Charles G. Hall F.C.A., M.A.A.A., A.S.A. Enrolled Actuary 1433 Hideaway Court Baton Rouge, La. 70806 (225) 924-6209

September 8, 2003

Board of Trustees **TEACHERS' RETIREMENT SYSTEM OF LOUISIANA** Post Office Box 94123, Capitol Station Baton Rouge, Louisiana 70804-9123

Ladies and Gentlemen:

This report presents the results of the actuarial valuation of assets and liabilities, as well as funding requirements, for the Teachers' Retirement System of Louisiana as of June 30, 2003.

This report has been prepared in accordance with generally accepted actuarial principles and practices and to the best of my knowledge, fairly reflects the actuarial present value of accrued benefits of the Teachers' Retirement System.

In preparing this valuation, I have relied upon the information provided regarding plan provisions, plan membership, plan assets and other matters as detailed in the exhibits of this report. In particular, I have relied upon the statement of assets provided by Hawthorn, Waymouth and Carroll, Certified Public Accountants.

The present values shown herein have been estimated on the basis of the actuarial cost method specified in Louisiana Revised Statutes Title 11 Section 22(13). The Actuarial Assumptions, which have been approved by the Board of Trustees, are appropriate for the purposes of this valuation, are reasonable in the aggregate, and when applied in combination represents my best estimates of the anticipated experience under the plan.

A brief summary of the more important figures developed in this valuation, with comparable results from previous valuations are as follows:

			Prior	
		J <u>une 30, 2003</u>	June 30, 2002	June 30, 2001
Ι.	Membership Census			
±•	1) Retirees	50,903	48,929	48,064
	2) Actives	87,646	87,356	86,829
	3) DROP	2,722	5,103	3,421
	4) Terminated Vested	5,720	624	630
II.	Annual Benefits	\$ 924,735,564	\$ 873,678,046	\$ 802,202,373
III.	Actuarial Payroll	2,977,885,311	2,777,667,107	2,582,830,822
IV.	Valuation Assets	11,664,894,495	11,746,064,614	11,771,682,878
V.	Experience Account	-1,088,630,751	-306,224,579	666,053,912
VI.	Investment Yield			
	Actuarial Value	-5.55%	-5.84%	.05%
	Market Value	2.16%	-8.08%	-4.73%
VII.	Cost to Fund Annual			
V I I .	Pension Accruals	434,833,046	416,558,277	388,493,973
	(Normal Costs)	14.60%	110,00%	15.04%
VIII.	Unfunded Actuarial			
	Accrued Liability	5,531,917,633	4,517,175,088	3,618,734,378
IX.	Funded Percentage	67.8%	72.2%	75.5%
х.	Funding Requirements to Pay (Mid-year Payment)			
	1) Employee Contribution	244,655,604	228,706,825	212,755,930
	Rate	7.98%	7.97%	7.97%
		400 000 100	425 051 022	
	2) Employer Contribution Rate - Current Year	499,236,109 14.7%	435,851,822 14.0%	371,151,789 13.0%
	Nace Current lear	11./0	11.00	10.00
	3) Projected Employer	529,350,663	442,981,568	385,117,091
	Contribution - Next Year	15.4%	13.8%	12.9%

The above funding requirements measure the cost of benefits that were in effect on June 30, 2003.

Current Funding

The Actuarial Valuation for the plan year ending June 30, 2003 discloses a significant increase in the value of the plan's unfunded accrued liability. Prospective funding requirements have increased as a percentage of payroll. It is generally appropriate for the current valuation process to disclose the source or cause of any significant changes in the plan from year to year. Changes that occur are usually the result of changes in actuarial assumptions, gains or losses resulting from actual experience which differs significantly from expected plan experience.

The basic elements of the annual required contribution are the normal cost and amortization of the Unfunded Actuarial Liability (UAL). The normal cost is the annual cost to provide an additional year of benefit accrual. The normal cost is divided into two parts, the employee portion and the employer portion, both expressed as a percentage of payroll. Act 81 of the 1988 Legislative Session provides for the amortization of the initial UAL, plus subsequent changes in benefits, methods or gain/loss experience.

To assist the Board of Trustees in reconciling changes in the unfunded actuarial accrued liability, the following gain/loss analysis is presented as follows:

CHANGE IN UNFUNDED LIABILITY

Unfunded Liability 6/30/2002

\$ 4,517,175,088

INCREASES

Interest on Unfunded Liability	\$ 372,666,945
Investment Loss	1,598,190,384
Experience Loss	452,172,277
Experience Account Allocation	799,095,192
Incurred Increases	1,623,834,414

DECREASES

Amortization Payments	258,893,764
Assumption Changes	263,724,229
Texaco Transfer	96,277,696
Employer Short Fall Credit	-9,703,820
Incurred Decreases	609,191,869

Unfunded Liability 6/30/2003

\$ 5,531,917,633

The employer contribution rate established by the Public Retirement Systems' Actuarial Committee for the 2003-2004 plan year was 13.8%. The actual employer contribution rates determined by this valuation for the current plan year is 14.9%. The current adjusted rate is less than the required employer's contributions. Since any change in required contributions is attributable to many factors, the following sections address the source and respective impact to the required employer contribution rate.

Actuarial Assets/Valuation Assets

The Actuarial Value of assets represents the gross actuarial assets determined in accordance with the methodology set forth in Exhibit 6 (with appropriate changes for the current year noted) to fund all liabilities of the pension plan as well as side-fund accounts dedicated for other programs. The Valuation Assets exclude the side-fund accounts for purposes of determining the employer contribution rate as illustrated on page 13 of Exhibit 2. The side-fund accounts excluded are as follows:

• LSU Agriculture and Extension Service Fund:

Participants of the LSU

Agriculture and Extension Service receive supplement benefits from TRSL equal to the difference between the TRSL benefit formula and the Federal Civil Service formula. The funding is recorded separately in the side-fund with assets co-mingled with the Actuarial Value of assets. The current balance is \$-180,974.

• Texaco Settlement Fund:

The purpose of this fund is to accumulate Texaco settlement contributions as a separate account invested at TRSL's actuarial rate of return. Once the accumulated value of the account equals the outstanding balance of the initial unfunded actuarial liability, the account and liability will be liquidated. The current account balance is \$162,031,438.

• Experience Account Fund:

The purpose of this fund is to accumulate 50% of the excess investment gain or loss relative to the actuarial valuation rate of 8.25%. The account is used to fund COLA'S for retirees. The benefit granted must be funded at 100% of actuarial cost. The current balance is \$-1,088,630,751.

The reduction in the Experience Account Fund was the result of a \$799,095,192 debit for poor investment performance below the actuarial rate of 8.25% for July 1, 2003.

The negative Experience Account balance presents some serious funding issues. Sound actuarial funding standards, without regard to statutory requirements, would require the balance to be set at zero for funding purposes. Liquidating the balance would increase the contribution rate by 1.9%.

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Board of Trustees TRS September 8, 2003

Investment Experience

The rate of return on the actuarial value of assets during the last five (5) years has been as follows for plan years ending June 30:

1999	2000	2001	2002	2003	AVERAGE
13.99%	17.63%	.05%	-5.84%	-5.55%	3.59%

The net actuarial rate of return assumed in the valuation was 8.25%. For the plan year ending June 30, 2003 the net realized actuarial rate of return was less than the long-term investment assumption used to project benefits. The result was a net investment experience loss of \$1,598,190,384 above projected investment income.

Plan Experience

The actuary is charged with making the best estimate of future plan experience to properly fund future benefits. If the actual experience differs from the projected experience, a gain or loss occurs. This gain or loss is then amortized over the later of the year 2029 or a fifteen year statutory period to make a mid-course adjustment in future funding requirements. During the 2002-2003 plan year, the system incurred an \$452,172,277 experience loss.

The gains/losses incurred are beyond the control of the Board of Trustees, but the Trustees should understand the source of the experience to effectively communicate with the legislature.

The demographic changes illustrated in Exhibit 4 indicates the system continues to exhibit properties of an aging population which is indicative of the continuing problem the state faces in its ability to attract and retain graduates to the profession. Recall that one of the characteristics of the Projected Unit Credit cost method is to accelerate funding requirements for an aging population, even if all assumptions are realized.

Funding as a Percentage of Payroll

The funding requirements mandated by Act 81 require the employee to contribute 8% of payroll for the plan year beginning in 1989. The employer will pay a percentage of the normal cost plus a dollar amount sufficient to amortize the unfunded liability over a 40 year period. To convert the dollar amortization payment to a percentage of payroll would suggest that the aggregate employer contribution rate would remain level as a percentage of pay provided aggregate salaries increased in unison with the rate of increase in annuity payments. This would imply that aggregate salaries should increase at a rate of at least 4.5% during the next thirty (30) years. To determine whether this is a reasonable expectation, aggregate salary growth from all sources, including ORP participants, during the past ten (10) years is illustrated as follows:

June 30	Payroll/\$1000	Percent Increase
1993	2,329,827	1.0%
1994	2,359,049	1.3%
1995	2,423,640	2.7%
1996	2,505,173	3.4%
1997	2,661,350	4.3%
1998	2,922,936	9.8%
1999	3,017,833	3.3%
2000	3,162,097	4.8%
2001	3,212,474	4.2%
2002	3,506,647	9.2%
2003	3,605,232	2.8%

During the last ten (10) years the aggregate salaries have increased at an annualized rate of 4.46%. If this trend continues during the next twenty-six (26) years, the percentage of pay required to amortize the unfunded liability can be expected to decrease slightly in the absence of other experience gains or losses. The current amortization assumes that aggregate payroll increases at a rate of 4.50% annually.

Experience Study

During the June 4, 2002 Board Meeting, the results of the five year Experience Study covering the period beginning on July 1, 1996 and ending on June 30, 2001 was presented to the Board of Trustees. Misclassification of data resulted in some modifications to the original report which were disclosed at the May 2, 2003 Board Meeting. The results and recommendations of the report are reflected in the valuation, pending review by the Legislative Actuary.

Disclosures

Exhibit 3, "Pension Accounting and Financial Disclosure", contains disclosure of the accrued liabilities under the Projected Unit Credit Actuarial Cost Method required by the Governmental Accounting Standards Board Statement No. 25.

The format of this report was designed with the intent of highlighting the pertinent results of the valuation's funding requirements. Should you have any questions or comments, please do not hesitate to contact me.

Sincerely,

Charles G. Hall, FCA,MAAA,ASA Actuary

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EXHIBIT 1

DEVELOPMENT OF COSTS, LIABILITIES AND CONTRIBUTIONS

Normal Costs and Accrued Liabilities are calculated in accordance with the Projected Unit Credit Actuarial Cost Method, and the Actuarial Assumptions outlined in Exhibit 6 based on the Provisions of the Plan as summarized in Exhibit 5.

