Bloomington Fire Department Relief Association <u>REVISED</u> ACTUARIAL VALUATION REPORT

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January 1, 2002



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A MILLIMAN GLOBAL FIRM



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February 26, 2002

Bloomington Fire Department Relief Association 10 West 95th Street Bloomington, MN 55420

re: REVISED Actuarial Valuation Report as of January 1, 2002 Bloomington Fire Department Relief Association Pension Fund

Dear Board Members:

We have performed an actuarial valuation of the Bloomington Fire Department Relief Association Pension Fund as of January 1, 2002.

The results of our calculations are set forth in the following REVISED report, as are the actuarial assumptions upon which our calculations have been made. We have relied on the basic employee data as submitted by the Bloomington Fire Department Relief Association, and asset figures as submitted by Union Bank and Trust Company and Ms. Sharon North. We have reviewed the submitted data for reasonableness and consistency with prior years' information but we have not audited the data. To the extent that actual data varies from the submitted data, plan liabilities and results will also vary from those show in this report.

This report has been revised to reflect corrected plan provisions as recently reported to our office.

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, Minnesota Statutes, and the requirements of the Standards of Actuarial Work.

Respectfully submitted,

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Lance M. Burma, FSA, MAAA, EA Consulting Actuary

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Bloomington Fire Department Association Report Highlights

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	Ja	nuary 1, 2001 Valuation	Ja	nuary 1, 2002 Valuation
A. CONTRIBUTIONS % OF PAYROLL (Table 11)				
1. Statutory Contributions - Chapter 354A		1.17%		0.91%
2. Required Contributions - Chapter 356		(5.66%)		13.24%
3. Sufficiency / (Deficiency)		6.83%		(12.34%)
B. FUNDING RATIOS				
1. Accrued Benefit Funding Ratio				
a. Current Assets (Table 1)	\$	103,718,180	\$	93,960,664
b. Current Benefit Obligations (Table 8)		73,781,969		78,130,209
c. Funding Ratio		140.57%		120.26%
2. Accrued Liability Funding Ratio				
a. Current Assets (Table 1)	\$	103,718,180	\$	93,960,664
b. Actuarial Accrued Liability (Table 9)		71,967,391		76,035,748
c. Funding Ratio		144.12%		123.57%
3. Projected Benefit Funding Ratio (Table 8)				
a. Current and Expected Future Assets	\$	132,514,995	\$	126,282,950
b. Current and Expected Future Benefit Obligations	<u> </u>	100,764,206		108,358,034
c. Funding Ratio		131.51%		116.54%
C. PLAN PARTICIPANTS				
1. Active Members				
a. Number (Table 3)		150		160
b. Projected Annual Earnings	\$	8,262,000	\$	9,329,280
c. Average Annual Earnings (Actual dollars)	\$	55,080	\$	58,308
d. Average Age		36.1		36.1
e. Average Service		8.6		8.5
f. Additional Members on Leave of Absence		-		-
2. Others				
a. Service Retirements (Table 4)		106		110
b. Disability Retirements (Table 5)		9		10
c. Survivors (Table 6)		14		13
d. Deferred Retirements (Table 7)		12		11
e. Terminated Other Non-Vested (Table 7)		-		-
f. Total		141		144

Bloomington Fire Department Relief Association Commentary

Purpose

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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 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 120.26%. The corresponding ratio for the prior year was 140.57%.

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 2002 the ratio is 123.57%, which is a decrease from the 2001 value of 144.12%.

The Projected Benefit Funding Ratio is a measure of the adequacy or deficiency in the contribution level. This year's ratio of 116.54% shows that the current statutory contributions are sufficient in the long run.

Asset Information (Tables 1 and 2)

The Actuarial Value of Assets is determined as the market value of the Special Fund as of December 31, 2001 less liabilities payable as of December 31, 2001. The calculation of the Actuarial Value of Assets is shown in Table 1 on lines F.1 to F.4.

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.

