LOUISIANA STATE EMPLOYEES'
RETIREMENT SYSTEM
JUNE 30, 1994
ACTUARIAL VALUATION

1433 Hideaway Court Baton Rouge, LA. 70806 (504) 924-6209

Charles G. Hall A.S.A., M.A.A.A., M.C.A. Enrolled Actuary

October 3, 1994

Board of Trustees
LOUISIANA STATE EMPLOYEES'
RETIREMENT SYSTEM
Post Office Box 44213
Baton Rouge, Louisiana 70804-4213

Ladies and Gentlemen:

This report presents the results of the actuarial valuation of assets and liabilities, as well as funding requirements, for the Louisiana State Employees' Retirement System as of June 30, 1994.

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 Louisiana State Employees' 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 as certified by Postlethwaite & Netterville, Certified Public Accountants.

The present values shown herein have been estimated on the basis of actuarial methods as specified in Louisiana Revised Statutes Title 11 Section 22(6), and assumptions which 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.

Board of Trustees October 3, 1994 Page Two

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

		June 30, 1994	Prior June 30, 1993	Years June 30, 1992
I.	Membership Census 1) Retirees	27,093	25,887	25,602
	2) Actives	68,966	68,463	67,798
	3) DROP	1,072	521	538
II.	Annual Benefits	\$ 265,438,765	\$ 258,006,601	\$ 252,746,768
III.	Total Payroll	1,546,464,828	1,504,147,368	1,454,370,594
IV.	Assets	3,347,602,209	3,044,726,905	2,802,666,924
v.	Experience Account	37,627,187	26,706,597	27,274 847
VI.	Investment Yield Realized Income Actuarial Value	7.95% 8.88%	6.38% 8.05%	10.92% 10.40%
VII.	Cost to Fund Annual Pension Accruals (Normal Costs)	206,164,105 13.33%	199,518,564 13.26%	187,654,358 12.90%
VIII.	Unfunded Actuarial Accrued Liability	2,055,792,343	2,078,682,672	2,081,841,850
IX.	Funded Percentage	61.95%	59.43%	57.38%
х.	Funding Requirements to Pay (Mid-year Payment)			
	1) Employee Contribution Rate	122,398,135 7.664%	119,469,491 7.689%	115,536,720 7.682%
	2) Employer Contribution Rate - Current Year	190,782,765 11.9%	186,691,176 12.0%	181,016,661 12.0%
	3) Projected Employer Contribution - Next Year	199,282,281 11.9%	196,748,840 11.9%	190,935,676 11.9%

The above funding requirements measure the cost of benefits that were in effect on June 30, 1994, plus Acts of the 1993 Legislative Session which have prospective effects on current active members. There was no Retirement Legislation during the 1994 Session.

¢ 2 020 600 620

Board of Trustees October 3, 1994 Page Three

Current Funding

The Actuarial Valuation for the plan year ending June 30, 1994 discloses a general decrease in the value of the plan's unfunded accrued liability as well as prospective funding requirements. 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 reconcilling changes in the unfunded actuarial accrued liability, the following gain/loss analysis is presented as follows:

Unfunded Tishility 6/20/02

CHANGE IN UNFUNDED LIABILITY

Unfunded Liability 6/30/93		\$ 2,078,682,672
INCREASES Interest on Unfunded Liability	\$ 171,491,320	
Experience Account Allocation	8,548,243	
Employer Deficit	2,609,956	
Incurred Increases	182,649,519	
DECREASES		
Texaco Settlement	36,000,000	
Investment Gains	17,096,487	
Employer Amtz. Payment	114,415,379	
Experience Gain	38,028,116	
Incurred Decreases	205,539,982	
Unfunded Liability 6/30/94		\$ 2,055,792,209

Board of Trustees October 3, 1994 Page Four

The employer contribution rate established by the Actuarial Forecast Committee for the 1994-1995 plan year was 11.9%. The actual employer contribution rates determined by this valuation for the current plan year is 11.9%, and 11.9% when adjusted for the prior year's employer credit. The current adjusted rate represents a stabilized rate in the required employer's contributions when compared to the projected rates. Since the contribution rate is affected by many factors, the following sections address the source and respective impact to the required employer contribution rate.

Investment Experience

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

1990	<u> 1991</u>	1992	<u>1993</u>	<u>1994</u>	5 Yr. Aver.
10.3%	10.0%	10.40%	8.05%	8.88%	9.52%

The net actuarial rate of return assumed in the valuation was 8.25%. For the plan year ending June 30, 1994 the net yield to Actuarial Assets was greater than the long term Actuarial Investment Assumption used to project benefits. The result was a net investment experience gain of \$17,096,487 in excess of valuation investment income.

Act 572 of 1992 establishes the Experience Account. Each year the fund is credited/debited with 50% of the net investment experience gain/loss together with interest on the beginning account balance for the purpose of granting cost-of-living benefits for retirees. This year \$8,548,243 will be added to the Experience Account with a like amount used to decrease future employer contributions.

Act 257 of 1992 as amended requires this investment gain to be amortized over the later of the year 2029 or a fifteen year period as a 4.5% increasing annuity. Therefore, as a result of the shared investment experience gain, the employer's contribution will be decreased by \$434,640 during the next 35 years. This amortization debit represents a .03% decrease in the rate projected by the Actuarial Forecast Committee.

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 plan experience, a gain or loss occurs. This gain or loss is then amortized over the later of the year 2029 or a fifteen year period to make a mid-course adjustment in future funding requirements. During the 1993-1994 plan year, the system incurred a \$38,028,116 plan experience gain. This gain will decrease the employer's contribution by \$1,933,562 during the next 35 years and represents a .12% decrease in the rate projected by the Actuarial Forecast Committee.

Board of Trustees October 3, 1994 Page Five

Funding as a Percentage of Payroll

The funding requirements mandated by Act 81 require the employee to contribute 7.5% 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. However, in no event can the employer contribution rate drop below 12% without regard to employer credits without a corresponding adjustment to the employee contribution rate. 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 increase 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-five (35) years. To determine whether this is a reasonable expectation, aggregate salary growth during the past seven (7) years is illustrated as follows:

June 30	Payrol1/\$1000	Percent Increase
1988	1,111,015	1.6%
1989	1,141,080	2.7%
1990	1,226,065	7.4%
1991	1,368,480	11.6%
1992	1,454,370	6.3%
1993	1,504,147	6.2%
1994	1,546,465	5.7%

During the last six (6) years the aggregate salaries have increased at an annualized rate of 5.7%. If this trend continues during the next six (6) years the percentage of pay required to amortize the unfunded liability can be expected to slightly decrease in the absence of other experience gains or losses.

Comments and Disclosures

Exhibit 3 "Pension Accounting and Financial Disclosure" contains the ten (10) year comparative statistical studies required by the Governmental Accounting Standards Board.

Finally, the actuarial disclosure form required by the Actuarial Department of the Legislative Auditor's office (see Exhibit 7) makes specific provisions for the determination of whether or not a retirement system is systematically approaching the targeted funding ratio.

This is an important consideration for both retired members and members of the Board of Trustees. The Board is specifically prohibited from granting a cost-of-living raise in the absence of the Experience Account Fund to retirees and survivors by Act 256 of the 1986 regular legislative session unless the system has met the Funding Target.

Board of Trustees October 3, 1994 Page Six

For the plan year ending June 30, 1994 the funding target is .67098, which is greater than the current .61954 funding ratio. Therefore, the Board is prohibited from granting a cost-of-living increase by statute.

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, ASA, MAAA

Actuary

CGH/tt

Enclosure

TABLE OF CONTENTS

		Pages
EXHIBIT 1	DEVELOPMENT OF COSTS, LIABILITIES & CONTRIBUTIONS Provides a detail by benefit type of the cost to accrue annual pension benefits, liabilities accrued to date, and funding requirements	1 - 2
EXHIBIT 2	FINANCIAL SUMMARY Contains the statement of revenues and expenses as well as assets available to pay pension benefits	3 - 5
EXHIBIT 3	PENSION ACCOUNTING AND FINANCIAL DISCLOSURE NCGA STMT 6 changes in credited projected benefits	6 -10
EXHIBIT 4	CENSUS DATA Describes the employee data, data processing for valuation purposes and depicts employee profiles by classification, age and service	11 - 11
EXHIBIT 5	PRINCIPLE PROVISIONS OF THE RETIREMENT SYSTEM Restates in summary outline form the basic plan provisions which were incorporated in the projected retirement pension benefit	12 - 19
EXHIBIT 6	ACTUARIAL COST METHODS AND ASSUMPTIONS Discloses rates of mortality, disability, retirement termination and other assumptions which are presumed to reflect the experience of the retirement system in aggregate	20 - 24
EXHIBIT 7	LEGISLATIVE AUDITOR'S REPORT Actuarial disclosures to the Legislative Auditor's Office	25 - 27

EXHIBIT 1

DEVELOPMENT

OF

COSTS, LIABILITIES AND CONTRIBUTIONS

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

				June 30, 1994		Prior Year June 30, 1993		
				Dollar Amount	% of <u>Salary</u>		Dollar <u>Amount</u>	% of Salary
I.	Normal (to fu	Costs nd annual pension accruals)						
	Active	Members with Complete Data						
	b) Dia c) Sun d) Voi	tirement Benefits sability Benefits rvivor Benefits luntary Termination penses TOTAL	\$	156,803,491 7,830,777 8,427,396 28,302,441 4,800,000 206,164,105	10.14% .51% .54% 1.83% .31% 13.33%	\$	152,247,378 7,509,398 8,114,019 27,347,729 4,300,000 199,518,524	10.12% .50% .54% 1.82% 28% 13.26%
ıı.	Actuari	ial Accrued Liability						
	1) 2)	Retirement Benefits Disability Benefits Survivor Benefits Voluntary Termination DROP Deposits	_	,395,938,996 101,706,264 91,272,611 168,734,778 438,362 ,758,091,011			292,099,826 96,845,729 88,010,304 163,024,349 21,436,653 661,416,861	
	b) Ret 1) 2) 3) 4) 5) 6) 7)	ired and Inactive Members Regular Retirees Disabled Retirees Survivors Vested Deferred Contributions Refunded DROP Deferral DROP Deposits		,906,069,761 65,764,041 299,249,108 27,121,259 8,468,462 233,495,260 31,679,790 ,571,847,681			875,623,577 60,928,600 280,808,599 22,616,419 7,652,144 109,861,514 13,069,147 370,560,000	
c	e) SUB	TOTAL	5	,329,938,692		5,	031,976,861	

