LOUISIANA STATE EMPLOYEES'
RETIREMENT SYSTEM
JUNE 30, 1992
ACTUARIAL VALUATION

= HALL ACTUARIAL A&&OCIATE\$ =

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

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

October 26, 1992

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, 1992.

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 Coopers and Lybrand, 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 26, 1992 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, 1992	Prior June 30, 1991	Years
I.	Membership Census 1) Retirees	25,602	25,129	24,920
	2) Actives	67,798	70,927	66,711
	3) DROP	538	346	N/A
II.	Annual Benefits	\$ 252,746,768	\$ 237,750,804	\$ 235,696,106
III.	Total Payroll	1,454,370,594	1,368,479,924	1,226,065,067
IV.	Assets	2,802,666,924	2,519,154,734	2,321,259,028
٧.	Experience Account	27,274,847	N/A	N/A
VI.	Investment Yield Realized Income Actuarial Value	10.92% 10.40%	9.96% 10.00%	9.85% 10.27%
VII.	Cost to Fund Annual Pension Accruais (Normal Costs)	187,654,358 12.90%	175,166,466 12.80%	156,222,504 12.74%
VIII.	Unfunded Actuarial Accrued Liability	2,081,841,850	1,982,569,933	1,888,847,501
IX.	Funded Percentage	57.38%	55.94%	55.14%
X.	Funding Requirements to Pay (Mid-year Payment)			
	1) Employee Contribution Rate	115,536,720 7.682%	106,154,511 7.5%	94,982,406 7.5%
	2) Employer Contribution Rate - Current Year	181,016,661 12.0%	185,288,551 13.1%	163,177,125 12.9%
	3) Projected Employer Contribution - Next Year	190,935,676 11.9%	185,436,747 12.3 <b>%</b>	186,259,770 13.8%
The ele-	6 11			

The above funding requirements measure the cost of benefits that were in effect on June 30, 1992, plus Acts of the 1992 Legislative Session which have prospective effects on current active members.

<sup>\*</sup>Excludes funding for COLA granted pursuant to Act 5 of the Third Extraordinary Session.

Board of Trustees October 26, 1992 Page Three

### Current Funding

The Actuarial Valuation for the plan year ending June 30, 1992 discloses a general increase 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:

# CHANGE IN UNFUNDED LIABILITY

Unfunded Liability 6/30/91		\$ 1,982,569,933
INCREASES		, , , , , , ,
Interest on Unfunded Liability	\$ 163,562,019	
Experience Account Allocation	27,274,847	
Cost of Living Benefit	66,577,000	
Experience Loss	30,287,806	
Incurred Increases	287,701,672	
DECREASES		
Investment Gains	54,549,694	
Employer Amtz. Payment	122,620,202	
Employer Credit	11,259,859	
Incurred Decreases	188,429,755	
Unfunded Liability 6/30/92		\$ 2,081,841,850

Board of Trustees October 26, 1992 Page Four

The employer contribution rate established by the Actuarial Forecast Committee for the 1992-1993 plan year was 11.9%. The actual employer contribution rates determined by this valuation for the current plan year is 12.1%, and 12.0% when adjusted for the prior year's employer credit. The current adjusted rate represents a slight change in the required employer's contributions when compared to the projected rates. Since the increase in required contributions is attributable to 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:

<u>1988</u>	1989	<u>1990</u>	<u>1991</u>	1992	5 Yr. Aver.
9.8%	10.1%	10.3%	10.00%	10.40%	10.107

The net actuarial rate of return assumed in the valuation was 8.25%. For the plan year ending June 30, 1992 the net yield to Actuarial Assets was more than the long term Actuarial Investment Assumption used to project benefits. The result was a net investment experience gain of \$54,549,694 above projected 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 \$27,274,847 will be credited to the Experience Account with a like amount used to reduce 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 reduced by \$1,349,082 during the next 37 years. This amortization credit represents a .09% reduction 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 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 1991-1992 plan year, the system suffered a \$30,287,806 experience loss. This loss will increase the employer's contribution by \$1,498,111 during the next fifteen years and represents a .10% increase in the rate projected by the Actuarial Forecast Committee.

Board of Trustees October 26, 1992 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. 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-seven (37) 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
1986	1,136,203	(.9%)
1 <b>987</b>	1,093,997	(3.7%)
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%

During the last five (5) years the aggregate salaries have increased at an annualized rate of 5.86%. If this trend continues during the next five (5) 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 26, 1992 Page Six

For the plan year ending June 30, 1992 the funding target is .64017, which is greater than the current .57379 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, A.S.A., M.A.A.A.

Actuary

CGH/tt

Enclosure

# TABLE OF CONTENTS

		Pagea
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 revenue 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 - 11k
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,	1992		June 30,	ear 1991
			Dollar Amount	% of Salary		Dollar Amount	% of Salary
I. Normal Co (to fund	sts annual pension accruals)						
Active Me	mbers with Complete Data						
b) Disab c) Survi d) Volum e) Expen	ement Benefits ility Benefits vor Benefits tary Termination ses TAL	\$	142,218,886 7,148,991 7,651,007 27,635,474 3,000,000 187,654,358	9.78% .49% .53% 1.90% .20% 12.90%	\$	121,434,956 6,638,642 7,205,686 26,142,182 2,700,000 175,166,466	9.68% .49% .53% 1.90% .20%
II. Actuarial	Accrued Liability						
1) R 2) D 3) S	e Members etirement Benefits isability Benefits urvivor Benefits oluntary Termination		,126,571,048 90,896,980 83,331,971 150,613,185 ,451,413,184		<u>.</u>	,924,481,888 83,400,041 77,923,081 142,009,145 ,227,814,155	
1) Ro 2) Di 3) Si 4) Vo 5) Co 6) Di	ed and Inactive Members egular Retirees disabled Retirees disabled Retirees distrivors distributions Refunded ROP Deferral ROP Deposits		,878,066,370 68,027,959 240,598,093 25,392,850 2,685,887 109,922,882 10,989,439 335,683,480			,763,485,747 106,344,048 215,959,769 12,114,634 5,768,659 67,375,400 2,412,337 173,460,594	
c) SUB TO	TAL	4,	787,096,664			401,274,749	