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 as a level dollar amount determined on a rolling thirty year period.

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 (the Fund is allowed a credit toward Required Contributions equal to 10 % of the Unfunded Actuarial Accrued Liability if it is negative).

An Allowance for Expenses.

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Table 11 shows the Fund has a current year contribution deficiency since the Statutory Contribution Rate is 0.91% compared to the Required Contribution Rate of 13.24%.

GASB Disclosure Information (Tables 14 and 15)

Disclosure under GASB Statement No. 27 became effective beginning with 1997 Fiscal Year end. Required disclosure items are included in Tables 14 and 15.

Changes in Actuarial Assumptions

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

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All plan provisions are the same as those used in the prior valuation except for the following change:

\$144 Member Contributions have been eliminated.

. Table 13 contains a summary of current plan benefits.

Bloomington Fire Department Association Accounting Balance Sheet

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January 1, 2002

	Market Value			Cost Value
A. ASSETS				
1. Cash, Equivalents, Short-Term Securities	\$	3,076	\$	3,076
2. Investments				-
a. Fixed Income		-		-
b. Equity		-		-
c. Real Estate		-		-
3. Other Assets		94,146,666		79,859,012
B. TOTAL ASSETS	\$	94,149,742	\$	79,862,088
C. AMOUNTS CURRENTLY PAYABLE	\$	(189,078)	\$	(189,078)
D. ASSETS AVAILABLE FOR BENEFITS				
1. Total Assets	\$	94,149,742	\$	79,862,088
2. Unrestricted Fund Balance		-		-
3. Total Assets Available for Benefits		94,149,742	\$	79,862,088
E. TOTAL AMOUNTS CURRENTLY PAYABLE AND				
ASSETS AVAILABLE FOR BENEFITS	\$	93,960,664	\$	79,673,010
F. DETERMINATION OF ACTUARIAL VALUE OF ASSETS				
1. Market Value of Assets Available for Benefits (D.3)	\$	94,149,742		
 Market Value of Assets Available for Benefits (D.5) Amounts Currently Payable (C) 	Φ	(189,078)		
 Amounts Currently Payable (C) Market less Amounts Currently Payable (F.1 + F.2) 	\$	93,960,664		
4. Actuarial Value of Assets (F.3)		93,960,664		

Bloomington Fire Department Association Change In Assets Available for Benefits

December 31, 2001

		Market Value	Cost Value
A. ASSETS AVAILABLE AT BEGINNING OF PERIOD	\$	103,718,180 \$	78,771,644
B. OPERATING REVENUES			
1. Member Contributions	\$	- \$	-
2. State of Minnesota Contributions		363,938	363,938
3. City of Bloomington Contributions		-	-
4. Investment Income		2,500,091	2,500,091
5. Investment Expenses		(182,228)	(182,228)
6. Net Realized Gain / (Loss)		-	-
7. Other		-	-
8. Net Change in Unrealized Gain / (Loss)		(10,481,590)	-
9. Total Operating Revenue	\$	(7,799,789) \$	2,681,801
C. OPERATING EXPENSES			
1. Service Retirements	\$	(2,248,525) \$	(2,248,525)
Disability Benefits*		-	-
3. Survivor Benefits*		-	-
4. Refunds		-	-
5. Administrative Expenses		(79,303)	(79,303)
6. Total Operating Expenses	\$	(2,327,828) \$	(2,327,828)
D. OTHER CHANGES IN RESERVES	\$	370,101 \$	547,393
E. ASSETS AVAILABLE AT END OF PERIOD	\$	93,960,664 \$	5 79,673,010

*Included in Item (C.1)

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Bloomington Fire Department Relief Association