			<u>June 30,</u> Dollar <u>Amount</u>	2003 % of Salary	Prior June 30, Dollar Amount	Year 2002 % of Salary
I.	Nor	mal Costs (annual pension accru	als)			
	Act a) b) c) d) e)	ive Members with Complete Data Retirement Benefits Disability Benefits Survivor Benefits Voluntary Termination Expenses TOTAL	<pre>\$ 368,569,810 10,193,897 9,145,820 36,123,519 10,800,000 434,833,046</pre>	12.38% .34% .31% 1.21% .36% 14.60%	\$ 344,998,257 17,781,111 9,932,386 27,798,882 8,900,000 409,410,636	12.42% .64% .36% 1.00% .32% 14.74%
	Dat	a Requiring Estimates Adjusted TOTAL	n/a 434,833,046	14.60%	7,147,641 416,558,277	.26% 15.00%
II.	Act	uarial Accrued Liability				
	a)	Active Members 1) Retirement Benefits 2) Disability Benefits 3) Survivor Benefits 4) Voluntary Termination	5,961,250,380 126,569,272 120,497,501 210,746,294 6,419,063,447		5,802,618,607 226,674,097 137,662,049 138,296,806 6,305,251,559	
	b)	<pre>Retired and Inactive Members 1) Regular Retirees 2) Disabled Retirees 3) Survivors 4) Vested Deferred¹ 5) Contributions Refunded 6) DROP Deferred Benefits 7) DROP Account Balances</pre>	7,269,747,061248,005,741432,866,929568,824,13722,112,6901,535,856,928700,335,19510,777,748,681		6,840,876,027 245,797,331 418,447,561 19,973,733 67,989,309 1,692,518,460 672,385,722 9,957,988,143	
	C)	TOTAL	17,196,812,128		16,263,239,702	

¹Includes pending Retirement/Drop applications for 2003

Exhibit 1 (Continued) Costs, Liabilities & Contributions

		June 30, 2003	Prior Year June 30, 2002
II.	Actuarial Accrued Liability	17,196,812,128	16,263,239,702
III.	Assets	11,664,894,495	11,746,064,614
IV.	Unfunded Actuarial Accrued Liabilities - Projected Unit Credit*	5,531,917,633	4,517,175,088
	a) Change over prior year	1,014,742,545	898,440,710
	b) Funded Percentage (Total Assets)	67.8%	72.2%
V.	Employer Contributions To Fund Current Plan Year*		
	 a) Employer Portion of Normal Cost b) Amortization Payments c) Prior Contribution Variance TOTAL Required Contribution 	192,099,867 336,963,146 -29,823,902 499,236,111 14.9%	192,552,103 277,429,932 -34,130,213 435,851,822 14.0%
	Plus State Appropriation Actuarial Forecast Rate ² Employer Normal Cost Rate	0 13.8% 6.2579%	5,533,087 12.9% 6.7101%
VI.	Projected Employer Contributions To Fund Next Plan Year ¹		
PERS	 a) Employer Portion of Normal Cost b) Amortization Payments c) Prior Contribution Variance TOTAL Projected Contribution AC changed to 17.3% 	197,774,512 352,126,485 -20,547,198 529,353,799 15.4%	198,782,859 276,380,502 -32,181,793 442,981,568 13.8
	Plus State Appropriation	0	5,782,076
VII.	Current Payroll Projected Payroll - Mid Year Projected Payroll - Next Year	2,977,885,311 3,069,706,460 3,160,385,824	2,777,667,107 2,869,596,299 2,962,453,000
	ORP - Salary Adjustment Factor ³	1.14325	1.13538

¹Dollar Amounts reflect estimated payments due mid-year on January 1st per Act 81. ²Constitutional Minimum is <u>ll.8%</u> without regards to Employer Credits. ³The ORP salary adjustment factor is used to convert amortization payments to percentage of payroll.

EXHIBIT 2

FINANCIAL SUMMARY STATEMENT OF REVENUES AND EXPENSES FOR FISCAL YEAR ENDING

June 30, 2003 June 30, 2	02 June 30, 2001
OPERATING REVENUES:	
1. Contribution Income	
Member \$ 251,297,401 \$ 246,119,	37 \$ 226,754,298
Employer 415,298,635 392,636,	49 394,226,501
Appropriations 5,161,161 5,153,	48 4,946,469
ORP-Unfunded 29,499,096 27,196,	33 27,869,220
LSU-Coop/Ext 1,263,279 1,167,	63 1,021,262
Miscellaneous 115,138 1,520,	89 1,049,114
TOTAL CONTRIBUTIONS 702,634,710 673,794,	19 655,866,864
2. Investment Income	
Investments 245,625,327 -924,070,	
Less, investment expenses19,283,12222,812,	
TOTAL INVESTMENT INCOME 226,342,205 -946,882,	60 -594,326,474
OPERATING EXPENSES:	
1. General Administration 10,688,003 8,886,	
Other Expenses 490,780 475,	34 435,128
2. Benefits Paid	
a) Pension Benefits 1,003,327,453 920,593,	41 858,979,906
b) Return of Contrib. 22,287,120 23,432,	
TOTAL BENEFITS PAID 1,025,614,573 944,025,	
3. Total Expenses 1,036,793,356 953,387,	03 894,584,233
<u>NET INCREASE</u> : -107,816,441 -1,226,476	544 -833,043,843

EXHIBIT 2 (Continued)

Financial Summary

FINANCIAL SUMMARY STATEMENT OF ASSETS FOR FISCAL YEAR ENDING

ASS	ETS:	June 30, 2003	Prior June 30, 2002	Years June 30, 2001
1.	Short Term Assets			
	Cash in Banks	\$ 7,808,257	\$ 38,505,718	\$ 34,067,604
	Securities	434,080,034	470,234,146	470,686,508
2.	Bonds			
	Domestic Bonds	1,704,534,901	1,902,126,261	1,675,616,284
	Foreign Bonds	416,432,668	472,011,350	620,253,212
3.	Equities (at market)			
	Domestic	4,468,939,880	4,586,782,472	5,304,131,380
	International	1,033,655,198	1,075,238,305	1,349,446,396
	Private Equity	1,866,781,919	1,621,896,362	1,891,305,605
4.	Other Assets			
	Real Estate Trust	451,697,323	381,611,202	395,448,099
	Fixtures/Property	4,999,004	5,118,502	5,294,732
	Receivables-Payables	131,748,426	74,969,733	108,720,776
	TOTAL ASSETS			
	Market Value	10,520,677,610	10,628,494,051	11,854,970,596
	Valued at Cost	10,420,241,626	11,031,283,901	11,504,100,271

INVESTMENT YIELD:

Yield to Actuarial Value	-5.55%	-5.84%	.05%
Five Year Actuarial Value	3.59%	8.82%	12.82%
Yield to Market Value	2.16%	-8.08%	-4.73%
DROP Account Yield	0.00%	0.00%	0.00%

EXHIBIT 2 (Continued)

Financial Summary

FINANCIAL SUMMARY STATEMENT OF ASSETS FOR FISCAL YEAR ENDING

		Prior Years			
		June 30, 2003	June 30, 2002	June 30, 2001	
ACI	UARIAL VALUE OF ASSETS:				
	TOTAL ASSETS	\$10,520,677,610	\$10,628,494,052	\$11,854,970,596	
	Change in Unrealized (G/L)	+20,020,077,020	<i>4_0,0_0,19_1,00_</i>	<i>41170017700000000</i>	
	Plan Year - 2 (wt. 1/4)	-872,103,545	-333,222,966	-209,158,608	
	Plan Year - 1 (wt. 2/4)	-753,660,174	-872,103,545	-333,222,966	
	Plan Year (wt. 3/4)	503,225,833	-753,660,174	-872,103,545	
	Actuarial Value of Assets	10,738,114,209	11,713,096,697	12,727,949,390	
TOT	AGRICULTURE AND				
	TENSION SERVICE:				
<u> </u>	TENSION SERVICE:				
	Prior Year Ending Balance	-231,938	-240,630	-171,355	
+	Contributions	1,263,279	1,167,463	1,021,262	
-	Benefit Disbursements	-1,224,473	-1,172,578	-1,090,428	
+	Accumulated Interest	11,759	14,207	-109	
•	Fund Balance - Year End	-180,974	-231,938	-240,630	
	Fund Batanee Fear End	100,971	251,750	210,030	
TEX	ACO SETTLEMENT FUND:				
	Prior Year Ending Balance	273,488,200	290,453,230	290,299,875	
+	Current Year Allocation	-96,277,696	200,100,200	0	
+	Accumulated Interest	-15,179,066	-16,965,030	153,355	
•	Fund Balance - Year End	162,031,438	273,488,200	290,453,230	
	Fund Bufunce Feur Ind	102,031,130	273,100,200	290,199,290	
EXF	PERIENCE ACCOUNT FUND:				
	Prior Year Ending Balance	-306,224,579	666,053,912	1,591,362,518	
+	Experience Account Allocation	-799,095,192	-819,632,107	-449,264,458	
-	Benefit Disbursements	-306,971 ¹	$-113,742,963^{1}$	476,884,810	
+	Accumulated Interest	16,995,991	-38,903,421	840,662	
	Fund Balance - Year End	-1,088,630,751	-306,224,579	666,053,912	
DEV	ELOPMENT OF ACTUARIAL				
	VALUATION ASSETS :				
	Total Fund Assets (LESS)	10,738,114,209	11,713,096,697	12,727,949,390	
-	LSU Ag/Ext Service Account	-180,974	-231,938	-240,630	
-	Texaco Settlement Fund	162,031,438	273,488,200	290,453,230	
-	Experience Account Fund	-1,088,630,751	-306,224,579	666,053,912	
	Valuation Assets	11,664,894,495	11,746,064,614	11,771,682,878	
		, ,	, -,,	, , , , , , , , , , , , , , , , , , , ,	

¹Includes Act 1172 normal cost allocation of \$306,971 for 2003 and \$575,777 for 2002.

EXHIBIT 3

PENSION ACCOUNTING AND FINANCIAL DISCLOSURE

The Governmental Accounting Standards Board (GASB) was established as an arm of the Financial Accounting Foundation in April, 1984 by amendment to the Foundation's certificate of incorporation and by-laws. GASB's objective is to promulgate standards of financial accounting and reporting relative to the activities and transactions of state and local governmental entities. The following disclosures and statistical tables are in accordance with the GASB's Statement No. 25.

SCHEDULE OF FUNDING PROGRESS

(Dollar amounts in thousands)

Actuarial	Actuarial Value of	Actuarial Accrued	Unfunded AAL	Funded	Covered	UAAL as a Percentage of
Valuation	Assets	Liability(AAL)	(UAAL)*	Ratio	Payroll	Payroll
Date	(a)	(b)	(b-a)	(a/b)	(C)	((b-a)/c)
1994	5,699,645	9,928,474	4,228,829	57.4	2,198,137	192.4
1995	6,275,335	10,570,306	4,294,972	59.4	2,199,137	195.3
1996	7,055,144	11,232,762	4,177,618	62.8	2,254,304	185.3
1997	7,752,591	12,077,642	4,325,051	64.2	2,337,574	185.0
1998	9,071,749	13,185,190	4,113,442	68.8	2,485,058	165.5
1999	10,092,093	13,913,416	3,821,323	72.5	2,569,479	148.7
2000	11,368,692	14,596,441	3,227,749	77.9	2,563,634	125.9
2001	12,062,136	15,390,417	3,328,281	78.4	2,582,831	128.9
2002	12,019,552	16,263,239	4,243,687	73.9	2,777,667	152.8
2003	11,826,926	17,173,256	5,346,330	68.9	2,977,885	179.5

The total actuarial accrued liability determined using the Projected Unit Credit cost method increased by \$910,016,642 from June 30, 2002 to June 30, 2003. There was a net experience loss of \$963,552,515 after allocating \$799,095,192 of deficit investment income to the Experience Account in accordance with Act 1031.

*UAAL differs from the UFAL for funding purposes. UFAL for funding purposes excludes Texaco Settlement Fund Assets which appears on page 12.

EXHIBIT 3 (Continued) Pension Accounting & Financial Disclosure

SUPPLEMENTARY INFORMATION

SCHEDULE OF EMPLOYER CONTRIBUTIONS

	Actuarial		Annual		Percentage	Net
Fiscal	Required	Percent	Pension	Actual	of APC	Pension
Year	Contribution	Contributed	Cost (APC)	Contribution	Contributed	Obligation ¹
1994	382,680,775	96.2	379,142,236	368,199,874	97.1	25,928,706
1995	391,687,201	100.8	384,272,775	394,839,584	102.7	17,073,771
1996	401,039,317	98.4	394,419,635	394,501,448	100.0	18,397,236
1997	412,712,131	99.5	404,444,194	410,755,368	101.6	13,348,657
1998	458,498,592	101.7	453,058,482	466,539,858	102.9	-132,719
1999	452,835,560	108.5	449,891,479	491,119,749	109.2	-41,360,991
2000	437,710,389	107.5	444,575,883	470,320,825	105.8	-67,105,933
2001	404,060,783	110.2	416,196,824	445,371,171	107.0	-96,280,280
2002	421,195,131	104.9	443,053,905	441,801,709	99.7	-95,028,086
2003	479,077,364	98.0	506,747,733	469,346,469	92.6	-57,626,822

Analysis of the percentage contributed over a period of years will give a relative indication of the funding progress for the liabilities of the Teachers' Retirement System of Louisiana.

The difference between the Actuarial Required Contribution and the APC is the amortization payment for the Net pension Obligation (see Exhibit A).

DEVELOPMENT OF NET PENSION OBLIGATION:

(1)	Actuarially Required Contribution	479,077,364
(2)	Interest on Net Pension Obligation	-7,839,817
(3)	Amortization of Net Pension Obligation	-35,510,186
(4)	Annual Pension Cost (1)+(2)-(3)	506,747,733
(5)	Employer Contribution	469,346,469
(6)	Increase (decrease) in Net Pension Obligation	37,401,264
(7)	Net Pension Obligation Beginning of Year	-95,028,086
(8)	Net Pension Obligation End of year (6)+(7)	-57,626,822

¹Actuarial Contributions, the Annual Pension Cost (APC), and the actual employer contribution made have been adjusted with interest at the valuation rate to the end of the fiscal year in accordance with GASB's Statement No. 27, paragraph 21.

