ACTUARIAL VALUATION COMPLETED AS OF AUGUST 31, 1985

Chicago, Illinois January, 1986

ACTUARIAL VALUATION COMPLETED AS OF AUGUST 31, 1985

Introduction

The law governing the State Universities Retirement System requires the Actuary, as the technical advisor to the Board of Trustees, to

...cause an annual determination to be made by a competent actuary of the liabilities and reserves of the system and an annual determination of the amount and distribution of the required employer contributions. (Chapter 108-1/2, Par. 15-173)

The Wyatt Company, as Actuary, has completed a valuation as of August 31, 1985, based upon membership and financial data compiled by the administrative staff of the System, and the results of the valuation are presented in this report. The actuarial assumptions and methods used are the same as those used for the prior year and there were no benefits changes that had an effect on the valuation.

In total, the recommended contribution as a percentage of reported earnings decreased slightly from last year's level. The normal cost rate is slightly lower due primarily to a decrease in the average age at date of membership, and the contribution towards the unfunded liability is higher because last year's contribution did not cover the interest accruing at our assumed rate. The experience over the year was mixed as the investment performance was greater than expected and the average salary increases were higher than expected. These combined to produce an actuarial loss of about 0.6% of the actuarial liability.

Summarized below are certain important results for both years.

		August 31, 1984	August 31, 1985
1.	Number of Active Members	44,487	48,447
2.	Reported Earning (Average)	\$1,016,162,269 (22,842)	\$1,141,927,203 (23,571)
3.	Number of Members Receiving Payments	12,620	13,460
4.	Annual Benefit Payments (Average)	\$ 88,067,368 (6,978)	\$ 99,722,006 (7,409)
5.	Assets: (a) Book Value (b) Market Value	\$1,524,371,250 \$1,563,133,335	\$1,752,291,817 \$1,903,413,731
6.	State Normal Cost (% Payroll)	8.785%	8.778%
7.	Actuarial Liability (Funded Percentage)	\$3,374,047,244 (45.2%)	\$3,761,855,880 (46.6%)
8.	Unfunded Actuarial Liability	\$1,849,675,994	\$2,009,564,063

The increase in the unfunded actuarial liability of \$159,888,069 was due to the following:

1. Contribution being less than the amount necessary to fund normal cost and interest on the unfunded.

	(a)	Unfunded at 8/31/84	\$1	,849,675,994
	(b)	Contributions Due (i) Interest on the unfunded to 8/31/85 (ii) Total Normal Cost (iii) Interest on Normal Cost to 8/31/85 (iv) Total Due	\$ \$	147,974,080 170,670,312 6,826,812 325,471,204
	(c)	Contributions Paid (i) Participants (ii) Employer (Includes State Agencies and	\$	97,776,613
		State Pension Fund) (iii) Interest on contributions to 8/31/85 (iv) Total Paid	\$ \$	83,482,767 7,250,375 188,509,755
	(d)	Increase in Unfunded (b) minus (c)	\$	136,961,449
2.	Actuari	al (Gains) Losses		
	(a)	Gain from investment return greater than 8%	(\$	46,519,610)
	(b)	Loss from salary increases greater than 8%	\$	59,952,243
	(c)	Loss from other sources	\$	9,493,987
3.	Total		\$	159,888,069

APPROPRIATION REQUIREMENTS FOR FISCAL YEAR SEPTEMBER 1, 1985 - AUGUST 31, 1986

The law governing the System requires that the State shall make contributions to the System, which with employee contributions, investment income and other income of the System

...will be sufficient to meet the requirements of this Article in accordance with actuarial determinations. In no event shall the contributions of employers from State appropriations for any fiscal year be less than an amount which when added to contributions from other sources and investment income for that year is sufficient to meet (a) the total accruing normal costs plus interest at the prescribed rate on the unfunded accrued liabilities or (b) the accruing requirements necessary to retain qualified status under Section 401(a) of the United States Internal Revenue Code¹, or any similar provision as successor thereof.

(1 26 U.S.C.A. \$401.)

The law defines normal cost as:

...the liability for pensions and other benefits which accrues to the system because of the credits earned for service rendered by the participants during the fiscal year and expenses of administering the system.

Section 401(a) of the Internal Revenue Code would require essentially the same contribution as required under (a) above. The cited Section does require a different minimum contribution for private plans. The "40 year amortization" amount shown corresponds to the minimum requirements for private plans upon passage of ERISA. It may also be deemed the minimum amount required as expense pursuant to Accounting Principles Board Opinion No. 8, although any "balance sheet accruals" prior to September 1, 1985 are ignored.

