EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA REPORT OF ACTUARY ON THE VALUATION PREPARED AS OF JUNE 30, 2002



A Mellon Financial Company:

200 Galleria Parkway, N.W., Suite 1900 Atlanta, Georgia 30339-5945

May 30, 2003

Board of Trustees Employees' Retirement System of Georgia Two Northside 75, Suite 300 Atlanta, GA 30318

Attention: Ms. Cecelia Corbin Hunter, Executive Director

Members of the Board:

Section 47-2-26 of the law governing the operation of the Employees' Retirement System of Georgia provides that the actuary shall make periodic valuations of the contingent assets and liabilities of the Retirement System on the basis of regular interest and the tables last adopted by the Board of Trustees. We have submitted the report giving the results of the actuarial valuation of the System prepared as of June 30, 2002. The report indicates that annual employer contributions at the rate of 5.66% of active payroll for Old Plan members and 10.41% of active payroll for New Plan members for the fiscal year ending June 30, 2004 are sufficient to support the benefits of the System. In preparing the valuation, the actuary relied on data provided by the System. While not verifying data at the source, the actuary performed tests for consistency and reasonableness. Our firm, as actuary, is responsible for all of the actuarial trend data in the financial section of the annual report and the supporting schedules in the actuarial section of the annual report.

In our opinion, the valuation is complete and accurate, and the methodology and assumptions used are reasonable as a basis for the valuation. The valuation takes into account the effect of all amendments to the System enacted through the 2002 session of the General Assembly as well as the 1.5% Ad Hoc COLAs effective July 1, 2002 and January 1, 2003.

The System is funded on an actuarial reserve basis. The actuarial assumptions recommended by the actuary and adopted by the Board are in the aggregate reasonably related to the experience under the System and to reasonable expectations of anticipated experience under the System. The assumptions and methods used for funding purposes meet the parameters set for the disclosures presented in the financial section by Governmental Accounting Standards Board (GASB) Statement Nos. 25 and 27. The funding objective of the plan is that contribution rates over time will remain level as a percent of payroll. The valuation method used is the entry age normal cost method. The normal contribution rate to cover current cost has been determined as a level percent of payroll. Gains and losses are reflected in the unfunded accrued liability which is negative and being amortized as a level percent of payroll within a 13-year period.

The Retirement System is being funded in conformity with the minimum funding standard set forth in Code Section 47-20-10 of the Public Retirement Systems Standards Law. In our opinion the System is operating on an actuarially sound basis. Assuming that contributions to the System are made by the employer from year to year in the future at the rates recommended on the basis of the successive actuarial valuations, the continued sufficiency of the retirement fund to provide the benefits called for under the System may be safely anticipated.

This is to certify that the independent consulting actuary is a member of the American Academy of Actuaries and has experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement system and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.

Sincerely,

Edward A. Macdonald Principal, Consulting Actuary

EAM:sr

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EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA REPORT OF ACTUARY ON THE VALUATION PREPARED AS OF JUNE 30, 2002

SECTION I - SUMMARY OF PRINCIPAL RESULTS

For convenience of reference, the principal results of the valuation and a comparison with the
preceding year's results are summarized below (all dollar amounts are in thousands).

Valuation Date	June 30, 2002	June 30, 2001
Active members: Number Annual compensation	71,790 \$ 2,408,306	75,132 \$ 2,397,169
Retired members and beneficiaries: Number Annual allowances	27,229 \$ 598,493	25,889 \$ 538,890
Assets:	; ! !	
Market Value Actuarial Value	\$ 11,558,373 12,124,414	\$ 12,343,625 11,750,624
Unfunded actuarial accrued liability	\$ (129,564)	\$ (193,369)
Amortization period	13 years	20 years
For Fiscal Year Ending	June 30, 2004	June 30, 2003
Annual required employer contribution rates (ARC):		
Old Plan Normal Accrued Liability Total	6.21% <u>(0.55)</u> 5.66%	6.24% (<u>0.58)</u> 5.66%
New Plan Normal (includes 4.75% paid for member) Accrued Liability Total	10.96% <u>(0.55)</u> 10.41%	10.99% <u>(0.58)</u> 10.41%

2. The major benefit and contribution provisions of the System as reflected in the valuation are summarized in Schedule F. The valuation takes into account the effect of amendments to the System enacted through the 2002 session of the General Assembly. The valuation reflects 1.5% Ad Hoc COLAs effective July 1, 2002 and January 1, 2003.

- Schedule D of this report outlines the full set of actuarial assumptions and methods used. There
 have been no changes since the previous valuation.
- The entry age actuarial cost method was used to prepare the valuation. Schedule E contains a brief description of the actuarial cost method.
- Comments on the valuation results as of June 30, 2002 are given in Section IV and further discussion of the contributions is set out in Section V.

SECTION II - MEMBERSHIP DATA

Data regarding the membership of the System for use as a basis for the valuation were furnished by the Retirement System office. The following table shows the number of active members, their annual compensation and average annual compensation as of June 30, 2002 on the basis of which the valuation was prepared.

THE NUMBER, ANNUAL COMPENSATION AND AVERAGE ANNUAL COMPENSATION OF ACTIVE MEMBERS AS OF JUNE 30, 2002

NUMBER	ANNUAL COMPENSATION (in thousands)	AVERAGE ANNUAL COMPENSATION	
71,790	\$ 2,408,306	\$ 33,547	

2. The following table shows the number of retired members and beneficiaries on the roll as of June 30, 2002, together with the amount of their annual retirement allowances payable under the System as of that date.