EXHIBIT 3 (Continued) Pension Accounting & Financial Disclosure

STATISTICAL DATA

COMPARATIVE SUMMARY OF REVENUES BY SOURCE AND EXPENSES BY TYPE

Revenues by Source

Fiscal	Members	Employer	Investment	
Year	Contribution	$\underline{Contribution}^1$	Income	Total
1994	174,424,707	471,863,714	420,353,613	1,066,642,034
1995	193,264,580	438,204,055	340,887,547	972,356,182
1996	182,144,749	424,296,148	766,079,071	1,372,519,968
1997	191,704,402	412,629,635	1,244,291,864	1,848,625,901
1998	208,275,106	449,771,623	1,603,472,505	2,261,519,234
1999	216,102,491	472,810,074	936,761,062	1,625,673,627
2000	224,684,434	452,965,401	1,525,771,416	2,203,421,251
2001	226,754,298	429,112,566	-594,326,474	61,540,390
2002	246,119,537	427,674,482	-946,882,960	-273,088,941
2003	251,297,406	451,337,304	226,342,205	928,976,915

Expenses by Type

Fiscal			Administrative	
Year	Benefits	Refunds	Expenses	Total
1994	473,574,445	41,825,075	10,732,502	526,132,022
1995	530,786,764	47,686,165	6,811,064	585,283,993
1996	597,840,991	18,780,044	7,344,398	623,965,433
1997	624,736,789	20,841,868	6,011,443	651,590,100
1998	664,147,264	21,360,841	6,705,255	692,213,360
1999	735,328,349	21,238,599	7,044,432	763,611,380
2000	791,183,546	22,458,244	7,733,662	821,375,456
2001	858,979,906	26,948,712	8,655,615	894,584,233
2002	920,593,341	23,432,297	9,361,965	953,387,603
2003	1,003,327,453	22,287,120	11,178,783	1,036,793,356

¹Includes Miscellaneous Contribution/Income in addition to direct employer contributions.

EXHIBIT 4

CENSUS DATA

GENERAL COMMENTS

The data contained in this valuation is summarized on the following pages with exceptions noted below. The profile depicted in the cellular graphs represents "error-free data," which serves as the basis for determining costs and liabilities. Active members are allocated to cells based upon attained age and years of service. Retirees and Survivors are allocated to cells based upon attained age and years elapsed since retirement or commencement of benefits.

The validity of the results of any actuarial valuation is dependent upon the accuracy of the data base. Prior to processing, suspicious data and data containing errors were purged from the data base and processed separately based on the following error types:

> -missing sex code -missing or invalid date of birth -missing or invalid date of employment -missing or invalid salary -invalid retirement dates

There were a total 250 records purged from the data base containing errors or categorized as suspicious data which is comparable to recent prior years. Suspicious data are not necessarily errors, but data which falls outside the parameters of the editing process for further checking.

This year the Terminated Vested status is overstated, containing a large number of Retirement and DROP applications awaiting final certification.

The following is a summary by plan of the data submitted for valuation:

	20	03	20	2002		
	Census	Avg.Sal.	Census	Avg.Sal.		
Active Members						
TRS - Regular Plan	75,412	\$32,306	76,163	\$32,040		
TRS - University Plan	6,917	49,305	4,855	50,214		
TRS - Plan A	688	18,758	817	17,545		
TRS - Plan B	1,941	13,516	2,001	13,196		
TRS - Post DROP	2,688	44,722	2,490	42,492		
Errors	n/a	<u>n/a</u>	1,030	51,291		
TOTAL	87,646	33,299	87,356	32,518		

EXHIBIT 4 (Continued) Census Data

	2003 Census	2002 Census
Retired and Inactive Members		
Regular Retirees	42,800	40,445
Disability Retirees	3,698	3,582
DROP Participants	2,722	5,103
Survivors	4,155	4,183
Vested and Reciprocals	5,720	624
Due Refunds	7,852	10,881
Errors	250	843
TOTAL	67,197	65,661
TOTAL Actives & Inactives	154,843	153,017

Salary data contained in the profiles and valuation report exceed the sums reported by internal audit due to salary annualization. In the valuation process, membership data with fractional service in the first year of employment annualizes the salary.

Actuarial Salaries	_	\$2,977,885,311
Actual Salaries for which contributions were received	_	\$3,153,480,482

Demographic Trends

The table on the following page illustrates the demographic changes by sex and age groups that the retirement system has experienced since June 30, 1979. A review of these changes is necessary to fully appreciate the changes in funding that the system is experiencing. Traditionally, benefit increases through plan amendments, large salary growth and cost of living increases were well recognized as cost contributors, but the potential cost impact resulting from these socio-economic changes can vary depending on the changing demographic structure of the plan as follows:

The retirement system continues to incur increased funding (although offset by experience gains) due to a decline in male teachers. The ratio of males to females has declined from .406 to .206 during the last twenty-four (24) years. Funding requirements for females is 1% of payroll greater than their male counterparts.

EXHIBIT 4 (Continued) Employee Census

DEMOGRAPHIC CHANGE

Active Participants

MALES

	<u>197</u>	9	200	2	200)3	24 Year %
Age Group	Number	%	Number	%	Number	%	Change
[20 - 29)	2,900	.15	1,849	.13	1,756	.12`	03
[30 - 39)	7,035	.35	3,283	.23	3,426	.24	11
[40 - 49)	5,719	.29	4,410	.30	4,047	.28	01
[50 - 59)	3,316	.17	4,069	.28	4,280	.29	+.12
[60 –)	739	.03	911	.06	1,020	.07	+.03
TOTAL	19,709	1.00	14,522	1.00	14,529	1.00	

FEMALES

	<u>1979</u>		200	2	200	<u>3</u>	24 Year %
Age Group	Number	%	Number	%	Number	%	Change
[20 - 29)	12,150	.25	9,085	.13	8,468	.12	13
[30 - 39)	17,302	.36	17,270	.25	17,121	.24	11
[40 - 49)	11,604	.24	24,865	.35	24,008	.34	+.10
[50 - 59)	6,446	.13	16,994	.24	18,384	.26	+.11
[60 –)	1,024	.02	2,130	.03	2,446	.04	+.02
TOTAL	48,526 1	L.00	70,344	1.00	70,427	1.00	

Distribution by Sex

	<u>1979</u>	2002	2003	% Change From <u>1979</u>
Males (%)	29%	17.1%	17.1%	-11.9%
Females (%)	71%	82.9%	82.9%	+11.9%
Ratio (M/F)	.406	.206	.206	

EXHIBIT 5

PRINCIPLE PROVISIONS OF THE PLAN (Including Acts of 2003 Regular Session)

EFFECTIVE DATE:

August 1, 1936; last amendment date - July, 2003.

EMPLOYER:

The State of Louisiana, the parish school board, the city school board, the State Board of Education, the State Board of Supervisors, University or any other agency of and within the State by which a teacher is paid.

ELIGIBILITY FOR PARTICIPATION:

Condition of employment for all teachers

CREDITABLE SERVICE:

Service as a teacher while member of the system.

ADDITIONAL SERVICE:

1. Credit for service canceled by withdrawal of accumulated contributions may be restored by member by paying the amount withdrawn plus interest.

2. Service rendered in public school system of another state may be purchased at the actuarial cost of the additional retirement benefit, or at the member's option receive service credit based on the funds actually transferred.

3. Credit for service in non-public or parochial schools may be purchased at the actuarial cost of the additional retirement benefit, or at the member's option receive service credit based on the funds actually transferred.

4. Maximum of 4 years of credit for military service may be obtained for each member, contingent on payment of Actuarial Cost.

5. Credit for legislative service of former teacher, now legislator, may be purchased at the actuarial cost.

6. <u>Conversion of Sick Leave to Membership Service</u>: At retirement, or at death before retirement of member with surviving spouse or dependent or both who are entitled to benefits, unused accumulated sick leave will be added to membership service; however, leave accumulated after January 30, 1990 can be converted to a maximum one year service credit, on following basis:

EARNABLE COMPENSATION:

The compensation earned by a member for qualifying service.

ACCUMULATED SICK DAYS							
CREDITED	PRIOR TO	AFTER	6/29/88 BY ME	MBER CLASSIFIC	CATION		
SERVICE	6/30/88	<u>9 MTH</u>	<u>10 MTH</u>	<u>11 MTH</u>	<u>12 MTH</u>		
.1/yr		10-18	11-20	12-22	13-24		
.2		19-36	21-40	23-44	25-48		
.25	25-45						
.3		37-54	41-60	45-66	49-72		
.4		55-72	61-80	67-88	73-96		
.5	46-90	73-90	81-100	89-110	97-120		
.6		91-108	101-120	111-132	121-144		
.7		109-126	121-140	133-154	145-168		
.75	91-135						
.8		127-144	141-160	155-176	169-192		
.9		145-162	161-180	177-198	193-216		
1.0	136-180	163-180	181-200	199-220	217-240		

AVERAGE FINAL COMPENSATION

The average annual earnable compensation is the 36 highest successive months of employment or the highest 36 successive joined months where interruption of service occurred; the average compensation for purposes of computing benefits cannot increase more than 25% per year; members with 40 or more years of service who elect to have employee and employer contributions discontinued, average final compensation is based is determined prior to discontinuance. Includes workmen's compensation, and PIP's program in accordance with the following:

	% of Earnings
Years of Participation	To be Included
3	60%
4	80%
5	100%

However, if member completed at least two years and subsequently becomes disabled, he shall receive 40% of such earnings. If he has completed one year and becomes disabled, he shall receive 20% of such earnings.

ACCUMULATED CONTRIBUTIONS:

Sum of all amounts deducted from compensation of members.

EMPLOYEE CONTRIBUTIONS:

7% of earnable compensation. Effective 7/1/89, 8% of earnable compensation.

EMPLOYER CONTRIBUTIONS:

Determined in accordance with Act 81 of the 1988 Session based on the Public Retirement Systems' Actuarial Committee's recommendation to the Legislature.

RETIREMENT BENEFIT: NORMAL RETIREMENT:

Eligibility:

Written application to Board, and

1. Age 60 and 5 years of accredited service, or 20 years of creditable teaching service if employed prior to January 1, 1999. Members employed on or after January 1, 1999 may retire with 20 years of creditable teaching service, actuarially reduced from Normal Eligibility requirements.

2. Age 55 and 25 years of creditable service, or at age 65 and 20 years of creditable service (excluding military service), or at 30 years of creditable service at any age. Conversion of unused sick and annual leave cannot be used to obtain retirement eligibility.

Benefit:

Annuity which shall be the actuarial equivalent of accumulated employee contributions at retirement date, and

1. Annual pension, which, together with annuity, provides total allowance equal to 2% of average final compensation times years of creditable service (including unused sick leave), plus \$300 annual supplemental benefit.

2. Annual pension, which, together with annuity, provides total allowance equal to 2 1/2% of average final compensation times years of creditable service (including unused sick leave), plus \$300 annual supplemental benefit.

NOTE:

- A. Benefit not to exceed 100% of average earnable compensation.
- B. Legislator's benefits to be calculated on basis of either Teacher's or Legislator's salary but not both - for new legislators (their option to choose); employee contribution to be 11% of either salary and expense allowance as legislator, not both.
- C. Retiree who returns to work shall have benefits suspended during the twelve month period following initial retirement.
- D. The \$300 annual supplemental benefit is discontinued to members who of the retirement system after 6/30/86 (Act 608 of 1986).
- E. For Members employed on or after July 1, 1999, the annual pension cannot exceed the maximum benefit provided under Section 415(b)(2)(F) of the Internal Revenue Service Code as adjusted for inflation and form of benefit other than life annuity or qualified joint and survivor annuity for retirement ages as follows:

AGE	MAXIMUM	AGE	MAXIMUM	AGE	MAXIMUM
48	\$39,506	56	\$82,846	64	\$160,000
49	43,191	57	91,239	65	160,000
50	47,254	58	100,608	66	171,675
51	51,738	59	111,090	67	184,412
52	56,693	60	122,845	68	198,323
53	62,176	61	136,061	69	213,536
54	68,254	62	160,000	70	230,195
55	75,313	63	160,000		

COST OF LIVING BENEFITS:

Act 1031 of 1992 establishes an Experience Account which is credited with 50% of the excess investment experience gain and debited with 50% of the net investment experience loss. Balances in the experience account accrue interest at the average actuarial yield for the System portfolio. Act 402 of 1999 establishes that once the balance of the experience account accumulates to a sum sufficient to grant retirees a COLA, the Board shall grant such COLA not to exceed the lesser of the CPI-U or 2%. Benefits are restricted to those retirees who have attained the age of 55 and have been retired for at least one year.

