

**CLERKS' OF COURT
RETIREMENT & RELIEF FUND**

ACTUARIAL VALUATION AS OF
JUNE 30, 2015

G. S. CURRAN & COMPANY, LTD.

Actuarial Services

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October 6, 2015

Board of Trustees
Clerks' of Court Retirement and Relief Fund
10202 Jefferson Highway, Building A
Baton Rouge, Louisiana 70809

Ladies and Gentlemen:

We are pleased to present our report on the actuarial valuation of the Clerks' of Court Retirement and Relief Fund for the fiscal year ending June 30, 2015. Our report is based on the actuarial assumptions specified and relies on the data supplied by the system's administrators and accountants. This report was prepared at the request of the Board of Trustees of the Clerks' of Court Retirement and Relief Fund of the State of Louisiana. The primary purpose of this report is to determine the actuarially required contribution for the retirement system for the fiscal year ending June 30, 2016, and to recommend the net direct employer contribution rate for fiscal 2017. This report does not contain the information necessary for accounting disclosures as required by Governmental Accounting Standards Board (GASB) Statements 67 and 68; that information is included in a separate report. This report was prepared exclusively for the Clerks' of Court Retirement and Relief Fund for a specific limited purpose. It is not for the use or benefit of any third party for any purpose.

In our opinion, all of the assumptions on which this valuation is based are reasonable individually and in the aggregate. Both economic and demographic assumptions are based on our expectations for future experience for the fund. This report has been prepared in accordance with generally accepted actuarial principles and practices, and to the best of our knowledge and belief, fairly reflects the actuarial present values and costs stated herein. The undersigned actuaries are members of the American Academy of Actuaries and have met the qualification standards for the American Academy of Actuaries to render the actuarial opinions incorporated in this report, and are available to provide further information or answer any questions with respect to this valuation.

Sincerely,

G. S. CURRAN & COMPANY, LTD.

By: 
Gary Curran, F.C.A., M.A.A.A., A.S.A.


Gregory Curran, F.C.A., M.A.A.A., A.S.A.

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**SUMMARY OF VALUATION RESULTS
CLERKS' OF COURT RETIREMENT AND RELIEF FUND**

Valuation Date:		June 30, 2015	June 30, 2014
Census Summary:	Active Members (including DROP)	2,234	2,219
	Retired Members and Survivors	1,173	1,108
	Terminated Due a Deferred Benefit	78	88
	Terminated Due a Refund	471	444
Payroll:		\$ 89,814,463	\$ 88,522,141
Benefits in Payment (excluding DROP accruals):		\$ 28,162,472	\$ 26,301,025
Funding Deposit Account Balance		\$ 3,449,340	\$ 1,739,546
Frozen Unfunded Actuarial Accrued Liability:		\$ 86,060,294	\$ 87,052,600
Actuarial Asset Value (AVA):		\$ 527,535,949	\$ 518,993,448
Market Value of Assets (MVA):		\$ 535,853,689	\$ 475,945,220
Actuarial Accrued Liability (Entry Age Normal):		\$ 669,774,954	\$ 637,131,442

Funded Ratio (AVA/Entry Age Normal Accrued Liability): 78.76% 74.70%

	FISCAL 2016	FISCAL 2015
Employers' Normal Cost (July 1):	\$ 15,521,564	\$ 17,699,273
Amortization Cost (July 1):	\$ 7,031,947	\$ 6,809,901
Interest Adjusted Actuarially Required Contributions Including Estimated Administrative Costs:	\$ 23,838,187	\$ 25,849,862
Projected Ad Valorem and Revenue Sharing	\$ 10,727,896	\$ 10,170,733
Net Direct Employer Actuarially Required Contributions	\$ 13,110,291	\$ 15,679,129
Actuarially Required Net Direct Employer Contribution Rate	14.37%	17.30%
Actual Net Direct Employer Contribution Rate:	19.00%	19.00%

Minimum Recommended Net Employer Contribution Rate: Fiscal 2017: 14.25% **Fiscal 2016: 17.25%**

Employee Contribution Rate: 8.25%

Dedicated Funding: Maximum of 0.25% of ad valorem taxes plus revenue sharing funds

Actuarial Cost Method: Frozen Attained Age Normal Actuarial Cost Method

Valuation Interest Rate: 7.00% (Net of Investment Expense)

Census Exclusions: None

Basis of Actuarial Asset Value: The actuarial value of assets is based on the market value of assets adjusted to phase in asset earnings above or below the assumed rate of return over a five-year period with limits set at 85% and 115% of the market value of assets. When the adjusted value falls outside of the limits, the actuarial value is set equal to the average of the limited and adjusted value.

Changes in Valuation Methods, Assumptions, and/or Amortization Periods: Changes were made to the valuation interest rate, salary scale, mortality, retirement, DROP entry, and withdrawal rates. In addition, family statistics were updated.

Method of Recognizing Gains and Losses: Under the Frozen Attained Age Normal Method, actuarial gains and losses are spread over future normal costs.

COMMENTS ON DATA

For the valuation, the administrative staff of the system furnished a census on DVD derived from the system's master data processing file indicating each active covered employee's sex, date of birth, service credit, annual salary, and accumulated contributions. Information on retirees detailing dates of birth of retirees and beneficiaries, as well as option categories and benefit amounts, was provided in like manner. In addition, data was supplied on former employees who are vested or who have contributions remaining on deposit. As illustrated in Exhibit IX, there are 2,234 active members in the system of whom 1,013 members have vested retirement benefits including 135 participants in the Deferred Retirement Option Plan (DROP); 1,173 former members or their beneficiaries are receiving retirement benefits. An additional 549 terminated members have contributions remaining on deposit with the system; of this number 78 have vested rights for future retirement benefits. All participant data is as of June 30, 2015. All individuals submitted were included in the valuation.

Census data submitted to our office is tested for errors. Several types of census data errors are possible; to ensure that the valuation results are as accurate as possible, a significant effort is made to identify and correct these errors. In order to minimize coverage errors (i.e., missing or duplicated individual records) the records are checked for duplicates, and a comparison of the current year's records to those submitted in prior years is made. Changes in status, new records, and previous records, which have no corresponding current record, are identified. This portion of the review indicates the annual flow of members from one status to another and is used to check some of the actuarial assumptions, such as retirement rates, rates of withdrawal, and mortality. In addition, the census is checked for reasonableness in several areas, such as age, service, salary, and current benefits. The records identified by this review as questionable are checked against data from prior valuations; those not recently verified are included in a detailed list of items sent to the system's administrator for verification and/or correction. Once the identified data has been researched and verified or corrected, it is returned to us for use in the valuation. Occasionally some requested information is either unavailable or impractical to obtain. In such cases, values may be assigned to missing data. For this valuation, the number of such records with imputed data is de minimis. The assigned values are based on information from similar records or based on information implied from other data in the record.

In addition to the statistical information provided on the system's participants, the system's administrator furnished general information related to other aspects of the system's expenses, benefits and funding. Valuation asset values as well as income and expenses for the fiscal year were based on information furnished by the system's auditor, the firm of Duplantier, Hrapmann, Hogan & Maher, L.L.P. As indicated in the system's audit report, the net market value of system's assets was \$535,853,689 as of June 30, 2015. Net investment income for fiscal 2015 measured on a market value basis amounted to \$14,165,659. Contributions to the system for the fiscal year totaled \$34,477,968; benefits and expenses amounted to \$31,783,386.

Notwithstanding our efforts to review both census and financial data for apparent errors, we must rely upon the system's administrative staff and accountants to provide accurate information. Our review of submitted information is limited to validation of reasonableness and consistency. Verification of submitted data to source information is beyond the scope of our efforts.

COMMENTS ON ACTUARIAL METHODS AND ASSUMPTIONS

This valuation is based on the Frozen Attained Age Normal actuarial cost method with the unfunded accrued liability frozen as of June 30, 1989. Under the provisions of Louisiana R.S. 11:103 the unfunded accrued liability which was determined to be \$58,719,822 as of June 30, 1989, was frozen and amortized over forty years with payments increasing at 4.75% per year. In any year in which the net direct employer contribution is scheduled to decrease, the board of trustees may freeze the net direct employer contribution rate and deposit the excess funds, if any, into the Funding Deposit Account. For fiscal years 1999 through 2002, the board did freeze the employer contribution rates. The additional payments of \$6,660,791 and the accrued interest thereon reduced the outstanding Unfunded Accrued Liability by \$9,536,353 as of June 30, 2005, and shortened the remaining amortization period to June 30, 2026. However, in 2006 a statutory change was made to reamortize the then existing balance of the Frozen Unfunded Accrued Liability through June 30, 2029.

The cost method used for this valuation generally produces normal costs which are level as a percentage of pay if assumptions are met and the composition of the active group with regard to age and service is stable. Overall costs may increase or decrease depending on payroll growth. Since payments on the Fund's unfunded actuarial accrued liability increase by 4.75% each year, payroll growth in excess of 4.75% per year will reduce future amortization payments as a percent of payroll; payroll growth less than 4.75% will increase future payments as a percent of payroll. Under the Frozen Attained Age Normal Cost Method, actuarial gains and losses are spread over future normal costs. Thus, favorable plan experience will lower future normal costs; unfavorable experience will cause future normal costs to increase. In addition, changes in benefits and assumptions are also spread over future normal costs.

The current year actuarial assumptions utilized for this report are based on the results of an actuarial experience study for the period July 1, 2009 – June 30, 2014, unless otherwise specified in this report. Based on the results of the actuarial experience study and expectations of future experience, retirement, DROP entry, and withdrawal rates were changed. Family statistics were also updated based on more recent measures available from the United States Census Bureau. The new assumptions are listed in the back of this report. In the case of mortality, the data from this plan was combined with two other statewide plans which have similar workforce composition in order to produce more credible experience. The aggregated data was collected over the period July 1, 2009 through June 30, 2014. The data was then assigned credibility weighting and combined with a standard table to produce current levels of mortality. This mortality was then projected forward to a period equivalent to the estimated duration of the fund's liabilities. The RP-2000 Healthy Annuitant Table set forward 1 year and projected to 2030 for males and the RP-2000 Healthy Annuitant Table projected to 2030 for females were selected for annuitant and beneficiary mortality. For employees, the RP-2000 Employee table setback 4 years for males and setback 3 years for females were selected. The RP-2000 Disabled Lives Mortality Table set back 5 years for males and set back 3 years for females was selected for disabled annuitants. Setbacks in these tables were used to approximate mortality improvement.

In determining the valuation interest rate, consideration was given to several factors. First consensus estimates of rates of return, standard deviations, and correlation coefficients for asset classes derived from various asset consulting firms were developed. These factors were used to derive forward estimates of the Fund's portfolio earnings rate. Consideration was also given to the March 31, 2015

report of Summit Strategies Group on future expected rates of return for the current portfolio asset allocation. This report projected future arithmetic average portfolio real returns at 5.0% with a standard deviation of 10.9%. Based on the results of this interest rate assumption review and a desire to reduce the long-term risk of the retirement fund, the assumed rate of return for the valuation was reduced from 7.25% to 7.00% as of June 30, 2015. Finally, the salary increase rate for the valuation was reduced to 5.00% based on forward estimates of future increases in pay resulting from three sources; inflation, merit, and productivity. An inflation rate of 2.5% was implicit in both the assumed rate of return and rate of salary increases. Additional details are given in the complete Experience Report for fiscal years 2010 through 2014.

Although the board of trustees has authority to grant ad hoc Cost of Living Increases (COLAs) under limited circumstances, these COLAs have not been shown to have a historical pattern, the amounts of the COLAs have not been relative to a defined cost-of-living or inflation index, and there is no evidence to conclude that COLAs will be granted on a predictable basis in the future. Therefore, for purposes of determining the present value of benefits, these COLAs were deemed not to be substantively automatic and the present value of benefits excludes COLAs not previously granted by the board of trustees.

The current year actuarial assumptions utilized for the report are outlined on pages thirty-seven through forty-one. With the exception of the assumptions described above, all assumptions were the same as those used in the fiscal 2014 valuation. All assumptions used are based on estimates of future long-term experience for the fund. All calculations, recommendations, and conclusions are based on the assumptions specified. To the extent that prospective experience differs from that assumed, adjustments will be required to contribution levels. Such differences will be revealed in future actuarial valuations. The net effect of the changes in assumptions on the normal cost accrual rate was an increase of 0.7778%.

CHANGES IN PLAN PROVISIONS

There were no changes to the system enacted during the 2015 Regular Session of the Louisiana Legislature.

ASSET EXPERIENCE

The actuarial and market rates of return for the past ten years are given below. These investment rates of return were determined by assuming a uniform distribution of income and expense throughout the fiscal year.

	<u>Market Value</u>		<u>Actuarial Value</u>
2006	11.5%	*	16.7%
2007	14.3%		10.2%
2008	-6.3%		7.9%
2009	-19.3%	**	-6.1%
2010	8.7%		4.1%

2011	22.1%	5.8%
2012	1.6%	1.6%
2013	12.9%	4.9%
2014	16.3%	11.7%
2015	2.7%	10.2%

* Includes effect of change in asset valuation method. Effective with the 2006 valuation the method was changed from smoothing capital gains and losses over 3 years to smoothing investment earnings above or below the assumed rate of return over a five year period, subject to a limit of 90% to 110% of the market value of assets.

** Includes effect of change in asset valuation method. Effective with 2009 fiscal year, the corridor limits were increased to 85% to 115% of the market value of assets and the final asset value was determined by averaging the smoothed value with the corridor limit if the smoothed value extends beyond the corridor.