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS AND BENEFICIARIES ON THE ROLL AS OF JUNE 30, 2002

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES (in thousands)
Service Retirements	19,302	\$ 467,732
Disability Retirements	3,650	84,142
Beneficiaries of Deceased Members	<u>4,277</u>	<u>46,619</u>
Total	27,229	\$ 598,493

Tables 1 and 2 of Schedule G give the distributions by age and by years of creditable service of
the number and annual compensation of active members included in the valuation, while Tables
 4 and 5 give the number and annual retirement allowances of retired members and
beneficiaries included in the valuation, distributed by age.

SECTION III - ASSETS

- Two funds are maintained for the purpose of recording the financial transactions of the System,
 namely, the Annuity Savings Fund and the Pension Accumulation Fund.
 - (a) 🌖 Annuity Savings Fund

The Annuity Savings Fund is the fund to which are credited all contributions made by or on behalf of members together with regular interest thereon. When a member retires, or if a death benefit allowance becomes payable to his beneficiary, his accumulated contributions are transferred from the Annuity Savings Fund to the Pension Accumulation Fund. The portion of the allowance which these contributions provide is then paid from the Pension Accumulation Fund. On June 30, 2002 the market value of assets credited to the Annuity Savings Fund amounted to \$791,983,000.

(b) Pension Accumulation Fund

The Pension Accumulation Fund is the fund to which all income from investments and all contributions made by employers are credited. All retirement allowance and death benefit allowance payments are disbursed from this fund. Upon the retirement of a member, or upon his death if a death benefit allowance is payable, his accumulated contributions are transferred from the Annuity Savings Fund to this fund to provide the member-contributed portion of the allowance. On June 30, 2002 the market value of assets credited to the Pension Accumulation Fund amounted to \$10,766,390,000.

- 2. As of June 30, 2002 the total market value of assets amounted to \$11,558,373,000 as reported by the independent auditor of the System. The actuarial value of assets used for the current valuation was \$12,124,414,000. Schedule B shows the development of the actuarial value of assets as of June 30, 2002.
- Schedule C shows the receipts and disbursements of the System for the two years preceding the valuation date and a reconciliation of the fund balances at market value.

SECTION IV - COMMENTS ON VALUATION

- Schedule A of this report contains the valuation balance sheet which shows the present and prospective assets and liabilities of the System as of June 30, 2002 (all dollar amounts are in thousands). The valuation was prepared in accordance with the actuarial assumptions set forth in Schedule D and the actuarial cost method which is described in Schedule E.
- 2. The valuation balance sheet shows that the System has total prospective liabilities of \$14,882,416 of which \$5,790,380 is for the prospective benefits payable on account of present retired members, beneficiaries of deceased members, and members entitled to deferred vested benefits and \$9,092,036 is for the prospective basic benefits payable on account of present active members. Against these liabilities, the System has total present assets of \$12,124,414 as of June 30, 2002. The difference of \$2,758,002 between the total liabilities and the total present assets represents the present value of contributions to be made in the future. Of this amount, \$1,394,843 is the present value of future contributions expected to be made by or on behalf of members, including employer paid member contributions of 4.75% of compensation for New Plan members. The balance of \$1,363,159 represents the present value of future contributions payable by the employers.

- 3. The employer contributions to the System consist of normal contributions and accrued liability contributions. The normal contribution rate is calculated as the level percentage rate which, if applied to the compensation of the average member during the entire period of his anticipated covered service, would be required in addition to the contributions by or on behalf of the member to meet the cost of all basic benefits (i.e., benefits other than post-retirement supplements) payable on his behalf. The valuation indicates that the employer normal contribution rate is 6.21% of active members' compensation.
- 4. Prospective employer normal contributions at the rate of 6.21% have a present value of \$1,492,723. When this amount is subtracted from \$1,363,159, which is the present value of total future employer contributions, there remains (\$129,564) as the unfunded actuarial accrued liability.
- 5. The accrued liability contribution rate is (0.55%) of active members' compensation, which will liquidate the unfunded actuarial liability over a 13 year period, on the assumption that the total payroll of active members will increase by 3.50% each year.

SECTION V - CONTRIBUTIONS PAYABLE BY EMPLOYERS

The following table summarizes the employer contribution rates which were determined by the June 30, 2002 valuation and are recommended for use.

ANNUAL REQUIRED EMPLOYER CONTRIBUTION RATES (ARC)
FOR FISCAL YEAR ENDING JUNE 30, 2004

	Old Plan	New Plan
Normal	6.21%	6.21%
Employer paid for member	0.00	4.75
Accrued liability	<u>(0.55)</u>	(0.55)
Total	5.66%	10.41%

SECTION VI - ACCOUNTING INFORMATION

1. Governmental Accounting Standards Board Statements 25 and 27 set forth certain items of required supplementary information to be disclosed in the financial statements of the System and the employer. One such item is a distribution of the number of employees by type of membership, as follows:

NUMBER OF ACTIVE AND RETIRED MEMBERS AS OF JUNE 30, 2002

GROUP	NUMBER
Retirees and beneficiaries currently receiving benefits	27,229
Terminated employees entitled to benefits but not yet receiving benefits	59,796
Active plan members	<u>71,790</u>
Total	<u>158,815</u>

2. Another such item is the schedule of funding progress as shown below.

SCHEDULE OF FUNDING PROGRESS (Dollar amounts in thousands)

