

# MUNICIPAL FIRE AND POLICE RETIREMENT SYSTEM OF IOWA ACTUARIAL VALUATION REPORT JULY 1, 1998

Presented by:

MAMMEL & ASSOCIATES, INC.

A SilverStone Group Company



November 10, 1998

MAMMEL & ASSOCIATES Employee Benefit Consulting

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#### PERSONAL & CONFIDENTIAL

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

RE: July 1, 1998 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 provided in this report are based on asset values as of June 30, 1998, participant census data as of July 1, 1998, 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,

Mammel & Associates, Inc.

Donn B. Jones, PSA Executive Vice President

Member of American Academy

of Actuaries

Enrolled Actuary No. 96-2717

Glen C. Gahan, FSA

Senior Vice President

Member of American Academy

of Actuaries

Enrolled Actuary No. 96-4875

DJ/bd

**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	
	1997	1998
Cities Recommended Contribution	\$24,030,778	\$25,042,531
Normal Contribution Rate	17.00%	17.00%
Plan Assets		
Market Value	959,323,108	1,057,097,465
Actuarial Value	884,113,265	989,914,242
Investment Return		
Market Value	14.2%	11.0%
Actuarial Value	11.1%	12.9%
Actuarial Present Value of Accrued Benefits		
Total Accrued Benefits	901,545,468	993,720,785
(Security Ratio)	(106%)	(106%)
Vested Accrued Benefits	816,444,088	900,724,585
(Security Ratio)	(118%)	(117%)
Annual Participating Payroll	141,410,783	147,361,328
Annual Pension Benefits		
Service Retirement	21,637,627	22,467,258
Disabled Retirement	16,570,771	17,587,625
Vested Retirement	866,076	1,036,785
Beneficiaries	<u>6,338,292</u>	6,961,169
Total	\$45,412,766	\$48,052,837
Number of Members		
Active	3,717	3,729
Retirees, Disabled & Beneficiaries	2,852	2,889
Vested Terminated	<u>175</u>	<u>190</u>
Total Participants	6,744	6,808

#### 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 \$25,042,531 be made for the 1998 plan year. This is equal to a contribution rate of 17.00% of payroll. This rate assumes that the State of Iowa will contribute approximately \$2,943,000 for the 1998 plan year.

The Retirement System's total contribution rate remained unchanged at the minimum allowed rate of 17.00%. However, the Retirement System's contribution rate before adjustment to the minimum contribution rate changed as follows:

July 1, 1997 normal contribution rate*	13.62%
<ul> <li>Increase in contribution rate due to fixed state contribution</li> </ul>	0.08%
<ul> <li>Plan experience more favorable than assumed</li> </ul>	(0.32%)
<ul> <li>Asset investments more favorable than assumed</li> </ul>	(2.94%)
Plan change	<u>3.16%</u>
Preliminary normal contribution rate	13.60%
Increase necessary to meet minimum contribution rate	3.40%
July 1, 1998 normal contribution rate	17.00%

<sup>\*</sup> 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	Funde	ed Ratio
	<b>July 1, 1998</b>	<u>1997</u>	1998
Market Value of Plan Assets	\$1,057,097,465		
Actuarial Present Value:			
Accrued Benefits	993,720,785	106%	106%
Vested Accrued Benefits	900,724,585	118%	117%
Interest Rate		7.5%	7.5%

#### **Change in System Provisions**

Effective July 1, 1998 for service, ordinary disability and accidental disability retirements, the percentage of average final compensation for service over 22 years increased from 0.6% to 1.5% per year (up to an additional 8 years). All other system provisions remained unchanged from the prior valuation. This change increased the preliminary normal contribution rate 3.16%.

#### Change in Actuarial Assumptions

There were no changes in the actuarial assumptions from the prior valuation.

#### 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 before any adjustment for minimum contribution rates or state contributions, multiplied by the covered payroll for the year or \$22,980,205 for 1998.

#### **Covered Members**

Ages of Active Members — The average age of the active members has increased. The average age of members included in the valuation was 40.1 for the current year and 39.7 in the prior year.

Service of Active Members — The average service of the active members has increased. The average service of members included in the valuation was 13.8 for the current year and 13.5 in the prior year.

Participating Compensation and Members — Total participating compensation increased from \$141,410,783 to \$147,361,328, a 4.2% increase. The number of active members increased from 3,717 in 1997 to 3,729 in 1998.

Average Annual Compensation — The average compensation of active members is more than the average compensation for the prior year. The average compensation was \$38,044 for 1997 and \$39,518 in 1998.

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 cannot 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 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.