Act 1172 of 2001 modified Act 409 of 1999 and added minimum benefits. The COLA is now limited to the first \$70,000 of benefits. The age 55 restriction was removed for disability retirees. The 2% benefit can be increased to 3% if the investment return exceeds 8.25%.

Effective December 1, 2001, members with 25 years of service credit and retired 15 years receive \$200 per month, not to exceed a gross benefit of \$1000.

Effective March 1, 2002, minimum benefit payable to surviving spouse increases from \$300 to \$600 per month, and minimum benefits payable to surviving minor children increases from \$150 to \$300 per month.

DISABILITY RETIREMENT:

Eligibility:

5 years of creditable service; certification of disability by medical board (medical examination required once in every year for the first 5 years of disability retirement, and once in every 3 years thereafter, until age 60)

Benefit: Act 572 of 1995

- 1. If ineligible for service retirement at disability, a pension equal to 2 1/2% of average compensation multiplied by years of service. Benefit shall not be more than 50% of average compensation. However, in no event shall the benefit be less than the lesser of 40% of the state minimum salary for a beginning teacher with a bachelor's degree or 75% of average compensation.
- 2. Additional 50% of member's benefit payable if minor child is present, but total amount to family limited to 75% of final average compensation.

- 3. Upon attainment of the earliest age for retirement eligibility had member continued in service without further change in compensation, member shall become a regular retiree with benefits based on years of creditable service but not less than the disability benefit. Minor children benefit for disaability continue for as long as the retiree has a minor child.
- 4. Upon death of a disability retiree, surviving spouse, married to retiree at least two years prior to death of the disability retiree, shall receive 75% of disability benefit. Upon death of an unmarried retiree with minor children, the benefit shall equal 50% of disability benefit.
- 5. Upon recovery of disability as determined by the board of trustees, upon advice of the medical board, and returns to active membership for at least three years starting no later than one year after recovery, then he shall be credited with one year of service for each year disabled for purposes of establishing benefit eligibility, but not for computation of benefits.

SURVIVOR'S BENEFITS: (Effective July 13, 1978)

Eligibility:

- Surviving Spouse (with minor children) of:
 -an active member with 5 years of creditable service with at least 2 years
 earned immediately prior to death; or,
 -a member with 20 years of creditable service regardless of when earned or
 whether in active service at time of death.
- 2. Surviving Spouse (without minor children) of: -an active member with 10 years of creditable service with at least 2

years

earned immediately prior to death; or, -a member with 20 years of creditable service regardless of when earned or whether in active service at time of death.

3. Beneficiary not eligible for 1 or 2.

Benefits:

- 1. Greater of:
 - A.) \$600 per month, or
 - B.) 50% of benefit, based on 2 1/2% formula, that would have been payable upon service retirement at age 60 had member continued in service to age 60 without change in compensation. 50% of spouse's benefit payable for each minor child (not greater than two), with total benefit to family at least equal to the Option 2, Accrued Benefit based on actual service credit. Benefits to spouse cease upon remarriage, but resume upon subsequent divorce or death of new spouse; however, if the member was eligible to retire or had reached age 55 on the date of his death, benefits shall not cease

upon remarriage. When minor children are no longer present, spouse's benefit reverts to benefit in B, for eligible spouse.

- 2. Greater of:
 - A.) \$600 per month
 - B.) Option 2 equivalent of Accrued Benefit based on actual service and the 2 1/2% formula. Spouse's benefit payable for life. Benefits to spouse cease upon remarriage, but resume upon subsequent divorce or death of new spouse; however, if the member was eligible to retire on the date of his death, benefits shall not cease upon remarriage.
- 3. Return of member's accumulated contributions.

REFUND OF CONTRIBUTIONS:

Death prior to retirement - accumulated contributions credited to individual account in annuity savings fund are returnable to designated beneficiary, if any; otherwise, to his estate.

WITHDRAWAL AFTER 10 YEARS OF CREDITABLE SERVICE:

Any member with credit for 5 years of service who withdraws from service may elect to leave accumulated contributions in system until age 60, when he may apply for retirement and begin receiving a retirement benefit based on the credits he had at date of withdrawal.

OPTIONAL FORMS OF BENEFIT:

In lieu of receiving normal retirement benefit, member may elect to receive actuarial equivalent of retirement allowance in a reduced form as follows:

 $\underline{Option \ l}$ - If a member dies before receiving present value of annuity in monthly payments, balance paid to designated beneficiary.

<u>Option 2</u> - Reduced retirement allowance, if member dies, to be continued to designated beneficiary for his lifetime.

<u>Option 3</u> - 1/2 of reduced retirement allowance, if member dies, to be continued to designated beneficiary for his lifetime.

<u>Option 4</u> - Other benefits of equal actuarial value may be elected with approval of board.

Options 2A, 3A, 4A - Same as Options 2, 3, and 4, except that reduced benefit reverts back to maximum if beneficiary predeceases retiree.

<u>Initial Lump Sum Benefit Option</u> - Members eligible but did not participate in DROP may elect an actuarially reduced pension and receive a lump-sum equal to not more than 36 months of the maximum monthly pension.

DEFERRED RETIREMENT OPTION PLAN:

Instead of terminating employees and accepting a service retirement allowance, any member who has met the normal eligibility requirements may to participate in the Deferred Retirement Option Plan (DROP) and defer receipt of benefits.

NORMAL ELIGIBILITY:

Any member who is eligible to receive a 2.5% service retirement allowance may begin participation on the first retirement eligibility date for a period not to exceed the 3rd anniversary of retirement eligibility.

BENEFIT:

Upon termination of employment, a participant will receive, at his option:

- (1) lump sum payment (equal to the payments to the account);
- (2) a true annuity based upon his account; or
- (3) Other methods of payment approved by the board of trustees.

If a participant dies during the period of participation in the program, his account balance shall be paid to the beneficiary, or if none, to his estate in In any form approved by the Board of Trustees.

If employment is not terminated at the end of DROP participation, then:

- (1) payment into account shall cease;
- (2) payment from account only upon termination of employment; and
- (3) the participant shall resume active contributing membership.

Then, upon termination of employment, the benefit payments indicated above shall be paid. The participant shall receive an additional retirement benefit based on additional service rendered since termination of participation in the fund, usually the normal method of computation of benefit subject to the following:

- If additional service was less than 36 months, average compensation figure used to calculate initial benefit shall be that used.
- (2) If additional service was 36 or more months, the average compensation figure used to calculate the additional benefit shall be based on compensation during the period of additional service.

DROP Accounts shall earn interest following termination of DROP at a rate .5% below the actuarial rate of the System's investment portfolio.

Effective 1/1/2004 new DROP accounts are credited with Money Market rates or self directed accounts approved by the Board of Trustees.

DESCRIPTION OF BENEFITS FOR MERGED LSU EMPLOYEES

GENERAL:

Eligibility for benefits based on the eligibility requirements of the Teachers' plan, except for deaths and disabilities before 1984. All service, funded and nonfunded, used in determining eligibility.

Final Average Salary was the average of the three highest years, except for academic year employees who retired within three years after 1/1/79. For this group, any salary used in the Final Average Salary calculation which was earned before 1/1/79 was increased by 2/9ths.

The Social Security breakpoint average, for service under the funded LSU plan, was frozen at the 12/31/78 level. That is, the breakpoint average for funded service was calculated as of 12/31/78 and kept constant. This produced the following breakpoint averages:

Social Security Breakpoint Average (for LSU funded service)

Calendar Year of Entry	Breakpoint Average
1971 or before	\$13,400
1972	\$13,800
1973	\$14,600
1974	\$15,360
1975	\$15,900
1976	\$16,500
1977	\$17,100
1978	\$17,700

Retirement Benefits:

Retirement benefits calculated using LSU funded service with the LSU formula and service after 12/31/78 with the Teacher's formula. Thus, the "funded" benefit is 1) 1 1/3% of Final Average Salary under the Social Security breakpoint average plus 2 1/2% of Final Average Salary over the Social Security breakpoint average, times years of "funded" service with LSU before 12/31/78, plus 2) 2 1/2% (or 2% if total service less than 20 years) times Final Average Salary times years since 1/1/79, plus \$300.

Survivor's Benefits

For deaths after 1983, the provisions of the Teachers' plan apply. However, the benefit is calculated using all service, funded and nonfunded, then prorated by service between the funded and nonfunded portions. Children's benefits are also prorated into the funded and nonfunded portions.

Exhibit 5 (Continued) Principle Provisions

Disability Benefits

For disabilities after 1983, the provisions of the Teachers' plan apply. However, the benefit is calculated using all service, then prorating by service between the funded and nonfunded portions. Children's benefits are also prorated.

Vesting Benefits

Benefits for terminating vested members was determined as outlined under "Retirement Benefits."

Refund of Contributions

Terminating members allowed a refund of accumulated contributions as described by the Teachers' plan.

Cooperative Extension personnel

The LSU employees eligible for the supplemental benefit described in Section 700.2 of Act 643 of 1978. The benefit is equal to 1% for the first five years of service, 3/4% for the next five years, and 1/2% thereafter. The funded benefit is the benefit based on service after September 12, 1975.

Optional Forms of Benefits:

Retiring members may elect options as described by the Teachers' plan.

Deferred Retirement Option Plan:

Eligible members may participate under same requirements as described by the Teachers' plan.

DESCRIPTION OF BENEFITS FOR MERGED SCHOOL LUNCH EMPLOYEES

EFFECTIVE DATE:

January 1, 1953; Revised July 1, 1980.
1. Effective July 1, 1980, all employees shall become members of this system
and shall be placed in the applicable plan as outlined below:
 A.) Those participating in both the regular and the supplemental plan or
only in the supplemental plan shall become members of Plan A.
 B.) Those participating only in the regular plan shall become members of
Plan B.

2. All individuals who become employed after July 1, 1980, shall become members of Plan A or Plan B as determined by the agreement in effect for each employer.

CREDITABLE SERVICE:

Service as an employee while member of the system.

MILITARY SERVICE:

Maximum of 4 years of credit may be purchased.

ADDITIONAL CREDITABLE

SERVICE:

Credit for service canceled by withdrawal of accumulated contributions may be restored by paying into system the amount withdrawn plus regular interest.

EMPLOYEE CONTRIBUTIONS:

Plan A: 9.10% of monthly earnings

Plan B: 5% of monthly earnings

EMPLOYER CONTRIBUTIONS:

Plan A: Actuarial Required Amount (Effective 7/1/89)

Plan B: Actuarial Required Amount (Effective 7/1/89)

SCHOOL LUNCH PLAN A

RETIREMENT BENEFIT:

NORMAL RETIREMENT:

Eligibility:

- 1. Age 60 and 5 years of creditable service.
- 2. Age 55 and 25 years of creditable service.
- 3. 30 years of creditable service, regardless of age.

Benefit:

3% of average final compensation times years of creditable service. For Members of only the supplemental plan prior to 7/1/80 and (*). Those Members who were age 60 or older at the time the Member's Employer terminated its agreement with the Department of Health, Education and Welfare, and who became a Member of the retirement system because of this termination: 1% of average final compensation plus two dollars per month for each year of service credited prior to 7/1/80, plus 3% of average final compensation for each year of service credited after 7/1/80.

*These members shall be eligible to retire upon reaching age 70, with less than 10 years of creditable service.

NOTE:

Benefit not to exceed 100% of average final compensation.

DISABILITY RETIREMENT:

Eligibility:

5 years of creditable service; certification of disability by the State Medical Disability Board.

Benefit:

Normal retirement allowance if eligible; otherwise, an amount equal to the normal retirement allowance to which the member would have been entitled had he met eligibility requirements; provided the amount is not less than 60%, nor more than 100% of average final compensation, in the event no optional selection is made.

