Bloomington Fire Department Relief Association ACTUARIAL VALUATION REPORT

January 1, 1996



LCP & R MAR 1 8 1996

Bloomington Fire Department Relief Association Table of Contents

REPORT HIG	HLIGHTS
COMMENTAL	RY
Purpose and	Summary
Member Dat	ta2
Asset Inform	nation
GASB Discl	osure3
	ost Method3
v	Infunded Accrued Liability4
•	ntribution4
	sumptions4
Plan Provisio	ons4
ASSET INFOR	RMATION
Table 1 -	Changes in Actuarial Value of Assets
MEMBERSHI	P DATA
Table 2 -	Active Members7
Table 3 -	Inactive Members12
Table 4 -	Reconciliation of Members
FUNDING STA	ATUS
Table 5 -	Financial Disclosure Information17
Table 6 -	Determination of Unfunded Accrued Liability
Table 7 -	Changes in Unfunded Accrued Liability
Table 8 -	Determination of Required Contribution
ACTUARIAL	ASSUMPTIONS
Table 9 -	Summary of Actuarial Assumptions and Methods21
PLAN PROVIS	SIONS
Table 10-	Summary of Plan Provisions

Bloomington Fire Department Relief Association **Report Highlights**

			January 1, 1995 Valuation	January 1, 1996 Valuation
-		CONTRIBUTIONS - R 356		
1. Ar	nount	(payable at end of year)	\$ 1,497,500 *	\$ 740,900
2. Ar	nount	per Active Participant	\$ 10,472	\$ 5,006
B. ACCRI	JED I	LIABILITY FUNDING RATIO		
1. M a	arket '	Value of Special Fund	\$ 53,669,100	\$ 66,622,700
2. A	ccrue	d Liability	\$ 50,359,800 *	56,410,500
3. Fu	nding	; Ratio (1./2.)	106.57%	118.10%
C. PL	AN P.	ARTICIPANTS		
1.	Act	ive Members		
	а.	Number	143	148
	b.	Average Age	35.7	35.7
				8.7
	c.	Average Service	8.8	8.7
2.	c. Oth	ners		
2.		ners Retirees	83	
2.	Oth	ners Retirees Disableds		90 6
2.	Oth a.	ers Retirees Disableds Surviving Spouses	83	90
2.	Oth a. b.	Retirees Disableds Surviving Spouses Surviving Children	83 5	90 6
2.	Oth a. b. c.	ers Retirees Disableds Surviving Spouses	83 5 10	90 6 10

* Provided by the Wyatt Company.

Bloomington Fire Department Relief Association Commentary

Purpose and Summary

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 the Minnesota Statutes.

Our valuation indicates a required contribution of \$705,600 as of January 1, 1996. This amount must be increased at an annual rate of 5% until the date the contribution is made. If the contribution is made as late as December 31, 1996 the required contribution would equal \$740,900.

The required contribution decreased \$756,600 from the \$1,497,500 required for the plan year ending December 31, 1995. The decrease in required contribution is primarily due to the following:

- Investment earnings were 26.3% for 1995 compared to the assumed rate of 5.0%.
- The increase in the monthly basic benefit for valuation purposes was 2.9% compared to the assumed increase of 3.5%.

The Accrued Liability Funding Ratio is a measure of funding status and funding progress. It is based on the actuarial cost method used to determine required contributions. For 1996 the ratio is 118.10%, which is an increase from the 1995 value of 106.57%.

Member Data

Reported data for the January 1, 1996 valuation included the following members:

	Number
Actives	148
Terminated with Deferred Benefits	8
Retirees	90
Disableds	6
Surviving Spouses	10
Surviving Children	1
Total	263

Table 2 sets forth the projected benefit that each active member would receive if he continued as an active member until his normal retirement date, age 50 and completion of 20 years of service. The benefits shown in this table are projected assuming plan benefits increase 3.5% annually.

Table 3 sets forth the current benefit that each inactive member is currently receiving or is eligible to receive upon attainment of age 50. No increase in benefits is assumed for this listing.

Table 4 contains a reconciliation of member data from January 1, 1995 to January 1, 1996.