Exhibit 1 (Continued) Costs, Liabilities & Contributions

color, Lindilities & Contri	DULTORS		
			Prior Year
		June 30, 1994	<u>June 30, 1993</u>
II. Actuarial Accrued Liab	oility		
c) SUB TOTAL (Precedi	ng page)	\$ 5,329,938,692	\$ 5,031,976,861
d) Adjustments to Reg	ular Plan		
1) Active Judges		66,765,210	82,993,694
Active Legisla	tors	6,690,650	8,439,022
Adjusted TOTAL		5,403,394,552	5,123,409,577
III. Assets		3,347,602,209	3,044,726,905
IV. Unfunded Actuarial Acc	rued		
Liabilities - Projecte	d Unit Credit*	2,055,792,343	2,078,682,672
a) Change over prior	year	(22,890,329)	(3,159,178)
b) Funded Percentage		61.95%	59.43%
V. Employer Contributions To Fund Current Plan Yo			
a) Employer Portion o	f Normal Cost	85,553,023	82,194,513
b) Amortization Paymen		106,620,160	106,519,504
c) Prior Contribution	Variance	(1,390,418)	(2,022,841)
TOTAL Required	Contribution	190,782,765	186,691,176
		11.9%	12.0%
Plus State Appro	opriation	3,604,711	3,449,541
Actuarial Forecast	Rate**	11.9%	11.9%
VI. Projected Employer Cont To Fund Next Plan Year	ributions		
a) Employer Portion of	Normal Cost	89,641,695	87,457,870
b) Amortization Paymer		111,031,004	110,922,091
c) Prior Contribution	Variance	(1,390,418)	(1,631,121)
TOTAL Projected	Contribution	199,282,281	196,748,840
		11.9%	11.9%
Plus State Appro	priation	3,766,986	3,604,770
VII. Current Payroll		1,546,464,828	1,504,147,368
Projected Payroll - Mid	Year	1,597,053,170	1,553,771,505
Projected Payroll - Nex	t Year	1,673,378,080	1,653,267,858

^{*}Dollar Amounts reflect estimated payments due mid-year on January 1st per Act 81.

^{**}Constitutional Minimum is 12% without regards to Employer Credits.

EXHIBIT 2

FINANCIAL SUMMARY STATEMENT OF REVENUES AND EXPENSES FOR FISCAL YEAR ENDING

		<u>June 30, 1994</u>	Prior June 30, 1993	Years June 30, 1992
<u>OPI</u>	ERATING REVENUES:			
1.	Contribution Income			
	Member	\$ 118,255,907	\$ 114,443,629	\$ 109,370,451
	Employer	183,608,465	177,407,603	205,072,699
2.	Other Income			
	Legislative Appropriations	3,449,541	3,301,000	3,917,102
	Miscellaneous	4,611,685	6,118,816	6,246,552
	Texaco Settlement	36,000,000	N/A	N/A
	TOTAL CONTRIBUTIONS	345,925,598	301,271,048	324,606,804
з.	Investment Income			
	Realized Income	246,845,710	186,157,194	277,560,124
	Less, investment expenses	-8,358,479	<u>-6,754,812</u>	
	TOTAL INVESTMENT INCOME	238,487,231	179,402,382	273,652,573
4.	Total Revenues	584,412,829	480,673,430	598,259,377
OPE	RATING EXPENSES:			
1.	General Administration	4,787,926	4,307,150	2,973,182
	Other Expenses	936,571	395,774	520,988
2.	Benefits Paid			
	a) Pension Benefits	275,503,281	261,822,720	250,765,789
	b) Return of Contrib.	23,955,748	21,720,224	
		20/203//40	21,720,224	22,955,119
3.	Total Operating Expenses	305,183,526	288,245,868	278,080,890
NET	INCOME:	270, 200, 202		
	*	279,229,303	192,427,562	320,178,487

EXHIBIT 2 (Continued) Financial Summary

FINANCIAL SUMMARY STATEMENT OF ASSETS FOR FISCAL YEAR ENDING

		June 30, 1994	Prior June 30, 1993	Years June 30, 1992
<u>As</u>	SETS:			
1.	Short Term Assets			
	Cash in Banks	\$ 5,538,400	\$ 11,660,282	\$ 17,693,855
	Commercial/Certificates	363,431,594	199,965,382	150,508,461
	Securities	0	0	0
2.	Bonds (at amortized cost)			
	U.S. Government Agency	166,015,523	83,337,760	92,563,992
	United States Issues	506,772,432	684,080,124	699,571,900
	Corporate Issues	609,329,060	470,188,772	283,396,171
	Long Term/Financial	304,739,570	286,151,141	362,742,980
3.	Equities			
	Common Stock	899,841,092	813,304,346	000 041 000
	Foreign Stock	321,319,617	311,270,137	828,341,383 217,399,953
	Preferred Stock	7,208,424	10,051,742	11,442,554
	Fixed Assets	6,653,043	5,581,342	5,277,425
	Mortgages - Real Estate	105,198,309	103,032,658	96,266,026
4.	Receivables - Payables	(20,777,761)	17,416,312	38,407,736
	TOTAL ASSETS			
	Equities at Cost	3,275,269,303	2,996,039,998	2,803,612,436
	Equities at Market	3,421,627,795	3,229,361,411	2,881,522,572
	Market Value	3,286,926,370	3,238,127,283	2,942,146,597
RAT	IO: ASSETS/EXPENSES:	10.73	10.20	9.78
INV	ESTMENT YIELD:			
	Realized Income	7.95%	6.38%	10.92%
	Yield to Actuarial Value	8.88%	8.05%	10.40%
	Five Year Actuarial Value	9.52%	9.75%	10.10%
	Yield to Market Value	0.25%	9.60%	13.08%
	DROP Account Yield	8.38%	7.55%	9.90%

EXHIBIT 2 (Continued) Financial Summary

FINANCIAL SUMMARY STATEMENT OF ASSETS FOR FISCAL YEAR ENDING

	June 30, 1994	June 30, 1993	Years June 30, 1992			
ACTUARIAL VALUE OF ASSETS:						
TOTAL ASSETS	\$ 3,421,627,795	\$ 3,229,361,411 \$	2,881,522,572			
Change in Unrealized (G/L)						
Plan Year - 2 (wt. 1/4)	62,857,846	2,697,378	12,354,912			
Plan Year - 1 (wt. 2/4)	167,766,189	62,857,846	2,697,378			
Plan Year (wt. 3/4)	(84, 265, 543)	167,766,189	62,857,846			
Actuarial Value of Assets	3,385,229,396	3,071,433,502	2,829,941,771			
EXPERIENCE ACCOUNT FUND:						
Prior Year Ending Balance	26,706,597	27,274,847	0			
Experience Account Allocation	8,548,243	(2,765,143)	27,274,847			
Benefit Disbursements	0	0	0			
Accumulated Interest	2,372,347	2,196,893	0			
Fund Balance - Year End	37,627,187	26,706,597	27,274,847			
DEVELOPMENT OF ACTUARIAL VALUATION ASSETS:						
Total Actuarial Value of Assets	3,385,229,396	3,071,433,502	2,829,941,771			
Experience Account Fund	37,627,187	26,706,597	27,274,847			
Valuation Assets	3,347,602,209	3,044,726,905	2,802,666,924			

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. GASB is the successor organization to the National Council on Governmental Accounting. The following disclosures and statistical tables are in accordance with the NCGA's Statement No. 6.

	June 30, 1994		June 30,	<u> 1993</u>
	Dollar Amt.	% of <u>Payroll</u>	Dollar Amt.	% of Payroll
Actuarial Present Value of projected benefits for:				
1) Retirees & Beneficiaries	\$2,536,257,960	164%	\$2,340,291,437	156%
2) Terminated vested members	35,589,721	<u>2%</u>	30,268,563	<u>2%</u>
TOTAL	2,571,847,681	166%	2,370,560,000	158%
Actuarial Present Value of Credited Projected Benefits for active members:				
 Member Contributions Employer Contributions 	839,157,422	54%	790,606,581	52%
Vested Portion	1,624,134,547	105%	1,625,666,317	108%
Non-vested Portion	368,254,902	24%	336,576,679	22%
TOTAL	2,831,546,871	183%	2,752,849,577	182%
Total Actuarial Present Value				
of Credited Projected Benefits	5,403,394,552	349%	5,123,409,577	340%

The total actuarial present value of credited projected benefits increased by \$279,984,975 from June 30, 1993 to June 30, 1994. There were no significant changes in benefit provisions during the year. There was a net experience gain of \$48,680,987 after allocating \$8,548,243 of investment income to the Experience Account in accordance with Act 572.

EXHIBIT 3 (Continued)
Pension Accounting & Financial Disclosure

STATISTICAL DATA

Comparative Summary of Net Assets Available for Benefits and Total Actuarial Present Value of Credited Projected Benefits

Fiscal Year	Net Assets Available for Benefits	Total Actuarial Present Value of Credited Projected Benefits*	Percentage Funded
1985	1,520,811,190	3,043,552,222	50.0
1986	1,715,788,614	3,209,233,411	53.5
1987*	1,874,257,838	3,564,219,401	52.6
1988	2,019,831,530	3,845,252,565	52.5
1989	2,173,401,501	4,021,932,977	54.0
1990	2,321,259,028	4,210,106,529	55.1
1991	2,516,742,397	4,499,312,330	55.9
1992	2,802,666,924	4,884,508,774	57.4
1993	3,044,726,905	5,123,409,577	59.4
1994	3,347,602,209	5,403,394,552	61.9

Analysis of the percentage funded over a period of years will give a relative indication of the financial strength of the Louisiana State Employees' Retirement System.

^{*}Credited Projected Benefits were calculated beginning with the June 30, 1987 Actuarial valuation in accordance with The National Council on Governmental Accounting Statement No. 6. Prior to 1987, "Entry Age Normal" accrued benefits are illustrated.