Actuarial Valuation <u>Date</u>	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) - Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
6/30/97	\$ 7,432,306	\$ 8,159,345	\$ 727,039	91.1%	\$1,977,928	36.8%
6/30/98	8,613,575	9,093,758	480,183	94.7	2,055,966	23.4
6/30/99	9,848,723	9,695,614	(153,109)	101.6	2,152,072	(7.1)
6/30/00	10,999,901	10,573,408	(426,493)	104.0	2,304,289	(18.5)
6/30/01	11,750,624	11,557,255	(193,369)	101.7	2,397,169	`(8.1)
6/30/02	12,124,414	11,994,850	(129,564)	101.1	2,408,306	(5.4)
<u> </u>						

3. The following shows the schedule of employer contributions (dollar amounts in thousands):

Year Ending	Annual Required <u>Contribution</u>	Percent Contributed
6/30/97	\$282,249	100%
6/30/98	286,794	100
6/30/99	304,461	100
6/30/00	302,332	100
6/30/01	315,505	100
6/30/02	233,229	100

4. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at June 30, 2002. Additional information as of the latest actuarial valuation follows.

Valuation date	6/30/02	
Actuarial cost method	Entry age	
Amortization method	Level percent of pay, open	
Remaining amortization period	13 years	
Asset valuation method	5-year smoothed market	
Actuarial assumptions:		
Investment rate of return*	7.00%	
Projected salary increases*	5.20 – 9.00%	
Cost-of-living adjustments	None	
*Includes inflation at	3.50%	

TREND INFORMATION (\$ in 1,000's)

Year <u>Ending</u>	Annual Pension Cost (APC)	Percentage Of APC Contributed	Net Pension Obligation (NPO)
June 30, 2000	\$302,332	100%	\$0
June 30, 2001	315,505	100	0
June 30, 2002	233,229	100	0

SCHEDULE A

VALUATION BALANCE SHEET

RESULTS OF THE VALUATION AS OF JUNE 30, 2002 SHOWING THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF THE EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA (All dollar amounts are in thousands)

	ACTUARIAL LIAB	ILITIES	
(1)	Present value of prospective benefits payable on account of present retired members, beneficiaries of deceased members, and members entitled to deferred vested benefits - Service and disability benefits - Death and survivor benefits - Deferred vested benefits Total	\$ 5,260,707 428,033 101,640	\$ 5,790,380
(2)	Present value of prospective benefits payable on account of present active members Retirement and survivor allowances Refunds of members' contributions Total	\$ 9,032,941 59,095	<u> </u>
(3)	TOTAL ACTUARIAL LIABILITIES		<u>\$ 14,882,416</u>
			;
	PRESENT AND PROSPEC	CTIVE ASSETS	
(4)	Actuarial value of assets		\$ 12,124,414
(5)	Present value of total future contributions = (3)-(4)	\$ 2,758,002	
(6)	Present value of future member contributions and employer paid member contributions		1,394,843
(7)	Present value of future employer contributions = (5)-(6)	\$ 1,363,159	
(8)	Employer normal contribution rate	6.21%	
(9)	Present value of future payroll (1%)	\$ 240,374	
(10)	Prospective normal contributions = (8) x (9)		1,492,723
(11)	Prospective unfunded accrued liability contributions = (7)-(10)		(129,564)
(12)	TOTAL PRESENT AND PROSPECTIVE ASSETS		<u>\$ 14,882,416</u>

SCHEDULE B

DEVELOPMENT OF JUNE 30, 2002 ACTUARIAL VALUE OF ASSETS (All dollar amounts are \$1,000's)

(1)	Actuarial Value of Assets on June 30, 2001	\$	11,750,624
(2)	2001/2002 Net Cash Flow a. Contributions b. Disbursements c. Net Cash Flow (2)a - (2)b		291,149 588,003 (296,854)
(3)	Expected Investment Return [(1) x .07] + [(2)c x .035]		812,154
(4)	Expected Actuarial Value of Assets on June 30, 2002 (1) + (2)c + (3)		12,265,924
(5)	Market Value of Assets on June 30, 2002		11,558,373
(6)	Excess of Market Value over Expected Actuarial Value (5) - (4)	٠,	(707,551)
(7)	20% Adjustment towards Market .20 x (6)		(141,510)
(8)	Actuarial Value of Assets on June 30, 2002 (4) + (7)	\$	12,124,414

SCHEDULE C

SUMMARY OF RECEIPTS AND DISBURSEMENTS (MARKET VALUE)

	Year I	Ending
Receipts for the Year	<u>June 30, 2002</u> (in \$ thousand)	<u>June 30, 2001</u> (in \$ thousand)
Contributions: Members Employers	\$ 57,920 233,229	\$ 55,887 <u>315,505</u>
Total	\$ 291,149	\$ 371,392
Investment earnings	(488,398)	(795,683)
TOTAL	\$ (197,249)	\$ (424,291)
Disbursements for the Year		
Retirement allowances	\$ 574,602	\$ 518,734
Refunds to members	5,430	7,563
Administrative expense	7,971	<u>6,950</u>
TOTAL	\$ 588,003	\$ 533,247
Excess of Receipts over Disbursements	\$ (785,252)	\$ (957,538)
Reconciliation of Asset Balances - Market Value		
Asset Balance as of the Beginning of Year	\$ 12,343,625	\$ 13,301,163
Excess of Receipts over Disbursements	(785,252)	<u>(957,538)</u>
Asset Balance as of the End of Year	<u>\$ 11,558,373</u>	<u>\$ 12,343,625</u>

SCHEDULE D

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

Adopted by the Board June 20, 2002.

