

November 1, 2002

PERSONAL & CONFIDENTIAL

Board of Trustees
Municipal Fire and Police Retirement System of Iowa
2836 104th Street
Des Moines, IA 50322

RE: July 1, 2002 Actuarial Report

Dear Board Members:

We are pleased to submit this actuarial report of the Municipal Fire and Police Retirement System of Iowa. The costs developed and presented in this report are based on asset values as of June 30, 2002, member census data as of July 1, 2002, and current System provisions, all of which were supplied by the Municipal Fire and Police Retirement System of Iowa.

The purposes of the actuarial report are:

1. To determine the normal contribution rate which is payable by the Cities under Chapter 411 of the Code of Iowa;
2. To determine the funded status of the System; and
3. To provide information relating to the disclosure requirements of the Governmental Accounting Standards Board (GASB) Statement No. 25 – Financial Reporting for Defined Benefit Pension Plans.

All costs and liabilities were determined in accordance with generally accepted actuarial principles and procedures. To the best of our knowledge, the information supplied in this report is complete and accurate. The amounts presented in the accompanying report have been determined appropriately according to the actuarial assumptions and methods stated herein, and fully and fairly disclose the actuarial position of the System.

Sincerely,

SILVERSTONE GROUP



Donn B. Jones, FSA
Principal
Member of American Academy
of Actuaries
Enrolled Actuary No. 02-2717



Glen C. Gahan, FSA
Principal
Member of American Academy
of Actuaries
Enrolled Actuary No. 02-4875

ME/tj

Enclosure

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REPORT HIGHLIGHTS

This section compares results of the current and prior actuarial valuations. Additional supporting detail is available in other sections of the report. The Table of Contents on the prior page identifies the location of the supporting detail.

	As of July 1	
	<u>2001</u>	<u>2002</u>
Cities Recommended Contribution	\$ 28,223,067	\$ 35,459,256
Normal Contribution Rate	17.00%	20.48%
Plan Assets		
Market Value	1,155,055,872	1,104,502,423
Actuarial Value	1,262,325,433	1,269,716,305
Investment Return		
Market Value	-5.7%	-2.8%
Actuarial Value	5.9%	2.1%
Actuarial Present Value of Accrued Benefits		
Total Accrued Benefits (Security Ratio)	1,274,408,446 (91%)	1,354,453,231 (82%)
Vested Accrued Benefits (Security Ratio)	1,192,888,451 (97%)	1,283,546,962 (86%)
Annual Participating Payroll	166,087,647	173,140,899
Annual Pension Benefits		
Service Retirement	30,193,684	33,356,264
Disabled Retirement	22,111,592	23,930,203
Vested Retirement	1,330,221	1,516,706
Beneficiaries	9,009,598	9,604,582
Total	\$ 62,645,095	\$68,407,755
Number of Members		
Active	3,789	3,805
Retirees, Disabled & Beneficiaries	3,170	3,248
Vested Terminated	<u>238</u>	<u>244</u>
Total Participants	7,197	7,297

COMMENTS ON THE VALUATION

Cities Recommended Contribution

The recommended contributions for the Retirement System are determined using the Aggregate actuarial cost method as required by Chapter 411 of the Code of Iowa. The same method has been used in prior years to determine the contribution for the Retirement System.

We recommend a contribution of \$35,459,256 be made for the 2002 plan year. This is equal to a contribution rate of 20.48% of payroll. This rate assumes that the State of Iowa will contribute approximately \$2,816,189 for the 2002 plan year.