EXHIBIT 3 (Continued)
Pension Accounting & Financial Disclosure

STATISTICAL DATA

Comparative Summary of Unfunded Actuarial Present Value of Credited Projected Benefits and Annual Active Member Payroll

Unfunded Actuarial Present Value of

Fiscal Year	Credited Projected Benefits*	Annual Active <pre>Member Payroll</pre>	Percentage Payroll
1985	1,522,741,032	1,146,506,762	132.8
1986	1,493,444,797	1,136,202,813	131.4
1987*	1,689,961,563	1,093,997,409	154.5
1988	1,825,421,035	1,111,015,208	159.0
1989	1,848,531,476	1,141,080,541	162.0
1990	1,888,847,501	1,226,065,067	154.1
1991	1,982,569,933	1,368,479,924	144.9
1992	2,081,841,850	1,454,370,594	143.1
1993	2,078,682,672	1,504,147,368	138.2
1994	2,055,792,343	1,546,464,828	132.9

^{*}Unfunded Actuarial Present Value of Credited Projected Benefits were calculated beginning with the June 30, 1987 Actuarial Valuation in accordance with The National Council on Governmental Accounting Statement No. 6. Prior to 1987, "Entry Age Normal" unfunded actuarial liabilities are illustrated.

EXHIBIT 3 (Continued)

Pension Accounting & Financial Disclosure

STATISTICAL DATA

Comparative Summary of Actuarial Values and Percentage Covered by Net Assets Available for Benefits (in million of dollars)

Actuarial Present Value of Credited Projected Benefits* for

(1) (2) (3) (4)

Fiscal	Retirees and	Terminated Vested	Current Member.	Actives Emplyr.	Net Assets Available		centage by Net		
Year	<u>Survivors</u>	Members	Contr.	Contr.	for Benefits	(1)	(2)	<u>(3)</u>	(4)
1987	2202.2	31.6	494.0	836.4	1874.3	85.1	0.	0.	0.
1988	2017.7	34.6	539.1	1,253.8	2019.8	100.	6.1	0.	ο.
1989	2164.7	23.8	574.3	1,259.1	2173.4	100.	100.	36.6	0.
1990	2088.0	20.2	615.4	1,486.4	2321.2	100.	100.	34.6	0.
1991	2155.5	17.9	674.2	1,651.6	2516.7	100.	100.	50.9	0.
1992	2307.6	28.1	728.9	1,819.8	2802.7	100.	100.	64.1	0.
1993	2340.3	30.3	790.6	1,962.2	3044.7	100.	100.	85.3	0.
1994	2536.3	35.6	839.2	1,992.3	3347.6	100.	100.	92.4	0.

^{*}Actuarial Present Value of Credited Projected Benefits were calculated beginning with the June 30, 1987 Actuarial Valuation in accordance with The National Council on Governmental Accounting Standard No. 6. Prior to 1987, "Entry Age Normal" accrued benefits were calculated but are not illustrated.

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	
<u>Year</u>	Contribution	Contribution	Income	<u>Total</u>
1985	82,716,304	119,696,836	143,986,873	345,400,013
1986	83,300,765	124,935,186	183,191,469	391,427,420
1987	80,984,576	121,880,055	183,843,426	386,708,057
1988	81,197,631	125,430,030	160,911,687	375,065,821
1989	81,925,366	134,314,360	181,179,170	397,418,896
1990	92,339,927	99,536,184	206,633,219	398,509,330
1991	104,020,927	149,859,389	225,267,421	479,147,276
1992	110,481,391	214,125,413	273,259,377	598,259,377
1993	114,443,629	186,827,419	179,402,382	480,673,430
1994	118,255,907	227,669,691	238,487,231	584,412,829

Expenses by Type

Fiscal			Administrative	
<u>Year</u>	<u>Benefits</u>	Refunds	Expenses**	<u>Total</u>
1985*	163,504,275	17,844,634	5,392,375	186,741,284
1986	175,141,258	19,929,641	1,379,097	196,449,996
1987	202,019,494	24,736,748	1,482,591	226,756,242
1988	223,013,862	24,792,168	1,904,259	249,710,289
1989	228,603,084	32,548,038	2,267,848	263,418,970
1990	234,066,890	26,880,996	2,577,670	263,525,556
1991	240,622,226	22,955,119	3,145,390	266,722,735
1992	250,765,789	23,820,931	3,494,170	278,080,890
1993	261,822,720	21,720,224	4,702,924	288,245,868
1994	275,503,281	23,955,748	5,724,497	305,183,526

^{*}Beginning in 1985, expenses for professional investment advisory services are treated as an offset to Investment Income.

^{**}Includes other expenses incurred not directly related to the administration of daily operation.

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 numerous records purged from the data base containing errors or categorized as suspicious data which is not necessarily significant. These records had the basic characteristic of a terminated non-vested participant which have balances of \$50 or less in their accumulated employee contribution account. Suspicious data are not necessarily errors, but data which falls outside the parameters of the editing process for further checking. There were 18,551 records for terminated non-vested members due a refund. Finally, 1,348 terminated vested members and Reciprocal Recognition records were purged as data in error. These participants were assumed to possess the same characteristics as the participants with "good data" in the same cohort.

Salary data contained in the profiles and valuation report exceed the amount 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.

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

	1994	1993
	Census	Census
Active Members	68,966	68,463
Regular Retirees	20,407	20,120
Disability Retirees	994	956
Survivors	4,344	4,211
Vested & Reciprocals	1,348	600
Due Refunds	18,551	20,169
DROP Participants	1,072	<u>521</u>
TOTAL	115,682	115,040

STATE EMPLOYEES' SYSTEM ACTIVE REGULAR MEMBERS

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/94

•••••	<i></i>		· • • • • • • • • • • •			. 		• • • • • • • • • •	• • • • • • • • •	
Age/Years :	(0-1)	[1-5)	[5-10)	[10-15)	(15-20)	[20-25)	(25-30)	(30-35)	(35-)	: Total :
[0-19):	201	0	0	0	0		0	0	0	: 201 :
	908356	0	0	0	0	0	0	0	0	: 908356 :
:			_	_	•	_				: :
[20 - 24) :	987	1281	8	0	0	0	0	0	0	: 2276 :
	7806967		137923	0	0	0	0	0	0	: 26928451 ;
:										: :
[25 - 29) :	1412	3818	585	95	0	0	0	0	0	: 5910 :
	14003512				0		0	0		: 98803984 :
:	,		,,	,	•	•	•	•	•	: :
(30 - 34) :	1343	3885	1508	1973	256	1	2	1	0	: 8969 :
	14784029						50195		_	:174654717 :
:								****	•	: :
[35 - 39) :	1587	3665	1420	2823	2088	153	0	0	2	: 11738 :
:	19327107						0	0		:255608226 :
:							_	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	: :
[40 - 44) :	898	3158	1194	2038	2568	1429	85	. 0	4	: 11374 :
=	10437052							0		:279065406 :
:		-,	2.0.0302	J 1022172	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12012023	2337330	·	112777	: :
[45 - 49) :	604	2279	970	1461	1704	1617	821	41	1	
:	6942108	40143084	22408121	37488040	50433117	51097040	25556732	1234846	, 30822	:244357882 :
	0774100	***********	22.00121	31 100010	30433111	31071040	£333013£	1234040	33074	: :
(50 - 54) :	360	1372	601	1007	1088	898	064	181	9	· ·
						25954305				:164667092 :
•	4403302	27311100	14003324	24172710	27024201	23734303	31340014	2100170	200104	
(55 - 59) :	1/.3	782	465	760	014	661	309	115	47	: 4159 :
						17362127		4079967		
•	2101447	10021 173	10/94230	10900720	23237301	17302127	7230000	40/990/	440700	:103054847 :
(60 - 64) :	75	283	268	395	700	251	100	77	2,	1074
(00 - 04) :		6507487				6363892		37		•
•	1307030	0307407	0943341	10107702	10007 109	0303072	2977820	1159457	040030	: 46363536 :
[65 - 69) :	38	45	82	97	93	56	30	7	_	: :
:		1153884				7.7				: 453 :
•	104300	1133004	2112023	2300989	2224210	1758898	852047	226854	110016	: 11724297 :
[70 - 74) :	17	12	3	46	70	20	۵	,	4.7	: 170 :
	378032									: 170 : : 4478119 :
	310032	277740	04975	1100296	אועטוטו	826836				
Total :	7665	20580	7104	10605	0227	500/				: 63149 :
										: 63149 : :1410614913:
.o.a. :	35041000	CAESOOMI	120015018	404343142	62339/ 144	120002770	12120/06	12363764	2345441	: 1410614913:
	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	•••••	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •

AVERAGES : Attained Age 41.57

Service Years 9.80 Active Salary 22,338

STATE EMPLOYEES' SYSTEM ACTIVE LEGISLATORS

CELLS DEPICT - MEMBER COUNT TOTAL SALARY VALUATION DATE 6/30/94

Total :	:	(35-)	[30-35)	(25-30)	(20-25)	[15-20)	[10-15]	[5-10)	[1-5)	(0-1)	Age/Years :
••••••	• • •								0		[0-19):
0 :	:		0	0	0	0	0	0	0	0	10 - 177 :
0:		0	0	0	0	0	U	U	U	U	:
:	:		•	^	•	0	^	0	0	0	[20 - 24) :
0:	:	0	0	0	0	0	0	0	8	0	:
9:	:	0	0	0	U	U	v	v	U	U	•
:	:	•	۰	0	0	0	0	0	0	0	[25 - 29) :
0 ;	:	0	0	0	0	0	0	0	0	0	:
0:	:	0	U	U		U	U	·	v	v	•
: 11 :	:	0	0	0	0	0	1	3	7	0	[30 - 34) :
249375 :	-	0	0	0	0	0	24900	75775	148700	0	:
	:	U	U	·	Ū	·	£4700	13773	110100	-	:
: 12 :		n	0	0	0	1	2	0	9	0	(35 - 39) :
271745 :		0	0	0	0	21675	44325	0	205745	0	:
271745 ;	:	U	U	•	Ū	21013	44323	•			:
: 18 :		0	0	0	0	0	5	2	9	2	[40 - 44) :
379024 :		0	0	0	0	0	123995	45450	197442	12137	:
3,7024 :	:	•	·	ŭ	·						:
22 :		0	0	0	3	5	3	5	5	1	(45 - 49) :
500600 :		0	0	0	69375	120225	63900	120900	112275	13925	:
:	:	-	_		•						:
16 :		0	0	0	1	2	6	5	2	0	[50 - 54) :
405028 :		0	0	0	22125	47475	153124	135654	46650	0	:
:	:										:
13 :		0	0	3	2	1	1	2	4	0	(55 - 59) :
329082 :		0	0	99657	46050	21300	24000	46575	91500	0	:
:	:										:
9:		0	2	0	1	0	1	0	5	0	(60 - 64):
223779 :	:	0	65904	0	22500	0	22200	0	113175	0	:
:	:										:
2 :	:	0	0	G	1	0	0	1	0	0	(65 - 69) :
48075 :	:	0	0	0	25875	0	0	22200	0	0	:
:	:										:
2:	:	0	0	1	0	0	0	0	1	0	(70 - 74) :
60045 :	:	0	0	39045	0	0	0	0	21000	0	:
105 ;	:	0	2	4	8	9	19	18	42	3	Total :
2466753 :	:	0	65904	138702	185925	210675	456444	446554	936487	26062	Total :