	t 1 (Continued)	TING ACTUAR	NAL ASSOCIATES ===
Costs,	Liabilities & Contributions		
			Prior Year
		June 30, 1992	June 30, 199
II. A	ctuarial Accrued Liability		Julie 30, 199
	accorded Liability		
, c	) SUB TOTAL (Preceding page)	\$ 4 797 000 000	
		\$ 4,787,096,664	\$ 4,401,274,749
d)	Adjustments to Regular Plan		
	1) Active Judges	99 740 076	•
	2) Active Legislators	88,749,876	86,499,59
	Adjusted TOTAL	8,662,234	11,537,990
_		4,884,508,774	4,499,312,330
III. As	Beets	2 802 666 004	
	_	2,802,666,924	2,516,742,397
TA. Cu	funded Actuarial Accrued		
Li	abilities - Projected Unit Credit*	2,081,841,850	
_		2,001,841,850	1,982,569,933
a)	Change over prior year	99,271,917	
		33,2/1,31/	93,722,432
ь)	Funded Percentage	57.38%	
17 P	-1	J. 130%	55.94%
V • 1200	ployer Contributions		
10	Fund Current Plan Year*		
۵)	Pour 1		
4) 1)	Employer Portion of Normal Cost	78,207,621	70 680 000
7	Amortization Payments	105,537,435	72,653,899
c)	Prior Contribution Variance	(2,728,395)	113,937,915
			A
	<b>30</b>	(2,720,373)	(1,303,263)
	TOTAL Required Contribution		(1,303,263)
	TOTAL Required Contribution	181,016,661	(1,303,263) 185,288,551
			(1,303,263)
		181,016,661 12.0%	(1,303,263) 185,288,551 13.1%
	Plus State Appropriation	181,016,661	(1,303,263) 185,288,551
		181,016,661 12.0% 3,300,996	(1,303,263) 185,288,551 13.1% 3,917,102
T. Dwo	Plus State Appropriation Actuarial Forecast Rate	181,016,661 12.0%	(1,303,263) 185,288,551 13.1%
I. Pro	Plus State Appropriation  Actuarial Forecast Rate  jected Employer Contributions	181,016,661 12.0% 3,300,996	185,288,551 13.1% 3,917,102
I. Pro To	Plus State Appropriation Actuarial Forecast Rate	181,016,661 12.0% 3,300,996	(1,303,263) 185,288,551 13.1% 3,917,102
	Plus State Appropriation Actuarial Forecast Rate jected Employer Contributions Fund Next Plan Year*	181,016,661 12.0% 3,300,996	(1,303,263) 185,288,551 13.1% 3,917,102
a)	Plus State Appropriation  Actuarial Forecast Rate jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Contributions	181,016,661 12.0% 3,300,996 11.9%	(1,303,263) 185,288,551 13.1% 3,917,102 13.8%
a) b)	Plus State Appropriation  Actuarial Forecast Rate  jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments	181,016,661 12.0% 3,300,996 11.9%	(1,303,263)  185,288,551 13.1%  3,917,102  13.8%
a)	Plus State Appropriation  Actuarial Forecast Rate  jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556	185,288,551 13.1% 3,917,102 13.8%
a) b)	Plus State Appropriation  Actuarial Forecast Rate jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments Prior Contribution Variance	181,016,661 12.0% 3,300,996 11.9%	(1,303,263)  185,288,551 13.1%  3,917,102  13.8%
a) b)	Plus State Appropriation  Actuarial Forecast Rate  jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556	(1,303,263)  185,288,551 13.1%  3,917,102  13.8%  77,472,987 118,688,904 (10,725,144)
a) b)	Plus State Appropriation  Actuarial Forecast Rate jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments Prior Contribution Variance	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556 (2,332,509)	185,288,551 13.1% 3,917,102 13.8% 77,472,987 118,688,904 (10,725,144) 185,436,747
a) b)	Plus State Appropriation  Actuarial Forecast Rate  jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments Prior Contribution Variance  TOTAL Projected Contribution	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556 (2,332,509) 190,935,676 11.9%	(1,303,263)  185,288,551 13.1%  3,917,102  13.8%  77,472,987 118,688,904 (10,725,144)
a) b)	Plus State Appropriation  Actuarial Forecast Rate jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments Prior Contribution Variance	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556 (2,332,509) 190,935,676	185,288,551 13.1% 3,917,102 13.8% 77,472,987 118,688,904 (10,725,144) 185,436,747 12.3%**
a) b) c)	Plus State Appropriation  Actuarial Forecast Rate  jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments Prior Contribution Variance  TOTAL Projected Contribution  Plus State Appropriation	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556 (2,332,509) 190,935,676 11.9% 3,449,541	185,288,551 13.1% 3,917,102 13.8% 77,472,987 118,688,904 (10,725,144) 185,436,747
a) b) c)	Plus State Appropriation  Actuarial Forecast Rate jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments Prior Contribution Variance  TOTAL Projected Contribution  Plus State Appropriation cent Payrol1	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556 (2,332,509) 190,935,676 11.9% 3,449,541	185,288,551 13.1% 3,917,102 13.8% 77,472,987 118,688,904 (10,725,144) 185,436,747 12.3%** 4,073,786
a) b) c)  Curr Proj	Plus State Appropriation  Actuarial Forecast Rate  jected Employer Contributions Fund Next Plan Year*  Employer Portion of Normal Cost Amortization Payments Prior Contribution Variance  TOTAL Projected Contribution  Plus State Appropriation	181,016,661 12.0% 3,300,996 11.9% 83,368,629 109,899,556 (2,332,509) 190,935,676 11.9% 3,449,541	185,288,551 13.1% 3,917,102 13.8% 77,472,987 118,688,904 (10,725,144) 185,436,747 12.3%**

<sup>\*</sup>Dollar Amounts reflect estimated payments due mid-year on January 1st per Act 81.

<sup>\*\*</sup>Excludes funding for COLA granted pursuant to Act 5 of the Third Extraordinary Session.

# EXHIBIT 2

# FINANCIAL SUMMARY STATEMENT OF REVENUES AND EXPENSES FOR FISCAL YEAR ENDING

		June 30, 1992	Prior June 30, 1991	YearsJune 30, 1990
<u>OP</u>	ERATING REVENUES:	•		
1.	Contribution Income Member Employer	\$ 109,370,451 205,072,699	\$ 102,446,164 142,951,649	\$ 91,552,972 93,724,467
2.	Other Income Legislative Appropriations Miscellaneous TOTAL CONTRIBUTIONS	3,917,102 6,246,552 324,606,804	3,426,547 5,055,495 253,879,855	3,336,498 3,262,174 191,876,111
3.	Investment Income Realized Income Less, investment expenses TOTAL INVESTMENT INCOME	277,560,124 -3,907,551 273,652,573	226,880,011 -1,612,590 225,267,421	207,570,969 -937,750 206,633,219
4.	Total Revenues	598,259,377	479,147,276	398,509,330
OPE	RATING EXPENSES:			
1.	General Administration Other Expenses	2,973,182 520,988	2,667,230 478,160	2,098,180 479,490
2.	Benefits Paid a) Pension Benefits b) Return of Contrib.	250,765,789 23,820,931	240,622,226 _22,955,119	234,066,890
3.	Total Operating Expenses	278,080,890	266,722,735	26,880,996 263,525,556
NET	INCOME:	320,178,487	212,424,541	134,983,774

EXHIBIT 2 (Continued) Financial Summary

### FINANCIAL SUMMARY STATEMENT OF ASSETS FOR FISCAL YEAR ENDING

ASS	SETS:	June 30, 1992	June 30, 1991	Years
1.	Short Term Assets Cash in Banks			
	Commercial/Certificates	\$ 17,693,855	\$ 587,476	\$ 737,635
	Securities	150,508,461	42,895,391	30,455,734
	occurrere.	0	258,718,293	119,993,709
2.	Bonds (at amortized cost)			•
	U.S. Government Agency	02 562 000	<b>***</b>	
	United States Issues	92,563,992	225,542,518	426,710,507
	Corporate Issues	699,571,900 283,396,171	594,916,253	664,016,754
	Long Term/Financial	362,742,980	345,857,864	174,836,669
		302,742,980	333,270,687	219,619,388
3.	Equities		•	
	Common Stock	828,341,383	400 702 075	
	Foreign Stock	217,399,953	490,793,975	534,201,809
	Preferred Stock	11,442,554	6 200 040	0
	Fixed Assets	5,277,425	6,390,043	5,965,627
	Mortgages - Real Estate	96,266,026	5,436,954	5,648,222
		70,200,020	91,986,767	66,001,640
4.	Receivables - Payables	38,407,736	87,037,728	20,409,316
	TOTAL ASSETS			
	Equities at Cost	2,803,612,436	2,483,433,949	2 260 507 27
	Equities at Market	2,881,522,572		2,268,597,070
		-,002,322,3/2	2,536,978,218	2,359,880,281
	Market Value	2,942,146,597	2,558,068,390	2,353,328,804
RAT	IO: ASSETS/EXPENSES:	9.78	9.30	8.61
INVI	ESTMENT YIELD:			
	Realized Income	10.92%	9.96%	9.85%
	Yield to Actuarial Value	10.40%	10.00%	10.27%
	Five Year Actuarial Value	10.10%	10.00%	10.58%
	Yield to Market Value	13.08%	9.05%	9.66%
	DROP Account Yield	9.90%	N/A	N/A

EXHIBIT 2 (Continued) Financial Summary

### FINANCIAL SUMMARY STATEMENT OF ASSETS FOR FISCAL YEAR ENDING

	June 30, 1992	June 30, 1991	Years June 30, 1990
ACTUARIAL VALUE OF ASSETS:			
TOTAL ASSETS	\$ 2,881,522,572	\$ 2,536,978,218	\$ 2.359.880.281
Change in Unrealized (G/L)		·	,,
Plan Year - 2 (wt. 1/4)	12,354,912	38,491,979	40,436,320
Plan Year - 1 (wt. 2/4)	2,697,378	12,354,912	38,491,979
Plan Year (wt. 3/4)	62,857,846	2,697,378	12,354,912
Actuarial Value of Assets	2,829,941,771	2,519,154,734	2,321,259,028
EXPERIENCE ACCOUNT FUND:			
Prior Year Ending Balance	0	N/A	N/A
Experience Account Allocation	27,274,847	N/A	N/A
Benefit Disbursements	0	N/A	N/A
Accumulated Interest	0	N/A	N/A
Fund Balance - Year End	27,274,847	N/A	N/A
DEVELOPMENT OF ACTUARIAL VALUATION ASSETS:			
Total Fund Assets	2,829,941,771	2,519,154,734	2,321,259,028
Experience Account Fund	27,274,847	N/A	N/A
Valuation Assets	2,802,666,924	2,519,154,734	2,321,259,028