Basis	<u>A</u>	Required ppropriation
Normal Cost and Interest	\$	255,392,390
Normal Cost and 40 Year Amortization	\$	266,647,475

GASB: Value of Accrued Pension Benefit Obligation

The Governmental Account Standards Board has proposed a statement of governmental accounting standards which sets forth certain standards of financial account and reporting for the annual financial statements of a defined benefit pension plan. This statement, if adopted, would be effective for plan years beginning after June 30, 1985.

This statement requires the disclosure of actuarial present value of credited projected benefits, the effect on this value as a result of a 1 percent change in the interest rate assumption, and the effect of any changes in actuarial assumptions or benefit provisions. The actuarial present value of credited projected benefits is a standardized disclosure measure of the accrued pension benefit obligation. It is the discounted amount of benefits estimated to be payable in the future as a result of employee service through the balance sheet date, computed by attributing an equal benefit amount (including the effects of projected salary increases and step-rate benefits) to each year of credited and expected future employee service.

This measure of the pension benefit obligation was not computed for last year's valuation. However, in many respects it is similar to the value of credited projected benefits that were reported last year.

We are showing those numbers for comparison purposes.

Actuarial Present Value of Credited Projected Benefits	August 31, 1985	August 31, 1984
Accumulated Contributions of current employees	\$ 927,746,670	\$ 831,584,418
Payable to Retirees and Beneficiaries	984,656,297	861,154,709
Payable to Terminated Employees not yet receiving benefits	178,830,003	160,932,346
Payable to Vested Current Employees - employer-financed portion	1,381,997,801	*
Payable to Nonvested Current Employee employer-financed portion	es - 75,865,491	*
Total APV of Credited Projected Benefits	\$3,549,096,262	\$3,356,936,902
Net Assets available for benefits (Market value at August 31, 1985 is	\$1,752,291,817	\$1,524,371,250
Unfunded APV of Credited Projected Benefits	\$1,796,804,445	\$1,832,565,652

* Not Calculated

Compared to the assets valued on the same basis as for funding purposes, the credited projected benefits are 49.4% funded compared with 45.4% last year. This increase reflects a change in the method of calculation - benefits payable in the future are assumed to accrue in an equal amount for each year of service, instead of at the rates specified in the plan.

15 Year Projection

Based on the results of our valuation and the assumptions used therefor, we have projected what the valuation results will be for the next 15 years under the Entry Age Normal Cost Method. The projection was completed on the assumption that the State makes contributions equal to 100% of the estimated annual benefit payments (excluding refunds), and Administrative Expenses, beginning with fiscal year 1986.

The results of this projection are shown in Table 3. Certain key results are summarized below. (\$ amounts are in millions.)

_		Fiscal	Year Ending	
	8/31/85	8/31/90	8/31/95	8/31/2000
Number of Active Members	48,447	48,447	48,447	48,447
Payroll	\$1,182	\$1,565	\$2,103	\$2,813
Valuations Results				
Normal Cost	\$ 104	\$ 139	\$ 199	\$ 278
(% Payroll)	(8.8%)	(8.9%)	(9.5%)	(9.9%)
Actuarial Liability	\$3,762	\$6,144	\$9,206	\$13,369
Assets (Book Value)	\$1,752	\$3,184	\$5,509	\$9,222
(Funded %)	(46.6%)	(51.8%)	(59.8%)	(69.0%)
FASB #35				
Value of Accrued Benefits	\$3,306	\$5,356	\$8,281	\$12,342
(Funded %)	(53.0%)	(59.4%)	(66.5%)	(74.7%)

The remainder of the report is comprised of the following:

Table 1 - Results of Actuarial Valuation

Table 2 - Value of Credited Projected Benefits (GASB)

Table 3 - Fifteen Year Projection

Description of Actuarial Method and Assumptions

Summary of Plan Provisions

To the best of our knowledge this actuarial statement is complete and accurate and has been prepared in accordance with generally accepted actuarial principals and practice.