AVERAGES: Attained Age 47.94

Service Years 9.43 Active Salary 23,493

STATE EMPLOYEES' SYSTEM ACTIVE JUDGES

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/94

ge/Years :	(0-1)	[1-5)	(5-10)	[10-15)	(15-20)	[20-25]	[25-30)	(30-35)	[35-)	:	Total
0 - 19) :	0	0	0			0	0	0		···	0
	0	•	0	0	0		0	0	0		_
:		•	·	·	·	·	v	U	v	•	_
20 - 24) :	0	0	0	. 0	0	0	0	0	0	•	0
:	0	0	0	0	ő	ő	0	0	0	_	
:		_	·	J	·	•	v	U	U		_
25 - 29) :	0	0	0	0	0	0	0	0	0	•	0
:	0	0	0	0	0	0	0	0	0		
:		•		·	·	v	U	U	U	•	0
30 - 34) :	1	2	0	0	0	0	0	0	^	:	3
:	50927	167400	0	0	0	0	0	0		:	-
:			•	Ū	·	· ·	J	U	U	:	
35 - 39) :	1	16	4	1	0	0	0	0	n	:	
:	41700		272724	52023	0	0	0	0			1563489
:			,	22023	•	•	U	U	U		
40 - 44) :	5	31	11	10	2	0	0	0	•	:	
:	287467		869794	749397	167400	0	0	0			59 4477136
;				147471	107400	U	U	U	U		
45 - 49) :	3	23	13	20	20	3	0	0	0	:	82
:	85792	1806965	959000	1542504	1570849		0	0			6216210
:					1510017	251100	·	·	U		02 102 10
50 - 54) :	0	8	8	14	9	4	0	0	0		43
:	0	646524	587668	1125824	728117	349812	0	0			3437945
:							·	•	J	:	
55 - 59) :	0	3	4	6	6	8	2	1	n		30
:	0	251100	305339				177948	66252			2408657
:								002,52	·	:	
60 - 64) :	0	2	4	6	6	5	2	1	n		26
:	0	172404	334800	470046		423504	149952	111696	=	_	2128290
:								111070	•	:	
55 - 69) :	0	1	1	2	3	1	1	2	n		11
:	0	83700	83700	172404	216423	83700	83700	143736			867363
:							_3.44			:	
70 - 74) :	1	0	0	0	0	0	0	0			2
:		0	0	0	0	0		0			167491
Total :	11	86	45	59	46	21	5	4		٠	278
Total :		6728213		4619603		1760274			83491		

AVERAGES: Attained Age 49.67

Service Years 10.48 Active Salary 77,284

STATE EMPLOYEES' SYSTEM ACTIVE WILDLIFE AGENTS

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/94

	Total	:)	[35-	[30-35)	(25-30)	(20-25)	[15-20)	[10-15)	[5-10)	(1-5)	(0-1)	ge/Years :
n		•••		• • • • • •	0	· · · · · · · · · · · · · · · · · · ·	0	0	0	0	0	0	0 - 19) :
	Č				G	0	0	0	0	0	0	0	:
		:	Ū		•	_							:
	13		0		0	0	0	0	0	0	13	0	20 - 24) :
		:			0	0	0	0	0	0	241887	G	:
	27,720.												:
	26		0		0	0	0	0	0	1	25	0	25 - 29) :
		:			0	0	0	0	0	28588	528049	0	:
		:											:
		:	0		0	0	0	1	5	7	22		30 - 34) :
		:	0		0	0	0	30936	139547	172665	505704	17264	:
		:											:
	33	:	0		0	0	0	9	12	5		0	55 - 39) :
	873455		0		0	0	0	272215	332788	135592	132860	0	:
		:											:
	40	:	0		0	0	7	16	12	1	4	0	0 - 44) :
	1223279		0		0	0	250453	523447	328505	27256	93618	0	:
		:											:
	42	:	0		0	0	8	14	15	4	1	0	5 - 49) :
	1241830	:	0		0	0	277307	433438	399974	104111	27000	0	:
		:											:
	9	:	0		0	0	6	2	1	0	0	0	0 - 54) :
)	318380	:	0		0	0	230667	62696	25017	0	. 0	0	:
		:											
Ì	10	:	0		0	0	4	2	3	0	0	1	5 - 59) :
	300582				0	0	133504	64729	79349	0	0	23000	:
		:											:
	4	:	0		0	0	0	2	2	0	0	0	
	114715	:	0		0	0	0	58035	56680	0	0	0	:
		:										_	:
	0	:	0		0	0	0	0	0	0	0	0	5 - 69) :
	0	:	0		0	0	0	0	0	0	0	0	:
		:								_	_		: 0 - 74) ;
	0	:	0		0	0	0	0	0	0	0	0	
	0	:	0		0	0	0	0	0	0	0		· · · · · · · · · · · · · · · · · · ·
•	213	• • •	0	•••••	0	0	25	46	50	18	72	-	Total :
	5736881	-			0	0		1445496	1741040	468212	1529118	40264	Total :

AVERAGES : Attained Age 39.54
Service Years 10.87

Active Salary 26,934

STATE EMPLOYEES' SYSTEM CORRECTIONS before 1986

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/94

: Total)	[35-	(30-35)	(25-30)	[20-25)	[15-20)	[10-15)	[5-10)	[1-5)	(0-1)	Age/Years :
• • • • • • • • •				••••••	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	********			••••••	
0	0		0	0	0	0	-	0	0	0	[0 - 19):
. 0	0 :		0	0	0	0	0	0	0	0	:
:	;										:
. 0	0		0	0	0	0	0	0	0	0	[20 - 24) :
. 0	0 :		0	0	0	0	0	0	0	0	:
ŀ	:										;
49	0 :		0	0	0	0	13	36	0	0	[25 - 29) :
1048247	0 ;		0	0	0	0	295295	752952	0	0	:
}	:										:
	0 :		0	0	0	24	162	66	0	0	[30 - 34) :
	0 :		0	Q	0	656233	3981970	1478310	0	0	:
1	:										:
	0 :		0	0	8	126	182	61	0	0	[35 - 39) :
9802405	0 :		0	0	283015	3446329	4681446	1391615	0	0	:
											:
396			0	0	48	133	171	44	0	0	[40 - 44) :
11114253			0	0	1690238	3977552	4453935	992528	0	0	:
	•		•	_							:
329			1	6	40	93	140	49	0	0	[45 - 49) :
9213699			33264	243389	1414353	2743664	3671051	1107978	0	0	:
7213077											:
176			1	7	14	42	87	25	0	0	(50 - 54) :
4670047			25169	292034		1172646		536248	. 0	0	1
	• :		23107	272031							:
160			1	1	6	54	81	17	0	0	[55 - 59) :
4118196			50835	32244		1474099	2041909	377808	0	0	:
	:		30033	32211							:
	0 :		0	,	4	20	32	11	0	0	[60 - 64) :
= :			0		97556	533429	778698	219318	0	0	:
1707244			Ů	70273	71330	,					:
	•		1	1	0	2	3	4	0	0	(65 - 69) :
• •	0:		24600	45930	0	49200	72492	86658	0	0	:
	0 :		£4000	72730	•		. 3 ., =				:
3 :			n	2	0	0	1	0	0	0	(70 - 74) :
						0		0	0	0	:
90684	v :		0	00004					• • • • • • • • •		
1822 :	0 :	•••••	4	19	120	494	872	313	0	0	Total :
48160168 :	-		133868	757924	4010187				0	0	Total :

AVERAGES: Attained Age 43.86 Service Years 13.97

Active Salary 26,433

STATE EMPLOYEES' SYSTEM CORRECTIONS after 1986

CELLS DEPICT - MEMBER COUNT TOTAL SALARY VALUATION DATE 6/30/94

tal :	Tota	:	i-)	(35-	(30-35)	(25-30)	(20-25)	(15-20)	(10-15)	(5-10)	[1-5)	(0-1)	Age/Years :
						• • • • • • • • • • • • • • • • • • • •			••••••	• • • • • • • • • • • • • • • • • • • •			
					0					0	0		[0-19):
	481	:	0		0	0	0	0	0	0	0	48172	:
:													
	5				0	0	0	0	0	1			(20 - 24) :
8396 :	71383	:	0		0	0	0	0	0	17373	5756207	1364816	:
:		:											:
	8				0	0	0	0	0	117			[25 - 29) :
	146998		0		0	0	0	0	0	2251914	10796237	1651708	:
-		_											:
	6				0	0	0	0	0	74			[30 - 34) :
0071 :	110300	:	0		0	0	0	0	0	1491882	8410601	1127588	:
:													:
465 :	4	:	0		0	0	0	0	0	78			[35 - 39) :
1334 :	83813	:	0		0	0	0	0	0	1548268	5641388	1191678	:
:		:											:
371 :	3	:	0		0	0	0	0	0	69	246	56	[40 - 44) :
	67340		0		0	0	0	0	0	1405525	4741125	587402	:
:		:											:
273 :	2	:	0		0	0	0	9	0	55	173	45	[45 - 49) :
2491 :	49924	:	0		0	0	0	0	0	1119011	3397306	476174	:
:		:											:
135 :	13	:	0		0	0	0	0	0	35	83	17	[50 - 54) :
B141 :	24981	:	0		0	0	0	0	0	701754	1602346	194041	:
:		:											;
80 :	4	:	0		0	0	0	0	0	22	46	12	(55 - 59) :
4068 :	15040	:	0		0	0	0	0	0	451595	888047	164426	:
:		:											:
35 :	,	:	0		0	0	0	0	0	10	21	4	[60 - 64) :
9997 :	6799	:	0		0	0	0	0	0	209792	398749	71456	:
:		:											:
9:		:	0		0	0	0	0	0	0	5	4	(65 - 69) :
7000 :	2070	:	0		0	0	0	0	0	0	115000	92000	:
:		:											:
4:		:	0		0	0	0	0	0	0	1	3	[70 - 74) :
2000 :	920	:	0		0	0	0	0	0	0	23000	69000	:
				• • • • • •								700	Total :
	33				0	0	0	-	0	461			
5581 :	580055	:	0		0	0	0	0	0	919/114	41770006	/030461	Total :