#### 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, 1992		June 30, 1992 June 3		June 30,	1991
	Dollar Aut.	% of Payroll	Dollar Amt.	% of Payroll		
Actuarial Present Value of projected benefits for:						
<ol> <li>Retirees &amp; Beneficiaries</li> <li>Terminated vested members</li> <li>TOTAL</li> </ol>	\$2,307,604,743 28,078,737 2,335,683,480	153% _2% 155%	\$2,155,577,301 17,883,293 2,173,460,594	158% 1% 159%		
Actuarial Present Value of Credited Projected Benefits for active members:						
1) Member Contributions 2) Employer Contributions Vested Poster	728,977,409	48%	674,210,732	49%		
Vested Portion Non-vested Portion TOTAL	1,500,767,157 319,080,728	100% 21%	1,312,863,335 338,777,669	96% 25%		
	2,548,825,294	169%	2,325,851,736	170%		
Total Actuarial Present Value of Credited Projected Benefits	4,884,508,774	324%	4,499,312,330	329%		

The total actuarial present value of credited projected benefits increased by \$385,196,444 from June 30, 1991 to June 30, 1992. There were no changes in benefit provisions during the year. The increase in total Actuarial Present Value of Credited Projected Benefits due to Legislative approved increase in Cost-of-Living benefits for retirees was \$66,577,000. There was a net experience loss of \$1,602,176 after allocating \$27,274,847 of investment income to the Experience Account in accordance with Act 572.

—— HALL ACTUARIAL ASSOCIATES ————

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
1983	1,202,159,339	2,800,646,912	42.9
1984	1,362,152,461	2,783,530,447	48.9
1985	1,520,811,190	3,043,552,222	50.0
1986	1,715,788,614	3,209,233,411	53.5
1987* 1988 1989 1990 1991	1,874,257,838	3,564,219,401	52.6
	2,019,831,530	3,845,252,565	52.5
	2,173,401,501	4,021,932,977	54.0
	2,321,259,028	4,210,106,529	55.1
	2,516,742,397	4,499,312,330	55.9
1992	2,802,666,924	4,884,508,774	57.4

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.

<sup>\*</sup>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

Fiscal Year	Unfunded Actuarial Present Value of Credited Projected Benefits*	Annual Active Member Payroll	Percentage Payroll
1983	1,598,487,573	1,118,060,866	143.0
1984	1,421,377,986	1,125,544,718	126.3
1985	1,522,741,032	1,146,506,762	132.8
1986	1,493,444,797	1,136,202,813	131.4
1987* 1988 1989 1990 1991	1,689,961,563	1,093,997,409	154.5
	1,825,421,035	1,111,015,208	159.0
	1,848,531,476	1,141,080,541	162.0
	1,888,847,501	1,226,065,067	154.1
	1,982,569,933	1,368,479,924	144.9
1992	2,081,841,850	1,454,370,594	143.1

<sup>\*</sup>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.

== HALL ACTUARIAL A&&OCIATE& =

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 Year	Retirees and Survivors	Terminated Vested Members	Current Member. Contr.	Actives Emplyr. Contr.	Net Assets Available for Benefits	Per b (1)	centage y Net A (2)	Cove	red (4)
1987 1988 1989 1990 1991	2202.2 2017.7 2164.7 2088.0 2155.5	31.6 34.6 23.8 20.2 17.9	494.0 539.1 574.3 615.4 674.2	836.4 1,253.8 1,259.1 1,486.4 1,651.6	1874.3 2019.8 2173.4 2321.2 2516.7	85.1 100. 100. 100.	0. 6.1 100. 100.	0. 0. 36.6 34.6 50.9	0.
1992	2307.6	28.1	728.9	1,819.8	2802.7	100.	100.	64.1	0.

<sup>\*</sup>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.

HALL ACTUARIAL ASSOCIATES ———

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>Total</u>
Year	Contribution	Contribution	Income	
1983 1984 1985 1986 1987 1988 1989 1990 1991	78,280,970 81,484,685 82,716,304 83,300,765 80,984,576 81,197,631 81,925,366 92,339,927 104,020,927	106,583,169 107,174,862 119,696,836 124,935,186 121,880,055 125,430,030 134,314,360 99,536,184 149,859,389	109,111,393 115,686,648 143,986,873 183,191,469 183,843,426 160,911,687 181,179,170 206,633,219 225,267,421 273,259,377	293,975,532 304,346,195 345,400,013 391,427,420 386,708,057 375,065,821 397,418,896 398,509,330 479,147,276

# Expenses by Type

Fiscal Year	Benefits	Refunds	Administrative Expenses**	<u>Total</u>
1983 1984 1985* 1986 1987 1988 1989 1990	114,083,975 131,705,715 163,504,275 175,141,258 202,019,494 223,013,862 228,603,084 234,066,890 240,622,226	14,330,594 17,514,050 17,844,634 19,929,641 24,736,748 24,792,168 32,548,038 26,880,996 22,955,119 23,820,931	3,603,662 1,488,420 5,392,375 1,379,097 1,482,591 1,904,259 2,267,848 2,577,670 3,145,390	132,018,231 150,708,185 186,741,284 196,449,996 226,756,242 249,710,289 263,418,970 263,525,556 266,722,735

<sup>\*</sup>Beginning in 1985, expenses for professional investment advisory services are treated as an offset to Investment Income.

<sup>\*\*</sup>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 cellar 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 20,122 records for terminated non-vested members due a refund. Finally, 741 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:

	1992 Census	1991 <u>Census</u>
Active Members Regular Retirees Disability Retirees Survivors Vested & Reciprocals Due Refunds DROP Participants	67,798 19,730 1,035 4,096 741 20,122 538	70,927 18,876 1,910 3,951 392 13,367 346
TOTAL	114,060	109,769

# = HALL ACTUARIAL ASSOCIATES =====

MEMBERSHIP PROFILE
CATEGORIZED BY AGE AND YEARS EMPLOYED

CELLS DEPICT - MEMBER COUNT TOTAL SALARY STATE EMPLOYEES' SYSTEM ACTIVE REGULAR MEMBERS

VALUATION DATE 6/30/92

Age/Years	: (0-1)	[1-5)	[5-10)	[10-15)	[15-20]	[20-25)	[25-30)	[30-35)	[35- )	: Total	•••
[ 0 - 19)	: 22	7 1			· · · · · · · · · · · · · · · · · · ·			********	••••••	• • • • • • • • • • •	• • •
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	: 40715532	2 62483975	19680423	4656000	17987	-	•	•		: 6416	
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[35 - 39)	: 1715	2688	1879	3271	1796	112		0	•	: : 11464	:
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	•						, , , ,	v	U	:209511793	:
[40 - 44)	: 991	2026	1766	2231	2462	1167	94	0	2	. 10736	:
	: 2/09/904	39972980	38133238	54092826	70752956	33550083	2556330	0	73150	: 10739 :266229475	:
[46 40\	:								/3:30	:2002234/5	:
[45 - 49]	: 662	1309	1280	1534	1366	1167	787	40	n	: : 8145	:
	1904/064	26020302	27886080	36355800	36451710	35095191	23317236	1090960	0	: 8145 :205264343	:
[50 - 54)										. 203204343	:
[30 - 54)	: 360 : 10450000	799	820	1143	1011	<i>7</i> 71	860	184	٥	· 5957	:
	: 10458000 :	15689963	17408600	25762077	25336671	20669739	25683900	5765640		:147023737	
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233	. 6315 <b>08</b> 0	11070720	515	913	774	542	306	125	50	÷ 4017	•
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[70 - 74) :	7 333410	4	4	47	42	•				:	:
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					-1/V6E330	1272023/	04932149	13712290	3476831	:1432899472	