SURVIVOR'S BENEFITS:

Eligibility:

1. Surviving spouse of member with 5 or more years of service credit with at least 2 years earned immediately prior to death, or 20 years of service credit regardless of when earned or whether the deceased member was in active service at the time of death, with minor children.

2. Surviving spouse of member with 10 or more years of service credit with at least 2 years earned immediately prior to death, or 20 years of service credit regardless of when earned or whether the deceased member was in active service at the time of death, without minor children.

3. Beneficiary not eligible for 1 or 2.

Benefit:

- 1. Greater of:
 - A. \$600 per month, or

B. 50% of benefit, based on 3% factor, that would have been payable upon retirement at age 60 had member continued in service to age 60 without change in compensation. 50% of spouse's benefit payable for each minor child (maximum two children), with total benefit to family at least equal to the Option 2 benefit. Accrued Benefit based on actual service credit. Benefits to spouse cease upon remarriage, but resume upon subsequent death or divorce. When minor children are not longer present, spouse's benefit reverts to benefit in B, if spouse is eligible for such benefit.

- 2. Greater of:
 - A. \$600 per month, or

B. Option 2 equivalent of Accrued Benefit based on actual service and the 3% factor. Surviving spouse must have been married to the deceased member at least one year prior to death. If the member had not been eligible for retirement upon date of death, benefits to spouse cease upon remarriage, but resume upon subsequent death or divorce of new spouse.

3. Return of member's accumulated contributions.

SCHOOL LUNCH PLAN B

RETIREMENT BENEFIT:

NORMAL RETIREMENT:

Eligibility:

- 1. Age 60 and 10 years of creditable service.
- 2. Age 55 and 30 years of creditable service.

Benefit:

Annual pension which provides total allowance equal to 2% of average final compensation times years of creditable service. (Maximum \$70 per month for each year of creditable service).

NOTE:

Benefit reduced by 3% for each year under age 62, unless member has 25 years of creditable service.

DISABILITY RETIREMENT:

Eligibility:

5 years of creditable service; certification of disability by the State Medical Disability Board.

Benefit:

Normal retirement allowance if eligible therefor; otherwise 2% of average final compensation times years of creditable service; provided amount not less than 30%, nor more than 75% of average final compensation, in the event no optional selection is made.

SURVIVOR'S BENEFITS:

Eligibility:

20 or more years of creditable service.

Benefit:

Option 2 benefit.

OPTIONAL FORMS OF BENEFIT:

A member may elect to receive his benefit in a retirement allowance payable throughout his life, or member may elect to receive actuarial equivalent of retirement allowance in a reduced form as follows:

<u>Option 1</u> - If a member dies before receiving present value of annuity in monthly payments, balance paid to designated beneficiary.

<u>Option 2</u> - Reduced retirement allowance, if member dies, to be continued to designated beneficiary for his lifetime.

<u>Option 3</u> - 1/2 of reduced retirement allowance, if member dies, to be continued to designated beneficiary for his lifetime.

<u>Option 4</u> - Other benefits of equal actuarial value may be elected with approval of board.

<u>Initial Benefit Option</u> - Maximum benefit actuarially reduced for partial lump-sum equal to not more than 36 months of the maximum pension.

Options 2-4 are available in an "a" version which provides the same survivor benefit at the dead of the retiree, but reverts to the maximum benefit if the survivor predeceases the retiree.

RETURN OF CONTRIBUTIONS:

Should a member not eligible to retire cease to be an employee, he shall be paid the amount of his accumulated contributions upon demand. Death prior to retirement with no survivors eligible for benefits - accumulated contributions are returnable to designated beneficiary, if any; otherwise, to his estate.

WITHDRAWAL AFTER 10 YEARS OF CREDITABLE SERVICE:

Any member with credit for 5 years of service who withdraws from service may elect to leave accumulated contributions in system until his earliest normal retirement date, when he may apply for retirement and begin receiving a retirement benefit based on average final compensation and creditable service at date of withdrawal.

Deferred Retirement Option Plan:

Retiring members may elect options as described by the Teachers' plan.

NOTES

EXHIBIT 6

ACTUARIAL COST METHODS AND ASSUMPTIONS

COST METHOD:

The "Projected Unit Credit" cost method was used to calculate the funding requirements of the retirement system. Under this cost method, the actuarial present value of projected benefits of each individual included in the valuation is accumulated from the participant's attained age to the anticipated retirement date(s). That portion of the actuarial present value attributable to the current year's projected benefit accruals is called the Normal Cost. The actuarial present value of future projected benefits in proportion to service accrued on the date of valuation is called the actuarial accrued liability.

ASSET VALUATION:

Prior to June 30, 1997 the actuarial value of assets was the sum of the bonds at amortized cost, plus a weighted average of average unrealized loss (or gain) in the market value of equities.

For the Plan Year Ending June 30, 1997 and thereafter, the computation of the Actuarial Value of Assets is the market value of assets adjusted for a four year weighted average of the unrealized gain or loss in the value of all assets. This value is determined in accordance with Reg. 1.412(c)(2)-1-(6) & (7) of the Internal Revenue Service Code and is subject to the Corridor Limits defined therein.

ACCOUNTING DISCLOSURE:

The Governmental Accounting Standards Board Statement No. 25 requires the disclosure of "Credited Projected Benefits" for Public Employee Retirement Systems. The disclosures illustrated in Exhibit 3 were developed using the Projected Unit Credit cost method. The statement of assets provided by the audit staff was the final draft prior to publication. Should the statement of assets received differ from the final audit report, a revised actuarial statement will be issued, but only to the extent that any difference in reporting affects the employer's contribution rate or the yield to the Actuarial Value of Assets.

ACTUARIAL ASSUMPTIONS:

The Retirement System is required to conduct an experience study every five years, but the scope of such a study is not necessarily limited to a five year period. The current five year observation period (1997-2001) was chosen to coincide with the most recent period of data reporting following the restructuring of the Deferred Retirement Option Program. The rates are projected separately for Teachers, School Lunch Plan and Plan B, and University personnel. The current and prior rate tables are illustrated at the end of this exhibit. EXHIBIT 6 (Continued) Cost Methods & Assumptions

MORTALITY ASSUMPTIONS:

Pre-retirement deaths and post-retirement life expectancies were projected in accordance with the experience of the 1983 Sex Distinct Graduated Group Annuity Mortality Table, with female ages set at attained age plus one.

DISABILITY ASSUMPTION:

Rates for total and permanent disability were projected by age in accordance with the most recent Experience Study. The rates are based upon attained age at occurrence. For mortality after disability, rates were on the Eleventh Actuarial Valuation of the Railroad Retirement System for permanent disabilities.

RETIREMENT/DROP ASSUMPTION:

Retirement rates are based on age and service eligibility requirements for normal benefits. Age and service requirements vary by plan. DROP is viewed as an alternative form of benefit accrual since mandatory terminate is not required following participation. Therefore, at eligibility, the probability of DROP accrual is determine in conjunction with regular benefit accrual. Retirement rates and DROP probabilities are based on the most recent Experience Study.

TERMINATION ASSUMPTIONS:

Voluntary termination or withdrawal rates are based on the most recent Experience Study. During the first five years of employment, the probability of voluntarily terminating is a multiple of the attained age rate in prior reports and a multiple of employment duration in the current valuation as follows:

		PRIOR	NEW
		MULTIPLES	MULTIPLES
1st	year	2.50x	1.00x(1.25x Teachers only)
2nd	year	1.00x	1.00x
3rd	year	1.00x	1.00x
4th	year	1.00x	1.00x
5th	year	1.00x	1.00x

Furthermore, for members terminating with ten (10) or more years of service, it is assumed that 80% will not withdraw their accumulated employee contributions.

SALARY GROWTH:

The rates of annual salary growth are base upon the members years of service and are illustrated in the rate tables at the end of this exhibit.

EXHIBIT 6 (Continued) Cost Methods & Assumptions

FAMILY STATISTICS:

The composition of the Family was based on Age-Specific Fertility Rates from the 1983 Vital Statistics of the United States. 80% of the membership was assumed to be married with the wife assumed to be three (3) years younger than the husband. Sample rates are as follows:

Age at	Number of	Years for Youngest
Death	Minor Chn.	Child to Attain Majority
05	1 0	1 1
25	1.3	17
30	1.8	15
35	2.2	13
40	2.1	10
45	1.7	8
50	1.2	4

REMARRIAGE:

Annuities payable to the spouse which cease upon death or remarriage were taken from "A Technical Note for the Construction of Widow's Annuities." The Remarriage and Mortality rates used to develop these annuities were based on the graduated rates from "Mortality and Remarriage Experience for Widow's Beneficiaries under OASDI."

ASSUMPTION FOR INCOMPLETE DATA:

Records identified as containing suspicious data or errors in data were assumed to possess the same characteristics of "good data" in the same cohort.

INVESTMENT EARNINGS:

An effective annual rate of 8 1/4%, net expenses for professional asset management advisors.

ADMINISTRATIVE EXPENSES:

Expenses are included in Aggregate Normal Cost and are assumed to be \$10,800,000 per year. Investment Expenses for professional asset management advisors are not included in Normal Cost but are treated as a direct offset to investment income. The Employer portion of Normal Cost excludes an allocation for Administrative expenses.

ACTUARIAL TABLES AND RATES (TEACHERS ASSUMPTIONS) OLD RATES PRIOR TO 6/30/2003

		Rates -	Remarriage	Disability	Retirement		Termination	Salary
Age	Male	Female	Rates	Rates	Rates	Dur	Rates	Scale
20	.00042	.00022	.09350	.00000	.00000	1	.09916	1.08950
20						1		
21	.00044	.00024	.09152	.00000	.00000	2	.16647	1.07650
22	.00045	.00025	.08954	.00000	.00000	3	.11967	1.07550
23	.00047	.00027	.08757	.00000	.00000	4	.09398	1.07450
24	.00049	.00028	.08569	.00000	.00000	5	.07619	1.07350
25	.00052	.00030	.08402	.00000	.00000	6	.05979	1.07250
26	.00054	.00032	.08225	.00000	.00000	7	.05030	1.07250
27	.00057	.00034	.08028	.00000	.00000	8	.04057	1.07250
28	.00060	.00036	.07802	.00000	.00000	9	.03285	1.07250
29	.00064	.00038	.07556	.00000	.00000	10	.03000	1.07250
30	.00067	.00040	.07281	.00030	.00000	11	.02372	1.06750
31	.00072	.00043	.06976	.00060	.00000	12	.01918	1.06250
32	.00076	.00046	.06652	.00080	.00000	13	.01677	1.06250
33	.00082	.00049	.06308	.00160	.00000	14	.01425	1.05750
34	.00087	.00053	.05945	.00080	.00000	15	.01312	1.05750
	.00096							
35		.00056	.05582	.00100	.00000	16	.00975	1.05750
36	.00101	.00060	.05230	.00130	.00000	17	.00619	1.05750
37	.00107	.00064	.04890	.00140	.00000	18	.00611	1.05750
38	.00115	.00069	.04570	.00130	.00000	19	.00745	1.05750
39	.00125	.00074	.04271	.00110	.00000	20	.00557	1.05750
40	.00138	.00080	.03993	.00190	.07000	21	.00528	1.05750
41	.00152	.00086	.03769	.00190	.14000	22	.00485	1.05750
42	.00170	.00094	.03480	.00220	.08000	23	.00396	1.05750
43	.00191	.00102	.03256	.00230	.05000	24	.00534	1.05750
44	.00215	.00112	.03037	.00270	.05000	25	.00495	1.05750
45	.00243	.00124	.02822	.00250	.04000	26	.00572	1.05750
46	.00275	.00137	.02632	.00270	.03000	27	.00454	1.05750
47	.00310	.00152	.02455	.00370	.03000	28	.00814	1.05750
48	.00349	.00152	.02303	.00360	.03000	29	.00897	1.06250
49	.00390	.00183	.02154	.00520	.03000	30	.01043	1.06250
50	.00434	.00103	.02019	.00420	.05000	31	.01528	1.06250
51	.00480	.00217	.01889	.00490	.08000	32	.01723	1.06250
52	.00528	.00236	.01808	.00590	.09000	33	.01074	1.05750
53	.00578	.00257	.01733	.00380	.09000	34	.01477	1.05750
54	.00629	.00282	.01671	.00560	.17000	35	.01703	1.05750
55	.00681	.00311	.01622	.00460	.15000	36	.03156	1.05750
56	.00735	.00345	.01596	.00520	.14000	37	.01593	1.05750
57	.00793	.00383	.01584	.00630	.16000	38	.01305	1.05750
58	.00858	.00425	.01589	.00500	.15000	39	.01716	1.06250
59	.00932	.00471	.01622	.00700	.20000	40	.00769	1.06750
60	.01018	.00523	.01682	.00810	.14000	41	.00951	1.06250
61	.01118	.00579	.01764	.01100	.17000	42	.01267	1.06250
62	.01237	.00641	.01906	.00990	.18000	43	.01500	1.06750
63	.01377	.00710	.02061	.00840	.20000	44	.02690	1.06750
64	.01541	.00785	.02239	.00750	.32000	45	.05210	1.07750
65	.01732	.00869	.02446	.01000	.23000	45 46	.03194	1.07250
66	.01752	.00865	.02440	.00770	.23000	40 47	.02193	1.07250
67	.02200	.01078	.02952	.01060	.26000	48	.05000	1.06450
68	.02470	.01214	.03209	.00990	.29000	49	.07825	1.05750
69	.02757	.01376	.03504	.00690	.52000	50	.00000	1.05750
70	.03059	.01570	.03851	.00000	.99000	51	.00000	1.00000
71	.03373	.01796	.04211	.00000	.99000	52	.00000	1.00000
72	.03708	.02053	.04563	.00000	.99000	53	.00000	1.00000
73	.04076	.02344	.04909	.00000	.99000	54	.00000	1.00000
74	.04488	.02666	.05262	.00000	.99000	55	.00000	1.00000