VALUATION INTEREST RATE: 7.0% per annum, compounded annually.

SALARY INCREASES:

<u>Age</u>	Annual Rate	<u>Age</u>	Annual Rate
20	9.0%	45	5.2%
25	8.0	50	5.2
30	. 6.0	55	5.2
35	5.5	60	5.2
40	5.2	65	5.2

SEPARATIONS BEFORE RETIREMENT: Representative values of the assumed annual rates of separation other than retirement are as follows:

Annual Rates of

	. <u>De</u>	<u>eath</u>	<u>Disability</u>		
	<u>Men</u>	<u>Women</u>	<u>Men</u>	<u>Women</u>	
20	.04%	.02%	.05%	.05%	
25	.04	.02	.05	.05	
30	.06	.02	.10	.05	
35	.06	.02	.15	.05	
40	.06	.03	.30	.17	
45	.10	.05	.70	.30	
50	.15	.06	1.00	.60	
55	.25	.10	1.50	1.50	
.60	.44	.17	_	_	
65	.81	.34			
69	1.26	.54	-		

Annual Rates of Withdrawal

Years of Service

<u>Age</u>	0-4	<u>5-9</u>	<u>10 & Over</u>			
		<u>Males</u>				
20	26.50%	12.00%	6.00%			
25	22.00	10.50	6.00			
30	21.00	8.25	5.50			
35	20.00	6.75	3.75			
40	18.00	6.00	3.00			
45	15.50	5.00	2.25			
50	13.00	4.00	1.75			
55	12.00	3.00	1.50			
60	13.00	3.00	1.50			
65	15.00	3.00	1.50			
		<u>Females</u>				
20	23.00%	12.00%	7.00%			
25	20.50	10.50	7.00			
30	18.50	8.25	6.75			
35	16.50	6.25	4.50			
40	15.50	5.00	3.00			
45	14.50	4.50	2.25			
50	14.00	4.00	2.00			
55	11.50	3.00	1.50			
60	13.00	3.00	1.50			
6 5	15.00	3.00	1.50			

RETIREMENT: Representative values of the assumed annual rates of service retirement are as follows:

	<u>Ole</u>	New Plan ²	
<u>Age</u>	Age 65 or more than 34 years	Age 60 or 30 years	·
50	75%	5%	5%
55	75	12	5
60	75	15	10
62	75	38	32
64	75	30	35
65	60		45
67	30		30
70	100		100

¹It is also assumed that 95% of active Old Plan members will retire during the year in which they attain 34 years of service and 2% of eligible males and 1% of eligible female Old Plan members will retire on involuntary separation each year.

It is also assumed that 0.5% of members under age 55 and 2% of members ages 55 and over will retire under early reduced retirement.

²An additional 10% of active New Plan members less than age 65 are expected to retire in the year in which they attain 30 years of service.

DEATHS AFTER RETIREMENT: The 1994 Group Annuity Table rated forward two years is used for the period after service retirement and for dependent beneficiaries. The 1994 Group Annuity Table rated forward 10 years for males and 8 years for females is used for the period after disability retirement.

Representative values of the assumed annual rates of mortality after service retirement are as follows:

<u>Age</u>	<u>Males</u>	<u>Females</u>	<u>Age</u>	<u>Males</u>	<u>Females</u>
40	.125%	.082%	65	1.803%	1.076%
45	.190	.111	70	2.848	1.651
50	.321	.173	75	4.517	2.837
55	.558	.292	80	7.553	4.915
60	1.015	.583	85	11.567	8.402

ASSETS: Actuarial value, as developed in Schedule B. The actuarial value of assets recognizes a portion of the difference between the market value of assets and the expected actuarial value of assets, based on the assumed valuation rate of return. The amount recognized each year is 20% of the difference between market value and expected actuarial value.

VALUATION METHOD: Entry age actuarial cost method. See Schedule E for a brief description of this method.

SPOUSES: It is assumed that 85% of the membership is married with the husband three years older than his wife.

SCHEDULE E

ACTUARIAL COST METHOD

- 1. The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future (currently 7.0%), of each member's expected basic benefit (i.e. benefits other than post-retirement adjustments after the valuation date) at retirement or death is determined, based on his age, service, sex, and compensation. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his terminating with a service, disability or survivor's benefit. Future salary increases are also anticipated. The present value of the expected basic benefits payable on account of the active members is added to the present value of the expected future payments to retired members and beneficiaries to obtain the present value of all expected basic benefits payable from the System on account of the present group of members and beneficiaries.
- The employer contributions required to support the basic benefits of the System are determined following a level funding approach, and consist of a normal contribution and an accrued liability contribution.
- 3. The normal contribution is determined using the entry age actuarial cost method. Under this method, a calculation is made to determine the level percentage rate which, if applied to the compensation of the average member during the entire period of his anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all basic benefits payable on his behalf.
- 4. The unfunded accrued liability is determined by subtracting the present value of prospective employer normal contributions and member contributions, together with the current actuarial value of assets held, from the present value of expected basic benefits to be paid from the System.

SCHEDULE F

SUMMARY OF MAIN SYSTEM PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

The Employees' Retirement System of Georgia (ERS) was established February 3, 1949 to provide retirement allowances and other benefits to employees of the State of Georgia. The commencement date was January 1, 1950. "Old Plan" means the plan applicable to members beginning employment prior to July 1, 1982, while "New Plan" means the plan applicable to members employed on or after July 1, 1982. The following summary describes the main provisions of the System.

1 - DEFINITIONS

<u>Member</u>

An employee of a department participating in ERS. Membership is a condition of employment.