The Retirement System's normal contribution rate increased from the minimum allowed rate of 17.00% to 20.48%. The Retirement System's contribution rate before adjustment to the minimum contribution rate changed as follows:

July 1, 2001 normal contribution rate*	16.74%
• Increase in contribution rate due to lower State contribution	0.14%
• Plan experience more favorable than assumed	(0.16%)
• Asset investments less favorable than assumed	3.76%
• Changes in System provisions	0.00%
• Change in actuarial assumptions	0.00%
Preliminary normal contribution rate	20.48%
• Increase necessary to meet minimum contribution rate	0.00%
July 1, 2002 normal contribution rate	20.48%

* Before adjustment for minimum contribution rate

Actuarial Present Value of Accrued Benefits

The value of plan assets, the present value of vested accrued benefits, and the present value of accrued benefits are displayed and compared in this section of the report. Plan assets are valued at market value. The present value of vested accrued and accrued benefits is based on actuarial assumptions that anticipate the System will continue. Summarizing from this section of the report:

	Values as of July 1, 2002	Funded Ratio	
		2001	2002
Market Value of Plan Assets	\$1,104,502,423	--	--
Actuarial Present Value:			
Accrued Benefits	1,354,453,231	91%	82%
Vested Accrued Benefits	1,283,546,962	97%	86%
Interest Rate		7.5%	7.5%

Changes in System Provisions

All System provisions remained unchanged from the prior valuation.

Change in Actuarial Assumptions

Beginning with the July 1, 1999 actuarial valuation, mortality improvements represented by published mortality tables will be phased in over the next several years. The July 1, 2002 actuarial valuation would normally reflect an additional one-year step in a plan to complete the phase-in of the 1994 Group Annuity Mortality Table by the July 1, 2010 actuarial valuation. However, the additional one-year step has been deferred based on the Mortality Table Assumption Policy described below. All other actuarial assumptions remained unchanged from the prior valuation.

Mortality Table Assumption Policy

In November 1999, the Board of Trustees adopted a policy to phase into the 1994 Group Annuity Mortality Table consistent with the funding capacities of the sponsoring Cities. A multiple year phase-in to the 1994 Group Annuity Mortality Table was recommended. The phase-in period of the 1994 Group Annuity Mortality Table should range from 6 to 20 years measured from 1999.

Government Accounting Standards Board Disclosure

Measurements used to evaluate the funding status of the system are based on procedures set forth by GASB (Government Accounting Standards Board). In an effort to enhance the understandability and usefulness of the pension information that is included in the financial reports of pension plans for state and local governments, GASB has issued Statement No. 25—Financial Reporting for Defined Benefit Pension Plans.

GASB Statement No. 25 establishes a financial reporting framework for defined benefit plans. In addition to two required statements regarding plan assets, the statement requires two schedules, the Schedule of Funding Progress and Schedule of Employer Contributions, and accompanying notes disclosing information relative to the funded status of the plan and historical contribution patterns.

- The Schedule of Funding Progress is not required for systems which use the Aggregate Method to determine the Annual Required Contribution (ARC). Since the Retirement System uses the Aggregate Method to determine the ARC, this schedule has not been developed.
- The Schedule of Employer Contributions provides historical information about the Annual Required Contribution (ARC) and the percentage of the ARC that was actually contributed. For the Retirement System, the ARC is equal to the normal contribution rate multiplied by the covered payroll for the year or \$38,281,453 for 2002. This is the total ARC before any adjustment for minimum contribution rates or state contributions.

Covered Members

Ages of Active Members — The average age of the active members has slightly decreased. The average age of members included in the valuation was 39.8 for the current year and 39.9 in the prior year.

Service of Active Members — The average service of the active members has also slightly decreased. The average service of members included in the valuation was 13.2 for the current year and 13.3 in the prior year.

Participating Compensation and Members — Total participating compensation increased from \$166,087,647 to \$173,140,899, a 4.2% increase. The number of active members increased from 3,789 in 2001 to 3,805 in 2002.

Average Annual Compensation — The average compensation of active members is more than the average compensation for the prior year. The average compensation was \$43,834 for 2001 and \$45,504 in 2002.

ACTUARIAL VALUATION RESULTS

This section of the report provides information concerning the valuation of Retirement System assets and liabilities. The following is a brief description of the exhibits and of how the information is organized.