Monthly plan benefits are calculated based on the most recent three year average salary rates of the highest paid policeman, other than officers, of the city of Bloomington. Benefits paid by the plan increase whenever salary increases are granted. For valuation purposes benefits are assumed to equal their highest level during the calendar year. The following monthly benefit levels were assumed to be in effect for valuation purposes:

	January 1, 1995	January 1, 1996
Retirees	\$1,232	\$1,268
Surviving Spouses	924	951

Asset Information

The Actuarial Value of Assets was determined as the market value of the Special Fund as of December 31, 1995 less liabilities payable as of December 31, 1995. For valuation purposes assets are equal to \$66,622,653 (\$66,761,022 less \$138,369).

GASB Disclosure

The Governmental Accounting Standards Board (GASB) requires governmental plans to disclose certain information in their financial statements. Table 5 presents the information required to be disclosed by GASB Statement No. 5.

The projected benefit obligation equals the present value of all benefits earned based on current service but assuming future increases in benefit levels. The vested projected benefit obligation equals the projected benefit obligation for only those active members who have completed 20 years of service.

Actuarial Cost Method

The approach used by the Bloomington Fire Department Relief Association to determine required contributions is the Individual Entry Age Normal Cost Method. The primary characteristic of this method is that it allocates costs as a level of percentage of payroll.

Under this method, the normal cost is equal to the level percentage of pay that would fund each fireman's benefits if the same percentage of pay is contributed to the plan each year from the fireman's entry until he attains normal retirement age.

The accrued liability equals the present value of all benefits expected to be paid from the plan less the present value of all future normal costs for current active members.

The accrued liability is compared to the actuarial value of assets of the Special Fund to determine the plan's funded status. Currently the actuarial value of assets of the Special Fund exceeds the plan's accrued liability. The plan is allowed to recognized a credit against the minimum required contribution equal to 10 percent of this excess.

Any future changes in the plan's unfunded accrued liability are required to be amortized over a 30 year period.

Changes in Unfunded Accrued Liability

The assumptions used in making the calculations using the Entry Age Normal 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 deviations refer to Table 7.

Required Contribution

The Required Contribution, set forth in Chapter 356, consists of:

Normal Cost based on the Entry Age Normal Cost Method.

A Supplemental Contribution for amortizing any Unfunded Accrued Liability or a Credit for any Excess of Plan Assets over Accrued Liability.

An Allowance for Expenses.

Table 8 sets forth the determination of the Required Contribution for the Plan Year ending December 31, 1996.

Actuarial Assumptions

All actuarial assumptions are the same as those used in the prior valuation. Chapter 356 of Minnesota State Statues requires that the actuarial valuation be based on a assumed interest rate of 5% per annum and an assumed rate of salary increase of 3.5% per annum. All other assumptions are left to the discretion of the actuary. Table 9 contains a summary of actuarial assumptions and methods.

Plan Provisions

All Plan provisions are the same as those used in the prior valuation. Table 10 contains a summary of the principal provisions of the plan.

We certify that this actuarial valuation has been prepared in accordance with Chapter 356 of the Minnesota State Statutes as it applies to the Bloomington Fire Department Relief Association.

Donna M. Lundquist, FSA Actuary

mm Lance M. Burma, FSA **Consulting Actuary**

February 26, 1996

Bloomington Fire Department Relief Association Change in Actuarial Value of Assets

Year Ending December 31, 1995

А.	ACTUARIAL VALUE OF ASSETS AT BEGINNING OF PERIOD	\$	53,669,051
В.	OPERATING REVENUES		
	1. Membership Dues	\$	20,242
	2. Contributions from the City of Bloomington		267,134
	3. Contributions from the State of Minnesota		231,512
	4. Investment Income		774,285
	5. Net Realized Gain (Loss)		200,336
	6. Other		0
	7. Net Change in Unrealized Gain (Loss)		13,004,850
	8. Total Revenue	\$_	14,498,359
C.	OPERATING EXPENSES		
	1. Benefit Payments	\$	1,464,721
	2. Administrative Expenses		71,658
	3. Change in Liabilities Payable		8,378
	4. Total Disbursements	-	1,544,757
D.	ACTUARIAL VALUE OF ASSETS AT END OF PERIOD	\$_	66,622,653