The market rate of return gives a measure of investment return on a total return basis and includes realized and unrealized capital gains and losses as well as interest income and dividends. This rate of return gives an indication of performance for an actively managed portfolio where securities are bought and sold with the objective of producing the highest total rate of return. During 2015, the fund earned \$10,144,792 of dividends, interest and other recurring income. During the same period, the Fund had net realized and unrealized capital gains on investments of \$6,909,438. This income was offset by investment expenses of \$2,888,571. The geometric mean of the market value rates of return measured over the last ten years was 5.8%. For the last twenty years, the geometric mean returns was 7.0%.

The actuarial rate of return is presented for comparison to the assumed long-term rate of return of 7.25% used for the prior valuation. The current assumed rate of return is 7.00%. This rate is calculated based on the actuarial value of assets and the market value income adjusted for actuarial smoothing as given in Exhibit VI. Investment income used to calculate this yield is based upon a smoothing of investment income above or below the valuation interest rate over a five year period subject to limits as described in the section detailing actuarial assumptions. The difference between rates of return on an actuarial and market value basis results from the smoothing utilized. In the future, yields in excess of the 7.00% assumption will reduce future costs; yields below 7.00% will increase future costs. For fiscal 2015, the system experienced net actuarial investment earnings of \$14,294,149 more than the actuarial assumed earnings rate of 7.25% in effect for fiscal 2015 (Beginning with fiscal 2016, actuarial investment gains and losses will be measured against the 7.00% valuation interest rate). This surplus in earnings produced an actuarial gain, which decreased the normal cost accrual rate by 1.8135%.

DEMOGRAPHICS AND LIABILITY EXPERIENCE

A reconciliation of the census for the system is given in Exhibit X. The average active member is 47 years old with 12.93 years of service and an annual salary of \$40,203. The system's active membership increased during the fiscal year by 15 members. The plan has experienced a decrease in the active plan population of 96 members over the last five years. A review of the active census by age indicates that over the last ten years the population in the under-fifty age group has decreased significantly while the proportion of active members over-fifty increased. Over the same ten-year period, the percentage of members with less than five years and the twenty to twenty-four year range

has decreased. The percentage of members with service between five and twenty years increased while the percentage of members with at least twenty-five years has increased significantly.

The average regular retiree is 70 years old with a monthly benefit of \$2,067. The number of retirees and beneficiaries receiving benefits from the system increased by 65 during the fiscal year. Over the last five years, the number of retirees has increased by 244; during this same period, annual benefits in payment increased by \$9,521,628.

Plan liability experience for fiscal 2015 was favorable. DROP entries and disabilities were below projected levels. Withdrawals were above expected levels. In addition, salaries increased less than expected. These factors tend to reduce costs. Deaths and active retirements were near expected levels. In aggregate, liability experience reduced the normal cost accrual rate by 0.9491%.

FUNDING ANALYSIS AND RECOMMENDATIONS

Actuarial funding of a retirement system is a process whereby funds are accumulated over the working lifetimes of employees in such a manner as to have sufficient assets available at retirement to pay for the lifetime benefits accrued by each member of the system. The required contributions are determined by an actuarial valuation based on rates of mortality, termination, disability, and retirement, as well as investment return and other statistical measures specific to the particular group. Each year a determination is made of two cost components, and the actuarially required contributions are based on the sum of these two components plus administrative expenses. These two components are the normal cost and the amortization payment on the unfunded actuarial accrued liability. The normal cost refers to the portion of annual cost based on the salary of active participants. The term unfunded accrued liability (UAL) refers to the excess of the present value of plan benefits over the sum of current assets and future normal costs. Each year the UAL grows with interest and is reduced by payments. Under the funding method used for the plan, changes in plan experience, benefits, or assumptions do not affect the frozen unfunded actuarial accrued liability. These items increase or decrease future normal costs.

In order to establish the actuarially required contribution in any given year, it is necessary to define the assumptions, funding method, and method of amortizing the UAL. Thus, the determination of what contribution is actuarially required depends upon the funding method and amortization schedules employed. Regardless of the method selected, the ultimate cost of providing benefits is dependent upon the benefits, expenses, and investment earnings. Only to the extent that some methods accumulate assets more rapidly and thus produce greater investment earnings does the funding method affect the ultimate cost.

The derivation of the actuarially required contribution for the current fiscal year is given in Exhibit I. The normal cost for fiscal 2016 as of July 1, 2015 is \$15,521,564. The amortization payment on the fund's frozen unfunded actuarial accrued liability as of July 1, 2015, is \$7,031,947. The total actuarially required contribution is determined by adjusting these two values for interest (since payments are made throughout the fiscal year) and adding estimated administrative expenses. As given on line 15 of Exhibit I the total actuarially required contribution for fiscal 2016 is \$23,838,187. When this amount is reduced by projected tax contributions and revenue sharing funds, the resulting

employers' net direct actuarially required contribution for fiscal 2016 is \$13,110,291 or 14.37% of projected payroll.

Liability and asset experience as well as changes in assumptions and benefits can increase or decrease plan costs. In addition to these factors, any COLA granted in the prior fiscal year will increase required contributions. New entrants to the system can also increase or decrease costs as a percent of payroll depending upon their demographic distribution and other factors related to prior plan experience. Finally, contributions above or below requirements may reduce or increase future costs.

The effects of various factors on the fund's cost structure are outlined below:

Employer's Normal Cost Accrual Rate – Fiscal 2015	20.7049%
Factors Increasing the Normal Cost Accrual Rate:	
Assumption Changes	0.7778%
Factors Decreasing the Normal Cost Accrual Rate:	
Asset Experience Gain	1.8135%
Plan Liability Experience	0.9491%
New Members	0.8196%
Employer's Normal Cost Accrual Rate – Fiscal 2016	17.9005%

In addition to the above factors, payroll growth affects plan costs to the extent that payments on the system's unfunded liability are on a schedule that varies from actual trends in payroll growth or decline. If payroll changes at rates not consistent with the amortization schedule the result will be costs that change as a percentage of payroll. For fiscal 2016, the net effect of the change in payroll on amortization costs was to increase such costs by 0.19% of payroll. (Note: This value also includes the effect of the reduction in the valuation interest rate) Required net direct employer contributions are also affected by the available ad valorem taxes and revenue sharing funds which the system receives each year. When these funds change as a percentage of payroll, net direct employer contributions are adjusted accordingly. We estimate that these funds will increase by 0.54% of payroll in fiscal 2016.

Although the actuarially required net direct employer contribution rate for fiscal 2016 is 14.37%; the actual employer contribution rate for fiscal 2016 is 19.00% of payroll. Since the contribution rate for fiscal 2016 was 19.00%, any surplus in employer contributions collected in the fiscal year will be dedicated to the Funding Deposit Account. R.S. 11:103 requires that the net direct employer contributions be rounded to the nearest 0.25%, hence we are recommending a minimum net direct employer contribution rate of 14.25% for fiscal 2017. R. S. 11:105 and R. S. 11:107 allow the Board of Trustees to set the net direct employer contribution rate at any level between and including 14.25% and the current rate of 19.00%. If the contribution rate is set above the minimum recommended rate, the surplus contributions collected, if any, are credited to the Funding Deposit Account. For Fiscal 2015, the Funding Deposit Account increased from \$1,739,546 to \$3,449,340 due to additional interest accrual and funds deposited. The funds in this account can be used to reduce the unfunded liability of the fund, reduce future normal costs, or offset direct employer contribution increases.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions, changes in economic or demographic assumptions, completion of amortization payments or credit schedules, and changes in plan provisions or applicable law. Analysis of the effect of all these factors is beyond the scope of this report. We have, however, calculated the sensitivity of the plan's costs to two factors. First, we have determined that based on current assets and demographics, for each percentage earnings in a single year under (or over) the assumed rate of return on the actuarial value of assets, there will be a corresponding increase (or reduction) in the normal cost accrual rate of 0.67% for the fund. We have also determined that a 1% reduction in the valuation interest rate for the Fund would increase the actuarially required contribution rate for fiscal 2016 by 11.38% of payroll.

In addition to calculating the actuarially required contribution to the fund, we have also calculated the ratio of the system's assets to liabilities. When the actuarial value of assets is divided by the entry age normal accrued liability for the fund the result is 78.76% as of June 30, 2015. This value in isolation does not give a measure of the ability of the fund to pay benefits in the future or indicate that future contributions are likely to be greater or less than current contributions. In addition, the ratio cannot be used to compare the relative strength of different retirement systems. However, the trend of this ratio over time can give some insight into the financial health of the plan. Even in this regard caution is warranted since market fluctuations in asset values and changes in plan assumptions can distort the underlying trends in this value.

COST OF LIVING INCREASES

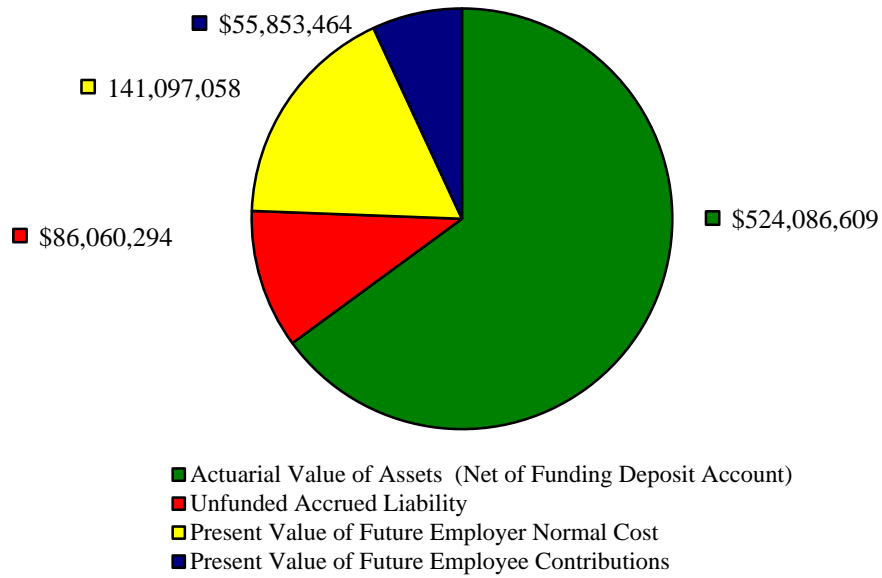
During fiscal 2015, the actual cost of living (as measured by the US Department of Labor CPI-U) increased by 0.12%. Cost of living provisions for the system are detailed in R.S. 11:1549 and R.S. 11:246. The former statute allows the board to grant annual cost of living increases of 2.5% of each retiree's current benefit subject to a limit of \$40 per month. R.S. 11:246 provides cost of living increases to retirees and beneficiaries over the age of 65 equal to 2% of the benefit in payment on October 1, 1977, or the date the benefit was originally received if retirement commenced after that date R.S. 11:241 provides that cost of living benefits shall be in the form (unless the board otherwise specifies) of $\$X \times (A+B)$ where X is at most \$1 and "A" represents the number of years of credited service accrued at retirement or at death of the member or retiree and "B" is equal to the number of years since retirement or since death of the member or retiree to June 30th of the initial year of such increase. The provisions of this subpart do not repeal provisions relative to cost of living adjustments contained within the individual laws governing systems; however, they are to be controlling in cases of conflict.

The provisions of R.S.11:1549 require that in order to grant an increase authorized by this section there must have been an increase in the CPI-U of more than 3% since the last such increase. The increase authorized by R. S. 11:246 may only be granted if the system's earnings exceed those which would be realized based on the valuation interest rate as applied to the actuarial value of assets in sufficient amount to offset the present value of the increase.

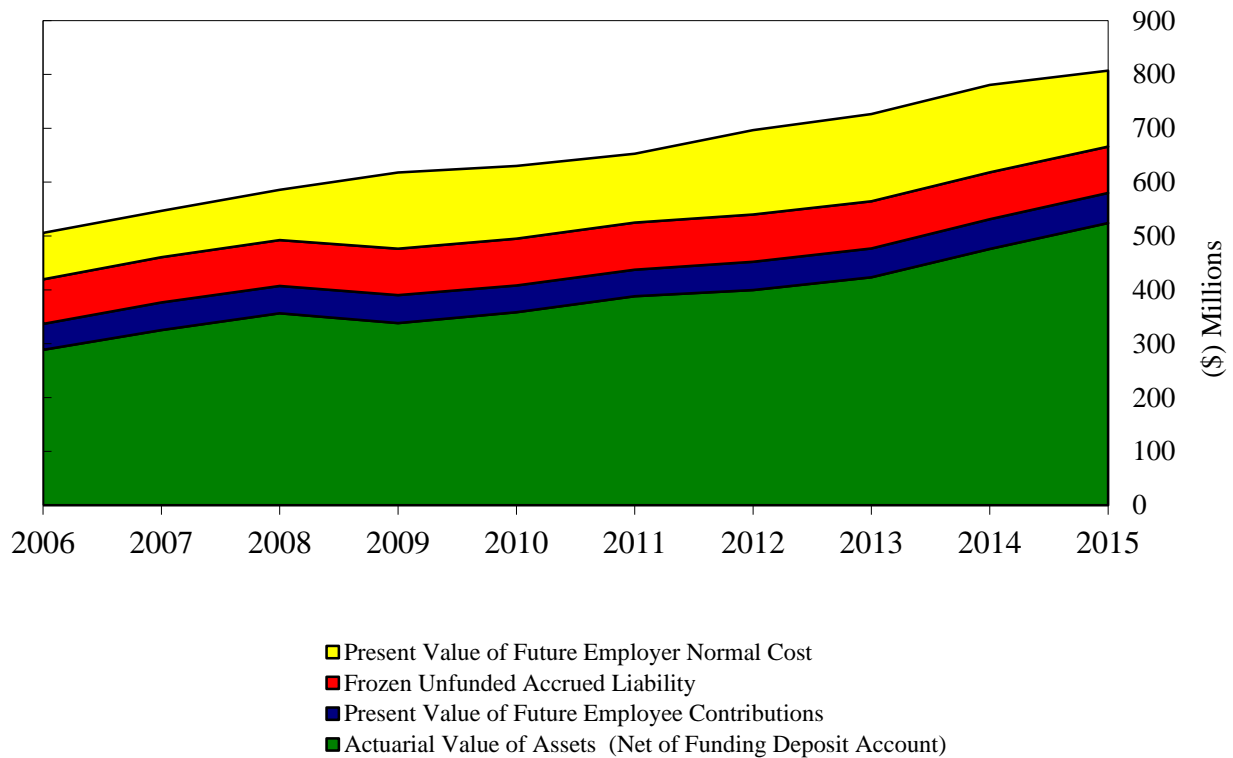
R.S. 11:243 sets forth the funding criteria necessary in order to grant cost of living adjustments to regular retirees and beneficiaries (who are neither the surviving spouse nor children of the retiree.) The criteria for the fund to qualify as eligible to grant any such increase is as follows: a funded ratio of at least 70% if the system has not granted a benefit increase to retirees, survivors, or beneficiaries in any of the three most recent fiscal years; a funded ratio of at least 80% if the system has not granted such an increase in any of the two most recent fiscal years; or a funded ratio of at least 90% if the system has not granted such an increase in the most recent fiscal year. The funded ratio at any fiscal year end is the ratio of the actuarial value of assets to the actuarial accrued liability under the funding method prescribed by the legislative auditor (currently the Projected Unit Credit Method for this system.)