TABLE 3A

Active Members as of December 31, 2001

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Participant Count YEARS OF SERVICE									
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	<u>10-14</u>	15-19	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	TOTAL
<20	-	-	-	-	-	-	-	-	-
20-24	-	7	-	-	-	-	-	-	7
25-29	-	25	3	1	-	-	-	-	29
30-34	-	17	9	8	-	-	-	-	34
35-39	-	11	10	14	4	-	-	-	39
40-44	-	7	5	7	4	-	1	-	24
45-49	-	-	3	7	10	-	-	-	20
50-54	-	-	-	1	3	-	1	-	5
55-59	-	-	-	-	2	-	-	-	2
60-64	-	-	-	-	-	-	-	-	-
65+	-	-	-	-	-	-	-	-	-
All	-	67	30	38	23	-	2	-	160

TABLE 3B

Deferred Vested Members as of December 31, 2001

				1 ai ticip		r.			
YEARS OF RETIREMENT									
Age –	<1	<u>1-4</u>	<u>5-9</u>	10-14	15-19	<u>20-24</u>	<u>25-29</u>	<u>30+</u>	<u>TOTAL</u>
<50	8	-	-	-	-	-	-	-	8
50-54	3	-	-	-	-	-	-	-	3
55-59	-	-	-	-	-	-	-	-	-
60-64	-	-	-	-	-	-	-	-	-
65-69	-	-	-	-	-	-	-	-	-
70-74	-	-	-	-	-	-	-	-	-
75-79	-	-	-	-	-	-	-	-	-
80-84	-	-	-	-	-	-	-	-	-
85+	-	-	-	-	-	-	-	-	-
All	11	-	_	-	-	-	-	-	11

Participant Count

TABLE 4

TABLE 5

TABLE 6

Retired Members as of December 31, 2001

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Participant Count YEARS OF RETIREMENT									
Age –	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	<u>TOTAL</u>
<50	-	1	1	-	-	-	1	-	3
50-54	2	8	1	-	-	-	-	-	11
55-59	1	3	20	-	-	-	-	-	24
60-64	-	1	-	28	-	2	-	2	33
65-69	-	-	-	1	10	-	-	4	15
70-74	-	-	-	-	1	10	-	-	11
75-79	-	-	-	-	1	3	2	-	6
80-84	-	-	-	-	-	-	-	5	5
85+	-	-	-	-	-	-	-	2	2
All	3	13	22	29	12	15	3	13	110

Disabled Members as of December 31, 2001

Participant Count YEARS OF RETIREMENT 25-29 TOTAL Age <u><1</u> <u>1-4</u> <u>5-9</u> 10-14 <u>15-19</u> 20-24 <u>30+</u> <50 1 3 2 6 -----50-54 2 1 3 ------55-59 1 --_ 1 ---_ 60-64 --------65-69 -_ ----_ 70-74 -----_ 75-79 -• _ ----_ _ 80-84 -------+ + 85+ -. -_ -----All 1 5 4 10 -----

Survivor Members as of December 31, 2001

Participant Count YEARS OF RETIREMENT									
Age	<u><1</u>	<u>1-4</u>	<u>5-9</u>	10-14	15-19	20-24	25-29	<u>30+</u>	<u>TOTAL</u>
<50	-	-	-	-	-	-	-	-	-
50-54	-	1	-	-	-	-	-	-	1
55-59	-	-	-	-	-	-	-	-	-
60-64	-	-	1	-	1	-	-	-	2
65-69	-	1	-	-	-	1	-	-	2
70-74	-	-	-	-	-	1	-	-	1
75-79	-	-	-	-	-	-	-	-	-
80-84	-	-	-	-	-	-	-	4	4
85+	-	-	-	-	-	1	_ '	2	3
Alí	-	2	1		1 - 8 -	3	-	6	13

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Bloomington Fire Department Relief Association *Reconciliation of Members*