Prior Service

Service rendered as an employee prior to January 1, 1954.

For employees of departments which became participants in ERS after the date of establishment (1950), any service prior to January 1, 1954.

Some active duty military service before January 1, 1954 may be included as prior service for employees who were members of the System prior to April 1, 1972, provided that service was not used for military or other government retirement.

Membership Service

Service after January 1, 1954 as a contributing member of a participating department.

For employees of departments which became participants in ERS after the date of establishment (1950), any service which is purchased by the employee between January 1, 1954 and the date of participation by the department.

Some service as a teacher in the public schools of Georgia may be included provided that service is not being used for teacher retirement and contributions are left on deposit.

Forfeited Leave

Six months or more of forfeited annual or sick leave for which a member is not eligible for payment at retirement. Each 20 days of such forfeited leave is equivalent to one month of service.

Creditable Service

Old Plan

Prior service plus membership service plus forfeited leave. Upon retirement, a member with 34 years of service will receive credit for the 34 years plus membership credit for the period between the 34th year and his or her 65th birthday.

New Plan

Service for which employee and employer contributions have been paid.

Average Final Compensation

The average annual compensation of a member during the 24 consecutive calendar months of his creditable service that will yield the highest average. An adjustment will be made to allow for any contribution previously made by the member which is now made by the State.

2 - BENEFITS

Normal Retirement Allowance

Condition for Retirement

A member is eligible for normal retirement upon the attainment of age 65 and 10 years of creditable service (age 65 and 5 years service if a member before July 1, 1968), or 30 years of creditable service regardless of age.

Amount of Allowance

Old Plan

- (A) x (B) x (C), where
- (A) = 60% of average final compensation up to \$4,200 plus 100% of average final compensation over \$4,200.
- (B) = creditable service, and
- (C) = $.0115 + .0003 \times \text{(creditable service up to 35 years)}$.

The minimum benefit is 2.00% of average final compensation times years of creditable service.

New Plan

2.00% of average final compensation multiplied by years of creditable service.

Uniform division and judicial members may be eligible for additional minimum allowances.

Early Retirement Allowance

Condition for Early Retirement

Amount of Allowance

A member is eligible for early retirement upon the attainment of age 60 and 10 years of creditable service or 25 years of creditable service regardless of age.

The annual early retirement allowance is determined in the same manner as the normal retirement allowance based on creditable service and average final compensation as of the early retirement date. If the member is less than age 60, the retirement allowance is reduced by the lesser of:

- (i) 7% for each year by which his age is less than 60, and
- (ii) 7% for each year by which his creditable service at retirement is less than 30.

Uniform division and judicial members may be eligible for additional minimum allowances.

Disability Retirement Allowance

Condition for Disability Retirement

Amount of Allowance

A member is eligible for disability retirement after having at least 13 years and 4 months of service and being certified by the medical board as permanently disabled for the further performance of the duties of the position held at the time of disability.

The annual disability retirement allowance is an immediate benefit with the amount depending upon service at the time of disability.

Uniform division members may be eligible for an additional allowance if disabled in line of duty.

Service at Disability

Allowance

(1) 13 years 4 months to 18 years

75% of what the normal retirement benefit would have been had the member continued to work until age 60 with no further change in compensation

(2) over 18 years to 22 years 9 months

100% of age 60 benefit

(3) over 22 years 9 months to 27 years 6 months

75% of age 65 benefit

(4) over 27 years 6 months

100% of age 65 benefit

Involuntary Retirement

Condition for Involuntary Retirement

Member prior to April 1, 1972, termination is involuntary and without prejudice, and member has more than 18 years of membership service.

For members prior to February 13, 1962, the service requirement is more than 18 years of creditable service.

Amount of Allowance

Computed as for disability retirement.

Death Benefit

Conditions

<u>Allowance</u>

 Before retirement, before age 60, before completing 13 years 4 months service

Refund of all employee contributions plus allowable interest.

(2) Before retirement, before age 60, after completing 13 years4 months service

Benefit equal to disability retirement immediately prior to death under Option 2.

(3) Before retirement, after age 60, more than 10 years creditable service (5 years service if member prior to July 1, 1968)

Benefit equal to retirement immediately prior to death under Option 2.

(4) After retirement

Payments continued to spouse as determined by options (if any) elected before retirement.

Termination Benefits

Conditions

(1) Termination with less than 10 years membership service

(2) Termination with 10 years or more membership service

Optional Benefits

Maximum Benefit

Option 1

Option 2

Option 3

Other Options

<u>Allowance</u>

Return of all member contributions and employer contributions made on behalf of member with allowable interest. Life insurance premiums paid by the employee are not refundable.

Refund of contributions plus interest as above or, if contributions retained in fund, a deferred retirement benefit at age 60 or later for early or normal retirement. Life insurance premiums paid by the employee are not refundable.

At application for retirement, a member must choose one of the following methods of payment. All forms are of equivalent actuarial value.

Life annuity, payable to member for the member's life with the final payment (for month of member's death) going to member's designated beneficiary.

Modified cash refund, paying a reduced retirement benefit to member so that, upon member's death, the beneficiary receives a lump sum cash settlement equal to the difference between the member's accumulated contributions at retirement and the benefit payments due to member contributions received prior to member's death.

Joint and 100% to survivor. Member receives a reduced allowance for life with the same allowance continuing for life of beneficiary upon member's death.

Joint and 50% to survivor. Member receives a reduced allowance for life with one-half member's allowance continuing to beneficiary for life upon member's death.