Retirement System Assets — Retirement System assets are amounts that have accumulated and will be used to meet future benefit obligations. In the Retirement System Assets exhibit, trust fund transactions reported by the system are traced from the prior valuation date to the current valuation date. In addition, the actuarial value of assets is developed based on the prescribed method.

Retirement System Liabilities and Contributions —The recommended annual contribution is defined by the rate of contribution and covered payroll. The rate of contribution is determined by dividing the present value of unfunded future benefits by the present value of future payroll of all members. The Retirement System's contribution rate by statute may not be less than 17% of covered payroll. GASB Statement No. 25 defines a term, the Annual Required Contribution which is equal to the Cities contribution rate (prior to adjustment for minimum contribution rates or state contributions) multiplied by the covered payroll for the fiscal year.

Present Value of Accrued Benefits —Another objective of preparing the actuarial valuation is to evaluate the funding status of the Retirement System. A comparison of the market value of assets with the present value of accrued benefits is displayed for the current and prior year.

ACTUARIAL VALUATION RESULTS
Retirement System Assets – Market Value
Year Ending June 30, 2002

	<u>Market Value</u>
Assets at June 30, 2001	\$1,155,055,872
Receipts:	
Member Contributions	\$ 15,696,746
Cities Contributions	28,542,482
State Contributions	2,816,189
Investment Income	(27,434,768)
Securities Lending Expenses	(819,064)
Investment Management Expenses	(3,403,207)
Other	<u>68,921</u>
 Total Receipts	 \$ 15,467,299
Disbursements:	
Pensions Paid to Inactive Members	\$ (64,240,707)
Termination Withdrawals	(643,321)
Administrative Expenses	(1,010,698)
Disability Expenses	(101,685)
Other	<u>(24,337)</u>
 Total Disbursements	 \$ (66,020,748)
 Assets at June 30, 2002	 \$1,104,502,423

ACTUARIAL VALUATION RESULTS
Retirement System Assets – Actuarial Value
Year Ending June 30, 2002

1.	Actuarial Value of Assets at July 1, 2001	\$1,262,325,433
2.	Contributions for 2001 Plan Year (Members, Cities and State)	47,055,417
3.	Benefit distributions and refunds for 2001 plan year	(64,884,028)
4.	Noninvestment Expenses	
	a. Administrative Expenses	(1,010,698)
	b. Disability Expenses	<u>(101,685)</u>
	c. Total	(1,112,383)
5.	Expected return on Assets for year at 7.5%	85,931,744
6.	Asset gains/(losses) for prior four plan years	
	a. 2001	(117,544,199)
	b. 2000	(163,364,690)
	c. 1999	18,506,450
	d. 1998	<u>24,002,929</u>
	e. Total	(238,399,510)
7.	Asset gains/(losses) to be recognized, 25% x 6e.	(59,599,878)
8.	Actuarial Value of Assets at July 1, 2002 = 1 + 2 + 3 + 4c + 5 + 7	\$1,269,716,305

ACTUARIAL VALUATION RESULTS
Retirement System Liabilities and Contributions

Present Value of Unfunded Future Benefits	As of July 1	
	2001	2002
1. Actuarial Present Value of all Future Benefits		
a. Active members		
Service retirements	\$ 634,046,868	\$ 651,318,328
Ordinary disability	74,342,237	77,063,255
Accidental disability	199,074,346	206,065,306
Ordinary death	23,065,811	23,961,003
Accidental death	25,374,584	26,253,995
Withdrawal	19,846,764	20,807,513
Total Active	975,750,610	1,005,469,400
b. Inactive members		
Members receiving benefits	745,512,070	808,135,182
Deferred vested terminations	20,742,470	21,953,039
Refund of member contributions due	164,409	259,328
Total Inactive	766,418,949	830,347,549
c. Total Present Value of Future Benefits	1,742,169,559	1,835,816,949
2. Actuarial Value of Plan Assets	1,262,325,433	1,269,716,305
3. Actuarial Present Value of Future Member Contributions	161,049,434	168,232,608
4. Present Value of Unfunded Future Benefits (1) - (2) - (3)	318,794,692	397,868,036
 Determination of Preliminary Total Contribution		
5. Present value of future payroll of all covered members	1,722,453,837	1,799,279,225
6. Total (Cities plus State) normal contribution (4) ÷ (5)	18.51%	22.11%
7. Covered payroll	166,018,043	173,140,899
8. Preliminary total contribution from Cities and State (6) x (7)	30,729,940	38,281,453