# Retirement System Assets – Market Value

# Year Ending June 30, 1998

		Market Value
Assets at June 30, 1997		\$959,323,108
Receipts:		
Member Contributions	\$ 13,141,764	
Cities Contributions	23,979,899	
State Contributions	2,942,724	
Investment Income	113,399,253	
Investment Expenses	(8,366,176)	
Other	<u>272,930</u>	
Total Receipts		\$145,370,394
Disbursements:		
Pensions Paid to Inactive Members	\$ (46,078,034)	
Termination Withdrawals	(541,199)	
Non-Investment Expenses	(870,941)	
Other	(105,863)	
Total Disbursements		\$ (47,596,037)
Assets at June 30, 1998		\$1,057,097,465

# Retirement System Assets – Actuarial Value

# Year Ending June 30, 1998

1.	Actuarial Value of Assets at July 1, 1997	\$884,113,265
2.	Contributions for 1997 Plan Year (Members, Cities and State)	40,064,387
3.	Benefit distributions and refunds for 1997 plan year	(46,619,233)
4.	Noninvestment Expenses	(870,941)
5.	Expected return on Assets for year at 7.5%	71,675,800
6.	Asset gains/(losses) for prior four plan years a. 1997 b. 1996 c. 1995 d. 1994 e. Total	33,524,344 56,141,074 55,877,717 20,660,721 166,203,856
7.	Asset gains/(losses) to be recognized, 25% x 6e.	41,550,964
8.	Actuarial Value of Assets at July 1, 1998 $= 1 + 2 + 3 + 4 + 5 + 7$	\$989,914,242

# **Retirement System Liabilities and Contributions**

		As of	July 1
Pr	esent Value of Unfunded Future Benefits	<u> 1997</u>	1998
1.	Actuarial Present Value of all Future Benefits  a. Active members		
	Service retirements	\$440,494,533	\$500,245,176
	Ordinary disability	52,734,876	58,647,534
	Accidental disability	162,119,397	177,660,586
	Ordinary death	23,248,259	22,150,870
	Accidental death	21,286,036	23,548,951
	Withdrawal	<u>16.146,013</u>	16,318,846
	Total Active	716,029,114	798,571,963
	b. Inactive members  Members receiving benefits	553,578,439	578,838,969
	Deferred vested terminations	12,966,370	13,486,183
	Refund of member contributions due	79,248	59,319
	Total inactive	566,624,057	592,384,471
	c. Total Present Value of Future Benefits	1,282,653,171	1,390,956,434
2.	Actuarial Value of Plan Assets	884,113,265	989,914,242
3.	Actuarial Present Value of Future Member Contributions	158,781,049	150,280,724
4.	Present value of unfunded future benefits $(1) - (2) - (3)$	249,758,857	250,761,468
De	termination of Preliminary Total Contribution		
5.	Present value of future payroll of all covered members	1,591,242,000	1,607,280,473
6.	Total (Cities plus State) normal contribution (4) ÷ (5)	15.70%	15.60%
7.	Covered payroll	141,357,516	147,309,007
8.	Preliminary total contribution from Cities and State (6) x (7)	22,193,130	22,980,205

# Retirement System Liabilities and Contributions (continued)

### **Determination of Cities' Contribution**

9. Estimated State Contribution	2,943,000	2,943,000
10. Estimated State Contribution as a percent of payroll (9) ÷ (7)	2.08%	2.00%
11. Preliminary Cities' Contribution (8) – (9)	19,250,130	20,037,205
12. Cities' contribution as a percent of payroll (11) ÷ (7)	13.62%	13.60%
13. Minimum required contribution rate for Cities	17.00%	17.00%
14. Cities' contribution (Greater of 12 or 13) x (7)	\$24,030,778	\$25.042.531

# **Actuarial Present Value of Accrued Benefits**

			As of July 1	
	_		<u>1997</u>	1998
1.	Pre	sent value of vested accrued benefits		
	a.	Present value of vested accrued benefits for active members	\$249,820,031	\$308,340,114
	b.	Present value of benefits for terminated members	13,045,618	13,545,502
	c.	Present value of benefits being paid to retirees and beneficiaries	_553,578,439	<u>578,838,969</u>
		Total	\$816,444,088	\$900,724,585
2.	Pre	sent value of accrued nonvested benefits	85,101,380	92,996,200
3.		sent value of all accrued benefits + (2)	\$901,545,468	\$993,720,785
4.	Ma	rket value of assets	\$959,323,108	\$1,057,097,465
5.		io of market value of assets to the present value all accrued benefits (4) ÷ (3)	106.4%	106.4%
6.		tio of market value of assets to the present value vested accrued benefits (4) ÷ (1)	117.5%	117.4%

# **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, 1997	\$ 901,545,468
Change in present value of accrued benefits from July 1, 1997 to July 1, 1998 due to:	
Additional benefits accumulated	\$ 60,061,260
<ul> <li>Interest due to decrease in discount period</li> </ul>	65,899,294
Benefits paid	(46,619,233)
Change in assumptions	0
Change in system provisions	12.833,996
Actuarial present value of accrued benefits on July 1, 1998	\$993,720,785

### **SYSTEM EXPERIENCE**

During the plan year July 1, 1997 to June 30, 1998, actual experience differed from that expected by the actuarial assumptions, as summarized below.