Other optional forms are available with certain restrictions.

Post-Retirement Adjustments

Conditions for Adjustments

Amount of Adjustment

Retiree must have been receiving benefits for the previous seven months and (1) be age 45, (2) have 30 or more years of service, or (3) have a disability entitlement from the Social Security Administration. Members retiring on service retirement with less than 30 years of service or before age 60 are not eligible for adjustments until the earlier of such time as the member reaches age 60 or would have obtained 30 years of service.

 Semi-annual cost-of-living adjustments may be made in January and July of each year upon the recommendation of the Board of Trustees.

Each adjustment in the year preceding the valuation was 1-1/2% of the base retirement allowance (original allowance before deductions plus previous cost-of-living adjustments).

(2) Supplemental adjustments, when authorized, are made in January of each year.

3 - CONTRIBUTIONS

By Members

Old Plan

4% of annual compensation up to \$4,200 plus 6% of annual compensation over \$4,200. A member with 34 or more years of service may cease contributing until age 65, when he must resume contributing if he continues employment and wishes to receive additional service credit. The State pays member contributions except for 1-1/4% of annual compensation. These State contributions paid in behalf of members are included in the member's account for refund purposes. Covered tax officials and their employees and covered employees of State Courts continue to pay their full member contributions.

New Plan

Member contributions are 1-1/4% of annual compensation.

The employers contribute at a specified percentage of active member payroll determined annually by actuarial valuation. The State contribution is not subject to refund upon member termination.

By Employers

SCHEDULE G

TABLE 1

THE NUMBER AND ANNUAL COMPENSATION OF MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 2002

		MEN			WOMEN	
AGE	NUMBER		AMOUNT	NUMBER		AMOUNT
,,,						
18				2	\$	34,969
19		\$	636,061	13		245,603
20	108		2,248,489	61		1,164,158
21	172		3,674,909	120		2,463,850
22	263		5,919,197	250		5,191,708
23			6,312,977	352		8,004,935
24			8,963,115	590		14,360,961
25			11,416,194	733		18,307,166
26		•	11,807,028	748		19,169,815
27			12,665,893	850		22,545,983
28	616		17,099,121	949		24,814,862
29	602		17,039,996	931		24,900,482
30	654		19,185,144	1004		27,954,832
31	712	, •	21,540,569	986		26,944,548
32	734		22,240,358	998		28,095,885
33	718		22,897,931	1015		28,874,731
34	742		23,876,032	990		28,486,306
35	712		23,532,484	991		28,662,987
36	725		24,413,773	1048		30,192,124
37	774		25,166,501	1125		33,038,831
38	784		26,253,331	1214		35,692,204
39	799	•	26,729,977	1166		35,685,408
40	830		29,454,242	1253		37,651,950
41	791		27,739,840	1285		39,595,562
42	903		31,844,105	1294		39,570,427
43	906		33,159,810	1340		43,113,989
44	805		29,335,261	1369		43,859,732
45	900	•	33,108,540	1364		45,096,420
46			33,296,288	1410		46,966,494
47			33,805,142	1481		50,741,553
48			35,737,161	1400		47,516,692
49		•	37,278,102	1395		48,310,565
50		•	41,692,129	1429		51,324,905
51			37,449,076	1334		47,504,348
52			38,097,663	1382		49,762,738
53			41,336,658	1267		46,307,306
54			39,490,104	1291		46,136,713

TABLE 1

THE NUMBER AND ANNUAL COMPENSATION OF MEMBERS DISTRIBUTED BY AGE AS OF JUNE 30, 2002

CONTINUED

		MEN			WOMEN	
AGE	NUMBER		AMOUNT	NUMBER		AMOUNT
5	5 887	\$	38,783,874	1093	\$	41,031,177
	6 664		29,219,727	942		33,967,166
	7 520		22,188,821	752		26,774,126
	8 480		20,680,706	680		23,980,010
	9 473		21,020,093	638		21,967,303
	0 393		15,756,655	556		19,572,507
6	1 324	•	14,147,207	419		13,966,628
6	2 256		10,921,516	333		11,567,992
6	3 143		6,935,820	224		7,373,521
6	4 128		5,420,216	162		5,786,500
6	5 90		3,955,428	129	•	4,101,981
6	6 65		2,865,426	71		2,204,348
	7 65		3,133,990	56		1,817,896
6	8 45		2,262,468	42		1,503,944
6	9 32		1,721,758	27		809,016
7	0 20		869,893	13		467,544
7	1 19		843,844	15		483,963
7	2 21		999,458	17		509,748
7	3 16		850,163	11		323,176
7	4 6		278,477	6		242,206
7	5 4		291,277	7		272,312
7	6 4		338,772	7		193,248
7	7 5		264,395	4		131,370
7	8 3		144,396	3		93,715
7	9 2		79,225			
8	0 2		79,058	÷		
. 8	1 2		155,955	2		66,150
8	2			1		17,922
8	3			1	÷	34,873
8	4					
8	5 2		85,798			
	6			1		16,617
TOTALS	29,148	\$	1,060,737,621	42,642	\$	1,347,568,701

