	CE			
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	15-19	20-24	<u>25-29</u>	30+	ALL			
All	0	140	551	1,337	4,320	7,429	14,413	13,693	41,883			

SERVICE RETIREMENTS AS OF JUNE 30, 2001

				Years I	Retired			
<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+</u>	ALL
<50	0	0	0	0	0	0	0	0
50-54	13	58	0	1	0	0	0	72
55-59	30	316	47	0	0	0	0	393
60-64	14	263	213	31	0	0	0	521
65-69	7	112	265	112	24	2	0	522
70-74	0	27	135	216	89	22	1	490
75-79	0	3	17	124	153	74	10	381
80-84	0	1	1	22	94	132	26	276
85+	0	0	0	3	25	99	246	373
ALL	64	780	678	509	385	329	283	3,028

				Years I	Retired			
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	0	0	0	0	0	0	. 0
50-54	34,551	32,880	0	15,164	0	. 0	0	32,936
55-59	22,214	39,591	30,608	0	0	0	0	37,190
60-64	19,240	29,819	39,134	21,164	0	0	0	32,828
65-69	9,400	25,957	35,642	39,907	18,156	17,883	0	33,255
70-74	0	34,463	29,503	35,091	36,051	23,511	15,647	33,132
75-79	0	50,704	42,932	31,510	31,695	33,664	6,867	32,017
80-84	0	10,479	39,167	33,550	25,874	28,782	12,737	26,632
85+	0	0	0	24,910	35,480	20,294	19,188	20,620
ALL	22,668	33,667	35,356	34,264	30,683	26,907	18,147	31,349

_		TOTAL AN	NUAL BEN	EFIT (IN T	HOUSANDS	S) BY YEAR	S RETIRED	
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	1,450	26,260	23,971	17,440	11,812	8,852	5,135	94,924

DISABILITY RETIREMENTS AS OF JUNE 30, 2001

_				Years D	isabled			
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	1	0	0	0	0	0	1
50-54	0	3	3	0	0	0	0	6
55-59	0	1	4	1	1	0	0	7
60-64	0	1	1	1	0	0	0	3
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	8	2	1	0	0	17

_				Years D	isabled			
<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>
<50	0	1,718	0	0	0	0	0	1,718
50-54	0	54,739	45,756	0	0	0	0	50,248
55-59	0	46,471	48,378	47,991	34,948	0	0	46,132
60-64	0	7,153	39,552	31,080	0	0	0	25,928
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	36,593	46,292	39,536	34,948	0	0	41,407

		TOTAL AN	<u>NUAL BEN</u>	EFIT (IN TE	HOUSANDS) BY YEARS	DISABLED	
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>	<u>ALL</u>
All	0	219	370	79	34	0	0	703

SURVIVORS AS OF JUNE 30, 2001

_	Years Since 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			
<50	10	24	23	6	4	0	0	67			
50-54	1	1	4	1	0	0	0	7			
55-59	1	0	2	0	0	0	0	3			
60-64	3	6	7	0	0	0	0	16			
65-69	0	10	10	5	0	1	1	27			
70-74	4	9	13	10	4	4	1	45			
75-79	0	15	11	5	3	5	1	40			
80-84	2	6	7	0	1	1	2	19			
85+	2	3	5	10	6	9	4	39			
ALL	23	74	82	37	18	20	9	263			

				Years Sin	ce Death			
<u>Age</u>	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	ALL
< 50	17,837	14,552	17,631	3,749	13,212	0	0	15,052
50-54	7,064	63,716	34,822	6,051	0	0	0	30,874
55-59	54,784	0	23,147	0	0	0	0	33,693
60-64	18,339	18,334	21,089	0	0	0	0	19,540
65-69	0	37,703	42,766	34,910	0	16,887	18,704	37,586
70-74	17,701	25,002	35,633	29,158	43,165	24,344	15,107	29,684
75-79	0	29,263	26,894	23,055	19,584	20,900	11,510	25,620
80-84	23,959	26,656	23,598	0	27,493	19,636	19,989	24,218
85+	17,616	31,794	23,277	20,356	17,420	18,918	14,674	20,104
ALL	19,530	24,585	26,915	21,987	23,126	20,433	15,999	23,794