ACTUARIAL VALUATION RESULTS

Actuarial Present Value of Accrued Benefits

	As of July 1	
	<u>2001</u>	<u>2002</u>
1. Present value of vested accrued benefits		
a. Present value of vested accrued benefits for active members	\$426,469,502	\$453,199,413
b. Present value of benefits for terminated members	20,906,879	22,212,367
c. Present value of benefits being paid to retirees and beneficiaries	745,512,070	808,135,182
Total	\$1,192,888,451	\$1,283,546,962
2. Present value of accrued nonvested benefits	81,519,995	70,906,269
3. Present value of all accrued benefits (1) + (2)	\$1,274,408,446	\$1,354,453,231
4. Market value of assets	\$1,155,055,872	\$1,104,502,423
5. Ratio of market value of assets to the present value of all accrued benefits (4) ÷ (3)	91%	82%
6. Ratio of market value of assets to the present value of vested accrued benefits (4) ÷ (1)	97%	86%

ACTUARIAL VALUATION RESULTS

Change in Actuarial Present Value of Accrued Benefits

The change in actuarial present value of accrued benefits due to various factors including benefits accumulated, the passage of time, benefits paid, changes in assumptions and changes in System provisions is displayed below.

Actuarial present value of accrued benefits on July 1, 2001	\$1,274,408,446
Change in present value of accrued benefits from July 1, 2001 to July 1, 2002 due to:	
• Additional benefits accumulated	\$ 51,737,344
• Interest due to passage of time	93,191,469
• Benefits paid	(64,884,028)
• Change in assumptions	0
• Changes in System provisions	<u>0</u>
Actuarial present value of accrued benefits on July 1, 2002	\$1,354,453,231

SYSTEM EXPERIENCE

During the plan year July 1, 2001 to June 30, 2002, actual experience differed from that expected by the actuarial assumptions, as summarized below.

Decrement Type	Expected	Actual
Actives		
Service Retirement	53	79
Accidental Disability	31	39
Ordinary Disability	14	12
Accidental Death	5	0
Ordinary Death	7	1
Withdrawal	78	76
Inactives		
Beneficiary Death	36	39
Disabled Death	34	27
Retirement Death	51	44
Vested Termination Death	1	1

SUMMARY OF ACTUARIAL ASSUMPTIONS

Interest Rate 7.5%

Salary Increase Rate Rates varying based on age. Annual rates at sample ages are displayed below:

Age	Rate
20	12.59%
25	8.67%
30	5.95%
35 or Over	4.50%

Mortality Rates

Pre-retirement Mortality

- Ordinary

Rates varying by age – Sample rates:

Age	Rate
20	0.06%
25	0.07
30	0.08
35	0.12
40	0.16
45	0.20
50	0.29
55	0.38
60	0.56
65	0.75

- Accidental

Rates varying by age – Sample rates:

Age	Rate
20	0.11%
25	0.07
30	0.06
35	0.06
40	0.06
45	0.09
50	0.24
55	0.47
60	0.75
65	1.38

SUMMARY OF ACTUARIAL ASSUMPTIONS

Post-retirement Mortality

- Ordinary

A weighting equal to 9/12 of the 1971 Group Annuity Mortality Table, Male and Female and 3/12 of the 1994 Group Annuity Mortality Table, Male and Female.