Decrement Type	Expected	Actual
Actives		
Service Retirement	41	32
Accidental Disability	28	32
Ordinary Disability	13	10
Accidental Death	5	0
Ordinary Death	7	2
Withdrawal	76	88
Inactives		
Beneficiary Death	29	28
Disabled Death	30	24
Retirement Death	50	42
Vested Termination Death	1	0

**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	5.00%

### **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

Post-retirement Mortality

Ordinary

1971 Group Annuity Mortality Table, Male and

Female.

• Disabled

1971 Group Annuity Mortality Table – Male, set forward six years.

**Disability Rates** 

Pre-retirement Mortality

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		

### **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 – 60	25 %		
61	30		
62	35		
63	40		
64	45		
65	100 %		

Administrative Expense None assumed.

Percentage Married 85%

Spouses' Age Wives are three years younger than husbands.

Number of Children 2.5 per couple.

Participating Payroll Actual earnable compensation reported

for prior plan year increased for 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 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 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.

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, 1998 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 \$2,943,000 a year.

**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.

Retirement Benefit

**Eligibility** 

After age 55 and completion of 22 years of service.

Benefit

Monthly annuity equal to 60.0% of Average Final Compensation plus 1.5% of Average Final Compensation for each year of service in excess of 22 years (up to 8 additional years). The maximum benefit is 72.0% 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 60.0% of Average Final Compensation plus 1.5% 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.

#### **Ordinary Disability Benefit**

**Eligibility** 

Any age and any length of service.

**Benefit** 

. . .

Monthly annuity payable upon disability equal to either (a) or (b) below, plus (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; plus
- (c) If service at disability exceeds 22 years, an additional 1.5% of average final compensation for each year of service over 22 years (up to 8 additional years).

#### **Accidental Disability Benefit**

**Eligibility** 

Any age and any length of service.

Benefit

A monthly annuity equal to 60% of Average Final Compensation, plus 1.5% of Average Final Compensation for each year of service over 22 years (up to 8 additional years).

#### **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

(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.

#### **Accidental Death Benefit**

Eligibility

Benefit

Death from causes sustained in the line of duty.

A monthly annuity equal to 50% of average final compensation payable to surviving spouse or dependent parents.

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) ordary, accidental or vested (basis benefit only) retirement.

#### 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.

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.

	July 1			
Active Members	1997	1998		
Number	3,717	3,729		
Average Attained Age	39.7	40.1		
Average Past Service	13.5	13.8		
Total Annual Compensation	\$141,410,783	\$147,361,328		
Average Annual Compensation	38,044	39,518		
Non-Active Members in Pay Status				
Number	2,852	2,889		
Average Age (excluding children)	66.3	66.6		
Total Annual Benefits	\$45,412,766	\$48,052,837		
Average Annual Benefit	15,906	16,633		
Non-Active Members with Deferred Be	nefits			
Number*	175	190		
Average Age	45.3	44.8		
Total Annual Benefits	\$2,029,476	\$2,204,245		
Average Annual Benefit	11,731	11,601		

<sup>\*</sup> Excludes 34 and 35 terminated nonvested members who have not yet received a refund of contributions for 1997 and 1998 respectively.

# **Reconciliation of Participant Counts**

		Terminated	In			
	Active	Vested	Beneficiaries	Disableds	Retirees	Total
Number as of July 1, 1997	3,717	175	774	856	1,222	6,744
Change due to:						
New hires and rehires	190	0	0	(1)	0	189
Terminations	(59)*	35	0	0	0	(24)
Retirement	(32)	(12)	2	0	42	0
Disability	(42)	0	0	42	0	0
Death without Beneficiary	0	0	(28)	0	(20)	(48)
Death with Beneficiary	(2)	0	52	(24)	(22)	4
Refund Paid Out	(42)*:	(7)	(1)	0	0	(50)
Other	(1)	(1)	(5)	0	0	(7)
Number as of July 1, 1998	3,729	190	794	873	1,222	6,808

<sup>\*</sup> Ten of the Terminations are from new hires during the period July 1, 1997 to June 30, 1998.

<sup>\*\*</sup> Three of the Refunds Paid Out are from new hires during the period July 1, 1997 to June 30, 1998.