_	TO	OTAL ANNU	JAL BENEI	FIT (IN THO	OUSANDS) I	BY YEARS S	INCE DEAT	TH
Age	<u><1</u>	1-4	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	20-24	<u>25+</u>	ALL
All	449	1,819	2,207	813	416	408	143	6,257

Minneapolis Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2001

	Percent of		
	Payroll	Doll	ar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
1. Employee Contributions	8.50%	\$	3,738
2. Employer Contributions	12.14%		5,339
3. Supplemental Contribution *			
a. 1993 Legislation	1.87%		822
b. 1996 Legislation	1.23%		541
c. 1997 Legislation	4.83%		2,124
4. Administrative Expense Assessment	0.00%		•
5. Total	28.57%	\$	12,564
B. REQUIRED CONTRIBUTIONS - CHAPTER 356			
1. Normal Cost	11.000/	•	5 22 4
a. Retirement Benefits	11.90%	2	5,234
b. Disability Benefits	1.42%		625
c. Surviving Spouse and Child Benefits	0.20%		87
d. Deferred Retirements	1.73%		759
e. Refund Liability Due to Death or Withdrawal	0.49%		216
f. Total	15.74%	\$	6,921
Projected Annual Payroll for Fiscal Year Beginning on the Valuation Da	ate:	\$	43,976

^{*} Includes contributions from School District #1, the City of Minneapolis, and matching State contributions.

Minneapolis Teachers' Retirement Fund Summary of Plan Provisions

GENERAL

Eligibility: A teacher who is employed by the Board of Education of

Special School District No. 1 and who is not covered by the Social Security Act. Certain part-time licensed employees are covered as well as employees of the Minneapolis

Teachers Retirement Fund.

Contributions: Member: 8.50% of Salary.

Employer: 12.14% of Salary.

Teaching Service: A year is earned during a calendar year if the Member is

employed in a covered position and employee contributions are deducted. Certain part-time service and military service

is also included.

Salary: Total compensation. Excludes lump sum payments for

unused vacation leave or unused sick leave at separation.

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

RETIREMENT

Normal Retirement Benefit:

Eligibility: Age 60. Any age with 30 years of Teaching Service.

Amount: 2.50% of Average Salary for each year of Teaching

Service.

Early Retirement Benefit:

Eligibility: Age 55 with less than 30 years of Teaching Service.

Amount:

The greater of:

2.25% of Average Salary for each year of Teaching Service with reduction of 0.25% for each month the Member is under age first eligible for a normal retirement benefit.

or

2.50% of Average Salary for each year of Teaching Service assuming augmentation to the age first eligible for a normal retirement benefit at 3.00% per year and actuarial reduction for each month the Member is under the age first eligible for a normal retirement benefit.

An alternative benefit is available to Members who are at least age 50 and have 7 years of Teaching Service. The benefit is based on the accumulation of the 6.5% "city deposits" to the Retirement Fund. Other benefits are also provided under this alternative depending on the Member's age and Teaching Service.

Form of Payment:

Life annuity.

Actuarially equivalent options are:

- 10 or 15 year certain and life
- 50%, 75% or 100% joint and Survivor with bounce back feature without additional reduction (option is canceled if Member is predeceased by beneficiary.

Benefit Increases:

Benefits are increased 2.0% annually beginning on the January 1 or July 1 if the Member has been receiving benefits for at least 12 months. Beneficiaries are entitled to the same 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.

Members retired under laws in effect before May 1, 1974 and before any adjustment under Laws 1987, Chapter 372, receive an additional lump sum payment each year. In 1989, this lump sum payment is the greater of \$25 times

each full year of Teaching Service and the sum of the benefits paid from any Minnesota public pension plan plus cash payments from the Social Security Administration for the preceding fiscal year July 1, 1988 through June 30, 1989. In each following year the lump sum will increase by the same increase that is applied to regular annuities. Effective January 1, 2002, annual lump sum payment is divided by 12 and paid as monthly life annuity in the annuity form elected.

DISABILITY

Disability Benefit:

Eligibility: Total and permanent disability with 3 years of Teaching

Service.