Because the level of the CPI-U at the end of the current fiscal year is not 3% higher than the fiscal year in which the most recent cost of living increase was granted, the board is precluded from granting a COLA pursuant to R.S. 11:1549. Notwithstanding the fact that the system is precluded from granting a COLA pursuant to R. S. 11:1549, sufficient investment earnings were earned to qualify under the provisions of R.S. 11:246. However, the plan fails to qualify under the requirement of R.S. 11:243 since the plan's funded ratio for COLA purposes is 79.26% (i.e. the actuarial value of assets divided by the pension benefit obligation) and the fund granted a benefit increase to retirees, survivors, and beneficiaries of the fund during fiscal 2014.

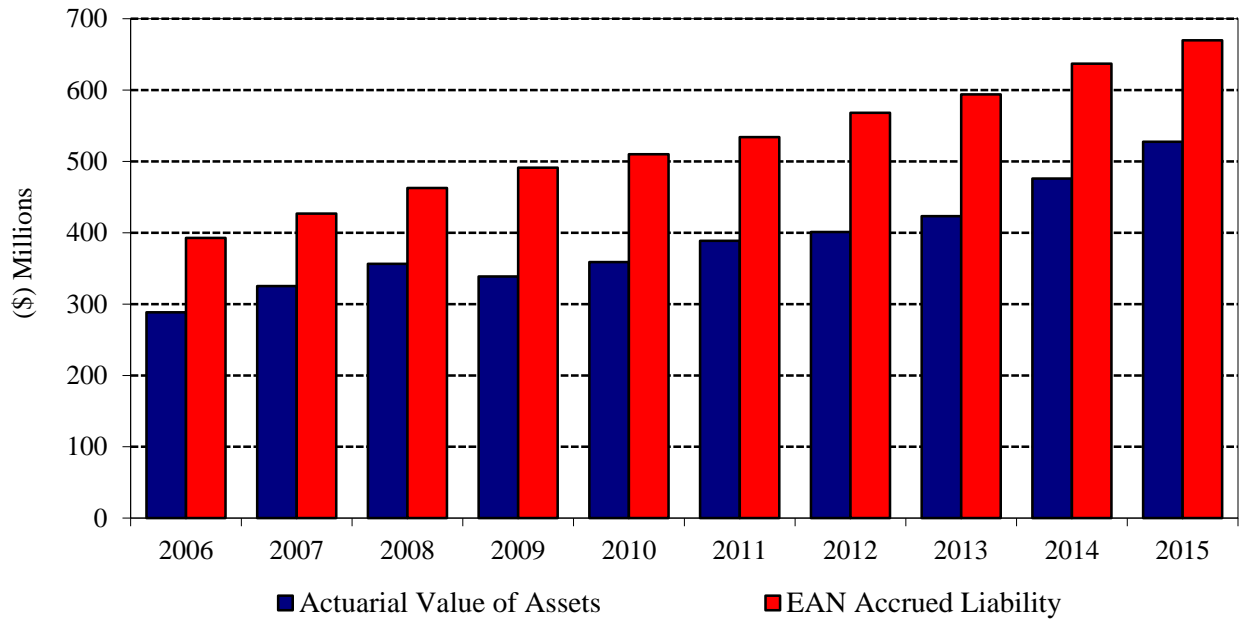
Components of Present Value of Future Benefits June 30, 2015



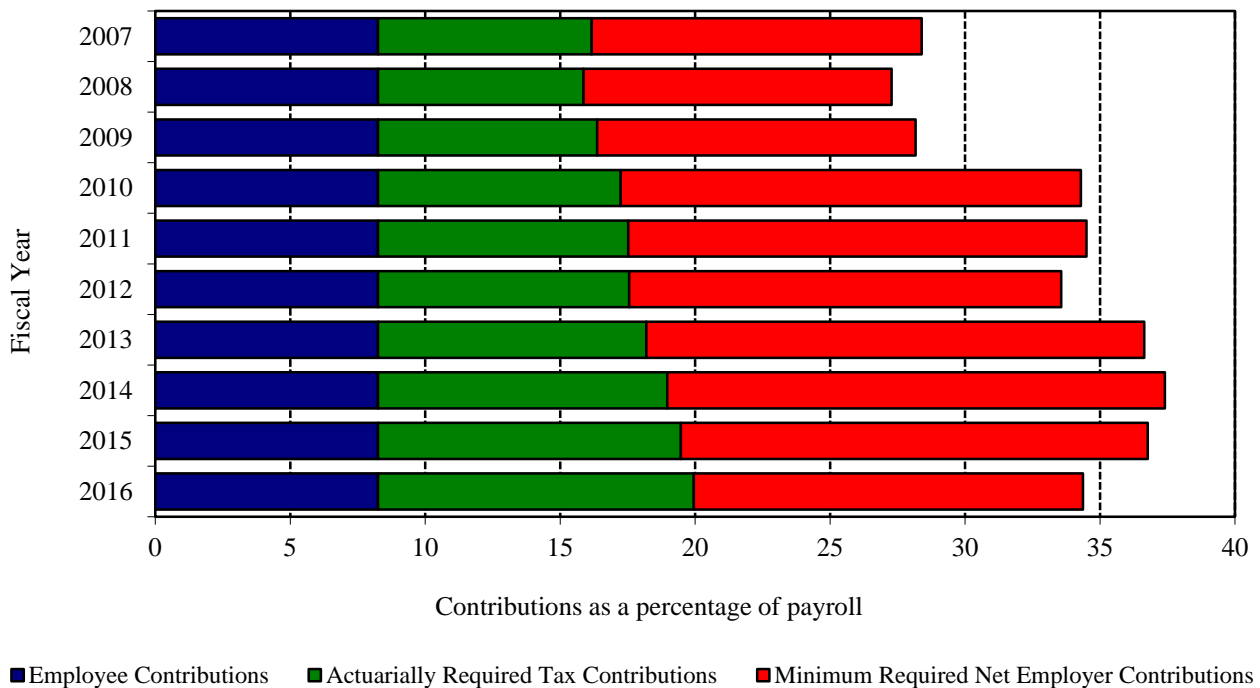
Components of Present Value of Future Benefits



Actuarial Value of Assets vs. EAN Accrued Liability

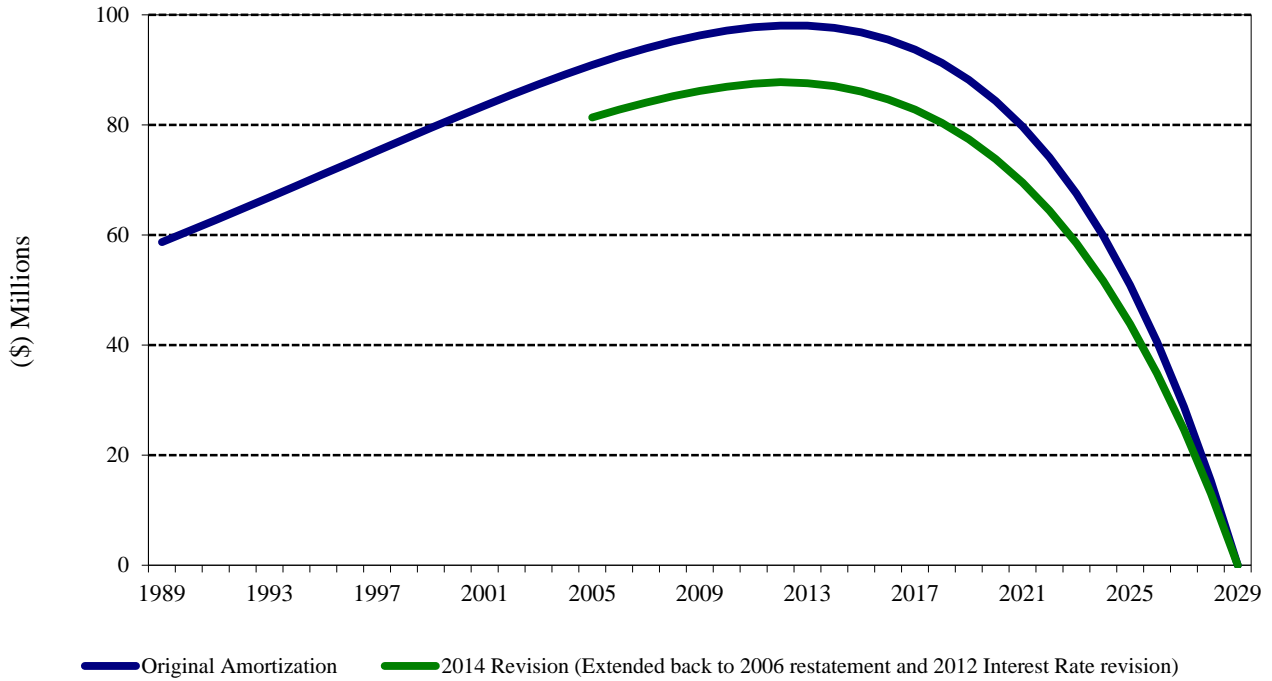


Components of Actuarial Funding

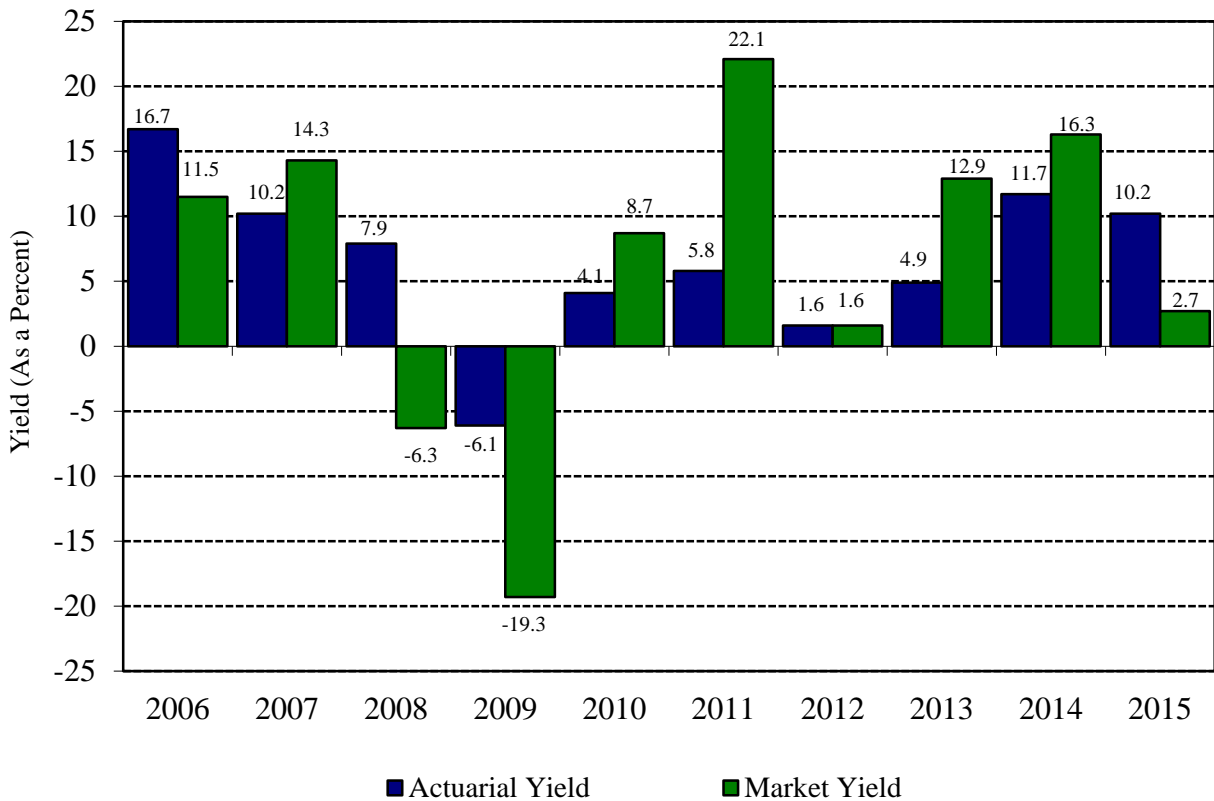


Actuarially Required Tax Contributions consist of the lesser of Actuarially Required Contributions and amount of taxes divided by the projected valuation payroll.