TABLE 2

THE NUMBER AND ANNUAL COMPENSATION OF MEMBERS DISTRIBUTED BY YEARS OF CREDITED SERVICE AS OF JUNE 30, 2002

YEARS OF		MEN			WOMEN	
SERVICE	NUMBER		AMOUNT	NUMBER		AMOUNT
0	1,294	\$	36,829,749	2,038	. \$	50,811,391
1	3,037	•	89,330,514	4,705		124,369,985
2	2,393		74,163,624	4,337		117,521,107
3	1,765		55,971,498	3,105		85,430,861
4	1,573		49,652,828	2,465		69,201,307
5	1,307		41,923,138	1,785		50,446,635
6	1,009		32,739,485	1,281		38,692,039
. 7	1,102		37,259,589	1,423		42,122,771
8	1,310		43,474,515	1,609		48,350,386
9	1,184		39,454,467	1,448		43,413,572
10	1,049		36,671,535	1,155		35,793,392
11	565	•	19,968,947	830		26,463,383
12	937		34,126,956	1,370		43,857,774
13	1,205		42,229,710	1,564		50,181,557
14	947		35,012,819	1,271		41,574,811
15	803		30,462,833	1,092		36,956,490
16	739	•	29,522,050	1,050		36,397,203
17	781	* .	31,774,327	1,066		37,253,528
18	668	-	27,210,531	906		33,099,930
19	536		23,067,494	665		25,547,249
20	483		20,671,900	597		22,721,017
21	401		18,460,354	652		26,026,306
22	432		20,264,558	705		27,363,501
23	467		21,581,396	721		29,259,689
24	433		20,907,405	619		25,833,757
25	368		18,305,990	638		26,102,168
26	297		15,146,743	564		23,450,105
27	280		15,214,777	466		20,426,854
28	381		20,510,551	678		28,319,388
₋ . 29	371		20,011,959	562		23,323,404
30	373		20,912,037	434		19,284,960
31	327		18,752,996	329		15,140,548
32	209		11,881,111	274		12,283,164
33	75		4,107,601	170		7,564,661
34	23	•	1,446,360	55		2,250,172
35	2		103,089	5		290,749
36	3		226,922	3		155,375
37	4		247,897			
38	7		370,626	3		186,557
39	3		258,835	1		58,731
40	1		102,362			
41	2	-	205,961			
42	2		199,584	. 1		42,222
TOTALS	29,148	\$	1,060,737,621	42,642	\$	1,347,568,701

TABLE 3

SERVICE RETIREMENTS

•		MEN			WOMEN	
AGE	NUMBER	1012.14	AMOUNT	NUMBER	.,	AMOUNT
41	1	\$	29,950			
43	-	•		1	\$	10,889
44	3		37,067			
45				4		76,575
46	5		72,715	4		63,366
47	4		59,364	3		53,412
48	9		129,007	7		96,672
49	14		355,543	19		405,134
50	22		718,482	25		. 559,416
51	44		1,709,242	48		1,434,685
52	59		2,554,773	74		2,199,746
53	110		4,802,822	96		3,243,734
54	167		7,669,804	146		4,714,649
55	232		10,749,986	182		6,338,347
56	242		11,268,260	161		5,557,900
57	217		9,855,231	. 178		5,931,608
58	245		11,537,015	204		7,466,211
59	275		12,360,754	198		7,182,550
60	282		12,861,407	. 233		7,167,480
61	355		14,414,763	280		7,010,740
62	362		13,342,857	357		8,162,664
63	438		14,343,544	415	•	8,556,543
64	409	•	13,558,769	419		8,127,250
65	423		13,521,672	410		7,784,674
66	403		11,955,193	415		7,306,464
67	414		11,541,525	373		6,130,103
68	413		11,420,839	399	•	6,641,613
69	380		10,579,728	395		6,461,529
70	365		9,430,197	377		5,502,638
71	355		8,904,774	376		5,715,559
72	303		7,046,417	330		4,764,686
73	304		6,914,898	307		4,160,903
74	285		6,625,239	283		4,083,497
75	273		6,059,568	311		4,460,804
76	239		5,585,588	286		4,114,232
77	247		5,352,672	309		4,192,947
78	218		4,786,409	268		3,687,840
79	198		3,406,083	246		3,195,164
80	184		3,514,077	246		3,038,597

TABLE 3

SERVICE RETIREMENTS

CONTINUED

		MEN		WOM	MEN	
AGE	NUMBER		AMOUNT	NUMBER		MOUNT
81	187	\$	3,291,672	222	\$	2,539,552
82	158	•	3,188,806	212	·	2,438,049
83	123		1,971,300	169		1,891,486
84	108		1,968,169	141		1,504,858
85	74		1,275,528	128		1,292,475
86	63 .		1,176,867	118		1,409,226
87	54		766,908	89		859,853
88	52		873,864	81	•	823,821
89	38	•	804,906	48		535,817
90	32		579,330	59		695,852
91	28		605,792	39		314,129
92	25		348,263	36		441,578
93	10		124,980	30		265,024
94	8	•	99,216	18		220,044
95	7		71,425	22		248,035
96	7		94,021	7		79,078
97	1		36,383	9		76,346
98	1		26,150	4		15,205
99				6		72,271
100						
101	1		5,423	2		17,418
102						
103				1		5,594
TOTAL	9,476	\$	286,385,234	9,826	\$	181,346,530