AVERAGES : At

Attained Age 41.10 Service Years 9.47 Active Salary 21,346

# HALL ACTUARIAL ASSOCIATES ———

MEMBERSHIP PROFILE CATEGORIZED BY AGE AND YEARS EMPLOYED

STATE EMPLOYEES' SYSTEM ACTIVE LEGISLATORS

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/92

Age/Years :		[1-5)	[5-10)	[10-15)	[15-20)	[20-25)	[25-30)	[30-35)	[35- )	: To	tai	:
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[30 - 34) :	6	5	1	0	0	0	•		_	:		:
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[35 - 39) :	6		3	2	0	0	0	0	0		10	:
:	171552	84336	82275	51750	0	0	Ö	0	0		15 913	
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. 147 - 447	248180	1 11407	8	4	3	0	0	o ·	0	•	26	•
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45 - 49) :	2	4	5	4	-	_	_			:		:
:	59112	81240	134850	107924	7 191177	3	0	0	0	:	25	
:			10100	107324	1311//	81525	0	0	0	: 655	828	:
50 - 54) :	3	3	3	4	3	2	1	1	•	:		:
:	91320	48165	80100	104744	88404	51826	25200	26550	0	:	20	
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Total :	933142	421003	624640	15	14	7	4	5	1	: 1	24 :	
	933142	******	U£7040	37/334	38/581	187126	112767	153280	52908	: 32714	39 :	

AYERAGES :

Attained Age 46.65

Service Years 9.49 Active Salary 22,620

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MEMBERSHIP PROFILE CATEGORIZED BY AGE AND YEARS EMPLOYED

STATE EMPLOYEES' SYSTEM ACTIVE JUDGES

CELLS DEPICT - MEMBER COUNT

VALUATION DATE 6/30/92

TOTAL SALARY

Age/Years :	(0-1)	[1-5]	[5-10)	[10-15)	[15-20)	[20-25]	[25-30)	[30-35)	[35- )	••••	Total	•••
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[35 - 39) :	-	22	_	2	0	0	0	0	•	:		:
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[40 - 44) :	•						•	v	0	:	2265960	:
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[45 - 49) :	0	18	_						•	:	0013000	•
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[50 - 54) :	0	9	6	6	10	<u> </u>				:		:
:	0	724833	487476	505464	10 815950	347400	1	0	0	:	36	:
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[55 - 59) :	0	3	5	9	12	14	9	,	_	:		:
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:	/18/86	5802769	3384463	5377785	3464279	2443504	1491963	999705	251852		: 296 - 303E10e	

AVERAGES: Attained Age 51.52 Service Years 12.71

Active Salary 79,113

# HALL ACTUARIAL ASSOCIATES =

MEMBERSHIP PROFILE CATEGORIZED BY AGE AND YEARS EMPLOYED

STATE EMPLOYEES' SYSTEM ACTIVE WILDLIFE AGENTS

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/92

*********	(0-1)	LT-5)	[5-10]	[10-15)	[15-20)	[20-25)	[25-30)	[30-35)	[35- )	• • •	: Total	:
[ 0 - 19)	0					0	· · · · · · · · · · · · · · · · · · ·	••••••		• • •	• • • • • • • • •	••
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[25 - 29) :				•	0	0	0	0	0	)		:
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[30 - 34) :	6	9	8	9	0	•	_		-	:		:
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[35 - 39) :			3	16	• •	0	0	0	0	•	31	:
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50 - 54) :	-	•	1	4	6	3	0	•	_	:		:
:	44002	0	21537	111408	176094	100338	Ö	0	0		15 : 453379 :	
55 - 59) :	0	0	2	•	_			•	·	:	4533/9	<u>.</u>
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60 - 64) :	0	. 0	0	0	0	0	0	0	0	:	0:	
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65 - 69) :	0	0	0	0	0		_			:	:	
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: 70 - 74) :	^	_	_		•	•	Ū	U	U	:	0:	
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	601102	713650	783793	1362235	1202661	559284	Ö	0	0		206 : 5222725 :	

AVERAGES :

Attained Age 39.21 Service Years 10.26

Active Salary 23,894

# = HALL ACTUARIAL ASSOCIATES ----

MEMBERSHIP PROFILE
CATEGORIZED BY AGE AND YEARS EMPLOYED

STATE EMPLOYEES' SYSTEM CORRECTIONS before 1986

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/92

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:
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[35 - 39)	: 0	0	129	198	117	7	0	0	0	: 451 :
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[40 - 44)	: 0	0	131	148	134	41	o	1	0	: : : : : : : : : : : : : : : : : : :
	: 0	0	2744843	3719092	3979666	1383176	ő	31581	-	: 11858358 :
[45 - 49)	: 0	0	82	104	70	31	13	0	•	: :
_	: 0	ō	1760212	2585544	1993110	1079358	476151	0	31330	: 301 : : 7925705 :
[50 - 54)	: 0	0	63	70	43	10	10	0	0	: : : : : : : : : : : : : : : : : : :
	: 0	0	1359855	1715140	1132491	297220	341910	0		: 4846616 :
[55 - 59)	: 0	0	43	70	37	9	2	2	0	: : : : : : : : : : : : : : : : : : :
	: 0	0	874835	1682100	952269	235053	54710	79178	ő	
[60 - 64)	: 0	0	19	32	15	4	2	2	1	: : 75 :
	: 0	0	399532	752320	372645	113448	63276	29610	50397	: 1781228 :
[65 - 69)	: 0	0	1	4	2	2	0	0	1	: 10:
	: 0	0	19790	91688	46098	80902			53398	: 291876 :
[70 - 74)		0	0	2	0	n	2	0	0	: 4:
	: 0	0	0		0 0	0 0	61360	0	0	
Total	: 0	0	750	811	441	104	29	•••••• 5	3	: 2143 :
	: 0	0	15627645	19991399	12197979	3384450	997407	140369		: 52474374 :

AVERAGES :

Attained Age 42.48

Service Years 12.51 Active Salary 24,486

# HALL ACTUARIAL ASSOCIATES ———

MEMBERSHIP PROFILE
CATEGORIZED BY AGE AND YEARS EMPLOYED

STATE EMPLOYEES' SYSTEM CORRECTIONS after 1986

CELLS DEPICT - MEMBER COUNT TOTAL SALARY

VALUATION DATE 6/30/92

Age/Years :	(0-1)	[1-5)	[5-10)	[10-15)	[15-20]	[20-25)	[25-30)	[30-35)	[35-	)	: Total	:
[ 0 - 19) :	<del>-</del>		0	0	0	0	0	0	*****	0	•	
:	116892	0	0	0	0	0	0	Ō			: 116892	
20 - 24) :	285	384	1	0	0	0	0	•		_	:	:
:	5962200		15772	Ö	Ö	0	0	0		0	: 670 : 12180340	
: [25 - 29) :	268	545	1	0	0	•	•	_			:	:
	7824528	9223035	21464	0	0	0	0	0		-	: 814 : 17069027	
:							_	•		•	: 17003027	:
30 - 34) :		321	40	0	0	0	. 0	0		0	: 535	:
:	5163276	5378034	722760	0	0	0	0	0		0	: 11264070	
35 - 39) :	132	273	20	0	0	0	0	0		0	: : 425	:
:	3773352	4682769	367640	0	0	0	Ö	0		-	: 8823761	
: (40 - 44) :	97	203	18	0	0	0	•	•		_	:	
	2995942	3554936	338148	Ö	0	0	0	0			: 318 : 6889026	
							•	•		٠	: 0003020	:
45 - 49) :		124	12	0	. 0	0	0	. 0		0	: 201	:
:	2097030	2146316	218832	0	0	0	. 0	0		0	: 4462178	:
50 - 54) :	37	68	11	0	0	0	0	0		0	: : 116	:
:	1007732	1147432	191609	0	0	0	Ö	Ö		0	: 2346773	
55 - 59) :	13	39	16	0	0	0	•	•		_	:	:
:	389922	690768	290176	0	0	0	0	0		0	: 68 : 1370866	
: :n :a) :		_	_					•		•	:	
60 - 64) :	612032	6	0	0	0	0	0	0		0	: 22	
:	012032	101460	0	0	0	0	0	0		0	: 713492	:
65 - 69) :		0	0	0	0	0	0	0		0	: : 1	:
:	46000	0	0	0	0	0	0	Ŏ		0	46000	
70 - 74) :	3	1	0	0	0	0	0	•		•	:	:
<b>‡</b>	110568	16601	Ō	ŏ	ő	0	0	0		0 :	: 4 : 127169	:
Total :	1004	1064	110			••••••	•••••••	• • • • • • • • • • • • • • • • • • • •	•••••	• • • •		•
	30099474		119 2166401	0	0	0	0	0		0 :	3177	:

AVERAGES: Attained Age 33.14

Service Years 1.97 Active Salary 15,851

# HALL ACTUADIAL ASSOCIATES ———

MEMBERSHIP PROFILE CATEGORIZED BY AGE AND YEARS RETIRED

STATE EMPLOYEES' SYSTEM ALL REGULAR RETIREES

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/92

·····	• (0-1)	L1-2)	[2-3)	[3-4)	[4-5)	[5-10)	[10-15)	[15-20)	[20- )	:	Total	•
[ 0 - 39}	: 2	1	0	0	1	1			• • • • • • • • •		••••••	• 1
	30268	8008	0			•	•	) o		! :	6 64539	:
[40 - 44]	: : 2	4	_	_					3403	•	04039	
• , , ,	. 54581	47754	3 32688		_	•	•	) 0	0	) :	13	:
	:	7//37	32000	13644	21615	15326	• •	) 0			185611	
[45 - 49]	: 19	7	7	7	2	26		_		:		:
;	372341	112411			30652	20 355726		0			68	
F.C	•				50052	3337 20	•	0	0	:	1079192	:
L50 - 54) ;	42			30	16	360		0		:		:
:	879459	474343	561578	514865	291006	5962572	40972	U	_		514	
:   55 _ 501	87							•	U	•	8724796	:
. , ,	1381934			108	57	1317	32	2	0	•	1799	•
•	1301334	1597008	1749480	1734690	1133289	19746821	417929	11717			27772871	
[60 - 64) :	285	257	200	254								:
:	2960893	2787786	2963214	2976220	1702567	1871	337	48		•	3504	:
:			-300214	20/0323	1793567	25501000	4201867	369409	63579	: 4	3517649	:
65 - 69) :		172	229	345	197	2371	970	205		:		:
:	1512450	2029792	2102807	3095444	1967695	26629341	10930740	205 2081576	17		4547	
: 70 - 741 •	27							-	02017		0432466	:
, (4)	422124	48		94	74	1666	1648	437	33	•	4091	:
•	426124	796213	664466	1001625	956396	17819919	15629625	4862901		-	2352424	
75 - 79) :	' 1	2	2	•	_					:		:
:		-	18036	3 35010	7	372			129	:	2686	
:			10000	33010	102070	4145058	9555634	8299506	1023089	: 23	3224334	:
80 - 84) :	0	0	0	1	1	12	100	1108		:	;	:
:	. 0	0	0		8316	237381	1128552		377	-	1600 :	
: 35 - 89) :	_		· ·				***************************************	014100/	2491390	: 12	2028400 :	:
. 169 - 69	0	0	0	0	0	1	5	142	537	•	685 :	
•	U	0	0	0	0	35525		1145962	3073064			
0 - 99) :	0	0	1	•	_					:	•	
:	0	Õ	8107	0	0	0	0	10	206	:	217 :	
••••••	•••••	••••		_	•	0	0	109711	1159737	: 1	277556 :	
Total :	606	619	724	843	508	7000	4170	0040	••••••••	••••	•••••	
:	7630702	7882599	8204589	9396553	6309925 16	733 0102220	41042000	2940 25022451	1313	:	19730:	

AVERAGES: Attained Age 69.80 Years Retired 10.08

Years Retired 10.08 Annual Benefit 10,894

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MEMBERSHIP PROFILE CATEGORIZED BY AGE AND YEARS RETIRED

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT STATE EMPLOYEES' SYSTEM ALL DISABILITY BENEFITS

VALUATION DATE 6/30/92

********	. (0-1)	L1-2)	[2-3)	[3-4)	[4-5)	[5-10)	[10-15)	[15-20}	[20- )	: Total
[ 0 - 39) ;	7	10	6	9					•	· IULAI
:	42186		•	44616	•	-	0	0	0	: 45
	1		20007	77010	29930	46036	0	0	0	: 250815
40 - 44) :	11	20	7	11	4					:
:	79531	148960		79398			2	•	0	: 77
				, , , , ,	20474	144878	11248	0	0	: 546162
45 - 49) :	25		25	23	18	56				:
:	222628	149049	196707	151795				3	0	: 183
; EO P41						7707/3	75211	11262	0	: 1377881
30 - 54) :	31		34	30	25	75	28	_		:
:	274454	243282	293853	250770	174036		204031	-		: 261
: : EA) .						0.0000	204031	27712	1672	: 2048419
. (86 - 66	21		28	44	29	133	56	10	_	:
:	152171	387251	165956	310950	196244	1043146	365709	13	1	
: :0 64\ .	2						303703	66577	4904	: 2692911
0 - 64) :				1	5	34	15	7	_	:
•	28359	17399	18594	6609	57412	323514	124899	25841	0	: 69
: 5 - 69) :	_						127033	23841	0	: 602632
J - 09/ ;	0	0	0	0	0	3	5	2	_	:
:	0	0	0	0	0	24607	34761	8757		: 10
) - 74) :	•	_				,	54701	0/3/	0	: 681 <i>2</i> 6
•	0	0	0	0	0	0	3	8		:
•	0	0	0	0	0	0	39487	48430	0	: 11 :
· · - 79) :	0	_	_				35 (5)	70700	0	: 87918 :
	0	0	0	0	0	0	1	4	3	
•	U	0	0	0	0	0	4620	22037	12290	8:
- 84) :	0	0	_					-100,	12230	38949 :
:	0	0	0	0	0	0	0	0	1:	
:	·	U .	0	0	0	0	0	Ŏ	3069	
- 89) :	0	0		_				•		3009 ;
:	Ö	0	O O	0	0	0	0	0	0 :	0 :
:	_	•	U	0	0	0	0	0	0 :	- •
- 99) :	0	0	•	•	_				:	٠.
:	0	0	0	0	0	0	0	0	0 :	0:
,,,,,,,,,	- • • • • • • • • • • •	•		0	0	0	0	0	0 :	0:
otal :	97	128	103	118	••••••	•••••••	• • • • • • • • • •	••••••		• • • • • • • • • • •
:		1005305	757466	844140	85	332	123	43	6 :	1035 :
• • • • • • • • •	• • • • • • • • • •			UTT 1 TU	608849	2609264	859970	210620		7716886 :

AVERAGES :