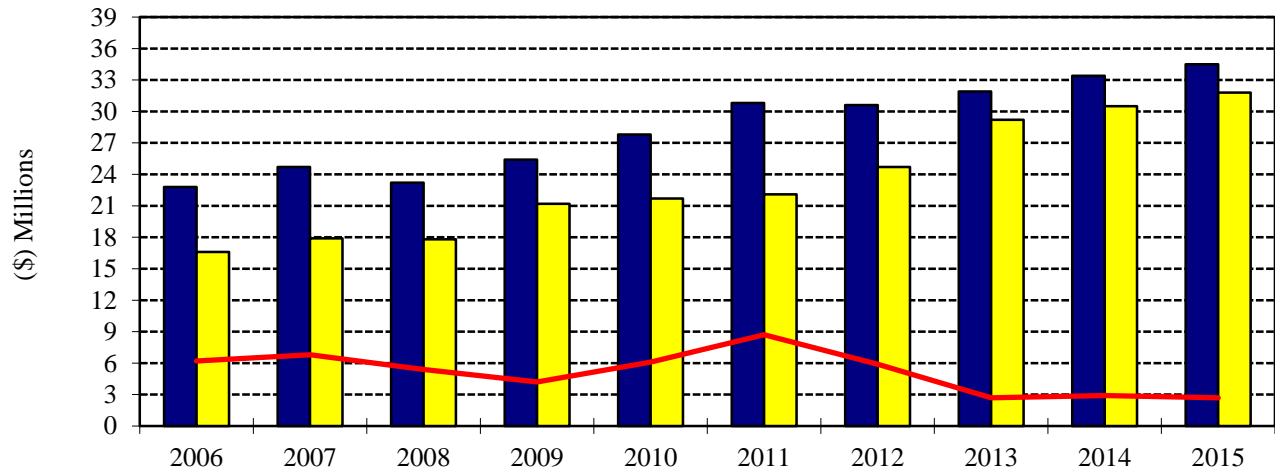
Frozen Unfunded Actuarial Accrued Liability



Historical Asset Yields

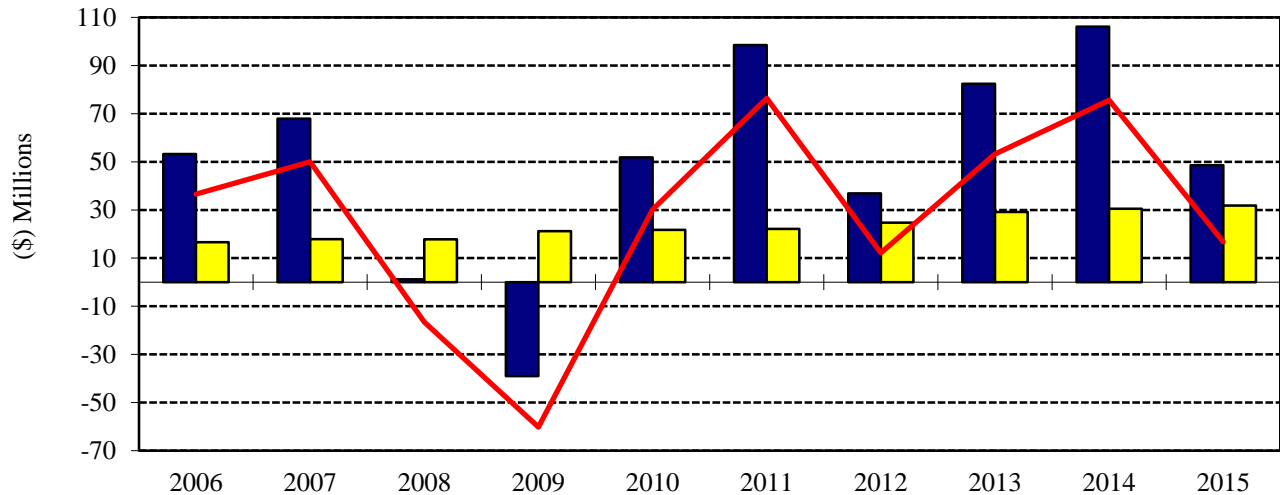


Net Non-Investment Income



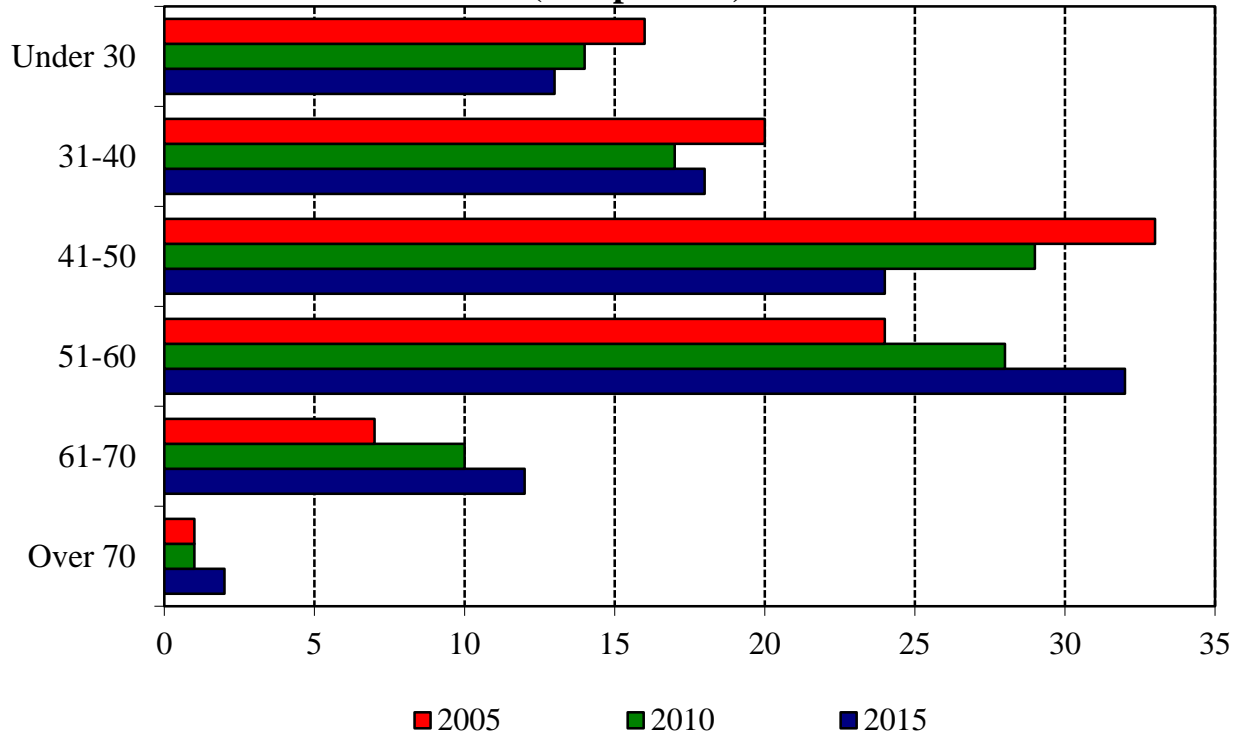
		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Non-Investment Income (\$Mil)	■	22.8	24.7	23.2	25.4	27.8	30.8	30.6	31.9	33.4	34.5
Benefits and Expenses (\$Mil)	■	16.6	17.9	17.8	21.2	21.7	22.1	24.7	29.2	30.5	31.8
Net Non-Investment Income (\$Mil)	—	6.2	6.8	5.4	4.2	6.1	8.7	5.9	2.7	2.9	2.7

Total Income vs. Expenses (Based on Market Value of Assets)



		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Total Income (\$Mil)	■	53.2	67.9	1.2	-39.0	51.8	98.5	36.9	82.4	106.1	48.6
Benefits and Expenses (\$Mil)	■	16.6	17.9	17.8	21.2	21.7	22.1	24.7	29.2	30.5	31.8
Net Change in MVA (\$Mil)	—	36.6	50.0	-16.6	-60.2	30.1	76.4	12.2	53.2	75.6	16.8

Active – Census By Age (as a percent)



Active – Census By Service (as a percent)

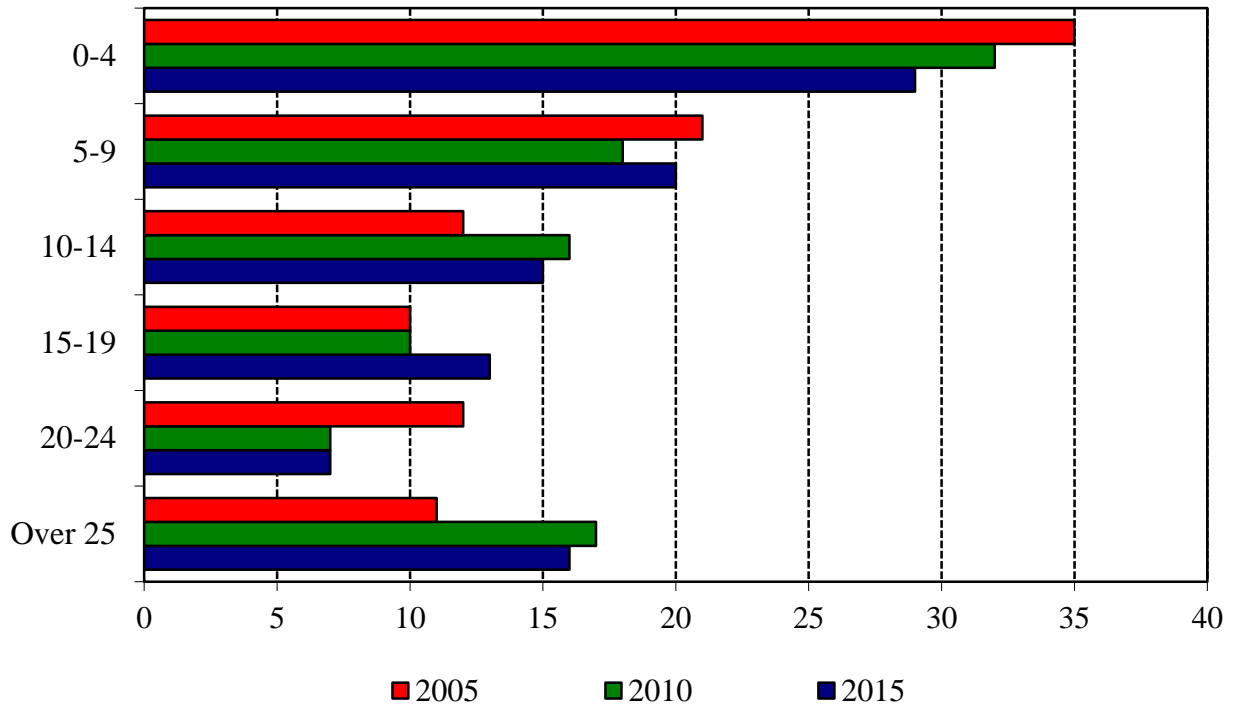


EXHIBIT I
ANALYSIS OF ACTUARIALLY REQUIRED CONTRIBUTIONS

1. Present Value of Future Benefits	\$ 807,097,425
2. Funding Deposit Account Credit Balance	\$ 3,449,340
3. Frozen Unfunded Actuarial Accrued Liability	\$ 86,060,294
4. Actuarial Value of Assets	\$ 527,535,949
5. Present Value of Future Employee Contributions	\$ 55,853,464
6. Present Value of Future Employer Normal Costs (1+2-3-4).....	\$ 141,097,058
7. Present Value of Future Salaries.....	\$ 788,229,199
8. Employer Normal Cost Accrual Rate (6÷7)	17.900511%
9. Projected Fiscal 2016 Salary for Current Membership.....	\$ 86,710,175
10. Employer Normal Cost as of July 1, 2015 (8 x 9).....	\$ 15,521,564
11. Amortization Payment on remaining frozen Unfunded Accrued Liability of \$86,060,294 with Payments increasing at 4.75% per year	\$ 7,031,947
12. TOTAL Employer Normal Cost and Amortization Payment (10 + 11)	\$ 22,553,511
13. Normal Cost Adjusted for Midyear Payment	\$ 23,329,533
14. Estimated Administrative Cost for Fiscal 2016	\$ 508,654
15. GROSS Employer Actuarially Required Contribution for Fiscal 2016 (13 + 14)	\$ 23,838,187
16. Projected Ad Valorem Tax Contributions for Fiscal 2016	\$ 10,408,246
17. Projected Revenue Sharing Funds for Fiscal 2016	\$ 319,650
18. Net Direct Employer Actuarially Required Contribution for Fiscal 2016 (15 – 16 – 17).....	\$ 13,110,291
19. Projected Payroll for Fiscal 2016.....	\$ 91,222,867
20. Employers' Minimum Net Direct Actuarially Required Contribution as a % of Projected Payroll for Fiscal 2016 (18 ÷ 19).....	14.37%
21. Minimum Recommended Net Direct Employer Contribution Rate for Fiscal 2017 (20, Rounded to nearest 0.25%).....	14.25%

EXHIBIT II
PRESENT VALUE OF FUTURE BENEFITS

PRESENT VALUE OF FUTURE BENEFITS FOR ACTIVE MEMBERS:

Retirement Benefits.....	\$ 469,196,307
Survivor Benefits.....	5,323,539
Disability Benefits.....	4,410,194
Vested Termination Benefits.....	20,948,260
Refunds of Contributions	5,548,020

