

The experience and dedication you deserve

August 22, 2007

Mr. Norman Turnipseed Chief Accountant & Fiscal Officer Retirement Systems of Alabama Retirement Systems Building 135 South Union Street Montgomery, AL 36104-0001

Dear Mr. Turnipseed:

We are enclosing 5 bound and 1 unbound copy of the "Teachers' Retirement System of Alabama Report of the Actuary on the Annual Valuation Prepared as of September 30, 2006".

Please let us know if you have any questions concerning the report.

Sincerely yours,

Edward A. Macdonald, ASA, FCA, MAAA

President

Cathy Turcot Managing Director

EAM/CT:mjn

Enclosure

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The experience and dedication you deserve

August 22, 2007

Dr. David G. Bronner Chief Executive Officer Retirement Systems of Alabama Retirement Systems Building 135 South Union Street Montgomery, AL 36104-0001

Dear Dr. Bronner:

We are enclosing 30 bound copies and one unbound copy of the "Teachers' Retirement System of Alabama Report of the Actuary on the Annual Valuation Prepared as of September 30, 2006".

We have determined an employer contribution rate of 12.07% of payroll based on a 20-year liquidation period for the fiscal year ending September 30, 2009.

Please let us know if you have any questions concerning the report.

Sincerely yours,

Edward A. Macdonald, ASA, FCA, MAAA

President

EAM/CT:mjn

Enclosure

Cathy Turcot

Cathy Turcot

Managing Director



Teachers' Retirement System of Alabama Report of the Actuary on the Annual Valuation Prepared as of September 30, 2006



The experience and dedication you deserve

August 22, 2007

Board of Control Teachers' Retirement System of Alabama Montgomery, Alabama

Members of the Board:

In this report are submitted the results of the annual valuation of the assets and liabilities of the Teachers' Retirement System of Alabama, prepared as of September 30, 2006 in accordance with Section 367(15) of the act governing the operation of the System.

The purpose of this report is to provide a summary of the funded status of the system as of September 30, 2006, to recommend rates of contribution and to provide accounting information under Governmental Accounting Standards Board Statements No. 25 and 27 (GASB 25 and 27). While not verifying the data at source, the actuary performed tests for consistency and reasonability. Since the previous valuation, the assumed rates of withdrawal, disability, retirement and mortality have been revised to reflect the results of the experience investigation for the five-year period ending September 30, 2005. On the basis of this valuation, it is recommended that the State make contributions to the Retirement System at the rate of 12.07% of payroll for the fiscal year ending September 30, 2009, based on a 20-year funding period. The increase in the contribution rate from 11.06% to 12.07% of payroll is primarily due to a recognition of asset losses and the cost of the assumption changes.

The promised benefits of the System are included in the actuarially calculated contribution rates which are developed using the Entry Age Normal cost method. Five-year market related value of assets is used for actuarial valuation purposes. Gains and losses are reflected in the unfunded accrued liability that is being amortized by regular annual contributions as a level percentage of payroll, on the assumption that payroll will increase by 4.50% annually. The assumptions recommended by the actuary and adopted by the Board are in the aggregate reasonably related to the experience under the Fund and to reasonable expectations of anticipated experience under the Fund and meet the parameters for the disclosures under GASB 25 and 27.

We have prepared the Schedule of Funding Progress and Trend Information shown in the financial section of the Comprehensive Annual Financial Report, and all supporting schedules including the Schedule of Active Member Valuation Data, the Solvency Test and the Analysis of Financial Experience shown in the actuarial section of the Comprehensive Annual Financial Report. All historical information that references a valuation date prior to September 30, 2004 was prepared by the previous actuarial firm.

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.



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.

The Table of Contents, which immediately follows, outlines the material contained in the report.

Respectfully submitted,

Edward A. Macdonald, ASA, FCA, MAAA

President

EAM/CT:mjn

Cathy Turcot

Managing Director



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TEACHERS' RETIREMENT SYSTEM OF ALABAMA REPORT OF THE ACTUARY ON THE ANNUAL VALUATION PREPARED AS OF SEPTEMBER 30, 2006

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:

VALUATION DATE	September 30, 2006	September 30, 2005
Active members Number Annual compensation*	138,613 \$ 5,108,187,755	135,126 \$ 4,733,415,807
Retired members and beneficiaries Number Annual allowances*	61,393 \$ 1,234,407,241	59,523 \$ 1,068,513,540
DROP participants Number Annual compensation* Annual allowances	5,375 \$ 350,255,378 164,959,410	4,839 \$ 291,497,474 142,135,581
Assets Actuarial value Market value	\$ 19,821,133,268 19,157,765,669	\$ 19,248,206,549 18,131,706,069
Unfunded accrued liability	\$ 4,123,966,699	\$ 3,779,130,771
CONTRIBUTIONS FOR FISCAL YEAR ENDING	September 30, 2009	September 30, 2008
Employer contribution rate Normal Accrued liability Death benefit Term life Administration Total	6.45% 5.24 0.12 0.05 <u>0.21</u> 12.07%	5.76% 4.92 0.12 0.05 <u>0.21</u> 11.06%
Liquidation period	20 years	20 years

^{*}Amounts shown do not include any increase in effect after the valuation date.

- Comments on the valuation results as of September 30, 2006 are given in Section IV and further discussion of the contribution levels is set out in Section V.
- 3. Schedule B shows the development of the actuarial value of assets. Schedule D of this report outlines the full set of actuarial assumptions and methods employed in the current valuation. Since the previous valuation, the assumed rates of withdrawal, disability, retirement and mortality have been revised to reflect the results of the experience investigation for the five-year period ending September 30, 2005.



- Provisions of the System, as summarized in Schedule F, were taken into account in the current valuation. There have been no changes since the previous valuation.
- 5. Section VI of this report shows the certification that there has been no change in the liquidation period used to determine the accrued liability contribution rate.

SECTION II - MEMBERSHIP

 The following table shows the number of active members and their annual compensation as of September 30, 2006 on the basis of which the valuation was prepared.

TABLE 1

THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS AS OF SEPTEMBER 30, 2006

GROUP	NUMBER*	COMPENSATION'
Males	35,907	\$ 1,622,176,705
Females	102,706	3,486,011,050
Total	138,613	\$ 5,108,187,755

^{*}In addition, there are 5,375 members with compensation of \$350,255,378 who are currently participating in the DROP. Employers of the Retirement System contribute on this payroll.

The table reflects the active membership for whom complete valuation data were submitted. The results of the valuation were adjusted to take account of an additional 16,913 inactive members and members for whom incomplete data were submitted.



2. The following table shows a six-year history of active member valuation data.

TABLE 2
SCHEDULE OF ACTIVE MEMBER VALUATION DATA

Valuation <u>Date</u>	Number		Annual <u>Payroll</u>		Annual Average Pay	% Increase in Average Pay
9/30/2006 ¹	138,613	\$	5,108,187,755	1	\$ 36,852	5.20%
9/30/2005 ²	135,126	1	4,733,415,807	1	35,030	2.73
9/30/2004 ³	131,814	:	4,494,548,521	1	34,098	(1.48)
6/30/2003 ⁴	129,617	1	4,486,058,170	1	34,610	2.78
6/30/2002 ⁵	128,649	1	4,332,119,671		33,674	1.74
6/30/2001	130,066	1	4,305,080,140		33,099	3.96

¹ In addition, there are 5,375 employees with annual compensation of \$350,255,378 who are currently participating in the DROP program. Employers of the Retirement System contribute on this payroll.

 The following table shows the number and annual retirement allowances payable to retired members and their beneficiaries on the roll of the Retirement System as of the valuation date.

TABLE 3

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS AND BENEFICIARIES ON THE ROLL AS OF SEPTEMBER 30, 2006

GROUP	NUMBER	ANNUAL RETIREMENT ALLOWANCES
Service Retirements	54,286	\$ 1,151,849,997
Disability Retirements	3,947	43,328,915
Beneficiaries of Deceased Members	3,160	39,228,329
DROP Participants	<u>5,375</u>	164,959,410
Total	66,768	\$ 1,399,366,651

² In addition, there are 4,839 employees with annual compensation of \$291,497,474 who are currently participating in the DROP program. Employers of the Retirement System contribute on this payroll.

³ In addition, there are 4,468 employees with annual compensation of \$252,128,959 who are currently participating in the DROP program. Employers of the Retirement System contribute on this payroll.

⁴ In addition, there are 2,711 employees with annual compensation of \$146,552,344 who are currently participating in the DROP program. Employers of the Retirement System contribute on this payroll.

⁵ In addition, there are 973 employees with annual compensation of \$47,063,551 who are currently participating in the DROP program. Employers of the Retirement System contribute on this payroll.



 Schedule G shows the distribution by age and service of the number and average annual compensation of active members included in the valuation.