Attained Age 53.27 Years Retired 5.84

Annual Benefit 7,455

# HALL ACTUARIAL ASSOCIATES =====

MEMBERSHIP PROFILE CATEGORIZED BY AGE AND YEARS RETIRED

STATE EMPLOYEES' SYSTEM ALL SURVIVOR BENEFITS

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/92

Age/Years :	(0-1)	[1-2)	[2-3)	[3-4)	[4-5)	[5-10)	[10-15)	[15-20)	[20- )	: Total	• •
[0-39):	29	29	10	11			******	• • • • • • • • • •	•••••••	••••••	
:	619716	371592	167523	134347					5 20636	: 148 : 1983868	:
[40 - 44) :	1		_							:	•
		0	•	_		27	13	2	0	: 61	•
•	37000	U	17067	85537	146793	344336	129605	8982	0		
[45 - 49) :	2	8	5	11	10					:	
:	42682	65208				53	• • •				:
:			22000	143003	110340	602837	137537	74331	10772	: 1279359	:
[50 - 54):	15	12	16	13	6	70	20	12	_	:	:
:	235742	124637			75388	769316	26 <b>4999</b>		5		
							204333	0/230	18232	: 2010119	:
[55 - 59) :		15	9	13	10	110	72	34	5	: 270	:
:	193256	136599	119006	155231	147073	1035627		220172	15890	: 279 : 2519348	
: [60 - 64) :	•	_							10030	: 2313340	
100 - 64) :		5		12		169	146	85	10	· 458	
•	88901	43023	121506	97999	118845	1570550	1046837	503800	38735		
[65 - 69) :	6	3		_						:	:
:	85412	24174	10000	•	• •		247	173	35	: 679	:
:	03412	241/4	19280	77473	207655	1668853	1881332	1048564	164786		
[70 - 74) :	7	4	1	6	-					•	:
:	35576	77842	6 <b>282</b>	68 <b>4</b> 93	6328 <b>6</b>	100	251	289	81		
:		. –		00433	03200	870198	1685875	1647239	398080	: 4852875	:
[75 - 79) :	0	2	0	1	0	33	157	240	145	:	:
:	0	19851	0	3327	Ö	271 <b>288</b>	1093123	342 1966988	135		
:					•	277200	1030120	1300300	648197	4002778	:
[80 - 84) :	1	0	0	1	0	6	36	182	227	: : 453 :	; -
•	8895	.0	0	5766	0	41921	217668	1052495	1072313		
: [85 - 89] :	•	_							1072313	2333000	í
.05 - 65) :	0	0	0	0	0	0	8	31	177	216	,
•	U	0	0	0	0	0		176205		1042910	
90 - 99) :	0	•	•	_					:		:
:	0	0	0	0	0	0	1	9	74	84	:
•••••	• • • • • • • • • • • • • • • • • • • •	•	0	0	0	0	3540	49371	334749	387661 :	
Total :	72	78	59	81	86	790	007	1176		•••••••	1
:	1369864	862930		930851	1016728	755Q415	7101 201	11/0	757 : 3539518 :	4096	

AYERAGES :

Attained Age 68.83 Years Retired 14.56 Annual Benefit 7,343

# HALL ACTUARIAL ASSOCIATES ———

MEMBERSHIP PROFILE
CATEGORIZED BY AGE AND YEARS RETIRED

STATE EMPLOYEES' SYSTEM DROP PARTICIPANTS

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/92

: Total	:	20- )	[15-20)	[10-15)	<u>[5-10]</u>	[4-5]	[3-4]	[2-3)			lge/Years :
: 0	••••		0	0	0	0	0	0	0	0	0 - 39) :
: 0	:	Ö	Ŏ	0	0	0	0	0	0	0	:
:	:							_	_	_	40 441 .
: 0	:	0	0	0	0	0	0	. 0	0	0	40 - 44) :
: 0	:	0	0	0	0	0	0	0	. 0	0	:
:	:	•	0	0	0	0	0	0	0	0	45 - 49) :
•	:	0	0	0	0	Ŏ	0	0	0	0	•
	:	·	·	•	_	_					
· 53	:	0	0	0	0	0	0	0	26		50 - 54) :
	:	0	0	0	0	0	0	0	557243	669854	:
:	:		0	0	0	0	0	0	80	58	55 - 59) :
	:	0	0	0	0	Ŏ	Ō	Ŏ	1795288	1547823	
. 3343111	•	U	•	·	•	•	•				:
: 195	:	0	0	0	0	0	0	0	110	85	
	:	Ö	Ō	0	0	0	0	0	1740335	166797 <del>6</del>	:
:	:					•					:
: 131	:	0	0	0	0	0	0	0	84		65 - 69) :
2368393	:	0	0	0	0	0	0	0	1358920	1009472	
;	:	_	_	•	_	0	0	٨	14	6	70 - 74) :
	:	0	0	0	0	0	0	n	192837	195970	
388808	:	0	0	v	U	v		•			:
; • •	:	0	0	0	0	0	0	0	1	0	75 - 79) :
-		-	0	0	Ö	Ō	0	0	17461	0	:
· 11701	•	•	•								:
0	:	0	0	0	0	0	0	0	0	0	30 - 84) :
. 0	:	0	0	0	0	0	0	0	0	0	:
1	:				_	_			٨	0	: 35 - 89) :
. 0	:	0	0	0	0	0	0	0	0	0	
. 0	:	0	0	0	0	0	0	U	٠	•	:
	:		0	0	0	0	0	0	0	0	90 - 99) :
. 0	:	0	0	0	ŏ	Ö	ŏ	Ŏ	ō	0	:
	• • • •		*******	*******	• • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	••••••	••••••	•••••••	**************************************
538	:	0	0	0	0	0	0	0	315	223	Total :
10753184	: 1	0	0	0	0	0	0	0	566 2087	5091097	:

AVERAGES :

Attained Age 61.89 Years Retired 1.04 Annual Benefit 19,987

# 

MEMBERSHIP PROFILE
CATEGORIZED BY AGE AND YEARS EMPLOYED

STATE EMPLOYEES' SYSTEM TERMINATED VESTED

CELLS DEPICT - MEMBER COUNT TOTAL BENEFIT

VALUATION DATE 6/30/92

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	0	0	0	ō	_	_	0
: 20 - 24) ;	0	0		0	•	-	_	_		:	
:	Ŏ	Ō	0	0	0	3006	0	0	0	:	1 3006
:					-	3333	J	•	v	:	3000
25 - 29) :	0	0	0	1	0	0	0	0	0	:	1
:	0	0	0	4411	0	0	0	0	0	:	4411
0 - 34) :	0	0	1	25	3	0	0	0	0	:	29
:	0	0	445	123225	13173	0	Ö	Ö	Ö	:	136843
· 5 - 39) :	0	0	0	53	41	3	0	0	•	:	4-
:	0	Ö	Ö	304803	265229	8637	0	0	0	:	97 578669
:		_					_	•	·	:	370003
) - 44) :	0	110	0	46	79	19	6	0	0	:	151
:	U	112	0	312386	612171	178448	38256	0	0	:	1141373
5 - 49) :	0	1	0	27	50	35	15	0	0	:	128
:	0	394	0	175797	477100	344645	154410	0	Ŏ	-	1152346
· ) - 54) :	0	0	1	32	37	30	35	•	•	:	
:	0	0	709	244544	349502	304530	.337400	6 82416	0	:	141 1319101
: 5 - 59) :	,	•	_							:	.0.5.0
, - <del>33</del> , : :	0	0 0	0	36 1 <b>7899</b> 2	30 198210	21	7	10	8	:	112
:	•	J	v	170332	130210	173061	58436	115030	28544	:	752273
) - 64) :	. 0	0	0	8	8	. 6	8	4	3	:	37
:	0	0	0	82256	57144	47724	44144	73508		:	314265
5 - 69) :	0	0	O	3	2	6	5	•	_	:	
:	Ō	Ō	Ŏ	15051	15618	42000	44130	0	5 31505	:	21 : 148304 :
:	_		_	•				·		:	110004
) - 74) :	0 0	0 0	0	5074	0	4	7	5	6	:	23 :
•	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	0	6274	0	50732	29309	18125	22110	:	126550
Total :	0	2	2	232	250	125	83	25	22	:	741 :
:	0	506	1154	1447739	1988147	1152783	706085	289079	91648		5677141 :

AVERAGES :

Attained Age 49.20 Service Years 18.90

Annual Benefit 7,661

#### EXHIBIT 5

# PRINCIPLE PROVISIONS OF THE PLAN (Including Acts of 1990 Regular Session)

#### EFFECTIVE DATE:

July 1, 1947; last amendment date - July 1, 1992.

#### 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 board from which any employee receives his compensation.

# PARTICIPATION:

Conditions 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 member-ship 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.

### 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 fiscal year. Fractional service shall be rounded to the next highest 1/10th, not to exceed 100 percent per year.

= HALL ACTUARIAL ASSOCIATES ====

EXHIBIT 5 (Continued)
Principle Provisions

# 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 regular interest.
- 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 Employer and Employee contributions plus compound interest on compensation member would have received for such period.
- 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	107	of	a Year
27	- 52	Days			a Year
53	- 78	Days			a Year
79	- 104	Days			a Year
105	- 130	Days			a Year
131	- 156	Days			a Year
157	- 182	Days			Year
183	- 208	Days			Year
209	- 234	Days			Year
235	- 260	Days			Year

### 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, 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.

EXHIBIT 5 (Continued)
Principle Provisions

# 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 1969.

# EMPLOYEE CONTRIBUTIONS:

Individual Employees Agents of DOC Wild Life Agents Legislators, Judges	7% of Compensation 8.5% of Compensation 8% of Compensation 11% of Compensation	9.0%
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# 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.
- 2. Certain members of the Department of Public Safety and Corrections, 20 years of accredited service at any age (age 50 if employed after August 15, 1986, regardless 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.