TOTAL Present Value of Future Benefits for Active Members..... \$ 505,426,320

PRESENT VALUE OF FUTURE BENEFITS FOR TERMINATED MEMBERS:

Terminated Vested Members Due Benefits at Retirement.....	\$ 13,395,549
Terminated Members with Reciprocals	
Due Benefits at Retirement	26,957
Terminated Members Due a Refund	2,066,277

TOTAL Present Value of Future Benefits for Terminated Members..... \$ 15,488,783

PRESENT VALUE OF FUTURE BENEFITS FOR RETIREES:

Regular Retirees

Maximum.....	\$ 142,084,483
Option 2	74,751,503
Option 3	34,626,291
Option 4	3,371,194
Option 5	1,170,772

TOTAL Regular Retirees..... \$ 256,004,243

Disability Retirees..... 3,816,913

Survivors & Widows..... 16,513,243

DROP Account Balances Payable to Retirees

9,847,923

TOTAL Present Value of Future Benefits for Retirees & Survivors..... \$ 286,182,322

TOTAL Present Value of Future Benefits..... \$ 807,097,425

**EXHIBIT III – SCHEDULE A
MARKET VALUE OF ASSETS**

CURRENT ASSETS:

Cash in Banks	\$ 8,296,433
Contributions and Taxes Receivable.....	1,661,995
Accrued Interest and Dividends.....	559,578
Investments Receivable.....	989,235

TOTAL CURRENT ASSETS..... \$ 11,507,241

Property Plant & Equipment..... \$ 840,015

INVESTMENTS:

Equities	\$ 280,838,322
Alternative Investments	74,230,390
Fixed Income.....	68,888,480
Real Estate	49,247,848
Tactical Allocation.....	23,629,969
DROP Balances Held Outside System Assets	21,448,582
Cash Equivalents.....	7,025,374

TOTAL INVESTMENTS..... \$ 525,308,965

TOTAL ASSETS..... \$ 537,656,221

CURRENT LIABILITIES:

Accounts Payable	\$ 667,855
Investments Payable.....	940,883
Other Current Liabilities	193,794

TOTAL CURRENT LIABILITIES..... \$ 1,802,532

MARKET VALUE OF ASSETS..... \$ 535,853,689

**EXHIBIT III – SCHEDULE B
ACTUARIAL VALUE OF ASSETS**

Excess (Shortfall) of invested income
for current and previous 4 years:

Fiscal year 2015	\$ (23,557,336)
Fiscal year 2014	39,256,798
Fiscal year 2013	21,141,882
Fiscal year 2012	(24,236,117)
Fiscal year 2011	<u>43,260,541</u>
Total for five years	\$ 55,865,768

Deferral of excess (shortfall) of invested income:

Fiscal year 2015 (80%)	\$ (18,845,869)
Fiscal year 2014 (60%)	23,554,079
Fiscal year 2013 (40%)	8,456,753
Fiscal year 2012 (20%)	(4,847,223)
Fiscal year 2011 (0%)	<u>0</u>
Total deferred for year	\$ 8,317,740

Market value of plan net assets, end of year..... \$ 535,853,689

Preliminary actuarial value of plan assets, end of year \$ 527,535,949

Actuarial value of assets corridor

85% of market value, end of year	\$ 455,475,636
115% of market value, end of year	\$ 616,231,742

Final actuarial value of plan net assets, end of year \$ 527,535,949

**EXHIBIT IV
PRESENT VALUE OF FUTURE CONTRIBUTIONS**

Employee Contributions to the Annuity Savings Fund	\$ 55,853,464
Employer Normal Contributions to the Pension Accumulation Fund.....	141,097,058
Employer Amortization Payments to the Pension Accumulation Fund	86,060,294
Funding Deposit Account Credit Balance	(3,449,340)
TOTAL PRESENT VALUE OF FUTURE CONTRIBUTIONS	\$ 279,561,476

**EXHIBIT V
CHANGE IN FROZEN UNFUNDED ACTUARIAL ACCRUED LIABILITY**

Prior Year Frozen Unfunded Accrued Liability	\$ 87,052,600
Interest on Frozen Unfunded Accrued Liability	\$ 6,311,314
Employer Normal Cost for Prior Year.....	17,699,273
Interest on the Normal Cost.....	1,283,197
Administrative Expenses	541,752
Interest on Expenses	19,295
Contributions to the Funding Deposit Account	1,583,677
Factors Increasing the Unfunded Accrued Liability	\$ 27,438,508
Direct Employer Contributions.....	\$ 17,195,133
Interest on Employer Contributions.....	612,417
Ad Valorem Taxes and Revenue Sharing.....	10,257,920
Interest on Ad Valorem Taxes and Revenue Sharing Funds.....	365,344
Contribution Shortfall (Surplus)	0
Interest on Contribution Shortfall (Surplus)	0
Factors Decreasing the Unfunded Accrued Liability	\$ 28,430,814
NET Change in Frozen Unfunded Accrued Liability	\$ (992,306)
CURRENT YEAR FROZEN UNFUNDED ACCRUED LIABILITY	\$ 86,060,294

EXHIBIT VI
ANALYSIS OF INCREASE IN ASSETS

Actuarial Value of Assets (June 30, 2014)		\$ 475,945,220
INCOME:		
Member Contributions	\$ 6,895,027	
Employer Contributions	17,195,133	
Irregular Contributions	129,888	
Tax Revenue	10,257,920	
Total Contributions		\$ 34,477,968
Net Appreciation (Depreciation) of Investments	\$ 6,909,438	
Interest & Dividends	10,144,792	
Investment Expense	(2,888,571)	
Net Investment Income		\$ 14,165,659
TOTAL Income		\$ 48,643,627
EXPENSES:		
Retirement Benefits	\$ 27,384,439	
DROP Disbursements	2,687,184	
Refunds of Contributions	963,484	
Transfers to Other Systems	206,527	
Administrative Expenses	541,752	
TOTAL Expenses		\$ 31,783,386
Net Market Value Income for Fiscal 2015 (Income - Expenses)		\$ 16,860,241
Unadjusted Fund Balance as of June 30, 2015 (Fund Balance Previous Year + Net Income)		\$ 492,805,461
Adjustment for Actuarial Smoothing		\$ 34,730,488
Actuarial Value of Assets: (June 30, 2015)		\$ 527,535,949

**EXHIBIT VII
PENSION BENEFIT OBLIGATION**

Present Value of Credited Projected Benefits Payable to Current Employees.....	\$ 363,896,772
Present Value of Benefits Payable to Terminated Employees	15,488,783
Present Value of Benefits Payable to Current Retirees and Beneficiaries	286,182,322
TOTAL PENSION BENEFIT OBLIGATION.....	\$ 665,567,877
NET ACTUARIAL VALUE OF ASSETS	\$ 527,535,949
Ratio of Net Actuarial Value of Assets to Pension Benefit Obligation.....	79.26%

**EXHIBIT VIII
ENTRY AGE NORMAL ACCRUED LIABILITIES**

Accrued Liability for Active Employees	\$ 368,103,849
Accrued Liability for Terminated Employees	15,488,783
Accrued Liability for Current Retirees and Beneficiaries	286,182,322
TOTAL ENTRY AGE NORMAL ACCRUED LIABILITY	\$ 669,774,954
NET ACTUARIAL VALUE OF ASSETS	\$ 527,535,949
Ratio of Net Actuarial Value of Assets to Entry Age Normal Accrued Liability	78.76%

**EXHIBIT IX
CENSUS DATA**

	Active	Terminated with Funds on Deposit	DROP	Retired	Total
Number of members as of June 30, 2014	2,089	532	130	1,108	3,859
Additions to Census					
Initial membership	213	11			224
Omitted in error last year			(1)	7	6
Death of another member					
Adjustment for multiple records				1	1
Change in Status during Year					
Actives terminating service	(65)	65			
Actives who retired	(43)			43	
Actives entering DROP	(51)		51		
Term. members rehired	7	(7)			
Term. members who retire		(13)		13	
Retirees who are rehired					
Refunded who are rehired	4				4
DROP participants retiring			(28)	28	
DROP returned to work	17		(17)		
Omitted in error last year					
Eliminated from Census					
Refund of contributions	(68)	(38)			(106)
Deaths	(4)	(1)		(27)	(32)
Included in error last year					
Adjustment for multiple records					
Number of members as of June 30, 2015	2,099	549	135	1,173	3,956

ACTIVES CENSUS BY AGE:

Age	Number Male	Number Female	Total Number	Average Salary	Total Salary
16 - 20	1	5	6	21,628	129,765
21 - 25	13	77	90	21,878	1,969,008
26 - 30	31	165	196	27,377	5,365,933
31 - 35	23	186	209	29,961	6,261,949
36 - 40	34	167	201	36,394	7,315,147
41 - 45	30	174	204	40,294	8,219,952
46 - 50	42	241	283	40,322	11,410,988
51 - 55	50	360	410	44,091	18,077,118
56 - 60	46	262	308	47,349	14,583,526
61 - 65	37	147	184	48,503	8,924,628
66 - 70	26	73	99	49,299	4,880,557
71 - 75	16	20	36	59,958	2,158,502
76 - 80	1	5	6	69,528	417,170
86 - 90	0	2	2	50,110	100,220
TOTAL	350	1,884	2,234	40,203	89,814,463

THE ACTIVE CENSUS INCLUDES 1,013 ACTIVES WITH VESTED BENEFITS, INCLUDING 135 DROP PARTICIPANTS AND 89 ACTIVE FORMER DROP PARTICIPANTS.

TERMINATED MEMBERS DUE A DEFERRED RETIREMENT BENEFIT:

Age	Number Male	Number Female	Total Number	Average Benefit	Total Benefit
36 - 40	0	5	5	13,255	66,273
41 - 45	0	9	9	15,060	135,537
46 - 50	5	18	23	19,700	453,093
51 - 55	6	34	40	21,557	862,287
71 - 75	0	1	1	2,970	2,970
TOTAL	11	67	78	19,489	1,520,160

TERMINATED MEMBERS DUE A REFUND OF CONTRIBUTIONS:

Contributions Ranging		Number	Total Contributions
From	To		
0	- 99	57	2,140
100	- 499	92	26,630
500	- 999	59	44,329
1000	- 1999	60	84,762
2000	- 4999	70	220,447
5000	- 9999	63	464,816
10000	- 19999	54	757,953
20000	- 99999	16	465,200
TOTAL		471	2,066,277

REGULAR RETIREES:

Age	Number Male	Number Female	Total Number	Average Benefit	Total Benefit
51 - 55	2	9	11	29,439	323,834
56 - 60	14	132	146	30,587	4,465,725
61 - 65	23	189	212	28,584	6,059,912
66 - 70	29	175	204	24,675	5,033,791
71 - 75	31	147	178	24,330	4,330,814
76 - 80	26	99	125	20,006	2,500,774
81 - 85	20	72	92	17,736	1,631,728
86 - 90	12	42	54	18,093	977,044
91 - 99	2	13	15	26,139	392,081
TOTAL	159	878	1,037	24,798	25,715,703

DISABILITY RETIREES:

Age	Number Male	Number Female	Total Number	Average Benefit	Total Benefit
46 - 50	0	2	2	12,333	24,665
51 - 55	1	7	8	19,006	152,045
56 - 60	1	5	6	19,976	119,857
66 - 70	1	1	2	11,041	22,082
71 - 75	0	1	1	9,164	9,164
TOTAL	3	16	19	17,253	327,813

SURVIVORS:

Age	Number Male	Number Female	Total Number	Average Benefit	Total Benefit
0 - 25	1	0	1	4,176	4,176
26 - 30	1	1	2	11,189	22,378
36 - 40	1	1	2	8,322	16,643
41 - 45	1	0	1	6,000	6,000
46 - 50	0	1	1	3,160	3,160
51 - 55	3	2	5	10,730	53,649
56 - 60	2	2	4	25,577	102,307
61 - 65	6	6	12	24,385	292,614
66 - 70	8	3	11	22,565	248,220
71 - 75	7	9	16	17,439	279,030
76 - 80	2	14	16	13,477	215,629
81 - 85	5	13	18	23,278	419,003
86 - 90	5	16	21	15,979	335,558
91 - 99	1	6	7	17,227	120,588
TOTAL	43	74	117	18,111	2,118,955

ACTIVE MEMBERS:

Attained Ages	Completed Years of Service											Total
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30&Over	
0 - 20	4		2		3							6
21 - 25	37	22	13	11	18	4						90
26 - 30	45	27	24	21	15	57	4					196
31 - 35	25	17	20	16	15	76	37	3				209
36 - 40	21	8	13	15	7	42	45	44	6			201
41 - 45	15	8	11	5	9	47	37	42	30			204
46 - 50	9	11	15	12	8	63	47	58	25	24	11	283
51 - 55	19	16	15	9	12	50	50	68	43	42	86	410
56 - 60	14	10	13	9	8	46	42	40	18	32	76	308
61 - 65	9	7	4	8	2	35	41	23	18	11	26	184
66 - 70	3	2	1	1	2	17	21	16	12	8	17	99
71 & Over			1	1	2	7	7	6	4	1	15	44
Totals	201	128	131	108	86	444	331	300	156	118	231	2234

AVERAGE ANNUAL SALARY OF ACTIVE MEMBERS:

Attained Ages	Completed Years of Service											Average Salary
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30&Over	
0 - 20	20,996		22,891		23,106							21,628
21 - 25	21,019	20,943	22,820	23,505	23,106	26,509						21,878
26 - 30	24,813	26,673	25,480	26,711	26,577	30,179	39,525					27,377
31 - 35	23,169	27,354	29,644	26,046	30,603	31,121	34,175	39,797				29,961
36 - 40	24,937	25,343	25,807	34,179	33,943	38,701	37,627	43,244	46,923			36,394
41 - 45	28,326	27,357	26,510	27,812	32,079	35,837	46,939	47,472	48,063			40,294
46 - 50	24,819	34,661	38,857	37,156	30,224	33,120	40,196	40,268	47,017	56,480		40,322
51 - 55	24,786	28,388	45,698	56,855	31,554	34,989	41,577	43,059	48,871	53,453		44,091
56 - 60	28,034	32,665	32,696	31,240	32,831	36,846	42,104	52,825	46,051	55,218		47,349
61 - 65	23,734	29,824	30,280	29,607	29,756	36,966	50,945	44,798	56,285	71,725		48,503
66 - 70	27,544	27,093	70,000	22,016	25,541	35,502	35,818	43,110	58,786	71,811		49,299
71 & Over				22,776	42,949	57,583	37,675	37,152	65,117	41,950		60,816
Average	24,324	27,286	30,980	31,559	30,379	34,533	41,371	44,452	50,053	57,398		40,203

TERMINATED MEMBERS DUE A DEFERRED RETIREMENT BENEFIT:

Attained Ages	Years Until Retirement Eligibility										Total	
	0	1	2	3	4	5- 9	10-14	15-19	20-24	25-29		30&Over
0 - 35												0
36 - 40												5
41 - 45							9					9
46 - 50						23						23
51 - 55	4	7	9	11	9							40
56 - 60												0
61 - 65												0
66 - 70												0
71 - 75	1											1
76 & Over												0
Totals	5	7	9	11	9	23	9	5	0	0	0	78

AVERAGE ANNUAL BENEFITS OF TERMINATED MEMBERS DUE A DEFERRED RETIREMENT BENEFIT:

Attained Ages	Years Until Retirement Eligibility										Average Benefit	
	0	1	2	3	4	5- 9	10-14	15-19	20-24	25-29		30&Over
0 - 35												0
36 - 40												13,255
41 - 45							15,060					15,060
46 - 50						19,700						19,700
51 - 55	18,354	20,304	22,867	21,782	22,371							21,557
56 - 60												0
61 - 65												0
66 - 70												0
71 - 75												2,970
76 & Over												0
Average	15,277	20,304	22,867	21,782	22,371	19,700	15,060	13,255	0	0	0	19,489

SERVICE RETIREES:

Completed Years Since Retirement

Attained Ages	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30&Over	Total
0 - 50												0
51 - 55	11											11
56 - 60	35	41	27	22	15	6						146
61 - 65	15	17	24	23	22	102	9					212
66 - 70	11	11	15	14	9	70	69	5				204
71 - 75	6	4	14	5	5	37	45	54	7		1	178
76 - 80	1	3	3		3	10	32	33	34	6		125
81 - 85	2		2	2	2	7	12	19	11	35	2	92
86 - 90			2	2	1	3	2	11	4	11	20	54
91 & Over			1				2	1		4	7	15
Totals	81	76	88	64	57	235	171	123	56	56	30	1037

AVERAGE ANNUAL BENEFITS PAYABLE TO SERVICE RETIREES:

Completed Years Since Retirement

Attained Ages	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30&Over	Average Benefit
0 - 50												0
51 - 55	29,439											29,439
56 - 60	30,715	35,611	27,447	31,091	25,161	21,359						30,587
61 - 65	23,383	28,719	34,382	27,140	37,419	25,995						28,584
66 - 70	22,241	25,717	26,561	29,268	19,599	25,931	32,984	25,452				24,675
71 - 75	23,299	15,953	40,093	53,360	31,104	25,597	24,989	18,112	11,984		10,045	24,330
76 - 80	116,211	21,153	34,188		18,534	22,525	20,694	15,502	19,295	17,983		20,006
81 - 85	12,229		61,970		11,401	15,650	13,035	18,867	16,276	18,096	11,838	17,736
86 - 90			46,106		18,492	40,595	24,358	20,186	8,730	18,885	11,557	18,093
91 & Over			118,339				24,668	59,376		17,425	13,619	26,139
Average	28,083	31,032	33,670	31,012	28,587	25,525	22,908	18,348	17,034	18,191	12,006	24,798

DISABILITY RETIREES:

Attained Ages	Completed Years Since Retirement										Total	
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30&Over
0 - 45												0
46 - 50		1				1						2
51 - 55	1		1	1		2	3					8
56 - 60					1	2	2		1			6
61 - 65												0
66 - 70							1		1			2
71 - 75							1					1
76 & Over												0
Totals	1	1	1	1	1	5	7	0	2	0	0	19

AVERAGE ANNUAL BENEFITS PAYABLE TO DISABILITY RETIREES:

Attained Ages	Completed Years Since Retirement										Average Benefit	
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29		30&Over
0 - 45												0
46 - 50		11,729				12,936						12,333
51 - 55	38,448		28,414	9,824		21,510	10,780					19,006
56 - 60					10,844	29,855	20,731		7,842			19,976
61 - 65												0
66 - 70							14,511		7,571			11,041
71 - 75							9,164					9,164
76 & Over												0
Average	38,448	11,729	28,414	9,824	10,844	23,133	13,925	0	7,706	0	0	17,253

SURVIVING BENEFICIARIES OF FORMER MEMBERS:

Attained Ages	Completed Years Since Retirement											Total	
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30&Over		
0 - 20													0
21 - 25						1							1
26 - 30						2							2
31 - 35													0
36 - 40		1				1							2
41 - 45			1										1
46 - 50								1					1
51 - 55			1			2	1						5
56 - 60	1	1				1							4
61 - 65	1	1	2			2	2		2				12
66 - 70			2		1	3	3	1	1				11
71 - 75	1	1				5	4	4	3		1		16
76 - 80					2	1	3	4	3	3			16
81 - 85					1	1	1	4	3	4	5		18
86 - 90							3	4	5	5	5		21
91 & Over					3		3	3	5	2	5		7
Totals	3	4	6	2	1	19	17	21	14	14	16		117

AVERAGE ANNUAL BENEFITS PAYABLE TO SURVIVORS OF FORMER MEMBERS:

Attained Ages	Completed Years Since Retirement											Average Benefit	
	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30&Over		
0 - 20													0
21 - 25						4,176							4,176
26 - 30						11,189							11,189
31 - 35													0
36 - 40		6,523				10,120							8,322
41 - 45			6,000										6,000
46 - 50								3,160					3,160
51 - 55						18,932	6,624	3,160					10,730
56 - 60						16,992		4,271					25,577
61 - 65	74,902	6,143				15,596	32,634	18,925	14,897				24,385
66 - 70	18,872	3,952	52,844		15,609	45,767	9,615	19,131	7,223				22,566
71 - 75	10,587	30,000	20,056			22,713	12,773	17,825			2,487		17,439
76 - 80				7,769		37,529	11,436	11,685	17,687	9,484			13,477
81 - 85						77,193	62,832	24,308	21,437	12,947	13,129		23,278
86 - 90							20,888	19,453	13,277	15,712	13,918		15,979
91 & Over										23,372	14,769		17,227
Average	34,787	11,654	26,300	7,769	15,609	25,701	18,331	16,248	15,770	14,682	13,223		18,111

**EXHIBIT X
YEAR-TO-YEAR COMPARISON**

	Fiscal 2015	Fiscal 2014	Fiscal 2013	Fiscal 2012
Number of Active Members	2,234	2,219	2,248	2,269
Number of Retirees & Survivors	1,173	1,108	1,064	1,000
Number of Terminated Due Deferred Benefits	78	88	97	92
Number Terminated Due Refunds	471	444	410	387
Active Lives Payroll	\$ 89,814,463	\$ 88,522,141	\$ 86,935,230	\$ 87,238,557
Retiree Benefits in Payment	\$ 28,162,472	\$ 26,301,025	\$ 23,983,008	\$ 21,372,677
Market Value of Assets	\$ 535,853,689	\$ 518,993,448	\$ 443,430,781	\$ 390,272,342
EAN Accrued Liability	\$ 669,774,954	\$ 637,131,442	\$ 593,967,044	\$ 568,108,691
Ratio of AVA to EAN Accrued Liability	78.76%	74.70%	71.28%	70.61%
Actuarial Value of Assets	\$ 527,535,949	\$ 475,945,220	\$ 423,354,992	\$ 401,136,469
Frozen Unfunded Actuarial Accrued Liability	\$ 86,060,294	\$ 87,052,600	\$ 87,579,997	\$ 87,771,278
Present Value of Future Employer Normal Cost	\$ 141,097,058	\$ 162,356,479	\$ 161,988,761	\$ 156,709,315
Present Value of Future Employee Contrib.	\$ 55,853,464	\$ 55,197,088	\$ 53,537,913	\$ 52,501,678
Funding Deposit Account Balance	\$ 3,449,340	\$ 1,739,546	\$ 1,618,182	\$ 1,505,286
Present Value of Future Benefits	\$ 807,097,425	\$ 778,811,841	\$ 724,843,481	\$ 696,613,454

	Fiscal 2016	Fiscal 2015	Fiscal 2014	Fiscal 2013
Employee Contribution Rate	8.25%	8.25%	8.25%	8.25%
Estimated Tax Contribution as % of Payroll	11.76%	11.22%	10.72%	9.94%
Actuarially Required Net Direct Employer Contribution Rate	14.37%	17.30%	18.43%	18.45%
Actual Employer Contribution Rate	19.00%	19.00%	18.50%	17.25%

Fiscal 2011	Fiscal 2010	Fiscal 2009	Fiscal 2008	Fiscal 2007	Fiscal 2006
2,326	2,330	2,371	2,408	2,364	2,227
975	929	894	849	825	817
88	97	101	101	102	100
372	360	338	303	266	274
\$ 87,403,148	\$ 86,484,686	\$ 85,840,893	\$ 83,637,009	\$ 78,384,249	\$ 70,935,731
\$ 19,981,482	\$ 18,640,843	\$ 17,431,083	\$ 15,861,293	\$ 15,032,502	\$ 14,133,920
\$ 378,083,955	\$ 301,692,473	\$ 271,624,094	\$ 331,865,504	\$ 348,448,803	\$ 298,451,085
\$ 534,191,730	\$ 510,100,152	\$ 491,201,447	\$ 462,678,491	\$ 426,870,491	\$ 392,726,956
72.77%	70.37%	68.96%	77.05%	76.20%	73.49%
\$ 388,757,787	\$ 358,981,529	\$ 338,755,452	\$ 356,502,864	\$ 325,278,452	\$ 288,606,478
\$ 87,493,460	\$ 86,953,999	\$ 86,185,073	\$ 85,215,896	\$ 84,072,966	\$ 82,780,287
\$ 127,887,962	\$ 135,032,044	\$ 141,512,187	\$ 93,305,942	\$ 85,994,867	\$ 86,249,033
\$ 49,250,744	\$ 49,677,464	\$ 51,983,870	\$ 50,730,673	\$ 51,293,939	\$ 48,105,080
\$ 603,658	\$ 558,943	\$ 517,540	\$ 0	\$ 0	\$ 0
\$ 652,786,295	\$ 630,086,093	\$ 617,919,042	\$ 585,755,375	\$ 546,640,224	\$ 505,740,878

Fiscal 2012	Fiscal 2011	Fiscal 2010	Fiscal 2009	Fiscal 2008	Fiscal 2007
8.25%	8.25%	8.25%	8.25%	8.25%	8.25%
9.31%	9.27%	8.99%	8.12%	7.62%	7.92%
16.21%	16.98%	17.05%	11.80%	11.41%	12.22%
17.25%	17.25%	14.75%	11.75%	11.75%	16.75%

SUMMARY OF PRINCIPAL PLAN PROVISIONS

The Clerks' of Court Retirement and Relief Fund is a defined benefit pension plan which provides retirement allowances and other benefits. The following summary of plan provisions is for general informational purposes only and does not constitute a guarantee of benefits.

MEMBERSHIP – Members include the clerk of the supreme court, each of the courts of appeal, each of the district courts, and each of the city and traffic courts in cities having a population in excess of four hundred thousand, and the employees of such clerks, who work an average of more than twenty hours per week, and the employees of the Louisiana Clerks of Court Association, the Louisiana Clerks' of Court Retirement and Relief Fund, and the Louisiana Clerks of Court Insurance Fund.

CONTRIBUTION RATES – Under the provisions of R.S. 11:62 and 11:103, the fund is financed by employee contributions of 8.25% of salary and employer contributions as determined annually by the Public Retirement System's Actuarial Committee. In any fiscal year during which the net direct employer contribution rates would otherwise be decreased, the board of trustees is authorized to set the employer contribution rate at any point between the previous year's employer contribution rate and the decreased rate that would otherwise occur. Also, the board of trustees is authorized to require a net direct contribution rate of up to three percent more than the rate determined under R.S. 11:103. Any excess funds resulting from the additional contributions will be credited to the Funding Deposit Account defined in R.S. 11:107.1. In addition, the fund is due 0.25% of ad valorem taxes shown to be collected by the tax rolls of each parish and revenue sharing funds as appropriated each year by the legislature as stipulated in R.S. 11:82.

CONTRIBUTION REFUNDS – Upon withdrawal from service, members not entitled to a retirement allowance are paid a refund of accumulated contributions upon request. Receipt of such a refund cancels all accrued rights in the system.