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		Term	ninated
		Deferred	Other
	Actives	Retirement	Non-Vested
A. ON JANUARY 1, 2001	150	12	·
B. ADDITIONS	18		
C. DELETIONS			
1 Service Retirement	(2)	(2)	
2 Disability	(1)		
3 Death – Survivor			
4 Death – Other			
5 Terminated – Deferred	(1)	1	
6 Terminated – Refund			
7 Terminated - Other Non-Vested	(4)		
8 Leave of Absence			
9 Returned as Active			
D. DATA ADJUSTMENTS			
Vested	160	11	
Non-Vested	-		
E. TOTAL ON DECEMBER 31, 2001	160		
	Recip	pients	
	Retirement		
	Annuitants	Disabled	Survivors
A. ON JANUARY 1, 2001	106	9	14
B. ADDITIONS	4	1	
C. DELETIONS			
1 Service Retirement			
2 Death			(1)
3 Annuity Expired			
4 Returned as Active			
D. DATA ADJUSTMENTS			
E. TOTAL ON DECEMBER 31, 2001	110	10	13

Bloomington Fire Department Association Actuarial Balance Sheet

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January 1, 2002

A. CURRENT ASSETS (Table 1; Line F.4)	\$	93,960,664
 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 	\$	32,322,286 32,322,286
C. TOTAL CURRENT AND EXPECTED FUTURE ASSETS	<u>\$ 1</u>	26,282,950

D. CURRENT BENEFIT OBLIGATIONS	Non-Vested Vested		Vested	Total	
1. Benefit Recipients					
a. Retirement Annuities		\$	39,217,897	\$	39,217,897
b. Disability Benefits			3,428,257		3,428,257
c. Surviving Spouse and Child Benefits			2,215,852		2,215,852
2. Deferred Retirements			5,088,011		5,088,011
3. Former Members Without Vested Rights			-		-
4. Active Members					
a. Retirement Annuities	\$ 22,091,02	5	927,330		23,018,355
b. Disability Benefits	4,026,19	2	-		4,026,192
c. Surviving Spouse and Child Benefits	843,66	1	-		843,661
d. Deferred Retirements	282,63	5	9,349		291,984
e. Refund Liability Due to Death or Withdrawal					-
5. Total Current Benefit Obligations	\$ 27,243,51	3 \$	50,886,696	\$	78,130,209
E. EXPECTED FUTURE BENEFIT OBLIGATIONS				\$	30,227,825
F. TOTAL CURRENT AND EXPECTED FUTURE BENEFIT OBLIGATIONS					108,358,034
G. CURRENT UNFUNDED ACTUARIAL LIABILITY (D.5 - A)				\$	(15,830,455)
H. CURRENT AND FUTURE UNFUNDED ACTUARIAL LIABILITY (F - C)					(17,924,916)

Bloomington Fire Department Association Determination of Unfunded Actuarial Accrued Liability (UAAL) and Supplemental Contribution Rate

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January 1, 2002

		Actuarial resent Value of Projected Benefits		Actuarial resent Value of Future ormal Costs		Actuarial Accrued Liability
 A. DETERMINATION OF ACTUARIAL ACCRUED LIABILITY (AAL) 1. Active Members a. Retirement Benefits b. Disability Benefits c. Surviving Spouse and Child Benefits 	\$	47,329,849 8,696,647 1,771,658	\$	24,401,149 6,268,609 1,301,197	\$	22,928,700 2,428,038 470,461
d. Deferred Retirements		609,863		351,331		258,532
e. Refund Liability Due to Death or Withdrawal f. Total	\$	58,408,017	\$	32,322,286	\$	26,085,731
2. Deferred Retirements	\$	5,088,011	Ψ	52,522,200	\$	5,088,011
3. Former Members Without Vested Rights	•				•	-
4. Annuitants in MPRIF		-				-
5. Annuitants Not in MPRIF		44,862,006				44,862,006
6. Total	\$	108,358,034	\$	32,322,286	\$	76,035,748
 B. DETERMINATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL) 1. Actuarial Accrued Liability (A.6) 2. Current Assets (Table 1; Line F.4) 3. Unfunded Actuarial Accrued Liability (B.1 - B.2) 			\$	76,035,748 93,960,664 (17,924,916)		
 C. DETERMINATION OF SUPPLEMENTAL CONTRIBUTION RATE 30 Year Level Dollar Amortization Factor Supplemental Contribution (B.3 / C.1), but not less than 0 Supplemental Credit for Surplus Assets (10% * B.3) Projected Annual Payroll for Fiscal Year Beginning on the Valuation Date: Supplemental Contribution Rate (C.3 / C.4) 			\$ \$ \$	16.140 - (1,792,492) 9,329,280 (19.21%)		