Bloomington Fire Department Relief Association Projected Benefits for Active Members

NameBirth DateS Adelmann12/56W Ahman09/53D Allen07/73S Anderson10/51T Arbuckle02/60B Aske12/56J Baeten11/62J Barnes01/53D Batten08/64J Bayard02/60J Bell08/57L Bergquist11/42S Blodgetts10/43D Bujold08/57B Carlson06/70T Carlson10/66D Carney09/53T Cherep10/68P Collins04/54D Congdon05/38R Connolly12/68L Daly10/52D Delong07/54R Donnelly08/64M Doyle03/49	Entry Date 07/91 05/78 08/93 01/86 01/84 10/83 11/93 09/79 05/91 07/91	Annual Projected <u>Benefit</u> 22,215 20,037 39,869 18,704 24,630 22,215 28,264
W Ahman 09/53 D Allen 07/73 S Anderson 10/51 T Arbuckle 02/60 B Aske 12/56 J Baeten 11/62 J Barnes 01/53 D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	05/78 08/93 01/86 01/84 10/83 11/93 09/79 05/91	20,037 39,869 18,704 24,630 22,215
D Allen 07/73 S Anderson 10/51 T Arbuckle 02/60 B Aske 12/56 J Baeten 11/62 J Barnes 01/53 D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	08/93 01/86 01/84 10/83 11/93 09/79 05/91	39,869 18,704 24,630 22,215
S Anderson 10/51 T Arbuckle 02/60 B Aske 12/56 J Baeten 11/62 J Barnes 01/53 D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	01/86 01/84 10/83 11/93 09/79 05/91	18,704 24,630 22,215
T Arbuckle 02/60 B Aske 12/56 J Baeten 11/62 J Barnes 01/53 D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	01/84 10/83 11/93 09/79 05/91	24,630 22,215
B Aske 12/56 J Baeten 11/62 J Barnes 01/53 D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	10/83 11/93 09/79 05/91	22,215
J Baeten 11/62 J Barnes 01/53 D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	11/93 09/79 05/91	
J Barnes 01/53 D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	09/79 05/91	20 261
D Batten 08/64 J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	05/91	20,204
J Bayard 02/60 J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64		19,359
J Bell 08/57 L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	07/01	29,253
L Bergquist 11/42 S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	0//91	26,384
S Blodgetts 10/43 D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	05/89	23,797
D Bujold 08/57 B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	11/77	16,300
B Carlson 06/70 T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	07/78	16,870
T Carlson 10/66 D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	04/90	24,630
D Carney 09/53 T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	08/88	34,743
T Cherep 10/68 P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	11/91	31,336
P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	07/88	23,797
P Collins 04/54 D Congdon 05/38 R Connolly 12/68 L Daly 10/52 D Delong 07/54 R Donnelly 08/64	12/95	33,568
R Connolly12/68L Daly10/52D Delong07/54R Donnelly08/64	12/84	20,738
R Connolly12/68L Daly10/52D Delong07/54R Donnelly08/64	09/79	15,216
L Daly10/52D Delong07/54R Donnelly08/64	10/95	33,568
D Delong 07/54 R Donnelly 08/64	04/87	22,215
R Donnelly 08/64	03/85	20,738
•	11/91	29,253
	06/82	18,704
J Duerkop 01/53	04/83	19,359
G Dugal 01/48	08/79	17,461
B Dunham 03/55	07/80	20,738
D Dvorak 10/46	11/73	15,749
D Ellings 08/59	03/82	24,630
T Erickson 10/58	11/88	23,767
J Exe 05/74	12/95	39,869
P Ferry 05/48	02/83	19,359
J Finnegan 10/45	05/79	16,870

Annual

Bloomington Fire Department Relief Association **Projected Benefits for Active Members**