- Disabled

A weighting equal to 9/12 of the 1971 Group Annuity Mortality Table – Male, set forward six years and 3/12 of the 1994 Group Annuity Mortality Table - Male, set forward six years.

Disability Rates

- Ordinary

Rates varying by age – Sample rates:

Age	Rate
20	0.12%
25	0.12
30	0.12
35	0.15
40	0.24
45	0.37
50	0.59
55	1.09
60	2.08
65	3.39

- Accidental

Rates varying by age – Sample rates:

Age	Rate
20	0.11%
25	0.11
30	0.11
35	0.11
40	0.30
45	0.68
50	1.31
55	2.97
60	6.19
65	7.09

SUMMARY OF ACTUARIAL ASSUMPTIONS

Turnover Rates

Rates varying by age - Sample rates:

Age	Rate
20	7.11%
25	5.81
30	4.51
35	2.71
40	1.08
45	0.20
50	0.20
55	0.00
60	0.00
65	0.00

Retirement Age

Rates varying by age - Sample rates:

Age	Rate
55 - 56	35 %
57 - 60	25
61	30
62	35
63	40
64	45
65	100 %

SUMMARY OF ACTUARIAL ASSUMPTIONS

Administrative Expenses	None assumed.
Percentage Married	85%
Spouses' Age	Wives are three years younger than husbands.
Number of Children	2.5 per couple.
Participating Payroll	Actual annualized earnable compensation reported for prior plan year increased to the current plan year based on the System's assumed salary increase rate.

SUMMARY OF ACTUARIAL METHODS

Actuarial Cost Method

The Aggregate Actuarial Cost Method was used to determine recommended contributions. Using this method, the present value of projected benefits to be funded by future contributions is determined by subtracting the actuarial value of plan assets and the actuarial present value of future member contributions from the actuarial present value of projected benefits. This result, the present value of unfunded future benefits, is divided by the present value of future salaries of active members included in the valuation to determine a normal cost accrual rate. The normal cost accrual rate is multiplied by the total of current annual salaries of members in the valuation to determine the recommended contribution.

Using the Aggregate Method, gains and losses that arise due to actual experience are not directly determined and recognized each year. Gains and losses are included in the present value of unfunded future benefits and affect the normal cost accrual rate. As a result, gains and losses are spread over the remaining period to retirement of members in the valuation and are recognized as a portion of future annual contributions.

Actuarial Asset Valuation Method

The preliminary actuarial value is equal to the prior year's actuarial value (starting with the market value as of July 1, 1992) adjusted for contributions, disbursements and expected return on investments. The preliminary value is then increased by 25% of any investment gains or (losses) during the four prior plan years.

SUMMARY OF SYSTEM PROVISIONS

The System was first established, effective January 1, 1992, by Chapter 411 of the Code of Iowa by combining each city's fire retirement system and police retirement system into a single statewide retirement system for fire fighters and police officers. Plan amendments through July 1, 2002 are reflected in this summary.

Participation

Each person who becomes a permanent full-time police officer or fire fighter in a participating city.

Membership Service

From date of employment to date of separation from employment.

Earnable Compensation

The annual compensation which a member receives for services rendered as a police officer or fire fighter in the course of employment with a participating City, except for amounts received for overtime, meal or travel expenses, uniform allowances, fringe benefits, severance pay, mandatory deferred compensation, and accumulated sick leave or vacation pay.

Contributions

Members

The following percentages of Earnable Compensation:

Effective Date	Percentage
October 16, 1992	6.10%
July 1, 1993	7.10
July 1, 1994	8.10
January 1, 1995	8.35
July 1, 1995	9.35

Cities

The amount actuarially determined necessary to fund the benefits in accordance with accepted actuarial principles but not less than 17% of the Earnable Compensation of the active members.

State

The annual appropriation from the State of Iowa to fund benefits is about \$2,816,189 a year.