TABLE 4

DISABILITY RETIREMENTS

		MEN			WOMEN	
AGE	NUMBER	MITI	AMOUNT	NUMBER	••••	AMOUNT
07	, ,	· \$	54,896	2	\$	45,094
37		Φ	102,577	3	Ψ	76,716
38 39			72,924	5		96,583
40 40			228,624	6		94,794
41			204,817	9		177,249
42			325,936	10		185,317
43			340,014	14		295,785
44			419,490	12		244,674
45			705,480	23		516,064
46			689,519	27		601,278
47			1,080,978	30		659,560
48			1,704,128	42		1,007,165
49			1,508,556	50		1,082,241
50			1,760,401	64		1,851,359
51			2,308,716	69		1,489,923
52			2,898,751	66		1,532,569
53			3,360,708	76		1,690,647
54			3,684,100	70		1,658,955
55			3,907,229	89		1,930,314
56			2,947,156	98		2,195,649
57			2,272,127	67		1,326,499
58	84		2,191,302	86		1,614,589
59	85		2,362,498	92		1,531,318
60	84		2,269,932	90		1,610,057
61	73		1,724,170	75		1,419,079
62	64		1,726,798	74		1,360,992
63			1,100,789	58		943,646
64			1,312,521	57		794,996
65			1,016,356	. 41		555,897
66			712,267	35		507,779
. 67			679,377	31		455,257
68			512,470	30		379,644
69		•	690,335	18		245,232
70			604,387	22		246,151
71			313,016	23		308,691
72			502,319	8		178,659
73	3 16		326,699	17		196,455

TABLE 4

DISABILITY RETIREMENTS

CONTINUED

CONTINUED								
	MEN		WOMEN					
AGE	NUMBER	.AM	IOUNT	NUMBER		AMOUNT		
7	4 21	\$	371,287	17	\$	266,049		
7	5 11		259,852	11		134,466		
7	6 15		305,183	14		185,800		
7	7 14		347,717	5		59,271		
7	8 13		259,569	11		128,181		
7	9 10		174,663	9		103,110		
8	0 11		162,740	14		215,126		
8	1 13		299,532	4		43,739		
8	2 11		155,727	10		80,438		
8	3 7		142,869	8		119,166		
8	4 4		58,946	6		109,146		
8	5 6		96,333	5		67,138		
8	6 1		12,529	5		86,972		
8	7			2		25,046		
8	8 2		46,965	4		19,212		
8	9			1		3,303		
9	0			1		2,178		
. 9	1			3		41,422		
9:	2			2		11,622		
9:	3					·		
9,	4			1		17,569		
Total	1,928	\$	51,316,280	1,722	\$	32,825,830		

TABLE 5

BENEFICIARIES OF DECEASED ACTIVE AND RETIRED MEMBERS

		MEN			WOMEN	•
AGE	NUMBER	jri-iv	AMOUNT	NUMBER		AMOUNT
19)			2	\$	17,898
20		\$	27,779	2 -		20,128
21			6,750	5		34,169
22			35,150	1		4,793
23			25,023	2		17,083
24			7,438	4		52,332
25			11,980	4		75,675
26			67,740	1		1,998
27	3		32,272	4		25,314
28			26,976	4		26,622
29			39,971	6		50,413
30	8		36,324	5		28,280
31			15,046	12		68,567
32			61,085	9		48,317
33	3		13,503	12		88,520
34	7		112,215	13		38,306
· 35	6		32,024	8		55,193
36	11		41,789	14		41,145
37	8		28,045	16		93,502
38	3 11		91,438	14		74,187
39			68,810	18		87,452
40			60,088	13		96,420
41			73,209	18		108,195
42			26,449	12		179,417
43			51,652	18		162,418
44			22,782	24		219,483
45			54,879	19		113,131
46			20,538	20		146,298
47			99,638	28		211,134
48			58,762	17		120,316
49			74,348	36	•	461,908
50			129,365	31		381,379
51			90,549	34		467,951
52			105,787	31		472,391
53			114,840	42		704,895
54	18		123,047	42		625,791

TABLE 5

BENEFICIARIES OF DECEASED ACTIVE AND RETIRED MEMBERS

CONTINUED

	MEN		WOMEN				
AGE	NUMBER	AMOUNT	NUMBER	AMOUNT			
				\$ 917,093			
55		\$ 181,151	51	\$ 917,093 819,731			
56		215,737		706,401			
57		159,056		880,011			
58		175,549		889,045			
59		156,390		721,296			
60		211,858		993,561			
61		120,030					
62		159,777		575,906 750,300			
63		106,164		750,299			
64		206,016		902,924			
65		133,258		1,035,523			
66		194,168		1,132,809			
67		73,446		1,140,039			
68		127,161	90	1,085,977			
69		171,730		1,109,387			
70		135,060		1,107,613			
71		137,734		1,196,461			
72		113,244		1,335,258			
73		156,687		1,132,253			
74		131,110		1,357,401			
75		37,752		1,431,414			
76	6	77,908		1,462,033			
77		191,717		1,302,987			
78		72,045		1,130,784			
79		33,191	136	1,399,962			
80		28,880		1,062,067			
81	7	74,648		1,181,924			
82	. 1	6,810		869,841			
83	10	.105,698		1,034,984			
84	. 8	50,420	83	779,522			
85		62,886	70	657,281			
86		8,081	77	. 664,890			
87		2,111	66	532,827			
88		47,474	62	460,629			
89		7,897	47	329,155			

TABLE 5

BENEFICIARIES OF DECEASED ACTIVE AND RETIRED MEMBERS

CONTINUED

	MEN			WOME	N	
AGE	NUMBER	AM	OUNT	NUMBER	AM	OUNT
90	3 .	\$	21,978	54	\$	434,161
91				36		203,301
92				28		125,635
93				32		228,166
94	1		7,271	11		70,059
95				13		101,832
96				6		40,040
97				5		30,468
98				6		67,316
99				3		7,519
100				1		1,719
101				1		5,258
102				2		3,774
Total	645	\$	5,789,384	3,632	\$	40,829,555