Respectfully submitted,

THE WYATT COMPANY

Actuarial Assistant

Lloyd L. Nordstrom Fellow of The Society of Actuaries

By

Robert I

Fellow of The Society of Actuaries

Chicago, Illinois January 1986

THE Wyatt COMPANY

RESULTS OF ACTUARIAL VALUATION AS OF AUGUST 31, 1985

MEMBER DATA

1.	Number of Members: (a) Members Receiving Annuities (i) Retirement (ii) Survivor (includes prosection widows and widowers) (iii) Disability (b) Other Inactive Members (c) Active (d) Total	spective	9,982 2,685 793 5,098 48,447 67,005
2.	Annual Reported Earnings of Active Me	embers	\$1,141,927,203
3.	Annual Annuity Payments Currently Best(a) Retirement (b) Survivor (c) Disability (d) Total	ing Made:	\$ 84,065,540 9,160,171 6,496,295 \$ 99,722,006
VALUAT	ION RESULTS		
4.	Actuarial Liability for Members Reces (a) Retirement (b) Survivors (c) Disability (d) Total	iving Annuities:	\$ 858,266,013 71,537,818 54,852,466 \$ 984,656,297
5.	Actuarial Liability for Inactive Memb	pers	\$ 178,830,003
6.	Active Members:	Normal Cost*	Actuarial Liability
	 (a) Pension Benefits (b) Cost-of-Living Adjustments (c) Death Benefits (excludes refunds) (d) Disability: 	\$ 74,221,134 15,411,439 14,649,524	\$1,710,700,056 350,083,602 237,099,231
	(i) Accidental(ii) Ordinary(iii) Total(e) Withdrawals and Refunds	1,540,801 25,596,954 27,137,755 53,117,494	9,974,407 219,357,696 229,332,103 71,154,588
	(f) Expenses (g) Total Actives	7,080,000 \$191,617,346	\$2,598,369,580

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		Normal Cost*		Actuarial Liability
7.	Total	\$191,617,346	\$3	,761,855,880
8.	Assets		\$1	,752,291,817
9.	Unfunded Actuarial Liability		\$2	,009,564,063
10.	Expected Employee Contributions	\$ 91,380,189		
11.	Annual Normal Cost To Be Provided by the State	\$100,237,157		
ANNUAL	EXPENSE*			
		Percent Of Pay		Amount
12.	"Forty Year Amortization": (a) Normal Cost (b) Contribution Towards Unfund (c) Total	8.778% ed 23.351%	\$	100,237,157 166,410,318 266,647,475
13.	"Interest Only Funding": (a) Normal Cost (b) Interest on Unfunded (c) Total	8.778% 22.365%	\$	100,237,157 155,155,233 255,392,390

^{*} All figures have been adjusted by the appropriate interest factor for monthly contributions.

ACTUARIAL PRESENT VALUE OF CREDITED PROJECTED BENEFITS AT AUGUST 31, 1985 (GASB)

			Vested	Non-Vested	Total
1.	Participants Currently Receiving Payments	\$	984,656,297		\$ 984,656,297
2.	Inactive Members	\$	178,830,003		\$ 178,830,003
3.	Active Members: (a) Pension Benefits (b) Cost-of-Living Adjustments (c) Death Benefits: (excludes refunds) (d) Disability (i) Accidental (ii) Ordinary (iii) Total (e) Withdrawals and Refund (f) Total Actives (g) Employee Contributions (h) Employer Financed	ls \$2	1,283,956,952 \$ 261,448,694 199,743,080 11,544,326 224,634,022 236,178,348 273,428,383 2,254,755,457 \$ 872,757,656 1,381,997,801	37,351,837 7,793,605 9,531,967 1,486,924 24,551,122 26,038,046 50,139,050 130,854,505 54,989,014 75,865,491	\$1,321,308,789 269,242,299 209,275,047 13,031,250 249,185,144 262,216,394 323,567,433 \$2,385,609,962 927,746,670 1,457,863,292
4.	Grand Total	\$3	3,418,241,757 \$	130,854,505	\$3,549,096,262

Notes:

- (1) Credited projected benefits were calculated in accordance with plan provisions in effect on August 31, 1985, based on members' service as of such date and on the members' historical and projected pay.
- (2) Future automatic cost-of-living increases were recognized.
- (3) The actuarial assumptions utilized were the same as those adopted for funding purposes.