RETIREMENT BENEFITS – Members with twelve or more years of creditable service may retire at age fifty-five (age sixty if they are hired on or after January 1, 2011). The retirement allowance is equal to three percent of the member's monthly average final compensation multiplied by the number of years of creditable service, not to exceed one hundred percent of monthly average final compensation. The retirement benefit accrual rate is increased to 3 1/3% for all service credit accrued after June 30, 1999 (for members hired prior to January 1, 2011). For members whose first employment making them eligible for system membership began before July 1, 2006 and who retire prior to January 1, 2011, monthly average final compensation is based on the highest thirty-six consecutive months, with a limit of increase of 10% in each of the last three years of measurement. For members whose first employment making them eligible for system membership began on or after July 1, 2006, monthly average final compensation is based on the highest compensated sixty consecutive months or successive joined months if service was interrupted, with a limit increase of 10% in each of the last five years of measurement. For members who were employed prior to July 1, 2006 and who retire after December 31, 2010, the period of final average compensation is thirty-six months plus the number of whole months elapsed since January 1, 2011, not to exceed sixty months.

OPTIONAL ALLOWANCES – Members may receive their benefits as a life annuity, or in lieu of such receive a reduced benefit according to the option selected which is the actuarial equivalent of the maximum benefit.

Option 1 – If the member dies before he has received in annuity payments the present value of his member's annuity as it was at the time of retirement the balance is paid to his beneficiary.

Option 2 – Upon retirement, the member receives a reduced benefit. Upon the member's death, the designated beneficiary will continue to receive the same reduced benefit.

Option 3 – Upon retirement, the member receives a reduced benefit. Upon the member's death, the designated beneficiary will receive one-half of the member's reduced benefit.

Option 4 – Upon retirement, the member elected to receive a board approved benefit which is actuarially equivalent to the maximum benefit.

Option 5 – Upon retirement, the member receives 90% of the maximum benefit. Upon the death of the member, the spouse receives one-half of the reduced benefit.

A member may also elect to receive an actuarially reduced benefit which provides for an automatic 2 ½% annual compound increase in monthly retirement benefits based on the reduced benefit and commencing on the later of age fifty-five or retirement anniversary; this COLA is in addition to any ad hoc COLAs which are payable.

DISABILITY BENEFITS – Disability benefits are awarded to active members who are totally and permanently disabled as a result of injuries sustained in the line of duty or to active members with ten or more years of creditable service who are totally disabled due to any cause. A member who is officially certified as totally and permanently disabled by the State Medical Disability Board will be paid monthly disability retirement benefits equal to the greater of forty percent of their monthly average final compensation or seventy-five percent of their monthly regular retirement benefit computed as per R.S. 11:1521(C).

SURVIVOR BENEFITS – Upon the death of any active contributing member with less than five years of creditable service, his accumulated contributions are paid to his designated beneficiary. Upon the death of any active contributing member with five or more years of service, automatic option 2 benefits are payable to the surviving spouse. These benefits are based on the retirement benefits accrued at the member's date of death with option factors used as if the member had continued in service to earliest normal retirement age. Benefit payments commence on the date a member would have first become eligible for normal retirement assuming continued service until that time. In lieu of a deferred survivor benefit, the surviving spouse may elect benefits payable immediately with benefits reduced one-quarter of 1% for each month by which payments commence in advance of member's earliest normal retirement age. If a member has no surviving spouse, the surviving minor children under eighteen or disabled children are paid one-half of the member's accrued retirement benefit in equal shares. Upon the death of any former member with less than twelve years of service, the designated beneficiary may receive his accumulated contributions. Upon the death of any former member with twelve or more years of service, automatic option 2 benefits are payable to the surviving

spouse with payments to commence on the member's retirement eligibility date. In lieu of periodic payments, the surviving spouse or children may receive a refund of the member's accumulated contributions.

DEFERRED RETIREMENT OPTION PLAN – In lieu of terminating employment and accepting a service retirement allowance, any member of the system who is eligible for a service retirement allowance may elect to participate in the Deferred Retirement Option Plan for up to thirty-six months and defer the receipt of benefits. Upon commencement of participation in the plan, active membership in the system terminates and the participant's contributions cease; however, employer contributions continue. Compensation and creditable service remain as they existed on the effective date of commencement of participation in the plan. The monthly retirement benefits that would have been payable, had the member elected to cease employment and receive a service retirement allowance, are paid into the Deferred Retirement Option Plan account. Upon termination of employment at the end of the specified period of participation, a participant in the program may receive, at his option, a lump sum payment from the account equal to the payments to the account, or a true annuity based upon his account (subject to approval by the Board of Trustees); in addition, the member receives the monthly benefits that were paid into the fund during the period of participation. If employment is not terminated at the end of the participation period, payments into the account cease and the member resumes active contributing membership in the system. Interest is paid on DROP account balances for members who complete their DROP participation but do not terminate employment. The interest earnings are based on the actual rate of return on funds in such accounts. These interest accruals cease upon termination of employment. Upon termination, the member receives a lump sum payment from the DROP fund equal to the payments made to that fund on his behalf, or a true annuity based on his account (subject to approval by the Board of Trustees). The monthly benefit payments that were being paid into the DROP fund are paid to the retiree and an additional benefit based on his additional service rendered since termination of DROP participation is calculated using the normal method of benefit computation. Prior to January 1, 2011, the average compensation used to calculate the additional benefit is that used to calculate the original benefit unless his period of additional service is at least thirty-six months; effective January 1, 2011 the average compensation for members whose additional service is less than thirty-six months is equal to the lesser of the amount used to calculate his original benefit or the compensation earned in the period of additional service divided by the number of months of additional service. For former DROP participants who retire after December 31, 2010, the period used to determine final average compensation for post-DROP service is thirty-six months plus the number of whole months elapsed from January 1, 2011 to the date of DROP entry. In no event can the entire monthly benefit amount paid to the retiree exceed 100% of the average compensation used to compute the additional benefit. If a participant dies during the period of participation in the program, a lump sum payment equal to his account balance is paid to his named beneficiary or, if none, to his estate.

COST OF LIVING INCREASES – The board of trustees is authorized to grant retired members and widows of members who have been retired for at least one full calendar year an annual cost of living increase of 2.50% of their benefit (not to exceed forty dollars per month), and all retired members and widows who are sixty-five years of age and older a 2% increase in their original benefit (or their benefit as of October 1, 1977, if they retired prior to that time). In order to grant the 2.50% COLA the increase in the Consumer Price Index must have exceeded 3% since the last COLA granted. In order for the board to grant either of these increases, the system must meet certain other criteria detailed in

the statute related to funding status. In lieu of granting the above cost of living increases, the board of trustees may grant a cost of living increase in the form of $\$X \times (A+B)$. In this formula, X is any amount up to one dollar per month. "A" represents the number of years of credited service at retirement or death, and "B" is equal to the number of years since retirement or since death of the member or retiree through June 30th of the initial year of such increase.

ACTUARIAL ASSUMPTIONS

In determining actuarial costs, certain assumptions must be made regarding future experience under the plan. These assumptions include the rate of investment return, mortality of plan members, rates of salary increase, rates of retirement, rates of termination, rates of disability, and various other factors which have an impact on the cost of the plan. To the extent that future experience varies from the assumptions selected for valuation, future costs will be either higher or lower than anticipated. The following chart illustrates the effect of emerging experience on the plan.

Factor	Increase in Factor Results in
Investment Earnings Rate	Decrease in Cost
Annual Rate of Salary Increase	Increase in Cost
Rates of Retirement	Increase in Cost
Rates of Termination	Decrease in Cost
Rates of Disability	Increase in Cost
Rates of Mortality	Decrease in Cost
 ACTUARIAL COST METHOD:	 Frozen Attained Age Normal Actuarial Method with allocation based on earnings. The actuarial accrued liabilities utilized to calculate the frozen unfunded accrued liability were calculated on the Projected Unit Credit Cost Method. Changes in assumptions and plan benefits are funded through adjustments to future normal costs.
 VALUATION INTEREST RATE:	 7.00% (Net of Investment Expense)
 ACTUARIAL ASSET VALUES:	 Assets are valued at market value adjusted to defer four-fifths of all earnings above or below the valuation interest rate in the valuation year, three-fifths of all earnings above or below the valuation interest rate in the prior year, two-fifths of all earnings above or below the valuation interest rate from two years prior, and one-fifth of all earnings above or below the valuation interest rate from three years prior. The resulting smoothed values are subject to a corridor of 85% to 115% of the market value of assets. If the smoothed value falls outside the corridor, the actuarial value is set equal to the average of the corridor limit and the smoothed value.
 Note:	 All deferrals are based on the valuation interest rate in effect as of the beginning of the fiscal year for each individual year.

ANNUAL SALARY INCREASE RATE: 5.00% (2.5% inflation / 2.5% merit)

ACTIVE MEMBER MORTALITY: RP 2000 Employee Table set back 4 years for males and set back 3 years for females

ANNUITANT AND BENEFICIARY MORTALITY: RP 2000 Healthy Annuitant Table set forward 1 year and projected to 2030 for males and projected to 2030 for females

RETIREE COST OF LIVING INCREASE: The present value of future retirement benefits is based on benefits currently being paid by the system and includes previously granted cost of living increases. The present values do not include provisions for potential future increases not yet authorized by the Board of Trustees.

RATES OF RETIREMENT: The table of these rates is included later in the report. These rates apply only to those individuals eligible to retire. The assumed rate of retirement for members at first eligibility is 3.2 times the relevant rate listed in the table of these rates.

RETIREMENT LIMITATIONS: Projected retirement benefits are not subjected to IRS Section 415 limits.

RATES OF WITHDRAWAL: The rates of withdrawal are applied based upon completed years of service according to the following table:

Service	Factor	Service	Factor
<1	0.140	10	0.030
1	0.120	11	0.030
2	0.110	12	0.030
3	0.100	13	0.030
4	0.090	14	0.030
5	0.060	15	0.030
6	0.060	16	0.030
7	0.050	17	0.015
8	0.030	18	0.015
9	0.030	>18	0.015

Note: Withdrawal rates for members eligible to retire are assumed to be zero.

RATES OF DROP ENTRY: The table of these rates is included later in the report. These rates apply only to those individuals eligible to enter the DROP plan.

DROP PARTICIPATION: All persons who enter the DROP are assumed to participate for the full 3 year period and 2/3 are assumed to retire at the end of DROP participation with 1/3 assumed to work 4 years post DROP and then retire.

RETIREMENT RATES FOR ACTIVE FORMER DROP PARTICIPANTS: The rate for all ages is assumed to be 17%.

MARRIAGE STATISTICS: 70% of the members are assumed to be married; husbands are assumed to be three years older than wives.

FAMILY STATISTICS: Assumptions utilized in determining the costs of various survivor benefits as listed below, are derived from the information provided in the 2000 U. S. Census:

Member's Age	% With Children	Number of Children	Average Age	Remarriage Rates
25	70%	1.84	5	0.04566
35	86%	2.13	9	0.02636
45	75%	1.70	12	0.01355
55	22%	1.42	14	N/A
65	4%	1.45	15	N/A

DISABLED LIVES MORTALITY: RP-2000 Disabled Lives Mortality Tables set back 5 years for Males and set back 3 years for Females

DISABILITY RATES: 20% of the disability rates used for the 21st valuation of the Railroad Retirement System for individuals with 10-19 years of service. The table of these rates is included later in the report.

SERVICE RELATED DISABILITIES: 10% of total disabilities

VESTING ELECTING PERCENTAGE: 80% of those vested elect deferred benefits in lieu of contribution refunds.