SECTION III - ASSETS

The current retirement law provides for the maintenance of four funds for the purpose of recording
the fiscal transactions of the System, namely, the Annuity Savings Fund, the Pension Accumulation
Fund, the Pre-Retirement Death Benefit Fund, and the Deferred Retirement Option Plan Fund.

(a) Annuity Savings Fund

The Annuity Savings Fund is the fund to which are credited all contributions made by members together with regular interest thereon. When a member retires or when a survivor allowance becomes payable the amount of the member's accumulated contributions are transferred from the Annuity Savings Fund to the Pension Accumulation Fund. The market value of assets credited to the Annuity Savings Fund on September 30, 2006, which represent the accumulated contributions of active members to that date, including interest, amounted to \$2,943,588,389.

(b) Pension Accumulation Fund

The Pension Accumulation Fund is the fund to which are credited all contributions made by the employer, except those contributions made to the Pre-Retirement Death Benefit Fund which was created October 1, 1983. When a member retires or when a survivor allowance becomes payable, the pension is paid from this fund. In addition, the amount of the member's accumulated contributions is transferred from the Annuity Savings Fund to the Pension Accumulation Fund and the annuity is paid from this fund. On September 30, 2006 the market value of assets credited to this fund amounted to \$15,745,763,943.

(c) DROP Fund

The DROP Fund is the fund to which are credited deferred retirement benefits on behalf of members who elect to participate in the DROP, together with regular interest thereon. In addition, member contributions while participating in the DROP, together with regular interest therein, are credited to the Fund. At the end of the DROP deferral period, the member receives the amount of the deferred retirement benefits and contributions plus interest in the member's DROP account. On September 30, 2006, the market value of assets credited to this Fund amounted to \$468,413,337.

(d) Pre-Retirement Death Benefit Fund

The Pre-Retirement Death Benefit Fund is the fund to which are credited contributions made by the employer for the special pre-retirement death benefit which became effective October 1, 1983. On September 30, 2006, the market value of assets credited to this fund amounted to \$15,619,986.



TABLE 4

MARKET VALUE OF ASSETS BY FUND
AS OF SEPTEMBER 30, 2006

FUND	MARKET VALUE OF ASSETS
Annuity Savings Fund Pension Accumulation Fund DROP Fund	\$ 2,943,588,389 15,745,763,943 468,413,337
Total Market Value of Assets	\$ 19,157,765,669

- The five-year market related actuarial value of assets as of September 30, 2006 was \$19,821,133,268. Schedule B shows the development of the actuarial value of assets as of September 30, 2006
- 4. Schedule C shows the receipts and disbursements of the System for the year 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 September 30, 2006.
- 2. The valuation balance sheet shows that the System has total prospective liabilities of \$29,205,523,165. Of this amount, \$13,408,294,457 is for the prospective benefits payable on account of present retired members, beneficiaries of deceased members, and DROP participants, and \$15,797,228,708 is for the prospective benefits payable on account of present active and inactive members. Against these liabilities, the System has total present actuarial value of assets, exclusive of the Pre-Retirement Death Benefit Fund, of \$19,821,133,268 as of September 30, 2006. The difference of \$9,384,389,897 between the total liabilities and the total present actuarial value of assets represents the present value of contributions to be made in the future. Of this amount, \$2,297,792,876 is the present value of future contributions expected to be made by members to the Annuity Savings Fund, and the balance of \$7,086,597,021 represents the present value of future contributions payable by the employer.

- 3. The employer's regular contributions to the System consist of normal contributions and accrued liability contributions. The valuation indicates that employer normal contributions at the rate of 6.45% of payroll are required to provide the benefits of the System for the average new member.
- 4. Prospective normal contributions at the rate of 6.45% have a present value of \$2,962,630,322. When this amount is subtracted from \$7,086,597,021 which is the present value of the total future contributions to be made by the employer, there remains \$4,123,966,699 as the amount of future accrued liability contributions. Accrued liability contributions of 5.24% of payroll are to be made toward liquidating the unfunded accrued liability. Annual accrued liability contributions at the rate of 5.24% of payroll will liquidate the unfunded accrued liability within approximately 20 years from the valuation date on the assumption that the aggregate amount of accrued liability contribution will increase by 4.50% each year.
- 5. A contribution of 0.12% is required to meet the cost of the pre-retirement death benefit program this year. A contribution of 0.05% is required to meet the cost of group term-life insurance premiums.
- An additional contribution of 0.21% of payroll is required to cover the expenses of administering the System.