ACTUARIAL TABLES AND RATES (TEACHERS ASSUMPTIONS - HIRED AFTER 6/30/99) OLD RATES PRIOR TO 6/30/2003

	- Death	Rates -	Remarriage	Disability	Retirement		Termination	Salary
Age	Male	Female	Rates	Rates	Rates	Dur	Rates	Scale
			00050			-	00016	1 00050
20	.00042	.00022	.09350	.00000	.00000	1	.09916	1.08950
21	.00044	.00024	.09152	.00000	.00000	2	.16647	1.07650
22	.00045	.00025	.08954	.00000	.00000	3	.11967	1.07550
23	.00047	.00027	.08757	.00000	.00000	4	.09398	1.07450
24	.00049	.00028	.08569	.00000	.00000	5	.07619	1.07350
25	.00052	.00030	.08402	.00000	.00000	6	.05979	1.07250
26	.00054	.00032	.08225	.00000	.00000	7	.05030	1.07250
27	.00057	.00034	.08028	.00000	.00000	8	.04057	1.07250
28	.00060	.00036	.07802	.00000	.00000	9	.03285	1.07250
29	.00064	.00038	.07556	.00000	.00000	10	.03000	1.07250
30	.00067	.00040	.07281	.00030	.00000	11	.02372	1.06750
31	.00072	.00043	.06976	.00060	.00000	12	.01918	1.06250
32	.00076	.00046	.06652	.00080	.00000	13	.01677	1.06250
33	.00082	.00049	.06308	.00160	.00000	14	.01425	1.05750
34	.00087	.00053	.05945	.00080	.00000	15	.01312	1.05750
35	.00096	.00056	.05582	.00100	.00000	16	.00975	1.05750
36	.00101	.00060	.05230	.00130	.00000	17	.00619	1.05750
37	.00107	.00064	.04890	.00140	.00000	18	.00611	1.05750
38	.00115	.00069	.04570	.00130	.00000	19	.00745	1.05750
39	.00125	.00074	.04271	.00110	.00000	20	.00557	1.05750
40	.00138	.00080	.03993	.00190	.00000	21	.00528	1.05750
41	.00152	.00086	.03769	.00190	.00000	22	.00485	1.05750
42	.00170	.00094	.03480	.00220	.00000	23	.00396	1.05750
43	.00191	.00102	.03256	.00230	.00000	24	.00534	1.05750
44	.00215	.00112	.03037	.00270	.00000	25	.00495	1.05750
45	.00243	.00124	.02822	.00250	.00000	26	.00572	1.05750
46	.00275	.00137	.02632	.00270	.00000	27	.00454	1.05750
47	.00310	.00152	.02455	.00370	.00000	28	.00814	1.05750
48	.00349	.00167	.02303	.00360	.00000	29	.00897	1.06250
49	.00390	.00183	.02154	.00520	.00000	30	.01043	1.06250
50	.00434	.00199	.02019	.00420	.20000	31	.01528	1.06250
51	.00480	.00217	.01889	.00490	.22000	32	.01723	1.06250
52	.00528	.00236	.01808	.00590	.15000	33	.01074	1.05750
53	.00578	.00257	.01733	.00380	.15000	34	.01477	1.05750
54	.00629	.00282	.01671	.00560	.22000	35	.01703	1.05750
55	.00681	.00311	.01622	.00460	.30000	36	.03156	1.05750
56	.00735	.00345	.01596	.00520	.14000	37	.01593	1.05750
57	.00793	.00383	.01584	.00630	.16000	38	.01305	1.05750
58	.00858	.00425	.01589	.00500	.15000	39	.01716	1.06250
59	.00932	.00471	.01622	.00700	.20000	40	.00769	1.06750
60	.01018	.00523	.01682	.00810	.14000	41	.00951	1.06250
61	.01118	.00579	.01764	.01100	.17000	42	.01267	1.06250
62	.01237	.00641	.01906	.00990	.18000	43	.01500	1.06750
63	.01377	.00710	.02061	.00840	.20000	44	.02690	1.06750
64	.01541	.00785	.02239	.00750	.32000	45	.05210	1.07750
65	.01732	.00869	.02446	.01000	.23000	46	.03194	1.07250
66	.01953	.00965	.02684	.00770	.23000	47	.02193	1.07250
67	.02200	.01078	.02952	.01060	.26000	48	.05000	1.06450
68	.02470	.01214	.03209	.00990	.29000	49	.07825	1.05750
69	.02757	.01376	.03504	.00690	.52000	50	.00000	1.05750
70	.03059	.01570	.03851	.00000	.99000	51	.00000	1.00000
71	.03373	.01796	.04211	.00000	.99000	52	.00000	1.00000
72	.03708	.02053	.04563	.00000	.99000	53	.00000	1.00000
73	.04076	.02344	.04909	.00000	.99000	54	.00000	1.00000
74	.04488	.02666	.05262	.00000	.99000	55	.00000	1.00000

ACTUARIAL TABLES AND RATES (PLAN A ASSUMPTIONS) OLD RATES PRIOR TO 6/30/2003

		Rates -	Remarriage	Disability	Retirement		Termination	Salary
Age	Male	Female	Rates	Rates	Rates	Dur	Rates	Scale
2.0	00040	00000	00250	00000	00000	1	07070	1 00250
20	.00042	.00022	.09350	.00000	.00000	1	.07072	1.09350
21	.00044	.00024	.09152	.00000	.00000	2	.10841	1.08150
22	.00045	.00025	.08954	.00000	.00000	3	.08830	1.07750
23	.00047	.00027	.08757	.00000	.00000	4	.07485	1.07450
24	.00049	.00028	.08569	.00000	.00000	5	.06382	1.06450
25	.00052	.00030	.08402	.00020	.00000	б	.05370	1.06250
26	.00054	.00032	.08225	.00020	.00000	7	.04875	1.06250
27	.00057	.00034	.08028	.00020	.00000	8	.04565	1.06250
28	.00060	.00036	.07802	.00020	.00000	9	.03343	1.06250
29	.00064	.00038	.07556	.00020	.00000	10	.03470	1.06250
30	.00067	.00040	.07281	.00600	.00000	11	.02928	1.06250
31	.00072	.00043	.06976	.00600	.00000	12	.02710	1.06250
32	.00076	.00046	.06652	.00580	.00000	13	.03288	1.06250
33	.00082	.00049	.06308	.00500	.00000	14	.03704	1.06750
34	.00087	.00053	.05945	.00440	.00000	15	.02647	1.07750
35	.00096	.00056	.05582	.00390	.00000	16	.02328	1.05750
36	.00101	.00060	.05230	.00400	.00000	17	.02254	1.05750
37	.00107	.00064	.04890	.00400	.00000	18	.01907	1.07250
38	.00115	.00069	.04570	.00520	.00000	19	.02952	1.06250
39	.00125	.00074	.04271	.00230	.00000	20	.03818	1.06250
40	.00138	.00080	.03993	.00640	.00000	21	.04537	1.06250
40	.00152	.00086	.03769	.00770	.00000	22	.01263	1.07250
42	.00152	.00094	.03480	.01080	.00000	23	.07811	1.07250
43	.00191	.00102	.03256	.00330	.00000	24	.06000	1.07250
43	.00191	.00102	.03037	.01270	.00000	24	.05118	1.07250
44	.00213	.00112	.02822	.01340	.00000	26	.04000	1.07250
46	.00275	.00137	.02632	.00700	.00000	27	.02738	1.07750
47	.00310	.00152	.02455	.00790	.00000	28	.03729	1.07750
48	.00349	.00167	.02303	.00750	.00000	29	.03366	1.06750
49	.00390	.00183	.02154	.01190	.00000	30	.03000	1.04750
50	.00434	.00199	.02019	.03020	.36000	31	.01000	1.04750
51	.00480	.00217	.01889	.01070	.17000	32	.00000	1.07750
52	.00528	.00236	.01808	.01070	.44000	33	.00000	1.06750
53	.00578	.00257	.01733	.01720	.10000	34	.00000	1.05250
54	.00629	.00282	.01671	.01240	.20000	35	.00000	1.05250
55	.00681	.00311	.01622	.02200	.38000	36	.00000	1.05250
56	.00735	.00345	.01596	.01660	.23000	37	.00000	1.05250
57	.00793	.00383	.01584	.02050	.27000	38	.00000	1.04750
58	.00858	.00425	.01589	.02870	.30000	39	.00000	1.04750
59	.00932	.00471	.01622	.01900	.44000	40	.00000	1.04750
60	.01018	.00523	.01682	.01300	.36000	41	.00000	1.04750
61	.01118	.00579	.01764	.02770	.25000	42	.00000	1.04750
62	.01237	.00641	.01906	.02460	.34000	43	.00000	1.04750
63	.01377	.00710	.02061	.01760	.21000	44	.00000	1.04750
64	.01541	.00785	.02239	.01530	.30000	45	.00000	1.04750
65	.01732	.00869	.02446	.03680	.42000	46	.00000	1.04750
66	.01953	.00965	.02684	.02480	.27000	47	.00000	1.04750
67	.02200	.01078	.02952	.01230	.23000	48	.00000	1.04750
68	.02470	.01214	.03209	.01540	.29000	49	.00000	1.04750
69	.02757	.01376	.03504	.02000	.50000	50	.00000	1.04750
70	.03059	.01570	.03851	.00000	.54000	51	.00000	1.00000
71	.03373	.01796	.04211	.00000	.31000	52	.00000	1.00000
72	.03708	.02053	.04563	.00000	.24000	53	.00000	1.00000
73	.04076	.02344	.04909	.00000	.99000	54	.00000	1.00000
74	.04488	.02666	.05262	.00000	.99000	55	.00000	1.00000
, 1	100					55		1.00000