ACTUARIAL TABLES AND RATES

Age	Male Mortality Rates	Female Mortality Rates	Retirement Rates	DROP Entry Rates	Disability Rates	Post 1/1/2011 Hires Retirement Rates	Post 1/1/2011 Hires DROP Entry Rates
18	0.00019	0.00012	0.00000	0.00000	0.00030	0.00000	0.00000
19	0.00019	0.00012	0.00000	0.00000	0.00030	0.00000	0.00000
20	0.00020	0.00012	0.00000	0.00000	0.00030	0.00000	0.00000
21	0.00021	0.00011	0.00000	0.00000	0.00030	0.00000	0.00000
22	0.00022	0.00012	0.00000	0.00000	0.00030	0.00000	0.00000
23	0.00024	0.00012	0.00000	0.00000	0.00030	0.00000	0.00000
24	0.00025	0.00013	0.00000	0.00000	0.00030	0.00000	0.00000
25	0.00028	0.00014	0.00000	0.00000	0.00030	0.00000	0.00000
26	0.00032	0.00015	0.00000	0.00000	0.00030	0.00000	0.00000
27	0.00034	0.00016	0.00000	0.00000	0.00030	0.00000	0.00000
28	0.00035	0.00016	0.00000	0.00000	0.00030	0.00000	0.00000
29	0.00038	0.00017	0.00000	0.00000	0.00030	0.00000	0.00000
30	0.00043	0.00020	0.00000	0.00000	0.00030	0.00000	0.00000
31	0.00048	0.00024	0.00000	0.00000	0.00030	0.00000	0.00000
32	0.00054	0.00028	0.00000	0.00000	0.00030	0.00000	0.00000
33	0.00060	0.00030	0.00000	0.00000	0.00030	0.00000	0.00000
34	0.00067	0.00032	0.00000	0.00000	0.00030	0.00000	0.00000
35	0.00072	0.00034	0.00000	0.00000	0.00034	0.00000	0.00000
36	0.00078	0.00036	0.00000	0.00000	0.00038	0.00000	0.00000
37	0.00083	0.00037	0.00000	0.00000	0.00042	0.00000	0.00000
38	0.00085	0.00039	0.00000	0.00000	0.00048	0.00000	0.00000
39	0.00087	0.00041	0.00000	0.00000	0.00054	0.00000	0.00000
40	0.00090	0.00045	0.00000	0.00000	0.00062	0.00000	0.00000
41	0.00093	0.00049	0.00000	0.00000	0.00070	0.00000	0.00000
42	0.00096	0.00054	0.00000	0.00000	0.00078	0.00000	0.00000
43	0.00100	0.00060	0.00000	0.00000	0.00088	0.00000	0.00000
44	0.00105	0.00065	0.00000	0.00000	0.00100	0.00000	0.00000
45	0.00109	0.00069	0.00000	0.00000	0.00114	0.00000	0.00000
46	0.00114	0.00073	0.00000	0.00000	0.00130	0.00000	0.00000
47	0.00118	0.00077	0.00000	0.00000	0.00146	0.00000	0.00000
48	0.00123	0.00083	0.00000	0.00000	0.00166	0.00000	0.00000
49	0.00320	0.00090	0.00000	0.00000	0.00188	0.00000	0.00000
50	0.00321	0.00140	0.00000	0.00000	0.00214	0.00000	0.00000
51	0.00317	0.00152	0.00000	0.00000	0.00244	0.00000	0.00000
52	0.00312	0.00173	0.00000	0.00000	0.00276	0.00000	0.00000
53	0.00316	0.00202	0.00000	0.00000	0.00314	0.00000	0.00000
54	0.00322	0.00236	0.00000	0.00000	0.00356	0.00000	0.00000
55	0.00344	0.00277	0.05000	0.40000	0.00404	0.00000	0.00000
56	0.00374	0.00328	0.05000	0.20000	0.00460	0.00000	0.00000
57	0.00412	0.00377	0.05000	0.20000	0.00522	0.00000	0.00000
58	0.00461	0.00423	0.05000	0.20000	0.00592	0.00000	0.00000
59	0.00505	0.00476	0.05000	0.20000	0.00674	0.00000	0.00000
60	0.00555	0.00533	0.05000	0.20000	0.00976	0.05000	0.40000
61	0.00630	0.00595	0.05000	0.20000	0.00976	0.05000	0.20000
62	0.00696	0.00662	0.05000	0.20000	0.00976	0.05000	0.20000
63	0.00794	0.00732	0.05000	0.20000	0.00976	0.05000	0.20000
64	0.00879	0.00808	0.05000	0.20000	0.00976	0.05000	0.20000
65	0.00974	0.00892	0.10000	0.20000	0.00976	0.10000	0.20000
66	0.01112	0.00982	0.10000	0.20000	0.00976	0.10000	0.20000
67	0.01229	0.01079	0.10000	0.20000	0.00976	0.10000	0.20000
68	0.01317	0.01185	0.10000	0.20000	0.00976	0.10000	0.20000
69	0.01455	0.01304	0.10000	0.20000	0.00976	0.10000	0.20000
70	0.01561	0.01440	0.10000	0.20000	0.00976	0.10000	0.20000
71	0.01734	0.01551	0.10000	0.20000	0.00976	0.10000	0.20000
72	0.01931	0.01725	0.10000	0.20000	0.00976	0.10000	0.20000
73	0.02154	0.01861	0.10000	0.20000	0.00976	0.10000	0.20000
74	0.02404	0.02062	0.10000	0.20000	0.00976	0.10000	0.20000
75	0.02762	0.02209	0.10000	0.20000	0.00976	0.10000	0.20000

PRIOR YEAR ASSUMPTIONS

VALUATION INTEREST RATE: 7.25% (Net of Investment Expense)

ANNUAL SALARY INCREASE RATE: 5.75% (2.75% inflation / 3.00% merit)

ACTIVE MEMBER, ANNUITANT, AND BENEFICIARY MORTALITY: RP 2000 Combined Healthy Table set back 3 years for males and 1 year for females

RATES OF WITHDRAWAL: The rates of withdrawal are applied based upon completed years of service according to the following table:

Service	Factor	Service	Factor
<1	0.180	10	0.030
1	0.140	11	0.030
2	0.110	12	0.030
3	0.090	13	0.030
4	0.080	14	0.030
5	0.060	15	0.030
6	0.060	16	0.030
7	0.050	17	0.030
8	0.030	18	0.015
9	0.030	>18	0.015

Note: Withdrawal rates for members eligible to retire are assumed to be zero.

MARRIAGE STATISTICS: 80% of the members are assumed to be married; husbands are assumed to be three years older than wives.

FAMILY STATISTICS: Assumptions utilized in determining the costs of various survivor benefits as listed below, are derived from the information provided in the 2000 U. S. Census:

<u>Age</u>	<u>% With Children</u>	<u>Number of Children</u>	<u>Average Age</u>	<u>Remarriage Rates</u>
25	62%	1.7	6	0.04070
35	82%	2.1	10	0.03409
45	66%	1.8	13	0.01400
55	19%	1.4	15	N/A
65	2%	1.4	15	N/A

DISABLED LIVES MORTALITY: RP-2000 Disabled Lives Mortality Tables for Males and Females

PRIOR YEAR ACTUARIAL TABLES AND RATES

Age	Male Mortality Rates	Female Mortality Rates	Retirement Rates	DROP Entry Rates	Post 1/1/2011 Hires Retirement Rates	Post 1/1/2011 Hires DROP Entry Rates
18	0.00027	0.00018	0.00000	0.00000	0.00000	0.00000
19	0.00028	0.00019	0.00000	0.00000	0.00000	0.00000
20	0.00030	0.00019	0.00000	0.00000	0.00000	0.00000
21	0.00032	0.00019	0.00000	0.00000	0.00000	0.00000
22	0.00033	0.00019	0.00000	0.00000	0.00000	0.00000
23	0.00035	0.00019	0.00000	0.00000	0.00000	0.00000
24	0.00036	0.00020	0.00000	0.00000	0.00000	0.00000
25	0.00037	0.00020	0.00000	0.00000	0.00000	0.00000
26	0.00037	0.00021	0.00000	0.00000	0.00000	0.00000
27	0.00038	0.00021	0.00000	0.00000	0.00000	0.00000
28	0.00038	0.00022	0.00000	0.00000	0.00000	0.00000
29	0.00038	0.00024	0.00000	0.00000	0.00000	0.00000
30	0.00038	0.00025	0.00000	0.00000	0.00000	0.00000
31	0.00039	0.00026	0.00000	0.00000	0.00000	0.00000
32	0.00041	0.00031	0.00000	0.00000	0.00000	0.00000
33	0.00044	0.00035	0.00000	0.00000	0.00000	0.00000
34	0.00050	0.00039	0.00000	0.00000	0.00000	0.00000
35	0.00056	0.00044	0.00000	0.00000	0.00000	0.00000
36	0.00063	0.00047	0.00000	0.00000	0.00000	0.00000
37	0.00070	0.00051	0.00000	0.00000	0.00000	0.00000
38	0.00077	0.00055	0.00000	0.00000	0.00000	0.00000
39	0.00084	0.00060	0.00000	0.00000	0.00000	0.00000
40	0.00090	0.00065	0.00000	0.00000	0.00000	0.00000
41	0.00096	0.00071	0.00000	0.00000	0.00000	0.00000
42	0.00102	0.00077	0.00000	0.00000	0.00000	0.00000
43	0.00108	0.00085	0.00000	0.00000	0.00000	0.00000
44	0.00114	0.00094	0.00000	0.00000	0.00000	0.00000
45	0.00122	0.00103	0.00000	0.00000	0.00000	0.00000
46	0.00130	0.00112	0.00000	0.00000	0.00000	0.00000
47	0.00140	0.00122	0.00000	0.00000	0.00000	0.00000
48	0.00151	0.00133	0.00000	0.00000	0.00000	0.00000
49	0.00162	0.00143	0.00000	0.00000	0.00000	0.00000
50	0.00173	0.00155	0.00000	0.00000	0.00000	0.00000
51	0.00186	0.00168	0.00000	0.00000	0.00000	0.00000
52	0.00200	0.00185	0.00000	0.00000	0.00000	0.00000
53	0.00214	0.00202	0.00000	0.00000	0.00000	0.00000
54	0.00245	0.00221	0.00000	0.00000	0.00000	0.00000
55	0.00267	0.00242	0.20000	0.40000	0.00000	0.00000
56	0.00292	0.00272	0.06500	0.20000	0.00000	0.00000
57	0.00320	0.00309	0.06500	0.20000	0.00000	0.00000
58	0.00362	0.00348	0.06500	0.20000	0.00000	0.00000
59	0.00420	0.00392	0.06500	0.20000	0.00000	0.00000
60	0.00469	0.00444	0.06500	0.20000	0.20000	0.40000
61	0.00527	0.00506	0.06500	0.28000	0.06500	0.28000
62	0.00595	0.00581	0.06500	0.28000	0.06500	0.28000
63	0.00675	0.00666	0.06500	0.28000	0.06500	0.28000
64	0.00768	0.00765	0.15000	0.40000	0.15000	0.40000
65	0.00876	0.00862	0.15000	0.40000	0.15000	0.40000
66	0.01001	0.00971	0.15000	0.40000	0.15000	0.24000
67	0.01128	0.01095	0.15000	0.40000	0.15000	0.24000
68	0.01274	0.01216	0.15000	0.40000	0.15000	0.24000
69	0.01441	0.01344	0.15000	0.40000	0.15000	0.24000
70	0.01607	0.01486	0.15000	0.40000	0.15000	0.40000
71	0.01787	0.01674	0.15000	0.40000	0.15000	0.40000
72	0.01980	0.01858	0.15000	0.40000	0.15000	0.40000
73	0.02221	0.02067	0.15000	0.40000	0.15000	0.40000
74	0.02457	0.02297	0.15000	0.40000	0.15000	0.40000
75	0.02728	0.02546	0.15000	0.40000	0.15000	0.40000

GLOSSARY

Accrued Benefit – The pension benefit that an individual has earned as of a specific date based on the provisions of the plan and the individual's age, service, and salary as of that date.

Actuarial Accrued Liability – The actuarial present value of benefits payable to members of the fund less the present value of future normal costs attributable to the members.

Actuarial Assumptions – Assumptions as to the occurrence of future events affecting pension costs. These assumptions include rates of mortality, withdrawal, disablement, and retirement. Also included are rates of investment earnings, changes in compensation, as well as statistics related to marriage and family composition.

Actuarial Cost Method – A procedure for determining the portion of the cost of a pension plan to be allocated to each year. Each cost method allocates a certain portion of the actuarial present value of benefits between the actuarial accrued liability and future normal costs. Once this allocation is made, a determination of the normal cost attributable to a specific year can be made along with the payment to amortize any unfunded actuarial accrued liability. To the extent that a particular funding method allocates a greater (lesser) portion of the actual present value of benefits to the actuarial accrued liability it will allocate less (more) to future normal costs.

Actuarial Equivalence – Payments or receipts with equal actuarial value on a given date when valued using the same set of actuarial assumptions.

Actuarial Gain (Loss) – The financial effect on the fund of the difference between the expected and actual experience of the fund. The experience may be related to investment earnings above (or below) those expected or changes in the liability structure due to fewer (or greater) than the expected numbers of retirements, deaths, disabilities, or withdrawals. In addition, other factors such as pay increases above (or below) those forecast can result in actuarial gains or losses. The effect of such gains (or losses) is to decrease (or increase) future costs.

Actuarial Present Value – The value, as of a specified date, of an amount or series of amounts payable or receivable thereafter, with each amount adjusted to reflect the time value of money (through accrual of interest) and the probability of payments. For example: if \$600 invested today will be worth \$1,000 in 10 years and there is a 50% probability that a person will live 10 years, then the actuarial present value of \$1,000 payable to that person if he should survive 10 years is \$300.

Actuarial Value of Assets – The value of cash, investments, and other property belonging to the pension plan as used by the actuary for the purpose of the actuarial valuation. This may correspond to the book value, market value, or some modification involving either or both book and market value. Adjustments to market values are often made to reduce the volatility of asset values.

Asset Gain (Loss) – That portion of the actuarial gain attributable to investment performance above (below) the expected rate of return in the actuarial assumptions.

Amortization Payment – That portion of the pension plan contribution designated to pay interest and reduce the outstanding principal balance of unfunded actuarial accrued liability. If the amortization payment is less than the accrued interest on the unfunded actuarial accrued liability the outstanding principal balance will increase.

Contribution Shortfall (Excess) – The difference between contributions recommended in the prior valuation and the actual amount received.

Decrements – Events which result in the termination of membership in the system such as retirement, disability, withdrawal, or death.

Employer Normal Cost – That portion of the normal cost not attributable to employee contributions. It includes both direct contributions made by the employer and contributions from other non-employee sources such as revenue sharing and revenues related to taxes.

Funded Ratio – A measure of the ratio of assets to liabilities of the system according to a specific definition of those two values. Typically the assets used in the measure are the actuarial value of assets; the liabilities are defined by reference to some recognized actuarial funding method. Thus the funded ratio of a plan depends not only on the financial strength of the plan but also on the funding method used to determine the liabilities and the asset valuation method used to determine the assets in the ratio.

Normal Cost – That portion of the actuarial present value of pension plan benefits and expenses allocated to a valuation year by the actuarial cost method. This is analogous to one year's insurance premium.

Pension Benefit Obligation – The actuarial present value of benefits earned or credited to date based on the members expected final average compensation at retirement. For current retirees or terminated members this is equivalent to the actuarial present value of their accrued benefit.

Projected Benefits – The benefits expected to be paid in the future based on the provisions of the plan and the actuarial assumptions. The projected values are based on anticipated future advancement in age and accrual of service as well as increases in salary paid to the participant.

Unfunded Actuarial Accrued Liability – The excess of the actuarial accrued liability over the actuarial value of assets.

Vested Benefits – Benefits that the members are entitled to even if they withdraw from service.

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