SECTION V - CONTRIBUTIONS PAYABLE BY EMPLOYER

- The retirement law provides that the employer contributions are to be paid from the same source from which employees' salaries are paid.
- On the basis of the actuarial valuation prepared as of September 30, 2006 it is recommended that the employer make contributions at the following rates beginning October 1, 2008:



TABLE 5

EMPLOYER CONTRIBUTION RATES AS A PERCENTAGE OF MEMBERS' COMPENSATION

EMPLOYER CONTRIBUTION	REQUIRED FISCAL YEAR 08/09
Normal	6.45%
Accrued Liability	5.24
Death Benefit	0.12
Term-Life	0.05
Administration	<u>0.21</u>
Total	12.07%

3. Contributions at the above rates of payroll are also recommended for payment by the Alabama High School Athletic Association. The following table shows the rates to be paid by special units of the System in addition to the rates shown above and the fiscal year through which these additional rates are required to be paid.

TABLE 6
ADDITIONAL RATES REQUIRED FOR SPECIAL UNITS OF THE SYSTEM

UNIT	ADDITIONAL EMPLOYER RATE	THROUGH FISCAL YEAR ENDING SEPTEMBER 30
Community Services of West Alabama	9.71%	2007
Organized Community Action Program - Troy	8.70	2007
Etowah County Community Services Program	13.50	2008
Jefferson County American Federation of Teachers	4.15	2009
Alabama State Employees Association	2.66	2015
Developing Alabama Youth Foundation	2.74	2017
Alabama Congress of Parents and Teachers	2.15	2020
Central Alabama Opportunities Industrialization Center	5.07	2020





The following is the annual actuarial certification to the Teachers' Retirement System of Alabama required by Act 2000-732.

1. We hereby certify that there has been no change since the previous valuation in the liquidation period of 20 years used to determine the accrued liability contribution rate of 5.24% as part of the total rate of 12.07% to be paid by employers to the Teachers' Retirement System of Alabama.

Signed

Edward A. McDonald, ASA, FCA, MAAA

President



The following table shows the estimated gain or loss from various factors that resulted in an increase of \$344,835,928 in the unfunded accrued liability from \$3,779,130,771 to \$4,123,966,699 during the year ending September 30, 2006.

ANALYSIS OF FINANCIAL EXPERIENCE

(in millions of dollars)

ITEM	AMOUNT OF INCREASE/ (DECREASE)		
Interest (8.00%) added to previous unfunded accrued liability Accrued liability contribution	\$	302.3 (99.4)	
Experience: Valuation asset growth Pensioners' mortality Turnover and retirements New entrants Salary increases Method changes Amendments Assumption changes Total	\$	383.2 (25.7) 50.6 47.3 (474.2) 0.0 0.0 160.7	



SECTION VIII - 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 SEPTEMBER 30, 2006

GROUP	NUMBER
Retirees and beneficiaries currently receiving benefits	61,393
DROP participants	5,375
Terminated employees entitled to benefits but not yet receiving benefits	16,913
Active members	138,613
Total	222,294

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)
6/30/2001	\$17,475,298	\$17,238,616	\$ (236,682)	101.4%	\$4,305,080	(5.5)%
6/30/2002	17,904,881	18,374,174	469,293	97.4	4,379,183	10.7
6/30/2003	18,110,470	19,357,735	1,247,265	93.6	4,632,611	26.9
9/30/2004	18,704,009	20,886,190	2,182,181	89.6	4,846,677	45.0
9/30/2005	19,248,207	23,027,338	3,779,131	83.6	5,326,408*	71.0
9/30/2006	19,821,133	23,945,100	4,123,967	82.8	5,458,443	75.6

^{*}Includes pay increase granted under Act 2005-174.



 The information presented in the required supplementary schedules was determined as part of the actuarial valuation at September 30, 2006. Additional information as of the latest actuarial valuation follows.

Valuation date	09/30/2006
Actuarial cost method	Entry Age Normal
Amortization method	Level percent open
Remaining amortization period	20 years
Asset valuation method	Five-year market related value
Actuarial assumptions:	
Investment rate of return*	8.00%
Projected salary increases*	5.00 - 7.75%
Cost-of-living adjustments	None
*Includes inflation at	4.50%

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

Period Ending	Annual Pension Cost (APC)	Percentage Of APC Contributed	Net Pension Obligation (NPO)
September 30, 2004	\$348,773	100%	\$0
September 30, 2005	329,194	100	0
September 30, 2006	413,975	100	0



SCHEDULE A

VALUATION BALANCE SHEET SHOWING THE PRESENT AND PROSPECTIVE ASSETS AND LIABILITIES OF THE TEACHERS' RETIREMENT SYSTEM OF ALABAMA AS OF SEPTEMBER 30, 2006