Amount: An annuity based on the continued accumulation of

Member and city contributions at the current rate for a period of 15 years (but not beyond age 65) plus an additional benefit equal to the smaller of 100% of the annuity provided by city contributions only or \$150 per month. A Member with 20 years of Teaching Service also

receives an additional \$7.50 per month.

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.

DEATH A choice of Benefit A, Benefit B, or Benefit C.

Benefit A:

Eligibility: Death before retirement.

Amount: The accumulation of Member and city contributions plus

5% interest if death occurred before May 16, 1989, or 6% interest if death occurred on or after May 16, 1989. Paid as a life annuity, 15 year certain and life, or lump sum. If an

annuity is chosen the beneficiary also receives additional benefits.

Benefit B:

Eligibility: An active Member with 7 years of Teaching Service. A

former Member age 60 with 7 years of Teaching Service who dies before retirement or disability benefits begin.

Amount: The actuarial equivalent of any benefits the Member could

have received if he had resigned on the date of death. Paid to the beneficiary in the form of a life annuity or a 15 year

certain and life annuity.

Benefit C:

Eligibility: An active Member who dies and leaves surviving children.

Amount: A monthly benefit of \$248.30 to the surviving widow while

caring for a child and an additional \$248.30 per month for each surviving dependent child. The maximum family benefit is \$579.30 per month. These benefits may be

increased by the Board of Trustees.

Benefits to the widow cease upon death or when no longer caring for an eligible child. Benefits for dependent children

cease upon marriage or age 18 (age 22 if a full time

student).

Benefit Increases: Same as retirement.

TERMINATION

Deferred Annuity:

Eligibility: 7 years of Teaching 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.

In addition, the interest earned on the Member and city contributions between termination and age 60 can be applied to provide an additional annuity.

Refund of Contributions:

Eligibility:

Termination of teaching service.

Amount:

Member's contributions with 6.00% interest. A deferred annuity may be elected in lieu of a refund.

Minneapolis 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	25-29	<u>30+</u>	ALL	
<25	117	38	0	0	0	0	0	0	155	
25-29	214	467	49	0	0	0	0	0	730	
30-34	120	327	337	5	0	0	0	0	789	
35-39	52	196	296	95	15	0		0	654	
40-44	138	208	253	124	113	8	1	0	845	
45-49	54	217	246	150	102	21	0	0	790	
50-54 55-59	62 26	110 61	229 127	134 83	91 59	34 13	1 2	0	661 371	
60-64	15	30	41	33	32	9	0	2	162	
65+	6	4	11	16	4	1		0	42	
ALL	804	1,658	1,589	640	416	86	4	2	5,199	
			AVERA	AGE ANN	UAL EAR	<u>NINGS</u>				
					ars of Serv					
<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	11,611	23,545	0	0	0	0	0	0	14,537	
25-29	15,916	29,211	36,154	0		0	0	0	25,780	
30-34	16,563	33,118	40,853	52,414	0	0	0	0	34,026	
35-39	19,813	37,297	45,951	49,877	55,619	0		0	42,071	
40-44	17,096	32,855	46,792	53,997	58,724	49,326	38,047	0	41,178	
45-49	20,412	36,991	47,662	57,247	61,555	59,277	0	0	46,791	
50-54	17,232	38,081	48,536	59,404	63,249	67,583	59,241	0	49,085	
55-59	19,421	32,992	49,920	57,206	63,857	64,304	96,723	0	49,602	
60-64	22,065	- 35,764	43,123	56,166	66,113	67,154	0	66,757	48,635	
65+	11,320	16,183	31,162	38,433	58,826	69,015	0	0	33,207	
ALL	16,438	33,098	45,481	55,406	61,593	63,333	72,684	66,757	39,875	
		von ====		• . • • • • • • •						
A ~~					•	-	SY YEARS			
<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>	
All	13,216	54,877	72,269	35,460	25,623	5,447	291	134	207,310	

Minneapolis Teachers' Retirement Fund

SERVICE RETIREMENTS AS OF JUNE 30, 2001

_				Years I	Retired			
<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	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	. 0
55-59	6	15	4	0	0	0	0	25
60-64	5	30	9	0	0	0	0	44
65-69	1	22	12	1	0	0	0	36
70-74	0	9	13	4	0	0	0	26
75-79	0	1	1	0	0	0	Ó	2
80-84	0	0	0	0	0	0	0	0
85+	0	0	0	0	0	0	0	0
ALL	12	77	39	5	0	0	0	133