AVERAGES : Attained Age 34.34

Service Years 3.18 Active Salary 17,065

STATE EMPLOYEES' SYSTEM ALL REGULAR RETIREES

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/94

ge/Years :	(0-1)	[1-2)	(2-3)	(3-4)	[4-5)	(5-10)	[10-15)	(15-20)	[20-)	: Total
0 - 39) :	3	2	0		0	2	0		0	· · · · · · · · · · · · · · · · · · ·
:	36085	32155	0	0	0	22853	0	0	0	: 9109 :
40 - 44) :	9	5	4	2	1	0	1	0	0	· : 2
:	132708	76038	58060	11082	11069			0		: 30428
45 - 49) :	21	15	8	6	5	13	0	0	0	: 6
:	376529	216477	192808	86973	69827	174160	0	0		
50 - 54) :	64	69	35	18	21	167	5	0	o	: 37
:	1195946	1267018	642990	303371	341331		_			: 641089
55 - 59) :	166	201	106	74	80	1085	47	2	1	: 176
:	2655759	3058272	1647880	1224909	1462931			17433		: 2810697
50 - 64) :	331	409	267	196	183	1660	381	65	8	: 350
:	3304609	3908902	2706352	2353802		22707550				: 4297857
65 - 69) :	175	282	212	217	309	2234	942	270	45	· 468
:	1466668	2323805	1758781	2368978	2938873	24605389				: 5206437 :
70 - 74) ;	34	65	63	82	114	1528	1707	621	87	: 430
:	296470	586278	704849	1088158	1097035	16361006	17467336	7202924	851437	: 4565549 :
75 - 79) :	7	4	6	8	12	332	1238	1044	223	: 287
:	69560	46159	81007	194703	141522	4144326		9250333		: 2725519 :
30 - 84) :	0	0	0	1	0	15	157	942	592	: 170
:	0	0	0	13017	0	258326	1575177			: 1360207
5 - 89) :	0	0	0	0		2	5	83	754	: 84
:	0	0	0	0	0	56618	48783	605897	4976286	: 5687584 :
0 - 99) :	0	0	0	0	1	0	0	3	253	: 25
	0		0	0	8107	0	0	36757	1470461	: 151532
Total :			701	604	726	7038	4483	3030	1963	: 20407
Total :	9534334	11515104						28123470	14403547	. 2040

AVERAGES: Attained Age 70.26
Years Retired 10.69

Annual Benefit 11,015

STATE EMPLOYEES' SYSTEM ALL DISABILITY RETIREES

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/94

Total	:	[20-)	(15-20)	[10-15)	(5-10)	[4-5)	[3-4)	[2-3)	(1-2)	(0-1)	Age/iealS :
 4	•••	0	0	1	8	3	4	7	12	8	[0 - 39) :
			0		38392		25174	37895	70963	58307	:
_	_		•	7	19	8	13	13	19	16	: 40 - 44) :
9 71530			0		129852		93093		180569		:
	:	•									:
19	:	0	2	15	60	15	18	24	35		5 - 49) :
155822	:	0	7184	113109	450004	91319	142629	204192	292351	257439	:
30	:	٥	8	40	90	30	25	36	42	31	0 - 54) :
245986			50472	282663	699054	253833	205181	285530	362103	321024	:
											:
34			22	55	110	24	38			37	5 - 59) :
243743		10379	128483	340689	760302	148720	275444	196261	254147	323006	:
1	:	0	0	4	3	0	2	2	0		0 - 64) :
		ō	0	32836	42462	0	42689	11532	0	42001	. :
	:						_	_		1	: 5 - 69) :
		0	0	0	0	0	0	0	0	42213	: (69
4221.	:	0	0	0	U	U		Ů	ŭ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	:
I	:	0	0	0	0	0	0	0	0	0) - 74) :
İ	:	0	0	0	0	0	0	0	0	0	:
	:				_	_		•	0	0	: 5 - 79) :
(:		0	0	0	0	0	0	0	0	,, .
+	:	0	U	U	U	U	Ů	v	·		:
	:	0	0	0	0	0	0	0	0	0	9 - 84) :
C	:	0	0	0	0	0	0	0	0	0	:
	:		•		0	0	0	0	0	0	· · - 89) :
(-	0	0	0	0	0	0	0	0	0	:
,	:		J	•	-	-					:
C		0	0	0	0	0	0	0	0	0	99):
(:	0	0	0	0	0	0	0	0	0	:
994	-	3	32	122	290	80	100	108	140	119	otal :
	-	10379					784210	819392	1160133	1178090	Total :

AVERAGES : Attained Age 51.91 Years Retired 5.35

Annual Benefit 7,677

STATE EMPLOYEES' SYSTEM ALL SURVIVOR BENEFITS

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/94

: Total	[20-)	(15-20)	[10-15)	(5-10)	(4-5)	[3-4)	(2-3)	[1-2]	(0-1)	ge/Tears :
 : 9	10	21	12	29	4	2	8	2	2	0 - 39) :
	49058	120619	90075	309628	62811	73196	114994	25974	27842	:
: 6		1	13	30	5	0	5	6	2	0 - 44) :
	3958	1838	113635	373821	79518	0	48697	94882	30713	:
	2	4	32	41	4	7	4	6	11	5 - 49) :
	4728				66569		20721	75814	181512	:
	10	13	38	65	38	59	64	40	46) - 54) :
: 482854 :	41350	92089	387823	744312	566640	650879	989411	700805	655231	:
	8	42	69	355	1	8	5	8	2	59):
: 488254 :	52516	275788	527369	3769298	2860	48861	95608	88838	21408	:
: 78		79	597	58	4	6	6	1	1	- 64) :
	174774	509837	4776041	465919	21733	43120	44863	9729	5985	:
	69	836	75	74	6	4	3	0	1	- 69) :
: 679609 :		5192144	592992	558032	27613	21686	20281	0	6725	:
· 78		64	76	44	3	3	0	0	0	- 74) :
: 462175 :	3266352	418924	561720	345824	10500	18433	0	0	0	:
: 37		66	37	15	0	0	0	0	0	- 79) :
	1235356	371424	274504	128373	0	0	0	0	0	:
	118	28	6	1	0	0	0	0	0	- 84):
: 77537 :		148288	75525	5168	0	0	0	0	0	:
4		0	1	0	0	0	0	0	0	- 89) :
	203090	0	20017	0	0	0	0	0	0	:
	6 :	n	0	. 0	0	0	0	0	0	- 99) :
2349	23494	0	0	0	0	0	0	ō	0	:
434		1154	956	712	65	89	95	63	65	otal :
3301056	5977696 :	7149536	7746963	7132736	838244	914352	1334575	996042	929416	otal :

AVERAGES: Attained Age 64.94 Years Retired 15.45

Annual Benefit 7,601

STATE EMPLOYEES' SYSTEM DROP PARTICIPANTS

CELLS DEPICT - MEMBER COUNT
TOTAL BENEFIT

VALUATION DATE 6/30/94

Total	:)	[20-	(15-20)	[10-15)	[5-10)	[4-5)	[3-4)	(2-3)	[1-2)	(0-1)	Age/Years :
3	• • •					0		0	0	1	2	
48529	_	_		0	0	0	0	0	0	13376		:
	=											:
13	:	0		0	0	0	0	0	0	5	8	(40 - 44) :
172122	:	0		0	0	0	0	0	0	71793	100329	:
	:											:
24				0	0	0	0	0	0	5		(45 - 49) :
444429	:	0		0	0	0	0	0	0	101028	343401	:
	:											:
157				0	0	0	0	0	6	36		(50 - 54) :
	:	Ü		0	0	0	0	0	122360	898506	2677071	:
292	:	۸		0	0	0	0	2	29	93	140	: : (55 - 59)
7156478				0	0	0	0	48252	734963		4094247	
1120410	:	Ū		·	·	v	•	40232	134703	2217010	4074641	•
381	-	0		0	0	0	0	5	26	115	235	(60 - 64) :
6881315				0	0	0	0	58504	708724	1895008	4219079	
	:											:
157	:	0		0	0	0	0	3	27	50	77	[65 - 69) :
3306765	:	0		0	0	0	0	24944	730070	909544	1642207	:
	:											:
37	:	0		0	0	0	0	3	3	12		[70 - 74) :
	:	0		0	0	0	0	17666	37273	240528	289004	:
_	:	_		_	_	_	_	_	A		_	:
	:			0	0	0	0	0	1 70450	4		(75 - 79) :
183545	:	0		0	0	0	0	0	39158	51042	93345	:
(:	O		0	0	0	0	0	0	0	0	: : (84 - 84)
(:	_		0	0	0	0	Ð	0	0	0	:
`	:	Ŭ		·	·	·	·	•	·	v	•	
(÷	0		0	0	0	0	0	0	0	0	(85 - 89) :
(:	0		0	0	0	0	0	0	0	0	:
	:											:
(:	0		0	0	0	0	0	0	0	0	[90 - 99) :
(:	0		0	0	0	0	0	0	0	0	:
1072	:		• • • • • •	0	0		0	13	92		646	Total :
22475591				0	0	0	0			6459841		