	September 30, 2006	September 30, 2005				
<u>ASSETS</u>						
Actuarial Value of Present Assets	\$ 19,821,133,268	\$ 19,248,206,549				
Present value of future members' contributions to the Annuity Savings Fund	\$ 2,297,792,876	\$ 2,317,142,173				
Present value of future employer contributions to the Pension Accumulation Fund						
Normal contributions Unfunded accrued liability contributions	\$ 2,962,630,322 4,123,966,699	\$ 2,667,980,884 3,779,130,771				
Total prospective employer contributions	\$ 7,086,597,021	\$ 6,447,111,655				
Total Assets	\$ 29,205,523,165	\$ 28,012,460,377				
LIAB	ILITIES					
Present value of benefits payable on account of retired members, beneficiaries of deceased members now drawing retirement allowances, and DROP participants	\$ 13,408,294,457	\$ 12,998,138,145				
Present value of prospective benefits payable on account of present active and inactive members: Service retirement allowances Disability retirement allowances	\$ 14,824,486,911 473,818,464	\$ 14,024,427,074 494,403,924				
Survivor allowances Refunds of members' contributions	130,049,517 368,873,816	120,828,899 374,662,335				
Total	\$ 15,797,228,708	\$ 15,014,322,232				
Total Liabilities	\$ 29,205,523,165	\$ 28,012,460,377				



SCHEDULE A (continued)

SOLVENCY TEST (\$1000's)

A		gate Accrued Lia	bilities For			of Accrued d by Repor	
Valuation Date	(1) Active Member Contributions	(2) Retirants and Beneficiaries	(3) Active Members (Employer Financed Portion)	Reported Assets	(1)	(2)	(3)
9/30/2006 ¹	\$2,943,588	\$13,408,294	\$7,593,218	\$19,821,133	100%	100%	45.7%
9/30/2005 ²	2,856,983	12,998,138	7,172,217	19,248,207	100	100	47.3
9/30/2004 ³	2,779,858	11,491,556	6,614,776	18,704,009	100	100	67.0
6/30/2003	2,750,536	9,548,773	7,058,426	18,110,470	100	100	82.3
6/30/2002 ⁴	2,690,967	8,526,609	7,156,598	17,904,881	100	100	93.4
6/30/2001 ¹	2,607,236	7,471,415	7,159,965	17,475,298	100	100	103.3

Reflects changes in actuarial assumptions.
Reflects pay increase payable under Act 2005-174 and additional allowance payable under Act 2006-310.
Reflects additional allowance payable under Act 2005-174.
Reflects effect of amendments to the System and additional allowance payable under Act 2002-393. Beginning 6/30/2002, Item (1) and Item (2) include DROP Participants.



SCHEDULE B

DEVELOPMENT OF SEPTEMBER 30, 2006 ACTUARIAL VALUE OF ASSETS

(1)	Actuarial Value of Assets on September 30, 2005	\$	19,248,206,549
(2)	Market Value of Assets on September 30, 2006		19,157,765,669
(3)	Market Value of Assets on September 30, 2005		18,131,706,069
(4)	Net Cash Flow During the Fiscal Year a. Contributions b. Benefit Payments c. Administrative Expenses d. Investment Expenses e. Net Cash Flow (a b c d.)	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	695,431,027 1,254,511,889 2,165,599 1,271,470 (562,517,931)
(5)	Actual Investment Return ((2) - (3) - (4)e.)		1,588,577,531
(6)	Assumed Rate of Return on Assets		8.00%
(7)	Expected Investment Return ((1) * (6)) + (((4)a (4)b(4)c.) * .5 * (6)) + (4)d.	8 8 8 8 8 8	1,518,678,136
(8)	Investment Gain/(Loss) for the Fiscal Year ((5) - (7))		69,899,395
(9)	Phased-In Recognition of Investment Gain/(Loss) a. Current Fiscal Year (.2 * (8)) b. Prior Fiscal Year c. Second Prior Fiscal Year d. Third Prior Fiscal Year e. Fourth Prior Fiscal Year f. Total Recognized Investment Gain/(Loss) for Fiscal Year		13,979,879 75,139,616 (472,352,981) 0 0 (383,233,486)
(10)	Actuarial Value of Assets on September 30, 2006 ((1) + (4)e. + (7) + (9)f.)	\$	19,821,133,268