SUMMARY OF SYSTEM PROVISIONS

Average Final Compensation

The average Earnable Compensation of the member during the three years of service the member earned their highest salary as a police officer or fire fighter.

Service Retirement Benefit

Eligibility

After age 55 and completion of 22 years of service.

Benefit

Monthly annuity equal to 66.0% of Average Final Compensation plus 2.0% of Average Final Compensation for each year of service in excess of 22 years (up to 8 additional years). The maximum benefit is 82.0% of Average Final Compensation.

Termination Benefit

Eligibility

At least 4 years of service upon termination of membership before age 55, or at least 4, but less than 22 years of service upon termination of membership after age 55.

Benefit

Monthly annuity payable at age 55 or current age, if later, equal to 66.0% of Average Final Compensation plus 2.0% of Average Final Compensation for each year of service in excess of 22 years (up to 8 additional years), if any, times a ratio equal to service at termination divided by 22 (ratio not to exceed 1.0).

Effective July 1, 1990, members who terminate service, other than by death or disability, can elect to withdraw their accumulated contributions with interest in lieu of any benefits to which the member may be entitled to from the System.

SUMMARY OF SYSTEM PROVISIONS

Ordinary Disability Benefit

Eligibility

Any age and any length of service.

Benefit

Monthly annuity payable upon disability equal to either (a) or (b) below, but no less than (c):

- (a) If service at disability is greater than or equal to 5, 50% of Average Final Compensation; or
- (b) If service at disability is less than 5, 25% of Average Final Compensation;
- (c) The benefit determined using the Service Retirement formula based on service and Average Final Compensation at the date of disability.

Accidental Disability Benefit

Eligibility

Any age and any length of service.

Benefit

A monthly annuity equal to 60% of Average Final Compensation but no less than the benefit determined using the Service Retirement formula based on service and Average Final Compensation at the date of disability.

Ordinary Death Benefit

Eligibility

For members in service: any age and any length of service.

For member not in service: 4 years of service.

Benefit

Upon death of the member, either (a) or (b) below:

- (a) A lump sum equal to 50% of Earnable Compensation during the last year of employment; or

SUMMARY OF SYSTEM PROVISIONS

- (b) A monthly annuity equal to 40% of average final compensation but not less than 20% of the earnable compensation of an active member having the highest grade in the rank of a police patrol officer or fire fighter (whichever is applicable). For a member not in service, the monthly annuity is payable on the date the member would have reached age 55, except if there is a dependent child, it is paid immediately upon death of the member.

For each dependent child, an additional benefit equal to 6% of the Earnable Compensation of an active member having the highest grade in the rank of a police patrol officer or fire fighter (whichever is applicable). This benefit is payable until the child reaches age 18 or 22 or payable for life if the child is disabled.

Accidental Death Benefit

Eligibility

Death from causes sustained in the line of duty.

Benefit

A monthly annuity equal to 50% of Average Final Compensation payable to surviving spouse, dependent child or dependent parents. In addition, a lump sum of \$100,000 is payable to the surviving spouse, dependent child or dependent parents if death is due to a traumatic personal injury incurred in the line of duty.

For each dependent child, an additional benefit equal to 6% of the Earnable Compensation of the active member having the highest grade in the rank of a police patrol office or fire fighter (whichever is applicable).

Death After Retirement

Eligibility

Death of member while receiving a service (basic benefit only), ordinary, accidental or vested (basis benefit only) retirement.

SUMMARY OF SYSTEM PROVISIONS

Benefit

To surviving spouse, 50% of the gross monthly benefit of the retired member but not less than 20% of Earnable Compensation of an active member having the highest grade in the rank of a police patrol officer or fire fighter (whichever is applicable).

For each dependent child, an additional benefit equal to 6% of the Earnable Compensation of the active member having the highest grade in the rank of a police patrol officer or fire fighter (whichever is applicable).