ACTUARIAL TABLES AND RATES (PLAN B ASSUMPTIONS) OLD RATES PRIOR TO 6/30/2003

		Rates -	Remarriage	Disability	Retirement		Termination	Salary
Age	Male	Female	Rates	Rates	Rates	Dur	Rates	Scale
2.0	00040	00000	00250	00000	00000	1	05660	1 00250
20	.00042	.00022	.09350	.00000	.00000	1	.05669	1.09350
21	.00044	.00024	.09152	.00000	.00000	2	.10082	1.07750
22	.00045	.00025	.08954	.00000	.00000	3	.09899	1.07250
23	.00047	.00027	.08757	.00000	.00000	4	.08361	1.07250
24	.00049	.00028	.08569	.00000	.00000	5	.06745	1.07250
25	.00052	.00030	.08402	.00200	.00000	б	.04971	1.07250
26	.00054	.00032	.08225	.00200	.00000	7	.03412	1.06750
27	.00057	.00034	.08028	.00200	.00000	8	.03600	1.06250
28	.00060	.00036	.07802	.00200	.00000	9	.03579	1.06250
29	.00064	.00038	.07556	.00200	.00000	10	.01834	1.06250
30	.00067	.00040	.07281	.00200	.00000	11	.03429	1.06750
31	.00072	.00043	.06976	.00200	.00000	12	.02916	1.06750
32	.00076	.00046	.06652	.00200	.00000	13	.02430	1.05750
33	.00082	.00049	.06308	.00200	.00000	14	.01993	1.06750
34	.00087	.00053	.05945	.00200	.00000	15	.04005	1.06750
35	.00096	.00056	.05582	.00200	.00000	16	.01699	1.05250
36	.00101	.00060	.05230	.00200	.00000	17	.02762	1.06250
37	.00107	.00064	.04890	.00200	.00000	18	.02134	1.06250
38	.00115	.00069	.04570	.00200	.00000	19	.01352	1.05250
39	.00125	.00074	.04271	.00200	.00000	20	.01826	1.06250
40	.00138	.00080	.03993	.00200	.00000	21	.01553	1.06250
40	.00152	.00086	.03769	.00200	.00000	22	.07202	1.06750
41 42	.00152	.00094	.03480	.00200	.00000	23	.03406	1.05750
42	.00170	.00102	.03256	.00200	.00000	23 24	.01598	1.05750
	.00191							1.05750
44		.00112	.03037	.00200	.00000	25	.02920	
45	.00243	.00124	.02822	.00200	.00000	26	.04806	1.05750
46	.00275	.00137	.02632	.00200	.00000	27	.03974	1.05750
47	.00310	.00152	.02455	.00200	.00000	28	.02320	1.06750
48	.00349	.00167	.02303	.00200	.00000	29	.03000	1.05750
49	.00390	.00183	.02154	.01100	.00000	30	.03000	1.05750
50	.00434	.00199	.02019	.00800	.00000	31	.01000	1.06750
51	.00480	.00217	.01889	.00770	.00000	32	.00000	1.07750
52	.00528	.00236	.01808	.01520	.00000	33	.00000	1.10750
53	.00578	.00257	.01733	.00740	.00000	34	.00000	1.05250
54	.00629	.00282	.01671	.00720	.00000	35	.00000	1.05250
55	.00681	.00311	.01622	.00720	.34000	36	.00000	1.05250
56	.00735	.00345	.01596	.00720	.20000	37	.00000	1.05250
57	.00793	.00383	.01584	.01220	.24000	38	.00000	1.04750
58	.00858	.00425	.01589	.02800	.15000	39	.00000	1.04750
59	.00932	.00471	.01622	.01870	.39000	40	.00000	1.04750
60	.01018	.00523	.01682	.00630	.21000	41	.00000	1.04750
61	.01118	.00579	.01764	.01120	.23000	42	.00000	1.04750
62	.01237	.00641	.01906	.01740	.29000	43	.00000	1.04750
63	.01377	.00710	.02061	.00500	.25000	44	.00000	1.04750
64	.01541	.00785	.02239	.00500	.25000	45	.00000	1.04750
65	.01732	.00869	.02446	.00500	.44000	46	.00000	1.04750
66	.01953	.00965	.02684	.00500	.33000	47	.00000	1.04750
67	.02200	.01078	.02952	.00500	.34000	48	.00000	1.04750
68	.02470	.01214	.03209	.00500	.31000	49	.00000	1.04750
69	.02757	.01376	.03504	.00500	.56000	50	.00000	1.04750
70	.03059	.01570	.03851	.00500	.66000	51	.00000	1.00000
70	.03373	.01370	.04211	.00500	.99000	52	.00000	1.00000
72	.03373	.02053	.04563	.00500	.99000	53	.00000	1.00000
73	.03708	.02055	.04909	.00500	.99000	54	.00000	1.00000
74	.04078	.02344	.05262	.00500	.99000	55	.00000	1.00000
/ 4	.01400	.02000	.03202	.00500		JJ	.00000	T.00000

	- Death	Rates -	Disability	Termination	Retirement	DROP		Salary
Age	Male	Female	Rates	Rates	Rates	Rates	Dur	Scale
18	.00039	.00020	.0000	.0000	.0000	.000	1	1.0780
19	.00041	.00021	.0000	.0600	.0000	.000	2	1.0760
20	.00042	.00022	.0000	.1000	.0000	.000	3	1.0720
21	.00044	.00024	.0000	.0900	.0000	.000	4	1.0700
22	.00045	.00025	.0000	.0400	.0000	.000	5	1.0680
23	.00047	.00027	.0001	.0500	.0000	.000	6	1.0680
24	.00049	.00028	.0001	.0700	.0000	.000	7	1.0680
25	.00052	.00030	.0001	.0700	.0000	.000	8	1.0680
26	.00054	.00032	.0001	.0800	.0000	.000	9	1.0670
27	.00057	.00034	.0001	.0800	.0000	.000	10	1.0650
28	.00060	.00036	.0001	.0800	.0000	.000	11	1.0640
29	.00064	.00038	.0001	.0800	.0000	.000	12	1.0640
30	.00067	.00040	.0003	.0800	.0000	.000	13	1.0640
31	.00072	.00043	.0003	.0800	.0000	.000	14	1.0600
32	.00076	.00046	.0004	.0700	.0000	.000	15	1.0580
33	.00082	.00049	.0004	.0600	.0000	.000	16	1.0580
34	.00087	.00053	.0006	.0600	.0000	.000	17	1.0580
35	.00096	.00056	.0006	.0500	.0000	.000	18	1.0550
36	.00101	.00060	.0007	.0500	.0000	.000	19	1.0550
37	.00107	.00064	.0007	.0400	.0000	.000	20	1.0550
38	.00115	.00069	.0008	.0400	.0500	.000	21	1.0550
39	.00125	.00074	.0009	.0300	.0600	.000	22	1.0550
40	.00138	.00080	.0010	.0300	.0400	.000	23	1.0520
41	.00152	.00086	.0014	.0300	.0400	.000	24	1.0520
42	.00170	.00094	.0016	.0300	.0300	.000	25	1.0520
43 44	.00191 .00215	.00102 .00112	.0017 .0017	.0200 .0200	.0300 .0300	.000 .000	26 27	1.0520 1.0460
44 45	.00215	.00112	.0017	.0200	.0300	.000	27	1.0480
45	.00243	.00124	.0018	.0200	.0300	.000	28	1.0420
40	.00275	.00137	.0018	.0200	.0300	.000	30	1.0380
48	.00349	.00152	.0020	.0200	.0300	.000	31	1.0380
49	.00390	.00183	.0021	.0200	.0300	.000	32	1.0380
50	.00434	.00199	.0024	.0200	.0300	.000	33	1.0380
51	.00480	.00217	.0024	.0200	.0300	.050	34	1.0550
52	.00528	.00236	.0024	.0200	.0300	.150	35	1.0320
53	.00578	.00257	.0024	.0200	.0500	.150	36	1.0320
54	.00629	.00282	.0032	.0200	.1000	.350	37	1.0320
55	.00681	.00311	.0047	.0200	.2300	.550	38	1.0320
56	.00735	.00345	.0054	.0200	.2300	.100	39	1.0320
57	.00793	.00383	.0056	.0200	.4000	.100	40	1.0320
58	.00858	.00425	.0056	.0200	.4000	.100	41	1.0320
59	.00932	.00471	.0056	.0200	.2600	.150	42	1.0320
60	.01018	.00523	.0056	.0200	.2600	.200	43	1.0320
61	.01118	.00579	.0056	.0200	.2600	.070	44	1.0320
62	.01237	.00641	.0054	.0200	.3300	.050	45	1.0320
63	.01377	.00710	.0035	.0200	.3300	.050	46	1.0320
64	.01541	.00785	.0035	.0200	.3300	.050	47	1.0320
65	.01732	.00869	.0035	.0200	.3300	.050	48	1.0320
66	.01953	.00965	.0038	.0200	.4000	.050	49	1.0320
67	.02200	.01078	.0050	.0200	.4000	.050	50	1.0320
68	.02470	.01214	.0050	.0200	.3600	.050	51	1.0320
69	.02757	.01376	.0050	.0200	.3600	.050	52	1.0320
70	.03059	.01570	.0050	.0200	.3600	.050	53	1.0320
71 72	.03373	.01796	.0050	.0200	.3600	.000	54	1.0320
72	.03708	.02053	.0050	.0200	.5000	.000	55 56	1.0320
73 74	.04076 .04488	.02344	.0050 .0050	.0200 .0200	.9900 .9900	.000 .000	56 57	1.0320
/4	.04400	.02666	.0050	.0200		.000	57	1.0320

ACTUARIAL TABLES AND RATES (TEACHERS) NEW RATES 6/30/2003

	- Death	Rates -	Disability	Termination	Retirement	DROP		Salary
Age	Male	Female	Rates	Rates	Rates	Rates	Dur	Scale
18	.00039	.00020	.0000	.0000	.0000	.000	1	1.0780
19	.00041	.00021	.0000	.0000	.0000	.000	2	1.0770
20	.00042	.00022	.0000	.0000	.0000	.000	3	1.0720
21	.00044	.00024	.0000	.0000	.0000	.000	4	1.0680
22	.00045	.00025	.0000	.0000	.0000	.000	5	1.0650
23	.00047	.00027	.0000	.0000	.0000	.000	6	1.0650
24	.00049	.00028	.0000	.0000	.0000	.000	7	1.0650
25	.00052	.00030	.0000	.0000	.0000	.000	8	1.0650
26	.00054	.00032	.0000	.0000	.0000	.000	9	1.0400
27	.00057	.00034	.0000	.0000	.0000	.000	10	1.0400
28	.00060	.00036	.0000	.0000	.0000	.000	11	1.0400
29	.00064	.00038	.0000	.0000	.0000	.000	12	1.0400
30	.00067	.00040	.0000	.0100	.0000	.000	13	1.0400
31	.00072	.00043	.0001	.0100	.0000	.000	14	1.0600
32	.00072	.00045	.0001	.0100	.0000	.000	15	1.0600
33	.00082	.00049	.0001	.0100	.0000	.000	16	1.0600
34	.00087	.00053	.0001	.0100	.0000	.000	17	1.0550
35	.00096	.00056	.0001	.0100	.0000	.000	18	1.0450
36	.00101	.00050	.0001	.0100	.0000	.000	19	1.0450
30	.00101	.00064	.0001	.0100	.0000	.000	20	1.0450
38	.00107	.00069	.0001	.0100	.0000	.000	20 21	1.0450
		.00074						
39	.00125		.0001	.0100	.0000	.000	22	1.0450
40	.00138	.00080	.0001	.0100	.0000	.000	23	1.0450
41	.00152	.00086	.0001	.0100	.0000	.000	24	1.0450
42	.00170	.00094	.0070	.0100	.0000	.000	25	1.0400
43	.00191	.00102	.0070	.0100	.0000	.000	26	1.0320
44	.00215	.00112	.0070	.0100	.0000	.000	27	1.0320
45	.00243	.00124	.0070	.0100	.0000	.000	28	1.0320
46	.00275	.00137	.0070	.0100	.0000	.000	29	1.0320
47	.00310	.00152	.0200	.0100	.0000	.000	30	1.0320
48	.00349	.00167	.0200	.0100	.0000	.000	31	1.0320
49	.00390	.00183	.0200	.0100	.0100	.000	32	1.0320
50	.00434	.00199	.0200	.0100	.0100	.000	33	1.0320
51	.00480	.00217	.0200	.0100	.0100	.000	34	1.0320
52	.00528	.00236	.0200	.0100	.0300	.000	35	1.0320
53	.00578	.00257	.0200	.0100	.0300	.000	36	1.0320
54	.00629	.00282	.0200	.0100	.0300	.100	37	1.0320
55	.00681	.00311	.0200	.0100	.1000	.370	38	1.0320
56	.00735	.00345	.0300	.0100	.1000	.150	39	1.0320
57	.00793	.00383	.0300	.0100	.1500	.150	40	1.0320
58	.00858	.00425	.0300	.0100	.2000	.250	41	1.0320
59	.00932	.00471	.0300	.0100	.3500	.520	42	1.0320
60	.01018	.00523	.0060	.0100	.3500	.520	43	1.0320
61	.01118	.00579	.0060	.0100	.3000	.250	44	1.0320
62	.01237	.00641	.0060	.0100	.4000	.150	45	1.0320
63	.01377	.00710	.0060	.0100	.5000	.150	46	1.0320
64	.01541	.00785	.0060	.0100	.5000	.150	47	1.0320
65	.01732	.00869	.0000	.0100	.4000	.150	48	1.0320
66	.01953	.00965	.0000	.0100	.4000	.150	49	1.0320
67	.02200	.01078	.0000	.0100	.3200	.150	50	1.0320
68	.02470	.01214	.0000	.0100	.3200	.150	51	1.0320
69	.02757	.01376	.0000	.0100	.3200	.150	52	1.0320
70	.03059	.01570	.0000	.0100	.3200	.150	53	1.0320
71	.03373	.01796	.0000	.0100	.3200	.150	54	1.0320
72	.03708	.02053	.0000	.0100	.3200	.150	55	1.0320
73	.04076	.02344	.0000	.0100	.3200	.150	56	1.0320
74	.04488	.02666	.0000	.0100	.9900	.150	57	1.0320