SCHEDULE C

SUMMARY OF RECEIPTS AND DISBURSEMENTS FOR THE PERIOD ENDING SEPTEMBER 30, 2006

Receipts for the Period			
Contributions: Members Employer	\$ 281,455,579 413,975,448		
Total		\$	695,431,027
Investment Income		_	1,587,306,061
TOTAL		\$	2,282,737,088
Disbursements for the Period			
Benefit Payments Refunds to Members DROP Distributions Miscellaneous:		\$	1,138,254,146 32,733,133 69,129,023
Transfers to Plant Fund Transfers to Expense Fund Transfers to Pre-Retirement Death Benefit Fund	\$13,587,460 2,165,599 <u>808,127</u>		
Total		_	16,561,186
TOTAL		\$	1,256,677,488
Excess of Receipts over Disbursements		\$	1,026,059,600
Reconciliation of Asset Balances			
Market Value of Assets as of September 30, 2005		\$	18,131,706,069
Excess of Receipts over Disbursements		_	1,026,059,600
Market Value of Assets as of September 30, 2006		\$	19,157,765,669
Rate of Return on Market Value of Assets			8.89%



SCHEDULE D

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

The assumptions and methods used in the valuation were selected based on the actuarial experience study prepared as of September 30, 2005, submitted to and adopted by the Board on May 21, 2007.

INVESTMENT RATE OF RETURN: 8% per annum, compounded annually.

SALARY INCREASES: Representative values of the assumed annual rates of future salary increases are as follows and include inflation at 4.50% per annum:

<u>Age</u>	Annual Rate
20	7.25%
25	7.25
30	7.75
35	7.00
40	6.50
45	6.25
50	6.00
55	5.50
60	5.00
65	5.00

SEPARATIONS BEFORE SERVICE RETIREMENT: Representative values of the assumed annual rates of death, disability, and withdrawal are as follows:

			Annual Rate	of		
<u>Age</u>	Death	Disability	Withdrawal			
				Years of S	Service	
			0-4	<u>5-9</u>	10-20	20+
		<u>Male</u>				
20	0.05%	0.05%	30.00%			
25	0.07	0.06	16.50	12.00%		
30	0.08	0.07	15.00	5.50	5.50%	
35	0.09	0.13	15.00	5.50	3.00	4.050/
40 45	0.11 0.16	0.20 0.21	14.50 14.50	5.50 5.25	3.00 3.00	1.25% 1.00
50	0.26	0.64	12.00	4.50	3.00	1.00
55	0.44	1.20	11.50	4.00	2.25	1.00
60	0.80		10.00	4.00		3453
65	1.45		10.00	6.00		
69	2.17		10.00	6.00		
		Female				
20	0.03%	0.10%	30.00%			
25	0.03	0.10	14.50	8.00%		
30	0.04	0.10	14.50	6.00	4.00%	
35	0.05	0.15	13.50	6.00	3.50	
40	0.08	0.16	12.00	4.50	2.50	1.50%
45 50	0.10 0.16	0.37 0.70	11.50 11.00	3.75 3.75	2.50 2.50	0.75 0.75
55	0.16	1.10	10.50	3.75	2.50	0.75
60	0.51	1.10	11.00	4.50	2.00	0.70
65	0.97		14.00	6.00		
69	1.37		14.00	6.00		



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

For members first eligible for unreduced benefits upon attaining 25 years of service but before age 65, rates are as follows:

Annual	Rate*

<u>Age</u>	<u>Male</u>	<u>Female</u>			
45	30.0%	30.0%			
50	15.0	16.0			
55	48.0	53.0			
60	40.0	49.0			
62	50.0	55.0			

^{*}Retirement rates are increased by 7% in year when member first becomes eligible for unreduced service retirement on or after age 50 but before age 60.

For members first eligible for unreduced benefits before attaining 25 years of service and all members age 65 and over, the rates are as follows:

Ar	n	ual	Ra	te

Age	Male	Female
60	13.0%	22.0%
62	30.0	30.0
65	34.0	35.0
67	26.0	27.0
69	25.0	26.0
70	25.0	26.0
72	26.0	25.0
75	100.0	100.0

DEATHS AFTER RETIREMENT: Rates of mortality for the period after service retirement are according to the 1994 Group Annuity Mortality Table set forward one year for females. Special tables are used for the period after disability retirement. Representative values of the assumed annual rates of death after service and disability retirement are as follows:



Annual Rate of Death after

Service Retirement			Disability Retirement		
<u>Age</u>	<u>Male</u>	<u>Female</u>	Male	<u>Female</u>	
40	0.11%	0.08%	3.32%	2.60%	
45	0.16	0.10	3.49	2.43	
50	0.26	0.16	3.76	2.50	
55	0.44	0.26	4.20	2.67	
60	0.80	0.51	4.88	2.95	
65	1.45	0.97	5.95	3.39	
70	2.37	1.50	7.63	4.08	
75	3.72	2.53	10.22	5.16	
80	6.20	4.40	14.17	6.85	
85	9.72	7.53	20.09	9.47	
90	15.29	12.88	28.67	13.46	

SPOUSE'S BENEFIT: For those eligible for spouse's benefits, it is assumed that 75% will elect the lump sum death benefit and 25% will elect the spouse's benefit.