# Active Members — As of July 1, 1998

# **Years of Service**

Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35+	Total	Average Annual Salary
Under 25	111	0	0	0	0	0	0	0	111	\$30,419
25-29	440	100	0	0	0	0	0	0	540	\$33,657
30-34	239	303	86	1	0	0	0	0	629	\$36,523
35-39	111	168	192	92	4	0	0	0	567	\$38,416
40-44	29	70	139	236	159	0	0	0	633	\$41,254
45-49	12	26	58	122	298	106	0	0	622	\$42,655
50-54	4	7	9	23	111	248	75	0	477	\$44,731
55-59	0	1	2	4	8	39	67	8	129	\$47,269
60+	0	0	0	0	1	2	9	9	21	\$46,462
Total	946	675	486	478	581	395	151	17	3,729	
Average Annual Salary	\$33,098	\$37,597	\$39,689	\$41,698	\$43,401	\$45,596	\$48,679	\$51,480		\$39,518

# Inactive Members — As of July 1, 1998

#### **Service Retirements**

Age	Number	Total Annual Benefit	Average Annual Benefit
55 – 59	176	\$4,788,412	\$27,207
60 – 64	210	4,924,243	23,449
65 – 69	217	4,561,357	21,020
70 – 74	204	3,713,168	18,202
75 <b>–</b> 79	158	2,419,235	15,312
80 - 84	81	1,199,999	14,815
Over 84	<u>63</u>	860,844	13,664
Total	1,109	\$22,467,258	\$20,259

### **Vested Retirements**

Age	Number	Total Annual Benefit	Average Annual Benefit
55 – 59	32	\$ 433,472	\$13,546
60 – 64	38	379,923	9,998
65 – 69	20	115,365	5,768
70 – 74	15	79,290	5,286
75 – 79	3	18,397	6,132
80 - 84	2	7,092	3,546
Over 84	3	<u>3,246</u>	1.082
Total	113	\$1,036,785	\$ 9.175

# Inactive Members — As of July 1, 1998

### **Accidental Disability**

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	14	\$ 291,075	\$ 20,791
40 – 44	34	707,537	20,810
45 – 49	56	1,179,147	21,056
50 – 54	122	2,669,688	21,883
55 <b>–</b> 59	149	3,311,069	22,222
60 – 64	119	2,578,013	21,664
65 – 69	101	2,112,022	20,911
70 – 74	61	1,174,947	19,261
75 <b>–</b> 79	34	630,276	18,538
80 – 84	23	402,598	17,504
Over 84	8	<u>145,703</u>	<u> 18,213</u>
Total	<b>72</b> 1	\$15,202,075	\$ 21,085

# **Ordinary Disability**

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	7	\$ 118,727	\$16,961
40 – 44	11	144,871	13,170
45 – 49	21	377,356	17,969
50 – 54	22	403,518	18,342
55 – 59	24	422,560	17,607
60 – 64	29	454,704	15,679
65 – 69	10	115,056	11,506
70 – 74	14	187,669	13,405
75 – 79	7	84,086	12,012
80 – 84	5	50,808	10,162
Over 84	2	<u>26,195</u>	13,098
Total	152	\$2,385,550	\$15,694

# Inactive Members — As of July 1, 1998

### Beneficiaries (Spouse)

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	7	\$ 82,969	\$11,853
40 – 44	14	156,841	11,203
45 – 49	30	351,904	11,730
50 – 54	22	266,925	12,133
55 <b>–</b> 59	85	815,811	9,598
60 – 64	44	452,249	10,278
65 – 69	80	754,746	9,434
70 – 74	95	850,234	8,950
75 – 79	138	1,221,734	8,853
80 – 84	104	883,047	8,491
Over 84	<u>110</u>	937,556	<u>8,523</u>
Total	729	\$6,774,016	\$ 9,292

# Beneficiaries (Children)

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 3	1	\$ 2,639	\$ 2,639
3 – 5	0	0	0
6 – 8	1	2,621	2,621
9 – 11	6	15,018	2,503
12 – 14	9	28,254	3,139
15 – 17	15	40,651	2,710
18 - 20	17	49,901	2,935
Over 20	<u>16</u>	48,069	3,004
Total	65	\$187,153	\$ 2,879

# Inactive Members — As of July 1, 1998

#### **Terminated Vested**

Age	Number	Total Annual Benefit	Average Annual Benefit
Under 40	40	\$ 328,148	\$ 8,204
40 – 44	39	425,587	10,912
45 – 49	57	784,772	13,768
50 – 54	54	665,738	12,328
Over 54	0	0	0
Total	190	\$2,204,245	\$11,601