Bloomington Fire Department Association Changes in Unfunded Actuarial Accrued Liability (UAAL)

December 31, 2001

A. UAAL AT BEGINNING OF YEAR	\$ (31,750,789)
B. CHANGE DUE TO INTEREST REQUIREMENTS AND CURRENT RATE OF FUNDING	
1. Normal Cost and Expenses	\$ 2,707,686
2. Contributions	(363,938)
3. Interest	(1,461,254)
4. Total	\$ 882,494
C. EXPECTED UAAL AT END OF YEAR (A + B.4)	\$ (30,868,295)
D. INCREASE / (DECREASE) DUE TO ACTUARIAL LOSSES / (GAINS) BECAUSE OF EXPERIENCE DEVIATIONS FROM EXPECTED	
1. Age and Service Retirements	\$ -
2. Disability Retirements *	-
3. Death-in-Service Benefits *	-
4. Withdrawal *	-
5. Salary Increases	581,681
6. Contribution Income **	-
7. Investment Income	12,930,438
8. Mortality of Annuitants	972,685
9. Other Items	 (1,541,425)
10. Total	\$ 12,943,379
E. UAAL AT END OF YEAR BEFORE PLAN AMENDMENTS AND CHANGES IN ACTUARIAL ASSUMPTIONS (C + D.5)	\$ (17,924,916)
F. CHANGE IN UAAL DUE TO PLAN AMENDMENTS	-
G. CHANGE IN UAAL DUE TO CHANGES IN ACTUARIAL ASSUMPTIONS	
H. UAAL AT END OF YEAR $(E + F + G)$	\$ (17,924,916)
* Included in Item D 1	

* Included in Item D.1.** Included in Item D.7.

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Bloomington Fire Department Association Determination of Contribution Sufficiency

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January 1, 2002

	Percent of Payroll	Do	llar Amount
A. STATUTORY CONTRIBUTIONS - CHAPTER 354			
1. Employee Contributions	-	\$	-
2. State of Minnesota Contributions	-		-
3. City of Bloomington Contributions	-		-
4. Administrative Expense	0.91%		84,590
5. Total	0.91%	\$	84,590
 B. REQUIRED CONTRIBUTIONS - CHAPTER 356 1. Normal Cost a. Retirement Benefits b. Disability Benefits c. Surviving Spouse and Child Benefits d. Deferred Retirements e. Refund Liability Due to Death or Withdrawal 	23.76% 6.21% 1.30% 0.28%	\$	2,216,721 579,212 121,494 25,824
f. Total	31.55%	\$	2,943,251
2. Supplemental Contribution Amortization	(19.21%)	¥	(1,792,492)
3. Allowance for Administrative Expenses	0.91%		84,590
4. Total	13.24%	\$	1,235,349
C. CONTRIBUTION SUFFICIENCY / (DEFICIENCY) (A.5 - B.4)	(12.34%)		(1,150,759)
Projected Annual Payroll for Fiscal Year Beginning on the Valuation Da	ate:	\$	9,329,280

Bloomington Fire Department Relief Association Summary of Actuarial Assumptions and Methods