	D:_4L	Fratan	Annual
Nieme	Birth	Entry	Projected
<u>Name</u>	Date	Date	<u>Benefit</u>
J Forster	05/73	06/92	38,520
S Fritchman	06/59	04/87	23,797
K Frosig	02/65	10/91	29,253
M Gallagher	02/67	11/93	31,336
M Gang	02/64	03/95	29,253
D Gillum	08/54	10/88	23,797
P Goodwin	10/61	03/91	26,384
L Groth	08/70	09/91	35,959
C Guth	09/55	11/80	21,464
J Haeg	02/70	01/91	34,743
R Haeg	06/53	12/90	25,492
L Haugan	08/52	03/77	19,359
K Hecht	07/71	10/93	37,218
W Hecht	03/51	06/73	18,072
P Heger	10/53	12/74	20,037
B Henry	05/63	11/89	27,308
B Hoeppner	10/67	12/95	32,433
M Hoy	07/68	07/89	33,568
H Huber	03/76	08/94	42,708
R Huffman	05/56	04/87	22,215
A Hundt	06/57	05/81	22,215
M Hurley	03/52	02/80	18,704
J Hutter	02/64	11/90	28,264
W Jeffers	11/47	07/80	18,072
N Johnson	01/59	08/91	26,384
J Judy	10/46	04/81	18,072
K Kaiser	06/54	08/80	20,037
B Kalina	10/49	01/75	17,461
T Keeler	10/68	09/87	33,568
P Keller	05/44	02/76	15,216
B Koke	04/59	09/93	28,264
M Landstad	02/76	11/94	42,708
J Lanenberg	04/66	07/84	30,277
P Langer	06/66	07/91	30,277

Annual

Bloomington Fire Department Relief Association **Projected Benefits for Active Members**

	D!4b		-Minuai Destated
. .	Birth	Entry	Projected
Name	Date	Date	<u>Benefit</u>
S Leeder	10/51	10/80	18,704
G Lembeck	12/64	04/87	29,253
M Lessard	09/66	06/89	31,336
K Mahoney	10/62	10/90	27,308
S Maloney	01/60	10/81	24,630
D Manske	10/48	08/75	16,870
D Matlon	11/61	08/88	26,384
S McCarthy	07/61	04/88	26,384
K McDevitt	04/53	12/84	20,738
B McDonald	03/64	07/91	28,264
S McWilliams	04/65	11/91	29,253
J Meuwissen	12/53	04/87	22,215
C Meyer	07/64	06/89	29,253
J Meyer	06/75	12/95	41,264
D Michalski	07/66	01/94	31,336
J Mielke	07/71	03/95	37,218
G Moore	07/69	03/90	34,743
C Morrison	01/69	09/92	33,568
J Nanoff	10/53	12/87	22,992
K Nelson	10/60	07/88	25,492
R Nelson	02/57	04/89	23,797
R Nelson	06/59	05/86	23,797
D Noel	08/55	02/90	24,630
J Nord	02/71	08/94	35,959
S Oberaigner	04/67	03/94	31,336
B Oconnor	07/64	03/85	29,253
C Odash	05/61	05/89	25,492
B Olson	05/57	11/84	22,215
M Olson	07/66	12/95	31,336
R Olson	07/54	01/79	20,738
C Palmquist	10/71	03/95	37,218
E Palmsten	07/48	02/83	19,359
S Peterson	10/70	06/89	35,959
K Phongsavat	07/71	10/93	37,218

Bloomington Fire Department Relief Association Projected Benefits for Active Members

	January 1,	1770	Annual
	Birth	Entry	Projected
<u>Name</u>	Date	Date	Benefit
J Reily	08/50	07/85	21,464
C Reiman	04/57	03/94	28,264
C Reynolds	08/63	11/83	28,264
R Roase	09/57	02/85	22,992
W Roase	12/58	12/83	23,797
R Roehl	04/52	09/78	18,704
M Scherer	07/67	07/88	32,433
J Schoenborn	02/67	11/90	31,336
C Schuman	06/50	12/95	30,277
T Schwartz	06/54	04/87	22,215
U Seal	10/57	06/76	22,992
R Shaw	04/54	02/84	20,037
T Sheflet	09/66	01/89	31,336
G Shields	01/47	10/81	18,704
D Smith	04/47	02/82	18,704
M Smith	06/68	04/91	32,433
R Smith	05/52	06/78	18,704
D Sorensen	07/66	11/87	31,336
J Spetz	05/71	12/93	35,959
J St. Pierre	11/64	03/91	29,253
B Stekly	06/75	12/95	41,264
B Sveum	01/52	06/73	18,704
A Svobodny	07/55	04/83	21,464
T Swartz	06/54	04/87	22,215
B Tanner	04/69	07/87	33,568
L Thayer	01/67	03/91	31,336
V Traetow	04/52	04/87	22,215
L Trisco	11/66	11/89	31,336
R Trousdale	08/52	05/83	19,359
D Tschimperle	01/65	04/85	29,253
K Tschimperle	12/65	06/84	30,277
J Tumberg	03/64	11/84	28,264
S Verba	12/58	03/91	25,492
R Vierling	06/72	10/93	37,218