STATE UNIVERSITIES RETIREMENT SYSTEM OF ILLINOIS

FIFTEEN YEAR PROJECTION OF COSTS AND LIABILITIES (All Dollar Amounts In Billions)

				(Ex.	Fiscal Year	Ending 8/31			
		1985	1986	1987		1989	1990	1995	2000
1.	Number of Active Members	48,447	48,447	48,447	48,447	48,447	48,447	48,447	48,447
2.	Annual Compensation	\$1.182	\$1.248	\$1.317	\$1.393	\$1.476	\$1.565	\$2.103	\$2.813
'n	Annual beneilt rayments & Administrative Expense	\$.120	\$.136	\$.154	\$.170	\$.187	\$.211	\$.336	\$.538
4.	Actuarial Liability	\$3.762	\$4.347	\$4.749	\$5.182	\$5.648	\$6.144	\$9.206	\$13.369
'n.	(Relifed Lile Reserves) Assets (Book)	1.752	1.986	2.243	2.527	2.839	3.184	5.509	9.222
9	Unfunded Actuarial Liability (Funded Percentage)	2.010 (46.6%)	2.362 (45.7%)	2.506 (47.2%)	2.655 (48.8%)	2.809 (50.3%)	2.960 (51.8%)	3.697 (59.8%)	4.147 (69.0%)
8.	<pre>Employee Contributions State Normal Cost (% Payroll)</pre>	\$0.098 0.104 (8.8%)	\$0.100 0.110 (8.8%)	\$0.105 0.107 (8.1%)	\$0.112 0.118 (8.4%)	\$0.118 0.128 (8.7%)	\$0.125 0.139 (8.9%)	\$0.168 0.199 (9.5%)	\$0.225 0.278 (9.9%)
.6	State Contribution (% Pavroll)	\$0.070	\$0.115	\$0.131	\$0.147	\$0.163 (11.0%)	\$0.185 (11.8%)	\$0.304	\$0.496
10.	Other Contributions (Federal, Reciprocity, etc)	\$0.013	\$0.010	\$0.011	\$0.011	\$0.012	\$0.013	\$0.017	\$0.023
FASB	#35								
11.	Value of Accrued Benefits (Funded Percentage)	\$3.306 (53.0%)	\$3.681 (53.9%)	\$4.053 (55.3%)	\$4.456 (56.7%)	\$4.891 (58.0%)	\$5.356 (59.4%)	\$8.281 (66.5%)	\$12.342 (74.7%)

trative expenses assumed for subsequent years. Employee contributions include qualifying payments. Compensation, Benefit Payments, Contributions and Normal Cost represent cash flow for the year just ended. All other dollar amounts are values Actual State Contributions used for FY85. State Contributions equal to Benefit Payments (excluding refunds) and Adminis-Actual Expense used for FY85. Expenses estimated at \$7.1 million for FY86; increasing by 10% per annum thereafter. at the end of the fiscal year.

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ACTUARIAL COST METHOD

An entry age normal cost method is used. Under this method, the projected pensions at retirement age are first determined and the values thereof at the individual member's entry age or hire age are determined. The values so determined are divided by the value at entry age of all future compensation payable to the member to determine the normal cost as a level percentage of covered pay. The normal cost for a particular year is that percentage of covered compensation for the year.

The actuarial liability at any point in time is the value of the projected pensions at that time, less the value of future normal costs.

For ancillary benefits for both active and inactive members, in particular disability benefits, death and survivor benefits, termination benefits and the post-retirement increments, the same procedure as outlined above is followed.

Estimated annual administrative expenses are added to the normal cost.

ACTUARIAL ASSUMPTIONS

Mortality:

1986 Projected Experience Table, a table based on experience underlying the 1971 Group Annuity Mortality Table, without margins, with a projection for mortality improvements to 1986, with a one year setback.

Interest:

8% per annum, compounded annually.

Termination:

Illustrative rates of withdrawal from the plan are as follows:

Age	Males	<u>Females</u>
20	0.374	0.524
25	0.249	0.324
30	0.174	0.219
35	0.124	0.154
40	0.073	0.104
45	0.047	0.064
50	0.020	0.038
55		0.013

It is assumed that terminated employees will not be rehired.

Salary Increases:

8% per annum, compounded annually.

Disability Rates:

Incidence of disability amongst employees.

Age	Males	<u>Females</u>
20	0.0018	0.0034
25	0.0018	0.0034
30	0.0018	0.0034
35	0.0018	0.0034
40	0.0034	0.0060
45	0.0058	0.0090
50	0.0091	0.0123
55	0.0140	0.0164
60	0.0234	0.0219

5% of disabilities amongst active employees are assumed to be caused by "on-the-job" accidents where a qualifying workers' compensation award is granted. During the first 2 years of service, one quarter of disabilities are assumed to arise as a result of an accident.