Annual Escalator Benefit

Eligibility

All retired members, except for vested retirements, and for beneficiaries, except for beneficiaries of vested retirements.

Benefit

The monthly pension benefit is increased each July 1 by the sum of (a) plus (b) below:

- (a) The previous monthly benefit multiplied by 1.5%, and
- (b) An additional dollar amount from the table below based on the number of years the member has been retired.

Amount	Years of Retirement
\$15	Less than 5
20	5 – 9
25	10 – 14
30	15 – 19
35	20 or More

Normal Form of Benefit

Married

Joint and 50% Survivor Annuity.

Single

Life Only Annuity.

SUMMARY OF SYSTEM MEMBERS

	July 1	
	2001	2002
Active Members		
Number	3,789	3,805
Average Attained Age	39.9	39.8
Average Past Service	13.3	13.2
Total Annual Compensation	\$166,087,647	\$173,140,899
Average Annual Compensation	43,834	45,504
Non-Active Members in Pay Status		
Number	3,170	3,248
Average Age (excluding children)	66.9	67.0
Total Annual Benefits	\$62,645,095	\$68,407,755
Average Annual Benefit	19,762	21,062
Non-Active Members with Deferred Benefits		
Number*	238	244
Average Age	45.3	45.2
Total Annual Benefits	\$3,102,822	\$3,242,136
Average Annual Benefit	13,037	13,287

* Excludes 64 and 90 terminated nonvested members who have not yet received a refund of contributions for 2001 and 2002 respectively.

SUMMARY OF SYSTEM MEMBERS

Reconciliation of Participant Counts

	Active	Terminated Vested	In Pay Status			Total
			Beneficiaries	Disableds	Retirees	
Number as of July 1, 2001	3,789	238	864	960	1,346	7,197
Change due to:						
New hires and rehires	234	(3)	0	0	0	231
Terminations	(57)*	31	0	0	0	(26)
Retirement	(79)	(14)	0	0	93	0
Disability	(51)	0	0	51	0	0
Death without Beneficiary	(0)	0	(39)	(8)	(10)	(57)
Death with Beneficiary	(1)	(1)	55	(19)	(34)	0
Refund Paid Out	(30)**	(7)	0	0	0	(37)
Benefit Aged Out	0	0	(11)	0	0	(11)
Other	0	0	0	1	(1)	0
Number as of July 1, 2002	3,805	244	869	985	1,394	7,297

* Ten of the Terminations are from new hires during the period July 1, 2001 to June 30, 2002.

** One of the Refunds Paid Out are from new hires during the period July 1, 2001 to June 30, 2002.

SUMMARY OF SYSTEM MEMBERS

Active Members — As of July 1, 2002

Years of Service

Age	Years of Service										Total	Average Annual Salary
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35+				
Under 25	150	0	0	0	0	0	0	0	0	0	150	\$35,638
25-29	386	84	1	0	0	0	0	0	0	0	471	\$38,883
30-34	296	353	86	0	0	0	0	0	0	0	735	\$41,441
35-39	102	186	260	68	1	0	0	0	0	0	617	\$44,023
40-44	50	87	149	158	115	5	0	0	0	0	564	\$47,128
45-49	9	27	67	122	249	132	4	0	0	0	610	\$50,393
50-54	1	12	24	43	100	259	87	0	0	0	526	\$52,210
55-59	1	1	4	5	13	38	48	7	0	0	117	\$53,394
60+	0	0	0	0	2	0	4	9	0	0	15	\$55,422
Total	995	750	591	396	480	434	143	16	3,805			
Average Annual Salary	\$37,375	\$43,445	\$45,934	\$48,842	\$51,552	\$52,978	\$57,638	\$56,316				\$45,504