EXHIBIT 5 (Continued)
Principle Provisions

- 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 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:

AGE	MUMIXAM	AGE	MAXIMUM	AGE	MAXIMUM
48 49 50 51	\$20,651 22,601 24,753 27,135	56 57 58 59	\$43,584 48,085 53,125 58,782	64 65 66 67	\$100,202 112,221 122,922 135,015
52 53 54 55	29,770 32,694 35,941 39,554	60 61 62 63	65,148 72,331 80,460 89,689	68 69 70	148,738 164,391 182,311

= HALL ACTUARIAL A&&OCIATES ===

EXHIBIT 5 (Continued)
Principle Provisions

### 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:

Retirement Date	Increase
7/2/78 - 7/1/79	3%
7/2/77 - 7/1/78	<b>6%</b>
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. 65 or older 7% of benefit of October 1, 1977 or initial benefit if retired after October 1, 1977, but not greater than \$700 annually.
- 3. Disability retirees and surviving children 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 January 1, 1992, 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.

= HALL ACTUARIAL A&&OCIATE& =====

EXHIBIT 5 (Continued)
Principle Provisions

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:

#### Eligibility:

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:

#### Eligibility:

- 1. Surviving spouse with minor children, legally married two years prior to date of death of a 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.
- 2. Surviving 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.
- 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).

— HALL ACTUARIAL A&&OCIATE& ———

EXHIBIT 5 (Continued)
Principle Provisions

#### 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 (2) 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.

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

 $\frac{\text{Option 4}}{\text{opproval}}$  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.

=== HALL ACTUARIAL A&&OCIATE& =

EXHIBIT 5 (Continued)
Principle Provisions

# 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. 5 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 Bleventh 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.

—— HALL ACTUARIAL ASSOCIATES —

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
lst year	1.3x	1.6x
2nd year	1.0x	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

### 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."

= HALL ACTUARIAL A&&OCIATE& =====

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 \$3,000,000 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 EMPOLYEES' ASSUMPTIONS)

		Rates -	Remarriage	Disability	Retirement		Termination	Salary
Age	Male	Female	Rates	Rates	Rates	Dur	Rates	Scale
20							WE F. C. 2	Scale
20	.00041	.00022	.09350	.00000	.00000	1	.27500	1.11750
21	.00043	.00023	.09151	.00000	.00000	2	.32400	1.10750
22 23	.00045	.00024	.08954	.00000	.00000	3	.16400	1.09750
	.00047	.00026	.08756	.00000	.00000	4	.13700	1.08250
24	.00049	.00028	.08568	.00000	.00000	5	.11800	1.07750
25	.00051	.00029	.08402	.00000	.00000	6	.11000	1.07250
26	.00054	.00031	.08225	.00000	.00000	7	.10100	1.07050
27	.00056	.00033	.08027	.00000	.00000	8	.08500	1.06850
28	.00060	.00035	.07802	.00000	.00000	9	.07100	1.06650
29	.00063	.00038	.07555	.00000	.00000	10	.05800	1.06350
30 31	.00067	.00040	.07281	.00020	.00000	11	.03200	1.06050
	.00071	.00043	.06976	.00020	.00000	12	.02400	1.05750
32	.00076	.00046	.06651	.00030	.00000	13	.02000	1.05450
33	.00081	.00049	.06308	.00030	.00000	14	.02000	1.05150
34	.00087	.00052	.05945	.00040	.00000	15	.01700	1.04850
35	.00095	.00055	.05581	.00050	.00000	16	.01700	1.04550
36	.00100	.00059	.05230	.00060	.00000	17	.01300	1.04250
37	.00107	.00063	.04890	.00080	.00000	18	.01300	1.04250
38	.00115	.00068	.04569	.00100	.00000	19	.01300	1.04250
39	.00125	.00073	.04271	.00120	.00000	20	.01300	
40	.00137	.00079	.03992	.00130	.50000	21	.01200	1.04250
41	.00152	.00086	.03769	.00140	.50000	22	.01200	1.04250
42	.00169	.00093	.03479	.00150	.50000	23	.01200	1.04250
43	.00190	.00102	.03255	.00170	.50000	24	.01200	1.04250
4.4	.00214	.00112	.03037	.00200	.65000	25	.01100	1.04250
45	.00242	.00124	.02821	.00240	.65000	26	.01100	1.04250
46	.00274	.00137	.02631	.00280	.32000	27	.00800	1.04250
47	.00310	.00151	.02455	.00320	.32000	28	.00700	1.04250 1.04250
48	.00348	.00167	.02302	.00360	.42000	29	.00600	1.04250
49	.00390	.00183	.02154	.00450	.43000	30	.01400	1.04250
50	.00434	.00199	.02018	.00540	.43000	31	.01300	1.04250
51	.00480	.00216	.01888	.00670	.42000	32	.01300	
52	.00528	.00235	.01807	.00800	.42000	33	.02000	1.04250
53	.00577	.00257	.01733	.00670	.42000	34	.01500	1.04250
54	.00628	.00282	.01670	.00540	.42000	35	.01500	1.04250
5.5	.00681	.00311	.01622	.00670	.47000	36	.01500	1.04250
56	.00735	.00344	.01595	.00920	.34000	37		1.04250
57	.00793	.00382	.01584	.01040	.32000	38	.01500 .01500	1.04250
58	.00857	.00424	.01588	.01140	.32000	39	.00000	1.04250
59	.00931	.00471	.01621	.01040	.32000	40	.00000	1.04350
60	.01017	.00522	.01682	.00400	.32000	41	.00000	1.04550
61	.01118	.00578	.01764	.00330	.27000	42	.00000	1.04850
62	.01236	.00640	.01905	.00250	.27000	43	.00000	1.05150
63	.01376	.00709	.02061	.00250	.27000	44		1.05450
64	.01540	.00784	.02238	.00300	.27000	45	.00000	1.05750
65	.01732	.00868	.02446	.00400	.44000	46	.00000	1.05750
66	.01953	.00964	.02683	.00000	.32000	47	.00000	1.05750
67	.02200	.01077	.02951	.00000	.32000		.00000	1.05750
68	.02469	.01213	.03208	.00000		48	.00000	1.05750
69	.02757	.01376	.03504	.00000	.32000	49	.00000	1.05750
70	.03058	.01569	.03851		.42000	50	.00000	1.05750
			.03031	.00000	.50000	51	.00000	1.05750