Bloomington Fire Department Relief Association Projected Benefits for Active Members

<u>Name</u>	Birth <u>Date</u>	Entry <u>Date</u>	Annual Projected <u>Benefit</u>
D Wenshau	12/72	06/91	38,520
T Winckler	02/61	12/95	30,277
M Younggren	12/53	11/87	22,992

Bloomington Fire Department Relief Association Projected Benefits for Inactive Members

January 1, 1996

	January 1, 1990		
Name	Туре	Monthly <u>Benefit</u>	
B Anderson	Retired	1,268	
B Anderson	Retired	1,268	
L Anderson	Retired	1,268	
L Anderson	Disabled	1,268	
R Anderson	Retired	1,268	
R Boeser	Retired	1,268	
R Borst	Retired	1,268	
J Brening	Retired	1,268	
D Carlson	Retired	1,268	
G Chaplin	Retired	1,268	
L Christensen	Widow	951	
E Christian	Retired	1,268	
D Ciardelli	Retired	1,268	
R Clemensen	Retired	1,268	
J Colehour	Disabled	1,268	
D Cruikshank	Retired	1,268	
D Dodds	Retired	1,268	
G Doucette	Retired	1,268	
R Egland	Retired	1,268	
D Elftmann	Retired	1,268	
J Ellrich	Widow	951	
R Elm	Retired	1,268	
D Engberg	Retired	1,268	
J Engberg	Retired	1,268	
W Faber	Retired	1,268	
R Falk	Deferred	1,268	
I Finn	Retired	1,268	
N Fischer	Retired	1,268	
M Freemark	Retired	1,268	
F Fuecker	Retired	1,268	
A Furuli	Retired	1,268	
N Gabriel	Retired	1,268	
R Gabriel	Retired	1,268	
J Gale	Disabled	1,268	
J Gasterland	Retired	1,268	

- 12 -

Bloomington Fire Department Relief Association Projected Benefits for Inactive Members

Name	<u>Type</u>	Monthly <u>Benefit</u>
C Gerdes	Deferred	1,268
G Gerhardt	Retired	1,268
J Gjevre	Retired	1,268
P Goettsche	Child	182
T Gustafson	Disabled	1,078
G Haeg	Disabled	1,268
J Haeg	Retired	1,268
W Haeg	Retired	1,268
V Hager	Widow	951
P Hall	Retired	1,268
J Harringer	Retired	1,268
G Hayden	Retired	1,268
D Hedin	Deferred	1,268
C Hetcht	Retired	1,268
K Hetcht	Retired	1,268
C Hedin	Retired	1,268
R Hedin	Retired	1,268
B Hoaglund	Widow	951
P Huber	Deferred	1,268
M Kaiser	Retired	1,268
W Kalima	Retired	1,268
E Keith	Retired	1,268
W Kettlekamp	Retired	1,268
R Kimbler	Retired	1,268
G Kristjanson	Retired	1,268
H Lanenberg	Retired	1,268
W Lembeck	Retired	1,268
G Lessen	Deferred	1,268
M Loiselle	Deferred	1,268
O Lund	Widow	951
R Macallister	Retired	1,268
T Manske	Retired	1,268
D Martenson	Retired	1,268
D Mattson	Retired	1,268
R McDonald	Retired	1,268

Bloomington Fire Department Relief Association Projected Benefits for Inactive Members