ACTUARIAL TABLES AND RATES (PLAN A) NEW RATES 6/30/2003

	- Death	Rates -	Disability	Termination	Retirement	DROP		Salary
Age	Male	Female	Rates	Rates	Rates	Rates	Dur	Scale
18	.00039	.00020	.0000	.0000	.0000	.000	1	1.0650
19	.00041	.00021	.0000	.0000	.0000	.000	2	1.0650
20	.00042	.00022	.0000	.0000	.0000	.000	3	1.0650
21	.00044	.00024	.0000	.0000	.0000	.000	4	1.0600
22	.00045	.00025	.0000	.2000	.0000	.000	5	1.0600
23	.00047	.00027	.0000	.2000	.0000	.000	6	1.0550
24	.00049	.00028	.0000	.2000	.0000	.000	7	1.0520
25	.00052	.00030	.0000	.1600	.0000	.000	8	1.0520
26	.00054	.00032	.0000	.0400	.0000	.000	9	1.0520
27	.00057	.00034	.0000	.0400	.0000	.000	10	1.0520
28	.00060	.00036	.0000	.0400	.0000	.000	11	1.0450
29	.00064	.00038	.0000	.1400	.0000	.000	12	1.0450
30	.00067	.00040	.0000	.0900	.0000	.000	13	1.0450
31	.00072	.00043	.0002	.0600	.0000	.000	14	1.0450
32	.00076	.00046	.0003	.0500	.0000	.000	15	1.0400
33	.00082	.00049	.0003	.0500	.0000	.000	16	1.0400
34	.00087	.00053	.0004	.0500	.0000	.000	17	1.0400
35	.00096	.00056	.0005	.0400	.0000	.000	18	1.0400
36	.00101	.00060	.0006	.0400	.0000	.000	19	1.0400
37	.00107	.00064	.0008	.0400	.0000	.000	20	1.0320
38	.00115	.00069	.0010	.0400	.0000	.000	21	1.0320
39	.00125	.00074	.0012	.0400	.0000	.000	22	1.0320
40	.00138	.00080	.0013	.0400	.0000	.000	23	1.0320
41	.00152	.00086	.0014	.0300	.0000	.000	24	1.0320
42	.00170	.00094	.0030	.0300	.0000	.000	25	1.0320
43	.00191	.00102	.0030	.0300	.0000	.000	26	1.0320
44	.00215	.00112	.0040	.0300	.0000	.000	27	1.0300
45	.00243	.00124	.0040	.0300	.0000	.000	28	1.0030
46	.00275	.00137	.0080	.0300	.0000	.000	29	1.0300
47	.00310	.00152	.0080	.0300	.0000	.000	30	1.0300
48	.00349	.00167	.0080	.0300	.0000	.000	31	1.0300
49	.00390	.00183	.0080	.0200	.0000	.000	32	1.0250
50	.00434	.00199	.0080	.0200	.0000	.000	33	1.0250
51	.00480	.00217	.0080	.0200	.0000	.000	34	1.0250
52	.00528	.00236	.0150	.0200	.0000	.000	35	1.0250
53	.00578	.00257	.0150	.0200	.0000	.000	36	1.0250
54	.00629	.00282	.0300	.0200	.0000	.500	37	1.0250
55	.00681	.00311	.0300	.0200	.5000	.500	38	1.0250
56	.00735	.00345	.0250	.0200	.3300	.120	39	1.0250
57	.00793	.00383	.0250	.0200	.3300	.120	40	1.0250
58	.00858	.00425	.0250	.0200	.3300	.120	41	1.0250
59	.00932	.00471	.0150	.0200	.3300	.120	42	1.0250
60	.01018	.00523	.0150	.0200	.3300	.120	43	1.0250
61	.01118	.00579	.0060	.0200	.3300	.020	44	1.0250
62	.01237	.00641	.0060	.0200	.5500	.020	45	1.0250
63	.01377	.00710	.0060	.0200	.5500	.020	46	1.0250
64	.01541	.00785	.0060	.0200	.4000	.020	47	1.0250
65	.01732	.00869	.0600	.0200	.4000	.020	48	1.0250
66	.01953	.00965	.0600	.0200	.4000	.020	49	1.0250
67	.02200	.01078	.0600	.0200	.4000	.020	50	1.0250
68	.02470	.01214	.0600	.0200	.4000	.020	51	1.0250
69	.02757	.01376	.0000	.0200	.2500	.020	52	1.0250
70	.03059	.01570	.0000	.0200	.2500	.020	53	1.0250
71	.03373	.01796	.0000	.0200	.2500	.020	54	1.0250
72	.03708	.02053	.0000	.0200	.2500	.020	55	1.0250
73	.04076	.02344	.0000	.0200	.2500	.020	56	1.0250
74	.04488	.02666	.0000	.0200	.9900	.020	57	1.0250

ACTUARIAL TABLES AND RATES (PLAN B) NEW RATES 6/30/2003

	- Death	Rates -	Disability	Termination	Retirement	DROP		Salary
Age	Male	Female	Rates	Rates	Rates	Rates	Dur	Scale
18	.00039	.00020	.0000	.0500	.0000	.000	1	1.0900
19	.00041	.00021	.0000	.0500	.0000	.000	2	1.0800
20	.00042	.00022	.0000	.0500	.0000	.000	3	1.0700
21	.00044	.00024	.0000	.0500	.0000	.000	4	1.0650
22	.00045	.00025	.0000	.0500	.0000	.000	5	1.0650
23	.00047	.00027	.0001	.0500	.0000	.000	6	1.0620
24	.00049	.00028	.0001	.0500	.0000	.000	7	1.0620
25	.00052	.00030	.0001	.1400	.0000	.000	8	1.0620
26	.00054	.00032	.0001	.1400	.0000	.000	9	1.0620
27	.00057	.00034	.0001	.1200	.0000	.000	10	1.0620
28	.00060	.00036	.0001	.1200	.0000	.000	11	1.0700
29	.00064	.00038	.0001	.1200	.0000	.000	12	1.0620
30	.00067	.00040	.0001	.1200	.0000	.000	13	1.0620
31	.00072	.00043	.0001	.1400	.0000	.000	14	1.0620
32	.00076	.00046	.0001	.1400	.0000	.000	15	1.0620
33	.00082	.00049	.0001	.1400	.0000	.000	16	1.0600
34	.00087	.00053	.0001	.1400	.0000	.000	17	1.0600
35	.00096	.00056	.0001	.1400	.0000	.000	18	1.0600
36	.00101	.00060	.0005	.0900	.0000	.000	19	1.0550
37	.00107	.00064	.0005	.0900	.0000	.000	20	1.0550
38	.00115	.00069	.0005	.0900	.0000	.000	21	1.0550
39	.00125	.00074	.0005	.0900	.0000	.000	22	1.0550
40	.00138	.00080	.0005	.0900	.1100	.000	23	1.0550
41	.00152	.00086	.0010	.0800	.1100	.000	24	1.0550
42	.00170	.00094	.0010	.0600	.1100	.000	25	1.0550
43	.00191	.00102	.0010	.0600	.1100	.000	26	1.0550
44	.00215	.00112	.0010	.0400	.1100	.000	27	1.0500
45	.00243	.00124	.0010	.0400	.1100	.000	28	1.0500
46	.00275	.00137	.0010	.0400	.0800	.000	29	1.0500
47	.00310	.00152	.0010	.0400	.0500	.000	30	1.0450
48	.00349	.00167	.0010	.0300	.0400	.000	31	1.0450
49	.00390	.00183	.0005	.0300	.0400	.000	32	1.0450
50	.00434	.00199	.0005	.0200	.0300	.000	33	1.0450
51	.00480	.00217	.0005	.0200	.0300	.050	34	1.0400
52	.00528	.00236	.0005	.0200	.0400	.100	35	1.0400
53	.00578	.00257	.0005	.0200	.0500	.100	36	1.0400
54	.00629	.00282	.0005	.0200	.0900	.100	37	1.0350
55	.00681	.00311	.0005	.0200	.1500	.200	38	1.0350
56	.00735	.00345	.0005	.0200	.1800	.050	39	1.0350
57	.00793	.00383	.0005	.0200	.2400	.050	40	1.0350
58	.00858	.00425	.0020	.0200	.3400	.050	41	1.0350
59	.00932	.00471	.0020	.0200	.2000	.060	42	1.0350
60	.01018	.00523	.0020	.0200	.2000	.090	43	1.0350
61	.01118	.00579	.0020	.0200	.2000	.020	44	1.0350
62	.01237	.00641	.0020	.0200	.2000	.020	45	1.0350
63	.01377	.00710	.0005	.0200	.2000	.020	46	1.0350
64	.01541	.00785	.0005	.0100	.2000	.020	47	1.0350
65	.01732	.00869	.0005	.0100	.3000	.020	48	1.0350
66	.01953	.00965	.0005	.0100	.3000	.020	49	1.0350
67	.02200	.01078	.0005	.0100	.3000	.020	50	1.0350
68	.02470	.01214	.0005	.0100	.3000	.020	51	1.0350
69	.02757	.01376	.0005	.0100	.3000	.050	52	1.0350
70	.03059	.01570	.0005	.0100	.3000	.020	53	1.0350
71	.03373	.01796	.0005	.0100	.3000	.020	54	1.0350
72	.03708	.02053	.0005	.0100	.5000	.060	55	1.0350
73	.04076	.02344	.0005	.0100	.5000	.060	56	1.0350
74	.04488	.02666	.0005	.0100	.9900	.060	57	1.0350

ACTUARIAL TABLES AND RATES (UNIVERSITIES) NEW RATES 6/30/2003

EXHIBIT A

AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY JUNE 30, 2003

DATE 6/30	DESCRIPTION	AMTZ. METHOD	AMTZ. PERIOI		YEARS REMAI		MID-YEAR PAYMENT
1993	Initial Liability	I	36	4,922,538,457	26	6,285,061,957	377,457,172
1993	Change in Liability	I	36	-633,788,393	26	-821,612,475	-49,342,954
1994	Change in Liability	I	35	-222,094,335	26	-279,434,083	-16,781,760
1995	Change in Liability	I	34	-9,030,124	26	-11,034,882	-662,713
1996	Change in Liability	I	33	-187,637,521	26	-222,874,117	-13,384,981
1997	Change in Liability	I	32	61,791,993	26	71,399,476	4,287,984
1998	Change in Liability	I	31	-272,354,123	26	-306,409,139	-18,401,780
1999	Change in Liability	I	30	-323,105,520	26	-354,263,825	-21,275,752
2000	Change in Liability	I	29	-616,343,889	26	-659,265,631	-39,593,013
2001	Change in Liability	I	28	55,510,598	26	57,988,535	3,482,573
2002	Change in Liability	I	27	825,200,291	26	842,880,340	50,620,222
2003	Change in Assumption	ns I	30	-263,724,229	30	-263,724,229	-14,562,147
2003	Change in Liability	I	26	1,250,832,528	26	1,250,832,528	75,120,295

TOTAL OUTSTANDING BALANCE

EMPLOYERS' CREDIT BALANCE

	Contribution Vari		5	-38,284,189	1		-9,276,704
2000	Contribution Vari	ance L	5	-32,610,436	2	-14,610,801	-/,901,888
2001	Contribution Vari	ance L	5	-41,310,389	3	-26,719,123	-10,009,988
2002	Contribution Vari	ance L	5	-20,606,578	4	-17,111,519	-4,993,213
2003	Contribution Vari	ance L	5	9,730,820	5	9,730,820	2,357,891
	TOTAL CRED	IT BALANCE	8			-57,626,822	-29,823,902

TOTAL UNFUNDED ACTUARIAL ACCRUED LIABILITY 5

5,531,917,633

5,589,544,455 336,963,146