AVERAGE ANNUAL BENEFIT

				Years I	Retired			
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	<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	5,315	7,430	8,028	0	0	0	0	7,018
60-64	8,728	9,434	8,793	0	0	0	0	9,223
65-69	3,040	9,673	8,430	4,704	0	0	0	8,936
70-74	0	10,891	6,573	5,124	0	0	0	7,845
75-79	0	5,663	2,798	0	0	0	0	4,231
80-84	0	0	0	0	0	0	0	0
85+	0	0	0	0	0	0	0	0
ALL	6,548	9,233	7,709	5,040	0	0	0	8,386

_		TOTAL AN	NUAL BEN	EFII (IN I	HOUSAND	S) BY YEAR	2 KETIKED	
Age _	<u><1</u>	1-4	<u>5-9</u>	10-14	<u>15-19</u>	20-24	<u>25+</u>	ALL
All	78	710	300	25	0	0	. 0	1.115

Minneapolis Teachers' Retirement Fund

DISABILITY RETIREMENTS AS OF JUNE 30, 2001

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

AVERAGE ANNUAL BENEFIT

				Years D	isabled			
<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	8,597	9,535	0	0	0	0	0	9,066
55-59	0	0	0	0	0	0	0	0
60-64	0	0	8,899	0	0	0	0	8,899
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	8,597	9,535	8,899	0	0	0	0	9,010

		TOTAL AN	NUAL BEN	EFIT (IN TH	IOUSANDS) BY YEARS	DISABLED	
Age	<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>
All	8	9	8	0	0	0	0	27

Minneapolis Teachers' Retirement Fund

SURVIVORS AS OF JUNE 30, 2001

				Years Sin	ce Death			
<u>Age</u>	<u>≤1</u>	1-4	<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	0	0	0	. 0	0	0	0	0
60-64	0	0	0	0	0	0	0	0
65-69	0	0	0	0	0	0	0	0
70-74	0	0	0	0	0	0	0	0
75-79	0	0	0	0	0	0	0	0
80-84	0	0	0	0	0	0	0	0
85+	0	0	. 0	0	0	0	0	0
ALL	0	0	0	0	0	0	0	0

AVERAGE ANNUAL BENEFIT

_				Years Sin	ce Death			
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>	<u>ALL</u>
<50	0	0	0	0	0	0	0	0
50-54	0	0	0	0	0	0	0	0
55-59	0	0	0	0	0	0 .	0	0
60-64	0	0	0	0	0	0	0	0
65-69	0	0	0	0	0	0	0	0
70-74	0	0	0	0	0	0	0	0
75-79	0	0	0	0	0	0	0	0
80-84	0	0	0	0	0	0	0	0
85+	0	0	0	0	0	0	0	0
ALL	0	0	0	0	0	0	0	0

_	T(OTAL ANN	JAL BENE	FIT (IN THO	DUSANDS) I	BY YEARS S	INCE DEAT	TH
<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>
All	0	0	0	0	0	0	0	0

Minneapolis Teachers' Retirement Fund Determination of Contribution Sufficiency

(dollars in thousands)

July 1, 2001

	Percent of		
	Payroll	Doll	ar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354A			
1. Employee Contributions	5.50%	\$	12,320
2. Employer Contributions	8.14%		18,234
3. Supplemental Contribution *			
a. 1993 Legislation	1.87%		4,178
b. 1996 Legislation	1.23%		2,749
c. 1997 Legislation	4.83%		10,830
4. Administrative Expense Assessment	0.00%		-
5. Total	21.57%	\$	48,311
B. REQUIRED CONTRIBUTIONS - CHAPTER 356			
1. Normal Cost	7 (10)	•	
a. Retirement Benefits	7.61%	\$	17,043
b. Disability Benefits	0.55%		1,225
c. Surviving Spouse and Child Benefits	0.18%		397
d. Deferred Retirements	0.61%		1,367
e. Refund Liability Due to Death or Withdrawal	0.24%		540
f. Total	9.19%	\$	20,572
Projected Annual Payroll for Fiscal Year Beginning on the Valuation D	ate:	\$	224,001

^{*} Includes contributions from School District #1, the City of Minneapolis, and matching State contributions.