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Interest:	5.00% per annum	
Mortality:	Pre-Retirement: Male -	1971 Group Annuity Mortality Table, without margins, projected to 1976 by Scale E.
	Female -	1971 Group Annuity Mortality Table, without margins, projected to 1976 by Scale E set back 7 years.
	Post-Retirement: Male - Female -	same as above. same as above.
	Post-Disability: Male - Female -	same as above. same as above.
Retirement Age:	Members are assumed Years of Service.	to retire after attaining age 50 and completing 20
Separation:	Graded rates shown in	the rate table.
Disability:	Graded rates shown in	the rate table.
Social Security:	N/A	
Salary Increases:	3.5% per annum.	
COLA Increases:	3.5% per annum.	
Actuarial Cost Method:	level percentage of ear	ost Method with normal costs expressed as rnings from each Members date of joining the mbers assumed retirement age.
Asset Valuation Method:	Company. Cash and c	ed funds are reported by Union Bank and Trust hecking accounts are reported by the Plan's erating revenue as shown on line item B.7 of Table cing amount.
Employee Contributions:	None.	
City of Bloomington Contributions:	None	
State of Minnesota		

Contributions:	2% of the Fire and Casualty paid by the City of Bloomington				
Payment on the Unfunded Accrued Liability:	Any changes in the Unfunde amortized as level dollar am	ed Accrued Liability are ount over a new 30 year period.			
Administrative Expenses:		Prior year administrative expenses (excluding investment expenses) expressed as a level amount per participant.			
Family Composition:	100% of Members are assum assumed to be three years ye	ned to be married. Female is ounger than male.			
	Duty-related death benefits a dependent child survivor ber	are increased by 10% for estimated nefit.			
Form of Payment:	75% Joint and Survivor Ann	uity, Life Annuity if single.			
Missing Data:	The submitted participant data has been reviewed for reasonablenes constancy with data submitted for prior valuations. We have not au 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:	Equal to one-third of current year average indexed earnings. Current rate is \$1,561.00 / month.			
	Salary:	Each Member is assumed to earn the same as Bloomington Policemen.			
		Estimated Historical Levels:			
		2002 58,308			
		2001 56,340*			
		2000 53,724			
		1999 53,736			
		1998 49,464			
*Davised from January 1 20	01 report				

*Revised from January 1, 2001 report.

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Bloomington Fire Department Relief Association Summary of Actuarial Assumptions and Methods (continued)

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Separations Expressed as the Number of Occurrences per 10,000

Age	Male	<u>Death</u> Female	<u>Withdrawal</u>	<u>Disability</u>	<u>Retirement</u>
20	5	4	300	24	0
21	5	4	290	24	0
22	5	4	280	24	0
23	5	4	270	24	0
24	6	4	260	24	0
25	6	5	250	24	0
26	6	5	240	24	0
27	7	5	230	24	0
28	7	5	220	24	0
29	7	5	210	24	0
30	8	5	200	24	0
31	8	6	190	24	0
32	9	6	180	24	0
33	9	6	170	24	0
34	10	7	160	26	0
35	11	7	150	30	0
36	12	7	140	34	0
37	13	8	130	40	0
38	14	8	120	46	0
39	15	9	110	52	0
40	16	9	100	58	0
41	17	10	90	64	0
42	19	11	80	74	0
43	22	12	70	84	0
44	25	13	60	96	0
45	28	14	50	110	0
46	32	15	40	128	0
47	36	16	30	142	0
48	41	17	20	158	0
49	46	19	10	174	0
50	-	-	-	-	10,000

Bloomington Fire Department Relief Association Summary of Plan Provisions

GENERAL

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Eligibility:	Members in good and regular standing of the Bloomington Fire Department Relief Association, and who have actively served as fire fighters in the Bloomington Fire Department for at least one month.
Membership Dues:	None.
Index Salary:	The average of the monthly salary for the preceding three years, including the current year of a patrol officer of the highest grade in the employ of the city of Bloomington.
Basic Benefit:	One third of the index salary. All benefits under the plan increase each time a pay increase is granted to the Bloomington Police Department.
RETIREMENT	
Normal Retirement Benefit:	
Eligibility:	Age 50 with 20 years of Service.
Amount:	Basic Benefit
Form of Payment:	75% Joint and Survivor if married, Life Annuity if single.
Disability Benefit:	
Eligibility:	Inability to perform the duties of a firefighter.
Duty Related Amount:	Basic benefit is payable at time of disability. This benefit is payable during the period of disability. After attainment of age 50, no evidence of disability is required for the benefit to continue.
Non-Duty Related	
Amount:	The basic benefit is multiplied by 5% for each year of service up to the date of disability (maximum 20 years). This benefit is payable during the period of disability. After attainment of age 50, no evidence of disability is required for the benefit to continue.
Form of Payment:	Same as for retirement.