VALUATION METHOD: Entry age normal cost method. Actuarial gains and losses are reflected in the unfunded actuarial accrued liability.

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.

CM

SCHEDULE E

ACTUARIAL COST METHOD

- 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 8%), of each member's expected benefit payable 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 probability of his terminating with a service, disability or survivor's benefit. Future salary increases are also anticipated. The present value of the expected 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 benefits payable from the System on account of the present group of members and beneficiaries.
- The employer contributions required to support the 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 normal" method. Under this method, a calculation is made to determine the uniform and constant percentage rate of employer contribution which, if applied to the compensation of the average new 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 benefits payable on his behalf.
- 4. The unfunded accrued liability contributions are determined by subtracting the present value of prospective employer normal contributions and member contributions together with the current assets held from the present value of expected benefits to be paid from the System.

SCHEDULE F



SUMMARY OF MAIN PLAN PROVISIONS AS INTERPRETED FOR VALUATION PURPOSES

The Teachers' Retirement System of Alabama was established on September 15, 1939 and went into effect September 30, 1941. The valuation took into account amendments to the System through the valuation date. The following summary describes the main benefit and contribution provisions of the System as interpreted for the valuation.

1 - DEFINITIONS

Average Final Compensation - the average compensation of a member for the 3 highest years in the last 10 years of Creditable Service.

Membership Service – all service rendered while a member of the retirement system and for which contributions are made.

Creditable Service – the sum of membership service, prior service, and any other service established as creditable in accordance with the provisions of the retirement law.

Annuity – payments for life derived from accumulated contributions of a member.

Pension – payments for life derived from employer contributions.

Retirement Allowance – the sum of the annuity and pension.

2 - BENEFITS

Service Retirement Allowance

Condition for Allowance

A retirement allowance is payable upon the request of any member who has completed 25 years of creditable service or who has attained age 60 and completed at least 10 years of creditable service.

Amount of Allowance

Upon service retirement a member receives a retirement allowance equal to 2.0125% of the member's average final compensation multiplied by the number of years of creditable service. At retirement, a member receives one additional year of creditable service in determining the retirement allowance for each five years of service as a full-time certified firefighter, police officer, or correctional officer.

The member may elect to receive a reduced retirement allowance in order to provide an allowance to a designated beneficiary after the member's death (see "Special Privileges at Retirement" below).

Disability Retirement Allowance

Condition for Allowance

Amount of Allowance

Benefits Payable on Separation from Service

Benefits Payable upon Death in Active Service A disability retirement allowance may be granted to a member who has 10 years or more of creditable service who becomes totally and permanently incapacitated for duty before reaching eligibility for a service retirement allowance.

On retirement for disability, a member receives a retirement allowance equal to 2.0125% of the member's average final compensation multiplied by the number of years of creditable service. At retirement, a member receives one additional year of creditable service in determining the retirement allowance for each five years of service as a full-time certified firefighter, police officer, or correctional officer.

The member may elect to receive a reduced retirement allowance in order to provide an allowance to a designated beneficiary after the member's death (see "Special Privileges at Retirement" below).

Any member who withdraws from service is entitled to receive his or her contributions with allowable interest. A member who has completed 10 years of creditable service may, after separation from service, continue in the membership of the System and file for service retirement after reaching age 60.

In the event of the death of a member eligible for service retirement, the designated beneficiary may elect (1) to exercise Option 3 defined below under "Special Privileges at Retirement" or (2) to receive a return of member contributions and total earned interest plus a death benefit payable from the pre-retirement death benefit fund equal to the salary on which the member made retirement contributions for the previous scholastic year (July 1-June 30).*

In the event of the death of a member with more than one year of service who is not eligible to retire, the designated beneficiary shall receive the return of member contributions and total earned interest. Also, the designated beneficiary shall receive an additional death benefit payable from the pre-retirement death benefit fund equal to the salary on which retirement contributions were made for the previous scholastic year (July 1-June 30).*

In the event of a job-related death of a member with less than one year of service, the designated beneficiary shall receive the return of member contributions and total earned interest plus a death benefit payable from the preretirement death benefit fund equal to the annual earnable compensation of the member at the time of death.*

In the event of the death of a member with less than one year of service that is not job-related, the designated beneficiary shall receive the return of member contributions and total earned interest plus a matching death benefit which is limited to a \$5,000 maximum.