AVERAGES: Attained Age 60.19

Years Retired 1.02 Annual Benefit 20,966

STATE EMPLOYEES' SYSTEM TERMINATED VESTED

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/94

Age/Years :	(0-1)	[1-5)	(5-10)	[10-15)	(15-20)	(20-25)	[25-30)	(30-35)	[35-)	:	Total :
					• • • • • • • • • • • • • • • • • • • •						
[0-19):	0	0	0	0	0	0	0	0	0	:	0:
:	0	0	0	0	0	0	0	0	0	:	0:
:										:	:
(20 - 24) :	0	1	0	0	0	1	0	0	0	:	2:
:	0	680	0	0	0	3118	0	0	0	:	3798 :
:		_								:	:
(25 - 29) :	0	3	0	0	0	0	0	0		:	3:
:	0	2306	0	0	0	0	0	0	0	:	2306:
:	_	_								:	:
(30 - 34) :	0	3	0	17	4	0	0	0	0	:	24 :
:	0	2105	0	91627	30389	0	0	0	0	:	124121 :
: [35 - 39) :	0	2		70	70		_	_	_	:	
: (25 - 25)	0	1065	1 446	38 292173	32	1 5500	0	0			74:
•	v	[003	440	292173	247244	5590	0	0	U	:	546518 :
[40 - 44) :	0	0	0	26	69	31	1	0		:	427 .
:	0	0	0	172815	555550	288525	18697	0		:	127 : 1035587 :
•	J	Ū	U	112013	000000	200323	10077	U	U	:	
[45 - 49) :	0	2	0	26	44	43	18	2	۸	:	135 :
:	0	1802	0	257401	436712	439277	136281	35815		:	1307288 :
:	-		•	251401	450112	437211	130201	33013	v	:	1507200 :
(50 - 54) :	0	0	1	29	35	43	34	10	ń	:	152 :
:	0	0	7361	273040	348987	480898	385324	93504		:	1589114 :
:								,,,,,,,	·	:	:
(55 - 59) :	0	0	0	31	36	21	10	5	9	;	112 :
:	0	0	0	194916	272395	202867	87043	56589	56924		870734 :
:										:	
[60 - 64):	0	0	0	3	4	6	7	3	2		25 :
:	0	0	0	12119	36103	61134	67818	45474	7543		230191 :
:										:	:
[65 - 69) :	0	0	0	2	3	2	2	2	5	:	16:
:	C	0	0	8724	17390	10574	7301	21345	30573	:	95907 :
;										:	:
[70 - 74) :	0	0	0	0	2	3	10	3	9	:	27 :
:	0	0	0	0	16650	41252	55825	4498	39279	:	157504 :
Total :	0	11	2	172	229	151	82	25	25	•••	697 :
Total :	0	7958	7807	1302815	1961420	1533235	758289	257225			5963068 :
	• • • • • • • • •										

AVERAGES: Attained Age 49.69

Service Years 19.53 Annual Benefit 8,555

EXHIBIT 5

PRINCIPLE PROVISIONS OF THE PLAN (Including Acts of 1993 Regular Session)

EFFECTIVE DATE:

July 1, 1947; last amendment date - July 1, 1993.

EMPLOYEE:

Any person legally occupying a position in the state service.

EMPLOYER:

The State of Louisiana or any of its boards, commissions, departments, agencies and courts which are contributing members and those approved for membership by the legislature from which any employee receives his compensation.

ELIGIBILITY FOR PARTICIPATION:

Condition of employment in state service except the following: elected or appointed officials or employees who are contributing members of any other state system; public officials and state employees who receive a per diem in lieu of compensation; persons employed prior to 1/1/73 who work on a part-time basis and elect not to participate; patient or inmate help in state charitable, penal or correctional institutions; part-time students, interns and resident physicians; independent contractors; employees who are age 60 or older at time of employment; retirees of the retirement system who return to work under certain conditions; judges who failed to elect membership prior to 10/2/76; civilian employees who on 11/1/81 were within five years of retirement eligibility in the Federal Civil Service Retirement and Disability Fund; teachers employed after 9/10/82; nurses employed from employment pools at state charity hospitals; temporary, seasonal, part-time employees of DOCT, or as defined in federal law.

SERVICE:

Service as an "Employee", defined above.

CREDITABLE SERVICE:

For service prior to January 1, 1973: 1/4 year granted for each 89 day interval of service, not to exceed 1 credit per fiscal year. Minimum 50 days required for 1st Quarter credit.

For service on or after January 1, 1973, a member shall receive credit based on the ratio of actual pay to the annual base per calendar year. Fractional service shall be rounded to the next highest 1/10th, not to exceed 100 percent per year.

ADDITIONAL CREDITABLE SERVICE:

- 1. Credit for service cancelled by withdrawal of accumulated contributions may be restored by member by paying into system the amount withdrawn plus interest at the Actuarial Valuation rate.
- 2. Maximum of 4 years of credit for military service may be obtained for each member with at least 2 years service, contingent on payment of Actuarial Cost.
- 3. Credit for educational leave or any period of training, up to a maximum of three years, for which a stipend was paid and the member was bound to return to the employ and does return to the employ of such agency.
- 4. Credit for service which was classified as a job appointment or emergency appointment not to exceed 2 years credit.
- 5. At retirement, all accumulated unused sick and annual leave shall be credited based on the following schedule:

1	_	26	Days	10%	of	a	Year
27	_	52	Days	20%	of	а	Year
53	_	78	Days	30%	of	а	Year
79	_	104	Days	40%	of	а	Year
105	_	130	Days	50%	of	a	Year
131	_	156	Days	60%	of	а	Year
157	-	182	Days	70%	of	a	Year
183	_	208	Days	80%	of	a	Year
209	_	234	Days	90%	of	a	Year
235	_	260	Days	100%	of	а	Year

Actuarial Equivalent Lump-sum is available after August 15, 1993.

EARNABLE COMPENSATION:

The base pay earned by an employee for a given pay period as reported by the employing agency including the full amount earned, expense allowances, overtime paid to employees of the legislative branch, per diem paid to members of the legislature, the clerk or sergeant-at-arms of the house and the president and secretary of the senate.

AVERAGE FINAL COMPENSATION FOR BENEFIT PURPOSES:

The average annual earned compensation for the thirty-six highest months of successive employment, or the highest thirty-six successive joined months where interruption of service occurred; part-time employees use the base pay the part-time employee would have received had employment been full-time.

ACCUMULATED CONTRIBUTIONS:

The sum of all amounts deducted from the earned compensation of a member and credited to the individual account in the employee's savings account, together with regular interest credited prior to July 1971.

EMPLOYEE CONTRIBUTIONS:

				After June 30, 1989
Individual Employees	7%	of	Compensation	7.5%
Agents of DOC	8.5%	of	Compensation	9.0%
Wild Life Agents	8%	of	Compensation	8.5%
Legislators, Judges	11%	of	Compensation	11.5%

EMPLOYER CONTRIBUTIONS:

9% of Compensation by statute; 9.2% effective 8/1/80; 10.2% effective 7/1/84; 11.2% effective 9/11/85. Act 81 of 1988 requires employer rate to be actuarially determined and set annually.

RETIREMENT BENEFIT:

NORMAL RETIREMENT:

Eligibility:

Written application to the Board and,

- 1. Member has attained age 60 and 10 years of accredited service, or age 55 and 25 years of accredited service, or at any age and 30 years of accredited service.
- Certain members of the Department of Public Safety and Corrections,
 years of accredited service at any age (age 50 if employed after
 August 15, 1986, 20 years of service).
- 3. Service as a judge or court officer, 18 years of creditable service regardless of age, or age 50 and 20 years of accredited service, or age 55 and 12 years of accredited service, or age 70 without regard to accredited service.
- 4. Members of the legislature, governor, lieutenant governor and state treasurer, 16 years of such service without regard to age, or age 50 with 20 years of accredited service with 12 years of such service, or age 55 with 12 years of such service.

Benefit:

- 1. Annual pension equal to 2 1/2 percent of average compensation for each year of creditable service, plus \$300 supplemental benefit.
- 2. Annual pension equal to 2 1/2 percent of average compensation for each year of creditable service, plus \$300 supplemental benefit.

- 3. Annual pension equal to 3 1/2 percent of average compensation for each year of creditable service as a judge or court officer, plus benefit described in (1) above for other state service.
- 4. Annual pension equal to 3 1/2 percent of average compensation for each year of creditable service as a legislator, governor, lieutenant governor, employees of the legislature or state treasurer, plus benefit described in (1) above for other state service.

NOTE:

- A. Benefit not to exceed 100% of average earnable compensation.
- B. Retiree who returns to work shall have benefits suspended while so re-employed; benefit in same amount shall resume after re-employment ceases, but shall include any Cost-of-Living benefits or increases granted during suspension (these are not retroactive). Retirees who return to work during a July 1 to June 30 year will not have his benefits reduced if his compensation does not exceed 50% of his average final compensation.
- C. The \$300 annual supplemental benefit is discontinued to persons who become members of the retirement system after 6/30/86 (Act 608 of 1986).
- D. For members employed after January 1, 1990, 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:

<u>AGE</u>	<u>MAXIMUM</u>	AGE	MAXIMUM	AGE	<u>MAXIMUM</u>
48	\$21,861	56	\$46,138	64	\$106,076
49	23,926	57	50,904	65	118,800
50	26,204	58	56,239	66	130,128
51	28,726	59	62,228	67	142,931
52	31,515	60	68,967	68	157,458
53	34,610	61	76,571	69	174,029
54	38,047	62	85,177	70	192,999
55	41,872	63	94,947		

COST-OF-LIVING BENEFITS:

1. Discretionary Board approved supplemental cost-of-living adjustments based on the difference in the all-items Consumer Price Index for the two immediate preceding calendar years not to exceed 3% in any year, from excess interest earnings, provided the system is approaching full funding.

2. Under Act 798 of 1980:

A. Cost-of-living adjustments for retirees based on their date of retirement as follows:

<u>Retirement Date</u>	<u>Increase</u>
7/2/78 - 7/1/79	3%
7/2/77 - 7/1/78	6%
7/1/77 and earlier	9% (of 10/1/77
	benefit)

B. 1979 cost-of-living raise of 10% for those who retired on or before 7/1/80 is a permanent raise.

3. <u>Under Act 852 of 1981</u>:

Cost-of-living for recipients who retired on or before July 1, 1978, payable on January 1, 1982 as follows:

Retiree, beneficiary or survivor

- 1. At least 62 but less than 65, 4% of benefit of October 1, 1977, or initial benefit if retired after October 1, 1977, but not greater than \$400 annually,
- 2. <u>65 or older</u> 7% of benefit of October 1, 1977 or initial benefit if retired after October 1, 1977, but not greater than \$700 annually.
- 3. <u>Disability retirees and surviving children</u> not subject to the above age restrictions, and their COL is 7%, but not greater than \$700 per person.

4. Under Act 443 of 1984:

7% Cost-of-living increase to retirees, beneficiaries and survivors who are receiving a benefit by 9/1/84. It is effective 9/1/84 and must be paid by the retirement system by 11/1/84.