Bloomington Fire Department Relief Association Summary of Plan Provisions (continued)

DEATH

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	Spouse's Benefit	
	Duty-Related Amount:	75% of the basic benefit is payable for his or her remaining lifetime. Benefits cease on remarriage of the surviving spouse.
	Non-Duty Related Amount:	75% of the basic benefit multiplied by 5% for each year of service up to the date of death to a maximum of 20 years. This benefit is payable for his or her remaining lifetime. Benefits cease on remarriage of the surviving spouse.
	Childrens' Benefit:	
	Eligibility:	An active Member who dies and leaves surviving children.
	Amount:	12% of the basic benefit is payable to each surviving child until attainment of age 18 or marriage. The maximum benefit paid to all family members will not exceed 100% of the basic benefit.
	Lump Sum Death Benefit:	\$500 is payable on the death of any active or inactive member:
TERM	<i>IINATION</i>	
	Eligibility:	20 years of Service.

Amount:	The basic benefit is payable at age 50.

Bloomington Fire Department Association Schedule of Funding Progress

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January	1,	2002
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Actuarial					Actual Covered	
Valuation	Actuarial Value of	Actuarial Accrued	Unfunded AAL	Funded	Payroll	UAAL as % of
Date	Assets	Liability	(UAAL)	Ratio	(Previous FY)	Covered Payroll
	(A)	(B)	(B)-(A)	(A)/(B)	(C)	((B)-(A))/(C)
01/01/95	53,669,100	50,359,800	(3,309,300)	106.57%	6,563,700	(50.42%)
01/01/96	66,622,700	56,410,500	(10,212,200)	118.10%	6,945,936	(147.02%)
01/01/97	74,763,000	58,807,600	(15,955,400)	127.13%	6,620,388	(241.00%)
01/01/98	87,829,787	59,322,179	(28,507,608)	148.06%	7,122,960	(400.22%)
01/01/99	98,908,878	64,855,595	(34,053,283)	152.51%	7,523,040	(452.65%)
01/01/00	110,084,568	66,819,827	(43,264,741)	164.75%	7,197,420	(601.11%)
01/01/01	103,718,180	71,967,391	(31,750,789)	144.12%	8,262,000	(384.30%)
01/01/02	93,960,664	76,035,748	(17,924,916)	123.57%	9,329,280	(192.14%)

Bloomington Fire Department Association Schedule of Employer Contributions

	Actuarially					
Year Ended	Required	Actual		Annual		
December	Contribution	Covered	Actual Member	Required	Actual Employer	Percentage
31	Rate	Payroll	Contributions	Contributions	Contributions*	Contributed
	(A)	(B)	(C)	[(A)*(B)]-(C)		
1995	22.82%	6,563,700	20,242	1,477,357	498,646	33.75%
1996	10.67%	6,945,936	20,573	720,327	1,599,062	221.99%
1997	1.80%	6,620,388	20,148	99,152	581,133	586.10%
1998	(6.35%)	7,122,960	20,592	(472,900)	568,433	(120.20%)
1999	(12.69%)	7,523,040	-	(954,674)	360,549	(37.77%)
2000	(26.55%)	7,197,420	-	(1,910,915)	370,100	(19.37%)
2001	(5.66%)	8,262,000	-	(467,629)	363,938	(77.83%)

January 1, 2002

*Includes contributions from other sources (if applicable)

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