# ACTUARIAL TABLES AND RATES (JUDGES & LEGISLATORS ASSUMPTIONS)

Age	- Deati Male	h Rates -	Remarriage	Disability	Retirement		Termination	. Falamu
~ge	na re	Female	Rates	Rates	Rates	Dur	Rates	Salary Scale
20	.00041	.00022	00150				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	36816
21	.00043	.00023	.09350 .09151	.00000	.00000	1	.27500	1.04750
22	.00045	.00024	.08954	.00000	.00000	2	.32400	1.04750
23	.00047	.00026	.08756	.00000	.00000	3	.16400	1.04750
24	.00049	.00028	.0856B	.00000	.00000	4	.13700	1.04750
25	.00051	.00029	.08402	.00000 .00000	.00000	5	.11800	1.04750
26	.00054	.00031	.08225	.00000	.00000	6	•11000	1.04750
21	.00056	.00033	.08027		.00000	7	.10100	1.04750
28	.00060	.00035	.07802	.00000 .00000	.00000	8	.08500	1.04750
29	.00063	.00038	.07555	.00000	.00000	9	.07100	1.04750
30	.00067	.00040	.07281	.00020	.00000	10	.05800	1.04750
31	.00071	.00043	.06976	.00020	.00000	11	.03200	1.04750
32	.00076	.00046	.06651	.00030	.00000	12	.02400	1.04750
33	.00081	.00049	.06308		.00000	13	.02000	1.04750
34	.00087	.00052	.05945	.00030 .00040	.00000	14	.02000	1.04750
35	.00095	.00055	.05581	.00040	.00000	15	.01700	1.04750
36	.00100	.00059	.05230	.00060	.00000	16	.01700	1.04750
37	.00107	.00063	.04890	.00080	.00000	17	.01300	1.04750
38	.00115	.00068	.04569	.00100	.00000	18	.01300	1.04750
39	.00125	.00073	.04271	.00120	.00000	19	.01300	1.04750
40	.00137	.00079	.03992	.00130	.00000	20	.01300	1.04750
41	.00152	.00086	.03769	.00140	.50000	21	.01200	1.04750
42	.00169	.00093	.03479	.00150	.50000	22	.01200	1.04750
43	.00190	.00102	.03255	.00170	.50000	23	.01200	1.04750
44	.00214	.00112	.03037	.00200	.50000	24	.01200	1.04750
45	.00242	.00124	.02821	.00240	.65000	25	.01100	1.04750
46	.00274	.00137	.02631	.00240	.65000	26	.01100	1.04750
47	.00310	.00151	.02455	.00320	.32000 .32000	27	.00800	1.04750
48	.00348	.00167	.02302	.00360	.42000	28	.00700	1.04750
49	.00390	.00183	.02154	.00450	.43000	29 30	.00600	1.04750
50 51	.00434	.00199	.02018	.00540	.43000	31	.01400	1.04750
5 2	.00480	.00216	.01888	.00670	.42000	32	.01300 .01300	1.04750
53	.00528	.00235	.01807	.00800	.42000	33	.02000	1.04750
54	.00577	.00257	.01733	.00670	.42000	34	.01500	1.04750
5 <b>5</b>	.00628	.00282	.01670	.00540	.42000	35	.01500	1.04750
56	.00681	.00311	.01622	.00670	.47000	36	.01500	1.04750
5 <i>7</i>	.00735	.00344	.01595	.00920	.34000	37	.01500	1.04750
58	.00793	.00382	.01584	.01040	. 32000	38	.01500	1.04750
5 9	.00857	.00424	.01588	.01140	.32000	39	.00000	1.04750
6 <b>0</b>	.00931	.00471	.01621	.01040	. 32000	40	.00000	1.04750
61	.01017	.00522	.01682	.00400	. 32000	41	.00000	1.04750
62	.01118	.00578	.01764	.00330	.27000	42	.00000	1.04750
63	.01236	.00640	.01905	.00250	.27000	43	.00000	1.04750
64	.01376	.00709	.02061	.00250	.27000	44	.00000	1.04750
65	.01540 .01732	.00784	.02238	.00300	.27000	45	.00000	1.04750
66	.01732	.00866	.02446	.00400	.44000	46		1.04750
67	.02200	.00964	.02683	.00000	.32000	47	.00000	1.04750
68	.02469	.01077	.02951	.00000	_	48	.00000	1.04750
69	.02757	.01213	.03208	.00000		49	_	1.04750
70	.03058	.01376	.03504	.00000		50		1.04750 1.04750
, 0	.03038	.01569	.03851	.00000	_	51		
					•			1.04750

# —— HALL ACTUARIAL ASSOCIATES ———

### EXHIBIT 7

LEGISLATIVE AUDITOR'S REPORT
6 Actuarial information for STATE EMPLOYEES' RETIREMENT SYSTEM. (a) Most recent actuarial valuation date: June 30, 1992.
(b) This valuation sets forth information concerning contributions applicable to the plan fiscal year beginning July 1, 1992, and ending June 30, 1993.
(c) Data used in this valuation (i) Number of participants as of the valuation date:
(d) Actuarially required contribution for those systems to the same to the sam
Funding Method Projected Unit Credit.  Unfunded Accrued Liability as of the end of fiscal 1988
(f) Average yield on investments last fiscal year
(g) Actuarial information for accounting purposes (GASB) 5 results)  Pension Benefit Obligation:  (i) Present retirees and beneficiaries.  (ii) Terminated participants due benefits at retirement age.  (iii) Terminated participants due a refund of their contributions  (iv) Active Members:  (1) Accumulated employee contributions.  (2) Employer-financed vested portion.  (3) Employer-financed nonvested portion.  (v) Total PBO (sum of 6(g)(i) through 6(g)(iv)).  Actuarial value of assets.  Unfunded (Assets in Excess of) Pension Benefit Obligation.  2,307,604,743  25,382,850  2,685,887   728,977,409  1,500,767,157  319,080,728  4,884,508,774  2,802,666,924

= HALL ACTUARIAL ASSOCIATES =

	(Continued)	
Legislativ	e Auditor's	Report

(g) Actuar:	lal assumptions used		
Intere	It rate used	erence) of the post of the section of	
Give th	ie name (or source ref	erence) of the particular tabl	8.25%
of the	table used for the ea	ch of the following. Indicate	whose arrach a cop
no assu	imption is made with r	egard to a particular aspect of Males	or the valuation.
Morta	lity rates (healthy)		Females
Morta	lity rates (disabled)	See copies of pages Actuarial Valuation Repor	
Termi	nation rates	Actuarial Valuation Bases	of the 6/30/92
Retir	ement rates	Metadiai valuation kepor	T Attached
Di sa b	ility rates		
Salar	y scales		
h) Cost of	Living Target Ratio	and Funded Ratio of the System	
complet	ed by state and states	wide retirement systems only).	: (This section must be
(1) FU	nucu Ratio of the Svet	tem as of the 100c cy	•
	TOTATED DA ONG-FUILEI	IPER OF the difference takes.	
P	cae and the Amoniar i	D	
	G Mact	UUE LU MPTVOTO OF OBSSOSS I	
as	sumptions after the 19	186 fiscal year and.	metnods or
	Date of Change	Change in funded Ratio	
		change in inneed katio	
	6/30/87	(.03148)	
	6/30/88	•02822	
	6/30/89	•02420	
	6/30/91	( 00781)	
Tot	al Change in Funded R	atio	
(4)		V ODE-Thirtieth of the a	
in	funded ratio and of o	pposite arithmetic sign of suc	or such change
	Date of Change	Amortization of Change	n change;
•		Amortization of Change	
	6/30/87	•00525	
	6/30/88	(.00376)	
	6/30/89	(.00242)	
	6/30/91	.00026	
Tot	al Amortization of Che	ngag	_
(v) Tar	get Ratio as of the er	nd of the just completed fisca	· · · · · · · · <u>(.0006</u> 7
(vi) Act	ua⊥ funded Ratio of th	10 gyatam ag af tha luck	-1 1 64
	ording to my actuarial		
		grant a cost of living increase	nas not X met th

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, 1992 Signature of Actuary Charles G. Nace

# EXHIBIT A

# AMORTIZATION OF UNFUNDED ACTUARIAL ACCRUED LIABILITY JUNE 30, 1992

	DATE 6/30	DESCRIPTION	AMTZ. METHOD	AMTZ. PERIOD	INITIAL LIABILITY	YEARS REMAIN	REMAINING BALANCE	MID-Y <u>ear</u> Payment
1)	1988	Initial Liability	I	40	1,825,421,035	37	2,090,353,247	103,394,122
2)	1989	Experience Gain	I	15(L)	(51,766,931)	37	(45,682,128)	
3)	1989	Actuarial Assumption	n I	30(L)	(171,979,344)	37	(167,260,788)	(8,273,139)
4)	1990	Experience Loss	I	15(L)	110,124,801	37	101,841,455	5,037,334
5)	1991	Actuarial Assumption	a I	30(L)	62,288,922	37	61,763,770	3,054,991
6)	1991	Experience Gain	I	15(L)	(16,696,068)	37	(16,093,023)	(796,001)
7)	1992	Legislative COLA	L	12	66,577,000	12	66,577,000	8,601,429
8)	1992	Change in Liability	I	37	6,064,124	37	1,602,176	79,248
		TOTAL OUTST	Anding	BALANCE		3	2,093,101,709	
		EMPLOYER'S	CREDIT 1	BALANCE				
	1992	Contribution Variance	e L	5	(11,259,859)	5	(11,259,859)	(2,728,395)
		TOTAL INCOME						

TOTAL UNFUNDED ACTUARIAL ACCRUED LIABILITY

\$2,081,841,850

\*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.