No increase can be more than \$100/month. If the increase is only partially funded for a given year, the increase shall be reduced in direct proportion.

NOTE:

In no case may the increase cause annual benefits to exceed \$24,000.

5. Act 5 of Third Extraordinary Session:

Effective September 1, 1991, retirees, beneficiaries and survivors who have been receiving benefits since July 1, 1990 receives \$1 per month increase for each year of service plus \$1 per month for each year retired.

6. Act 572 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. Once the balance of the experience account accumulates to a sum sufficient to grant retirees a COLA, the Board may grant such COLA with legislative approval.

DISABILITY RETIREMENT:

Eliqibility:

10 years of creditable service; certification of disability by medical board (medical examination may be required once in every year for the first 5 years of disability retirement, and once in every 2 years thereafter, until age 60.)

Benefit:

- 1) The disability retirement annuity shall be equivalent to the regular retirement formula without reduction by reason of age for all classes of membership.
- 2) For judges and court officers, the benefit in (1) but not less than 50% of current salary.
- 3) For certain Wild Life agents; partial disabilities not eligible for (1) above receive 75% of the benefit in (1); total disability in-line-of-duty receive 60% of average compensation.

SURVIVOR'S BENEFITS:

Eliqibility:

- 1. Surviving spouse with minor children, legally married 2 years prior to date of death of a member with 5 years of service credit, 2 of which were earned immediately prior to death, or 20 years of service regardless of date earned.
- 2. Surviving spouse, legally married 2 years prior to death, of a deceased member with 10 years of service credit, 2 of which were earned immediately prior to death, or 20 years of service regardless of date earned.
- 3. Surviving minor child, with no spouse of a deceased member with 5 years of service credit, 2 of which were earned immediately prior to death, or 20 years of service regardless of date earned.
- 4. Surviving handicapped or mentally retarded children.
- 5. Surviving spouse of a judge or court officer.
- 6. Beneficiary not eligible for (1), (2), (3), (4) or (5).

Benefit:

- 1. Greater of 75% of member's average compensation or \$300 per month. One-third of the benefit is designated for survivor, two-thirds for minor children.
- 2. Greater of 50% of member's average compensation or \$200 per month.
- 3. Greater of 75% of member's average compensation or \$300 per month.
- 4. Continuation of minor child's benefit described above in (1) or (3) whichever is applicable.
- 5. Survivor's benefit described in (1) or (2), but not less than the greater of 1/3 the member's compensation or 50% of the retirement pay which such member was entitled or receiving prior to death.
- 6. Return of member's accumulated contributions.

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:

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

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

 $\underline{\text{Option 3}}$ - 1/2 of reduced retirement allowance, if member dies, to be continued to designated beneficiary for his lifetime.

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

- A. 90% of the maximum retirement allowance to member; if member dies, 55% of the maximum retirement allowance continued to beneficiary.
- B. 90% of the maximum retirement allowance to member; if member dies, 55% of the maximum retirement allowance continues to beneficiary adjusted based on the age and relationship of the beneficiary to the member.
- C. Special reversionary annuities to Options 2, 3, and 4. Member's reduced benefit reverts to the maximum if the beneficiary predeceases the annuitant.

If divorced after retirement, optional benefit can revert to maximum benefit with actuarial adjustment.

REFUND OF CONTRIBUTIONS:

If a member ceases to be a member, except by death or retirement, he shall be paid such part of the amount of the accumulated contributions credited to his individual account in annuity savings fund as he shall demand, plus any accumulated interest thereon as of 6/30/71; if member of legislature, no interest. No interest credited after 6/30/71. 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 10 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.

EXHIBIT 6

ACTUARIAL COST METHODS AND ASSUMPTIONS

COST METHOD:

The individual "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 dates. That portion of the actuarial present value attributable to current year benefit accruals is called the Normal Cost. The actuarial present value of future benefits in proportion to service accrued on the date of valuation is called the actuarial accrued liability.

ACCOUNTING DISCLOSURE:

The Governmental Accounting Standards Board Statement No. 6 requires the disclosure of "Credited Projected Benefits" for Public Employee Retirement Systems. The actuarial present value of credited projected benefits are the accumulated accrued benefits of each individual participant projected with salary increases for active members to anticipated retirement. The development of this disclosure utilizes the same actuarial assumptions in the development of funding requirements and actuarial accrued liabilities.

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 age set at attained age plus one.

DISABILITY ASSUMPTION:

Rates of total and permanent disability were projected by age in accordance with the 1981-86 disability experience study of the Retirement System. For mortality after disability, rates were on the Eleventh Actuarial Valuation of the Railroad Retirement Systems for permanent disabilities.

RETIREMENT ASSUMPTION:

Retirement without reduction in benefits can occur at any given age after satisfying the service eligibility requirements. Absent from the plan is a traditional "Normal Retirement Age". Since the age and service requirements are varied, the frequency of retirements will depend on the exposure plus intangibles such as health, economy, Social Security and other work patterns. The retirement rates were projected based on the 1981-86 experience study of the Retirement System.

EXHIBIT 6 (Continued)
Cost Methods & Assumptions

TERMINATION ASSUMPTIONS:

Voluntary termination or withdrawal rates were derived from the 1981-86 termination experience study of the Retirement System. During the first five years of employment, the probability of voluntarily terminating is a multiple of the attained age rate as follows:

	Regular <u>Members</u>	Corrections & Wildlife
1st year	1.3x	1.6x
2nd year	1.0x	1.2x
3rd year	1.0x	1.1x
4th year	1.0x	1.1x
5th year	1.0x	1.0x

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 rate of annual salary growth is based on the 1981-86 salary growth experience study of the Retirement System.

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

EXHIBIT 6 (Continued)
Cost Methods & Assumptions

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.

ASSET VALUATION:

Bonds are valued at amortized cost. Fixed assets are valued at cost minus depreciation. For the Plan Year Ending June 30, 1988 equities are valued on a four year weighted average. The computation of the average actuarial value of assets is the sum of the bonds at amortized cost, plus a weighted average of the change in the unrealized losses or (gains) in the market value of equities offset against the market value of equities. This value is a modification of the average value methodology 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. The four year average value will be phased in over the next three year period.

ADMINISTRATIVE EXPENSES:

These expenses are included in Normal Cost and are assumed to be \$4,800,000 per year. Investment Expenses are not included in Normal Cost but are treated as a direct offset to investment income.

ACTUARIAL TABLES AND RATES (STATE EMPLOYEES' ASSUMPTIONS)

	- Death	Rates -	Remarriage	Disability	Retirement		Termination	Salary
Age	Male	Female	Rates	Rates	Rates	Dur	Rates	Scale
20	.00042	.00022	.09350	.00000	.00000	1	.27500	1.11750
21	.00044	.00024	.09152	.00000	.00000	2	.32400	1.10750
22	.00045	.00025	.08954	.00000	.00000	3	.16400	1.09750
23	.00047	.00027	.08757	.00000	.00000	4	.13700	1.08250
24	.00049	.00028	.08569	.00000	.00000	5	.11800	1.07750
25	.00052	.00030	.08402	.00000	.00000	6	.11000	1.07250
26	.00054	.00032	.08225	.00000	.00000	7	.10100	1.07050
27	.00057	.00034	.08028	.00000	.00000	8	.08500	1.06850
28	.00060	.00036	.07802	.00000	.00000	9	.07100	1.06650
29	.00064	.00038	.07556	.00000	.00000	10	.05800	1.06350
30	.00067	.00040	.07281	.00020	.00000	11	.03200	1.06050
31	.00072	.00043	.06976	.00020	.00000	12	.02400	1.05750
32	.00076	.00046	.06652	.00030	.00000	13	.02000	1.05450
33	.00082	.00049	.06308	.00030	.00000	14	.02000	1.05150
34	.00087	.00053	.05945	.00040	.00000	15	.01700	1.04850
35	.00096	.00056	.05582	.00050	.00000	16	.01700	1.04550
36	.00101	.00060	.05230	.00060	.00000	17	.01300	1.04250
37	.00107	.00064	.04890	.00080	.00000	18	.01300	1.04250
38	.00115	.00069	.04570	.00100	.00000	19	.01300	1.04250
39	.00125	.00074	.04271	.00120	.00000	20	.01300	1.04250
40	.00138	.00080	.03993	.00130	.50000	21	.01200	1.04250
41	.00152	.00086	.03769	.00140	.50000	22	.01200	1.04250
42	.00170	.00094	.03480	.00150	.50000	23	.01200	1.04250
43	.00191	.00102	.03256	.00170	.50000	24	.01200	1.04250
44	.00215	.00112	.03037	.00200	.65000	25	.01100	1.04250
45	.00243	.00124	.02822	.00240	.65000	26	.01100	1.04250
46	.00275	.00137	.02632	.00280	.32000	27	.00800	1.04250
47	.00310	.00152	.02455	.00320	.32000	28	.00700	1.04250
48	.00349	.00167	.02303	.00360	.42000	29	.00600	1.04250
49	.00390	.00183	.02154	.00450	.43000	30	.01400	1.04250
50	.00434	.00199	.02019	.00540	.43000	31	.01300	1.04250
51	.00480	.00217	.01889	.00670	.42000	32	.01300	1.04250
52	.00528	.00236	.01808	.00800	.42000	33	.02000	1.04250
53	.00578	.00257	.01733	.00670	.42000	34	.01500	1.04250
54	.00629	.00282	.01671	.00540	.42000	35	.01500	1.04250
55	.00681	.00311	.01622	.00670	.47000	36	.01500	1.04250
56	.00735	.00345	.01596	.00920	.34000	37	.01500	1.04250
57	.00793	.00383	.01584	.01040	.32000	38	.01500	1.04250
58	.00858	.00425	.01589	.01140	.32000	39	.00000	1.04350
59	.00932	.00471	.01622	.01040	.32000	40	.00000	1.04550
60	.01018	.00523	.01682	.00400	.32000	41	.00000	1.04850
61	.01118	.00579	.01764	.00330	.27000	42	.00000	1.05150
62	.01237	.00641	.01906	.00250	.27000	43	.00000	1.05450
63	.01377	.00710	.02061	.00250	.27000	44	.00000	1.05750
64	.01541	.00785	.02239	.00300	.27000	45	.00000	1.05750
65	.01732	.00869	.02446	.00400	.44000	46	.00000	1.05750
66	.01953	.00965	.02684	.00000	.32000	47	.00000	1.05750
67	.02200	.01078	.02952	.00000	.32000	48	.00000	1.05750
68	.02470	.01214	.03209	.00000	.32000	49	.00000	1.05750
69	.02757	.01376	.03504	.00000	.42000	50	.00000	1.05750
70	.03059	.01570	.03851	.00000	.50000	51	.00000	
				100000	. 50000	J 1	• 00000	1.05750