Employees receiving a disability allowance are assumed to recover or die in accordance with the following tables:

<u>Age</u>	Rate of Recovery	Rate of Mortality
20	0.256	0.044
25	0.156	0.044
30	0.096	0.044
35	0.056	0.044
40	0.016	0.044
50		0.045
60		0.053
70		0.075
80		0.130
90		0.240

Retirement Rates:

Retirement was assumed to occur at age 62.

Assets:

Assets available for benefits are used at book value.

Expenses:

As estimated and advised by SURS staff, based on current expenses with an allowance for expected increases.

Marital Status:

85% of employees are assumed to be married.

Spouses Age:

The female spouse is assumed to be 3 years younger than the male spouse.

Remarriage Rates:

The surviving spouse of deceased employees are assumed to remarry in accordance with the following table:

Age	Rate of Remarriage	<u>Age</u>	Rate of Remarriage
20	0.144	40	0.028
25	0.094	45	0.018
30	0.059	50	0.010
35	0.040	55	0.004

Children:

It is assumed that married members have 2.5 children one year apart in age.

The age of the youngest child of a deceased employee at his date of death is assumed to be as follows:

Age At	Ωį	ge Of	
Death Of	You	ıngest	
Employee	Child		
20	2	Years	
25	3		
30	4 5		
35	5		
40	6		
45	8	Years	
50	10		
55	12		
6 0	14		

Effective Rate of Interest:

The rate of interest credited on member contributions as in effect for the year beginning on the valuation date is assumed to remain in effect until retirement.

Earnings Data:

If earnings were not available, the annual salary was assumed to be \$21,500.

The following is a summary of the major provisions of the State Universities Retirement System as in effect on the date of the valuation (8/31/85).

Membership:

The System covers faculty and non-academic permanent employees of State Universities and Colleges, Community Colleges, State Scientific Surveys and other related agencies.

Employees hired after age 68, employed less than 50% full-time or employed less than full-time and attending classes with an employer are ineligible to participate.

Member Contributions:

8% of gross earnings. 6-1/2% of the 8% contributions are designated for retirement annuities, 1/2% for automatic annual increases and 1% for survivor benefits. Police officers and firefighters contribute 9-1/2% of earnings. The additional 1-1/2% is a normal retirement contribution.

Interest Credited on Member Contributions:

The interest rate credited is fixed by the Board and is currently 8%. For purposes of lump sum payments to former members, the interest rate is 4-1/2%.

Normal Retirement:

Members are eligible for normal retirement after 35 years of covered service, after 8 years of covered service and age 60, or after 5 years of covered service and age 62. Policemen and firemen are eligible for normal retirement at age 55 with 20 years of service, or at age 50 with 25 years of service.

The annuity payable is based on the largest of three formulas:

(1) The following percentages of "average earnings", the highest earnings for any 4 consecutive years:

		General	Police & Firemen
(a)	For each of the first 10 years		
	of service	1.67%	2.25%
(b)	For each of the next 10 years		•
	of service	1.90%	2.50%
(c)	For each of the next 10 years	= :	
	of service	2.10%	2.75%
(d)	For each year of service over 30	2.30%	2.75%

- (2) The actuarial equivalent of 2.4 times the accumulated member contributions for retirement annuities (6-1/2% of earnings for ordinary members, 8% of earnings for police officers and firefighters). The actuarial equivalent assumes a constant annuity payable for life.
- (3) For each year of service up to a maximum of 30 years, if employed one-half time or more, the following monthly amounts based on average earnings:

"Average Annual Earnings"

Under \$3,500	\$ 8
\$3,500 - \$4,500	, j
\$4,500 - \$5,500	10
\$5,500 - \$6,500	11
Over \$6,500	$\overline{12}$

For members first participating hired after September 14, 1977, the maximum annuity under (1) or (2) is 75% of average earnings. The maximum is 80% of average earnings for members who participated on or before September 14, 1977.

Early Retirement:

Members are eligible for early retirement after 8 years of service and age 55 but the annuity calculated under formula (1) or (3) above is reduced by 1/2% for each month such retirement precedes age 60.

Early Retirement Without Discount:

A member may retire between the ages of 55 and 60 with at least 8, but not more than 35 years service credit, without 1/2 of 1% reduction provided:

- (1) The member does so between September 8, 1981 and June 30, 1987.
- (2) The member retires within 6 months of the last day of employment.