*However, if the death occurred more than 180 calendar days after the member's last day in pay status, or if the deceased had applied for a refund of contributions or terminated employment, the lump sum will be the same as if the member had less than one year of service and the death was not job-related.

Special Privileges at Retirement

In lieu of the full retirement allowance, any member may, at retirement, elect to receive a reduced retirement allowance equal in value to the full allowance, with the provision that:

Option 1 - If the member dies before annuity payments have equaled the present value of the annuity at the date of retirement, the balance is paid to a designated beneficiary or to his estate, or

Option 2 - After the member's death, the member's allowance is continued throughout the life of the designated beneficiary, or

Option 3 - After the member's death, one-half of the member's allowance is continued throughout the life of the designated beneficiary, or

Option 4 - Some other benefit is paid either to the member or to such other person as the member shall designate provided such benefit, together with the reduced retirement allowance, is of equivalent actuarial value to his retirement allowance and is approved by the Board of Control.

Deferred Retirement Option Plan (DROP)

A member may elect to participate in the Deferred Retirement Option Plan (DROP) upon completion of at least 25 years of creditable service and attainment of at least 55 years of age. Under the DROP, the member may defer receipt of a retirement allowance and continue employment for a period not to exceed five years, nor to be less than three years. At the end of this period, the member would withdraw from active service and receive the retirement benefit based on his or her years of service credit at the time of enrollment in the DROP, and also receive a payment for the deferred retirement benefits including interest.

Member Contributions

Regular members contribute 5% of salary. Certified police officers and firefighters contribute 6% of salary. DROP participants continue to contribute during the DROP period, but receive a refund of these contributions and interest upon retirement.



SCHEDULE G

SCHEDULE OF ACTIVE PARTICIPANT DATA AS OF SEPTEMBER 30, 2006

Attained Age	Years of Service										
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	≥ 40	Total
Under 25	2,307	2,597	27								4,93
Avg. Pay	26,160	27,797	21,618								26,99
25 to 29	2,287	8,952	2,218	19							13,47
Avg. Pay	26,664	31,629	37,123	28,255							31,68
30 to 34	1,708	5,796	6,540	1,599	13						15,65
Avg. Pay	26,742	31,975	39,168	42,072	28,315						35,43
35 to 39	1,852	5,527	5,086	5,234	1,430	31					19,16
Avg. Pay	26,273	31,068	37,911	43,821	44,556	35,135					36,91
40 to 44	1,309	4,786	4,726	3,610	3,835	1,200	46				19,51
Avg. Pay	24,911	28,657	34,647	40,788	45,275	45,447	38,879				36,42
45 to 49	1,047	3,978	4,434	3,981	3,666	3,157	1,494	36			21,79
Avg. Pay	26,130	29,584	33,556	38,747	43,767	48,121	47,728	41,654			38,23
50 to 54	788	3,046	3,478	3,623	3,869	2,822	2,787	1,150	5		21,56
Avg. Pay	26,087	31,518	34,212	37,544	42,736	47,343	51,674	54,431	61,272		40,68
55 to 59	538	2,038	2,282	2,482	3,054	2,629	735	402	70	2	14,23
Avg. Pay	27,918	31,823	34,002	36,593	41,391	46,128	51,086	56,716	62,979	68,977	39,40
60 to 64	223	953	1,173	1,013	1,101	916	325	115	36	10	5,86
Avg. Pay	27,107	28,435	33,394	38,646	42,798	44,116	42,224	60,727	72,925	63,888	38,01
65 to 69	66	320	416	287	257	204	88	42	17	19	1,71
Avg. Pay	23,123	23,654	26,889	37,496	45,853	47,343	39,908	52,203	71,217	68,825	35,37
70 & up	34	99	181	128	109	58	44	22	12	17	70
Avg. Pay	21,695	21,911	20,131	23,274	36,892	40,561	34,794	29,660	39,057	84,027	28,38
Total	12,159	38,092	30,561	21,976	17,334	11,017	5,519	1,767	140	48	138,61
Avg. Pay	26,278	30,581	35,830	39,971	43,432	46,731	49,542	54,739	64,425	73,187	36,85