ACTUARIAL TABLES AND RATES (JUDGES & LEGISLATORS ASSUMPTIONS)

	- Death	Rates -	Remarriage	Disability	Retirement		Termination	Salary
Age	Male	Female	Rates	Rates	Rates	Dur	Rates	Scale
20	.00042	.00022	.09350	.00000	.00000	1	.27500	1.04750
21	.00044	.00024	.09152	.00000	.00000	2	.32400	1.04750
22	.00045	.00025	.08954	.00000	.00000	3	.16400	1.04750
23	.00047	.00027	.08757	.00000	.00000	4	.13700	1.04750
24	.00049	.00028	.08569	.00000	.00000	5	.11800	1.04750
25	.00052	.00030	.08402	.00000	.00000	6	.11000	1.04750
2 6	.00054	.00032	.08225	.00000	.00000	7	.10100	1.04750
27	.00057	.00034	.08028	.00000	.00000	8	.08500	1.04750
28	.00060	.00036	.07802	.00000	.00000	9	.07100	1.04750
29	.00064	.00038	.07556	.00000	.00000	10	.05800	1.04750
30	.00067	.00040	.07281	.00020	.00000	11	.03200	1.04750
31	.00072	.00043	.06976	.00020	.00000	12	.02400	1.04750
32	.00076	.00046	.06652	.00030	.00000	13	.02000	1.04750
33	.00082	.00049	.06308	.00030	.00000	14	.02000	1.04750
34	.00087	.00053	.05945	.00040	.00000	15	.01700	1.04750
35	.00096	.00056	.05582	.00050	.00000	16	.01700	1.04750
36	.00101	.00060	.05230	.00060	.00000	17	.01300	1.04750
37	.00107	.00064	.04890	.00080	.00000	18	.01300	1.04750
38	.00115	.00069	.04570	.00100	.00000	19	.01300	1.04750
39	.00125	.00074	.04271	.00120	.00000	20	.01300	1.04750
40	.00138	.00080	.03993	.00130	.50000	21	.01200	1.04750
41	.00152	.00086	.03769	.00140	.50000	22	.01200	1.04750
42	.00170	.00094	.03480	.00150	.50000	23	.01200	1.04750
43	.00191	.00102	.03256	.00170	.50000	24	.01200	1.04750
44	.00215	.00112	.03037	.00200	.65000	25	.01100	1.04750
45	.00243	.00124	.02822	.00240	.65000	26	.01100	1.04750
46	.00275	.00137	.02632	.00280	.32000	27	.00800	1.04750
47	.00310	.00152	.02455	.00320	.32000	28	.00700	1.04750
48	.00349	.00167	.02303	.00360	.42000	29	.00600	1.04750
49	.00390	.00183	.02154	.00450	.43000	30	.01400	1.04750
50	.00434	.00199	.02019	.00540	.43000	31	.01300	1.04750
51	.00480	.00217	.01889	.00670	.42000	32	.01300	1.04750
52	.00528	.00236	.01808	.00800	.42000	33	.02000	1.04750
53	.00578	.00257	.01733	.00670	.42000	34	.01500	1.04750
54	.00629	.00282	.01671	.00540	.42000	35	.01500	1.04750
55	.00681	.00311	.01622	.00670	.47000	36	.01500	1.04750
56	.00735	.00345	.01596	.00920	.34000	37	.01500	1.04750
57	.00793	.00383	.01584	.01040	.32000	38	.01500	1.04750
58	.00858	.00425	.01589	.01140	.32000	39	.00000	1.04750
59	.00932	.00471	.01622	.01040	.32000	40	.00000	1.04750
60	.01018	.00523	.01682	.00400	.32000	41	.00000	1.04750
61	.01118	.00579	.01764	.00330	.27000	42	.00000	1.04750
62	.01237	.00641	.01906	.00250	.27000	43	.00000	1.04750
63	.01377	.00710	.02061	.00250	.27000	44	.00000	1.04750
64	.01541	.00785	.02239	.00300	.27000	45	.00000	1.04750
65	.01732	.00869	.02446	.00400	.44000	46	.00000	1.04750
66	.01953	.00965	.02684	.00000	.32000	47	.00000	1.04750
67	.02200	.01078	.02952	.00000	.32000	48	.00000	1.04750
68	.02470	.01214	.03209	.00000	.32000	49	.00000	1.04750
69	.02757	.01376	.03504	.00000	.42000	50	.00000	1.04750
70	.03059	.01570	.03851	.00000	.50000	51	.00000	1.04750
• -						4.	• 00000	1.04/30

EXHIBIT 7

LEGISLATIVE AUDITOR'S REPORT

6

;	Actuarial information for <u>STATE EMPLOYEES' RETIREMENT SYSTEM</u> . (a) Most recent actuarial valuation date: <u>June 30, 1994</u> .
	(b) This valuation sets forth information concerning contributions applicable to the plan fiscal year beginning <u>July 1, 1994</u> , and ending <u>June 30, 1995</u> .
	(c) Data used in this valuation (i) Number of participants as of the valuation date: Active members
	(d) Actuarially required contribution for those systems to which R.S.11:102 applies Funding Method Projected Unit Credit. Unfunded Accrued Liability as of the end of fiscal 1988 1,825,421,035 Amortization Method Increasing Annuity. Remaining Unamortized Portion of the initial unfunded liability
	(f) Average yield on investments last fiscal year
	(g) Actuarial information for accounting purposes (GASB/6 results) Pension Benefit Obligation: (i) Present retirees and beneficiaries

<u>Exhibi</u>	t 7	(Continued)	
		e Auditor's	

Legislative Auditor's Report
(g) Actuarial assumptions used
Interest rate used
Give the name (or source reference) of the particular table used or attach a copy
of the table used for the each of the following. Indicate where appropriate that
no assumption is made with regard to a particular aspect of the valuation.
Males <u>Females</u>
Mortality rates (healthy)
Mortality rates (disabled) See copies of pages 20 - 24 of the 6/30/94
Termination rates <u>Actuarial Valuation Report Attached</u>
Retirement rates
Disability rates
Salary scales
(h) Cost of Living Target Ratio and Funded Ratio of the System: (This section must be
completed by state and statewide retirement systems only).
-
(i) Funded Ratio of the System as of the 1986 fiscal year end
(ii) Number of fiscal years elapsed since the 1986 fiscal year end
multiplied by one-thirtieth of the difference between one hundred
percent and the amount in (6)(h)(i)
(iii) Changes in Funded Ratio due to mergers or changes in methods or
assumptions after the 1986 fiscal year end;
<u>Date of Change</u> <u>Change in Funded Ratio</u>
<u>6/30/87</u> <u>(.03148)</u>
<u>6/30/88</u> .02822
<u></u>
<u>6/30/91</u> (.00781)
Total Change in Funded Ratio
(iv) Number of fiscal years elapsed since the date of each change in
(6)(h)(iii) multiplied by one-thirtieth of the amount of such change
in funded ratio and of opposite arithmetic sign of such change;
Date of Change Amortization of Change
6/30/87 .00735
6/30/88 (.00564)
6/30/89 (,00403)
6/30/91 .00078
Total Amortization of Changes
(v) Target Ratio as of the end of the just completed fiscal year
(Sum of (6)(h) (i) through (iv))
(vi) Actual Funded Ratio of the system as of the just completed fiscal year .61954
(vii) According to my actuarial calculations this system has has not _X met
the target ratio required to grant a cost of living increase to current
benefit recipients.
To the best of my knowledge, the information supplied in item 6 and on statements
attached to item 6, if any, is complete and accurate. In my opinion the assumptions
used are in the aggregate reasonably related to the experience of the system and to
reasonable expectations and represent my best estimate of anticipated experience under
the system.
Date October 5, 1994 Signature of Actuary Garles G. Har
 ()

EXHIBIT A

AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY JUNE 30, 1994

	DATE 6/30	DESCRIPTION	AMTZ.	AMTZ. PERIOD	INITIAL <u>LIABILITY</u>	YEARS REMAIN	REMAINING BALANCE	MID-YEAR PAYMENT
1)	1988	Initial Liability	I	40 1	,825,421,035	35	2,220,624,005	109,304,194*
2)	1989	Experience Gain	I	15(L)	(51,766,931)	35	(48,529,037)	(2,467,488)
3)	1989	Actuarial Assumptio	n I	30(L)	(171,979,344)	35	(177,684,476)	(9,034,475)
4)	1990	Experience Loss	I	15(L)	110,124,801	35	108,188,211	5,500,895
5)	1991	Actuarial Assumptio	n I	30(L)	62,288,922	35	65,612,887	3,336,126
6)	1991	Experience Gain	I	15(L)	(16,696,068)	35	(17,095,940)	(869,253)
7)	1992	Legislative COLA	L	12	66,577,000	10	59,378,621	8,601,429
8)	1992	Change in Liability	I	37	6,064,124	35	1,702,024	86,540
9)	1993	Change in Liability	I	36	(67,422,552)	35	(69,468,198)	(3,532,152)
10)	1994	Change in Liability	I	35	(84,680,987)	35	(84,680,987)	(4,305,656)
TOTAL OUTSTANDING BALANCE					2,058,047,110	106,620,160		
EMPLOYER'S CREDIT BALANCE								
	1992	Contribution Varian	ce L	5	(11,259,859)	3	(7,282,758)	(2,728,395)
	1993	Contribution Varian	ce L	5	2,911,762	4	2,417,901	705,554
	1994	Contribution Varian	ce L	5	2,609,956	5	2,609,956	632,423
		TOTAL OUTS	TANDING	BALANCE			(2,254,901)	(1,390,418)

TOTAL UNFUNDED ACTUARIAL ACCRUED LIABILITY

\$2,055,792,209

*Note: LSU and Unfunded Judges equals 3.192635% of the Initial Liability mid-year payment.

Effective July 1, 1992, Amortization Periods changed in accordance with Act 257.