SUMMARY OF SYSTEM MEMBERS

Inactive Members — As of July 1, 2002

Service Retirements

Age	Number	Total Annual Benefit	Average Annual Benefit
55 – 59	213	\$ 7,929,732	\$37,229
60 – 64	285	8,912,011	31,270
65 – 69	217	5,634,574	25,966
70 – 74	191	4,310,640	22,569
75 – 79	175	3,589,572	20,512
80 – 84	106	1,869,801	17,640
Over 84	<u>67</u>	<u>1,109,934</u>	<u>16,566</u>
Total	1,254	\$33,356,264	\$26,600

Vested Retirements

Age	Number	Total Annual Benefit	Average Annual Benefit
55 – 59	46	\$ 679,416	\$14,770
60 – 64	30	351,122	11,704
65 – 69	35	335,268	9,579
70 – 74	14	85,368	6,098
75 – 79	10	46,404	4,640
80 – 84	2	10,920	5,460
Over 84	<u>3</u>	<u>8,208</u>	<u>2,736</u>
Total	140	\$1,516,706	\$10,834

SUMMARY OF SYSTEM MEMBERS

Inactive Members — As of July 1, 2002

Accidental Disability

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	16	\$ 380,016	\$23,751
40 – 44	29	686,196	23,662
45 – 49	63	1,522,826	24,172
50 – 54	107	2,783,525	26,014
55 – 59	183	4,980,217	27,214
60 – 64	155	4,028,040	25,987
65 – 69	112	2,732,064	24,393
70 – 74	69	1,601,508	23,210
75 – 79	48	1,087,656	22,660
80 – 84	23	470,317	20,449
Over 84	<u>15</u>	<u>318,948</u>	<u>21,263</u>
Total	820	\$20,591,313	\$25,111

Ordinary Disability

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	8	\$ 158,232	\$19,779
40 – 44	7	138,156	19,737
45 – 49	16	307,332	19,208
50 – 54	31	701,880	22,641
55 – 59	29	701,328	24,184
60 – 64	28	585,432	20,908
65 – 69	22	382,474	17,385
70 – 74	10	141,348	14,135
75 – 79	8	132,900	16,613
80 – 84	4	57,216	14,304
Over 84	<u>2</u>	<u>32,592</u>	<u>16,296</u>
Total	165	\$3,338,890	\$20,236

SUMMARY OF SYSTEM MEMBERS

Inactive Members — As of July 1, 2002

Beneficiaries (Spouse)

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	10	\$ 149,700	\$14,970
40 – 44	9	118,824	13,203
45 – 49	22	314,604	14,300
50 – 54	36	499,764	13,882
55 – 59	37	508,368	13,740
60 – 64	93	1,117,056	12,011
65 – 69	70	828,399	11,834
70 – 74	121	1,393,072	11,513
75 – 79	117	1,265,376	10,815
80 – 84	146	1,617,720	11,080
Over 84	<u>149</u>	<u>1,570,899</u>	<u>10,543</u>
Total	810	\$9,383,782	\$11,585

Beneficiaries (Children)

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 3	0	\$ 0	\$ 0
3 – 5	1	2,592	2,592
6 – 8	2	6,048	3,024
9 – 11	3	8,952	2,984
12 – 14	5	17,832	3,566
15 – 17	9	37,620	4,180
18 – 20	25	88,488	3,540
Over 20	<u>14</u>	<u>59,268</u>	<u>4,233</u>
Total	59	\$220,800	\$ 3,742

SUMMARY OF SYSTEM MEMBERS

Inactive Members — As of July 1, 2002

Terminated Vested

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	52	\$ 381,228	\$ 7,331
40 – 44	47	608,280	12,942
45 – 49	60	876,564	14,609
50 – 54	85	1,376,064	16,189
Over 54	<u>0</u>	<u>0</u>	<u>0</u>
Total	244	\$3,242,136	\$13,287

**MUNICIPAL FIRE AND POLICE
RETIREMENT SYSTEM OF IOWA**

ACTUARIAL VALUATION REPORT

JULY 1, 2002