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(3) The member and the employer make one-time lump sum payments to the Retirement System based upon the member's highest full-time annual salary rate during the 4 year average salary period, or if not full-time, the full-time equivalent. The member pays 7% of the base salary for each year or fraction of a year prior to age 60 or for each year or fraction of a year that his service credit is less than 35 years, whichever is less. The employer payment is 20% of the base salary for each year or fraction of a year prior to age 60. These one-time payments do not increase the amount of service credit, but merely eliminates the 1/2 of 1% reduction for retiring before age 60 with less than 35 years of service.

Until June 1, 1982, the number of members using this provision was limited to any number at the option of the employer. Beginning June 1, 1982 until June 30, 1987, the number of members using this provision may be limited, at the option of the employer, to no less than 15% of those eligible during any year. The right to participate is allocated among those applying on the basis of seniority in the service of the employer.

Disability:

Members with 2 years of covered service who are unable to perform their duties because of illness or any amount of covered service if because of an accident, are eligible for disability after 60 days of disability.

The amount of the disability benefit is as follows:

- (1) 50% of basic compensation at disability or 50% of average earnings for the 24 months preceding disability, whichever is greater, payable until the total benefits paid equal 50% of the total earnings in covered service, but in no event after September 1 following the employee's 70th birthday.
- (2) After cessation of the benefit in (1), members who had 8 years of covered service will receive the normal retirement benefit commencing at or after age 55 (with no reduction for early retirement) if the member continues to be disabled.

The disability benefit will cease upon death or recovery.

Disability Retirement Allowance:

If a member's disability benefits are discontinued due to the 50% of total earnings limitation, the member is entitled to a disability retirement allowance of 35% of the basic compensation which was payable at the time the disability began, provided at lease 2 licensed and practicing physicians appointed by the Board certify that the member has a medically determined physical or mental impairment which would prevent him/her from engaging in any substantial gainful activity, and which can be expected to result in death, or which has lasted or can be expected to last for a continuous period of not less than 12 months.

The disability retirement allowance is payable for life unless the member is able to accept substantial gainful employment, or elects to receive a retirement annuity.

Death Benefits Before Retirement:

Upon death of an active member with 1-1/2 years of covered service, or of a former member with 10 years of covered service, the following amounts are paid to the member's survivors:

- (1) A death benefit equal to the retirement contributions (7%) and interest, plus
- (2) A lump sum payment of \$1,000, plus
- (3) A monthly survivor's annuity equal to the greater of 50% of the member's accrued normal retirement benefit or the following amounts if greater:
 - (i) 30% of average earnings to a spouse, child or parent, up to \$400 monthly.
 - (ii) 60% of average earnings to a spouse and 1 child, up to \$600 monthly.
 - (iii) 80% of average earnings to a spouse and 2 or more children, up to \$600 monthly.

Survivor's benefits are payable until children attain age 18, to a spouse after age 50 and a dependent parent after age 55. The spouse's benefit is payable at any age while children are under 18 and living with the spouse. If death occurs after termination of employment, the monthly survivors annuity may not exceed 80 percent of the earned retirement annuity.

If there are no dependent survivors, the member did not have the necessary service or if the dependent survivors so elect in lieu of any other benefits, the following amounts will be paid.

- A refund of all contributions and interest, and
- (2) If death occurred in active service, a lump sum payment of \$2,500 or, if the beneficiary is a dependent, an amount equal to the member's average annual earnings up to \$5,000.

Death Benefits After Retirement:

A lump sum benefit of \$1,000 is payable to the member's spouse, children or dependent parent. In addition, a survivor's annuity as outlined above is payable. If no survivor annuity is payable, a minimum death benefit of \$1,000 or an amount equal to the excess of the member's contributions and interest at retirement over the benefits paid is payable.

Automatic Increases:

Retirement benefits are increased annually after retirement by 3% of the original retirement annuity. Note that the increase is not compounded and does not apply to survivor's or disability benefits. The first automatic annual increase in retirement annuity is paid on the January 1st nearest the annuitant's 61st birthday or the January 1st nearest the first anniversary of retirement, whichever is later.

Termination of Service:

A lump sum refund of all member contributions and interest (at 4-1/2%) will be made. If a member has 5 years of covered service and does not apply for a refund, a normal retirement benefit will be payable at age 62.