January 1, 1996

	January 1, 1770	Monthly
<u>Name</u>	Туре	Benefit
R McKenzie	Retired	1,268
J McWilliams	Retired	1,268
G Melony	Retired	1,268
G Miller	Retired	1,268
S Minion	Retired	1,268
D Napier	Retired	1,268
D Nichols	Retired	1,268
W Noleen	Retired	1,268
D Olson	Retired	1,268
W Paget	Retired	1,268
K Pahl	Deferred	1,268
M Pahl	Retired	1,268
E Peterson	Retired	1,268
D Peterson	Retired	1,268
D Peterson	Retired	1,268
R Peterson	Retired	1,268
S Peterson	Widow	951
T Pressler	Retired	1,268
K Roberts	Deferred	1,268
M Rouen	Retired	1,268
M Rueger	Widow	951
J Savage	Widow	951
R Savage	Widow	951
R Schoenborn	Retired	1,268
V Segerstrom	Retired	1,268
G Selinsky	Retired	1,268
D Sheflet	Retired	1,268
B Smith	Retired	1,268
W Snyder	Retired	1,268
M Stern	Retired	1,268
W Sutcliffe	Disabled	571
R Swanson	Retired	1,268
E Swiven	Retired	1,268
J Thomas	Retired	1,268

- 14 -

Bloomington Fire Department Relief Association Projected Benefits for Inactive Members

Name	Туре	Monthly Benefit
<u>i vanite</u>	<u>Type</u>	Denem
R Thoma	Retired	1,268
D Travers	Retired	1,268
L Tschimperl	Retired	1,268
M Vober	Retired	1,268
A Welter	Retired	1,268
E Wenshau	Retired	1,268
C Willams	Retired	1,268
C Wilson	Retired	1,268
G Wilson	Retired	1,268
L Wise	Retired	1,268
M Zochert	Widow	958

Bloomington Fire Department Relief Association Reconciliation of Members

		Actives	Deferred Vested
А.	ON JANUARY 1, 1995	143	9
В.	ADDITIONS	13	4
C.	DELETIONS		
	1. Service Retirement	(2)	(5)
	2. Disability	(1)	-
	3. Death - Survivor	-	-
	4. Death - Other	-	-
	5. Terminated - Deferred Vested	(4)	-
	7. Terminated - Non-Vested	(1)	-
	8. Returned as Active	-	-
D.	DATA ADJUSTMENTS	-	-
	1. Vested	9	
	2. Non-Vested	139	
E.	TOTAL ON JANUARY 1, 1996	148	8

			Recipients		
		Retirement Annuitants	Disabled	Surviving Spouse	Surviving Child
А.	ON JANUARY 1, 1995	83	5	10	1
В.	ADDITIONS	7	1	-	-
С.	DELETIONS				
	1. Service Retirement	-	-	-	-
	2. Death	-	-	-	-
	3. Annuity Expired	-	-	-	-
	4. Returned as Active	-	-	-	-
D.	DATA ADJUSTMENTS	-	-	-	-
E.	TOTAL ON JANUARY 1, 1996	90	6	10	1

- 16 -

Bloomington Fire Department Relief Association Financial Disclosure Information

January 1, 1996

Retirees and beneficiaries currently receiving benefits and terminated employees not yet receiving benefits	\$ 35,266,500	
Current Employees		
Accumulated employee contributions including allocated investment income	\$ 0 *	*
Employer-financed vested	2,674,700	
Employer-financed non-vested	15,983,200	
Total Pension Benefit Obligation	\$ 53,924,400	

Assumptions: The primary actuarial assumptions used in determining the above Financial Disclosure Information included a discount rate of 5% and future benefit increased of 3.5%.

* Assumed employee contributions are not accounted for separately since the plan does not contain provisions for return of accumulated contributions.

Bloomington Fire Department Relief Association Determination of Unfunded Accrued Liability

January 1, 1996

				Actuarial Present Value of Projected Benefits		Actuarial Present Value of Future Normal Costs	Accrued Liability
А.		TERI BILI	MINATION OF ACCRUED				
	1.	Act	ive Members				
		a.	Retirement Annuities	\$ 34,750,000	\$	16,252,700	\$ 18,497,300
		b.	Disability Benefits	6,138,200		4,154,200	1,984,000
		c.	Survivors' Benefits	1,328,300		921,000	407,300
		d.	Deferred Retirements	585,700		330,300	255,400
		e.	Total	\$ 42,802,200	\$	21,658,200	\$ 21,144,000
	2.	Def	ferred Vested Members	3,047,500	•		 3,047,500
	3.	Ret	ired Members	28,466,600			28,466,600
	4.	Dis	abled Members	2,323,800			2,323,800
	5.	Sur	vivors	1,428,600			1,428,600
	6.	Tot	al	\$ 78,068,700	\$	21,658,200	\$ 56,410,500