COORDINATED

Minneapolis Teachers' Retirement Fund Summary of Plan Provisions

GENERAL

Eligibility: A teacher who is employed by the Board of Education of

Special School District No. 1 and who is covered by the Social Security Act. Certain part-time licensed employees are covered as well as employees of the Minneapolis Teachers Retirement Fund (unless they belong to the

Minneapolis Employees Retirement Fund).

Contributions: Member: 5.50% of Salary. Employer: 8.14% of Salary.

• •

Allowable Service: A year is earned during a school year if the Member is

employed in a covered position and employee contributions are deducted. May also include certain part-time service, extended leaves of absence, sabbatical leaves, and military

service.

Salary: Total compensation. Excludes lump sum payments for

unused vacation leave or unused sick leave at separation.

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

Average Salary is based on all Allowable Service if 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 later than age 66) and 3 years of Allowable Service. Proportionate Retirement

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 the age eligible for Normal Retirement benefits at 3.00% per year and actuarial reduction for each month the Member is under the Normal Retirement Age.

Form of Payment:

Life annuity. Actuarial equivalent options are:

- Guaranteed refund
- 10 or 15 year certain and life

• 50%, 75%, or 100% joint and survivor with bounce back feature without additional reduction (option is canceled if Member is predeceased by beneficiary).

Benefit Increases:

Benefits are increased 2.0% annually beginning on the January 1 or July 1 if the Member has been receiving benefits for at least 12 months. 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: Total and permanent disability before the 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 the normal retirement age. Benefit

is reduced by Workers' Compensation.

Payments are recomputed as a retirement 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:

Amount:

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, if age 50 with 3 years of Allowable Service or any age with 30 years of Allowable Service. If the former Member dies prior to age 55 benefits are deferred to age 55.

are deferred to a

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.

Benefit Increases:

Same as for retirement.

Refund of Contributions:

Eligibility:

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

Amount:

Member's contributions with 6.00% interest.

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 6.00% interest. A deferred

annuity may be elected in lieu of a refund.

Minneapolis Teachers' Retirement Fund Schedule of Funding Progress

(dollars in thousands)

July 1, 2001

					Actual	
Ì					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	\$ 424,677	\$ 826,574	\$ 401,897	51.38%	\$ 119,065	337.54%
07/01/92	457,978	840,840	382,862	54.47%	136,870	279.73%
07/01/93	501,741	878,693	376,952	57.10%	135,505	278.18%
07/01/94	514,138	920,470	406,332	55.86%	155,671	261.02%
07/01/95	554,960	983,249	428,289	56.44%	163,824	261.43%
07/01/96	612,852	1,055,063	442,211	58.09%	171,060	258.51%
07/01/97	673,209	1,173,412	500,203	57.37%	185,229	270.05%
07/01/98	809,978	1,267,424	457,446	63.91%	199,376	229.44%
07/01/99	939,459	1,394,357	454,898	67.38%	230,189	197.62%
07/01/00	1,027,633	1,544,358	516,725	66.54%	242,072	213.46%
07/01/01	1,061,983	1,610,364	548,381	65.95%	254,100	215.81%

Minneapolis 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	30.40%	\$ 119,065	\$ 9,337	\$ 26,859	\$ 12,358	46.01%
1992	30.55%	136,870	10,307	31,507	13,638	43.29%
1993	27.43%	135,505	10,713	26,456	13,711	51.83%
1994	25.83%	155,671	11,507	28,703	16,355	56.98%
1995	25.03%	163,824	10,470	30,535	21,194	69.41%
1996	25.18%	171,060	11,294	31,779	23,085	72.64%
1997	25.15%	185,229	11,697	34,888	24,021	68.85%
1998	28.23%	199,376	13,852	42,432	43,640	102.85%
1999	25.80%	230,189	14,935	44,464	40,476	91.03%
2000	23.88%	242,072	16,169	41,638	42,556	102.21%
2001	25.25%	254,100	16,321	47,839	42,904	89.68%

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