B. DETERMINATION OF UNFUNDED ACCRUED LIABILITY

1.	Accrued Liability	\$ 56,410,500
2.	Actuarial Value of Assets	66,622,700
3.	Unfunded Accrued Liability	\$ (10,212,200)

Bloomington Fire Department Relief Association Changes in Unfunded Accrued Liability

Year Ending December 31, 1995

UNFUNDED ACCRUED LIABILITY AT BEGINNING OF YEAR	\$	(3,309,300)
INCREASE DUE TO:		
1. Contributions less than Annual Actuarial Cost	\$	1,334,400
2. Favorable Mortality Experience		683,900
3. Miscellaneous Factors		2,708,600
4. Total	\$_	4,726,900
DECREASE DUE TO:		
1. Salary Increases Lower than Expected	\$	316,800
2. Investment Return Higher than Expected		11,313,000
3. Total	-	11,629,800
UNFUNDED ACCRUED LIABILITY AT END OF YEAR	\$	(10,212,200)
	 INCREASE DUE TO: 1. Contributions less than Annual Actuarial Cost 2. Favorable Mortality Experience 3. Miscellaneous Factors 4. Total DECREASE DUE TO: 1. Salary Increases Lower than Expected 2. Investment Return Higher than Expected 3. Total 	INCREASE DUE TO: 1. Contributions less than Annual Actuarial Cost 2. Favorable Mortality Experience 3. Miscellaneous Factors 4. Total DECREASE DUE TO: 1. Salary Increases Lower than Expected 2. Investment Return Higher than Expected 3. Total

Bloomington Fire Department Relief Association Determination of Required Contribution

			Dollar Amount
А.	NORMAL COST		
	a. Retirement Benefits	\$	1,257,400
	b. Disability Benefits		324,200
	c. Survivors' Benefits		72,200
	d. Deferred Retirement Benefits		18,900
	e. Total		1,672,700
	f Estimated Member Contributions		20,900
	g. Net Normal Cost	\$	1,651,800
B.	CREDIT FOR SURPLUS ASSETS	\$	(1,021,200)
C.	ALLOWANCE FOR ADMINISTRATIVE EXPENSES	\$	75,000
D.	TOTAL		705,600
E.	PAYABLE AS OF DECEMBER 31, 1996 (D. * 1.05)	- \$_	740,900

January 1, 1996

- 20 -

Bloomington Fire Department Relief Association Summary of Actuarial Assumptions and Methods

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:	5
	Male -	same as above.
	Female -	same as above.
	Dest Dischiller	
	Post-Disability: Male -	same as above.
	Female -	same as above.
Retirement Age:	Years of Service.	ed 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	
Benefit Increases:	3.5% per annum.	
Actuarial Cost Method:	level percentage of e Association to the M	Cost Method with normal costs expressed as earnings from each Members date of joining the lembers assumed retirement age. Each Member is same as Bloomington Policeman.
Asset Valuation Method:	Market Value.	

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

Payment on the Unfunded Accrued Liability:	Any change in the Unfunded Accrued Liability are amortized as level dollar amount 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 assumed to be married. Female is assumed to be three years younger than male.
Form of Payments:	75% Joint and Survivor Annuity, Life Annuity if single.

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

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

* Assuming 20 years service at age 50

Bloomington Fire Department Relief Association Summary of Plan Provisions

GENERAL

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:	One hundred forty-four dollars per year, payable semi-annually on January 1 and July 1.
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 Index Salary. All beneefits 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 in the opinion of a physician or physicians appointed by the Board of Trustees.	
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.	

Bloomington Fire Department Relief Association Summary of Plan Provisions (con.)

	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.	
DEATH			
	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:	
TERMINATION			
	Eligibility:	20 years of Service.	
	Amount:	The basic benefit is payable at age 50.	
		- 25 -	