

**THE JUDICIAL RETIREMENT SYSTEM  
OF NEW JERSEY  
ANNUAL REPORT  
OF THE ACTUARY  
PREPARED AS OF JULY 1, 2011**

**REVISED ECONOMIC ASSUMPTIONS**



June 12, 2012

State House Commission  
The Judicial Retirement System  
of New Jersey  
Trenton, New Jersey 08625

Members of the Commission:

The law governing the operation of The Judicial Retirement System of New Jersey provides for annual actuarial valuations of the System. The results of the July 1, 2011 valuation are submitted in this report, which also includes a comparison with the preceding year's valuation.

The valuation shows the financial condition of the Plan as of July 1, 2011 and gives the basis for determining the recommended annual contribution for the plan year beginning July 1, 2011.

As required under Chapter 140, P.L. 1973, experience studies are performed once in every three year period. This valuation was prepared on the basis of the demographic assumptions that were determined from the July 1, 2005 – June 30, 2008 Experience Study which were approved by the State House Commission. As mandated by the statute, these assumptions will remain in effect for valuation purposes until such time the State House Commission adopts revised demographic assumptions.

The Treasurer, upon recommendation from the Directors of the Division of Pensions and Benefits and the Division of Investments, has approved a change in the economic assumptions used for the valuation. The rate of investment return has been revised from 8.25% per annum to 7.95% per annum and the assumed future salary increases have been revised from 4.50% per annum to 2.50% per annum for fiscal year ending 2012 through fiscal year ending 2016 and 3.75% per annum for fiscal years ending 2017 and thereafter. These assumptions will remain in effect until such time the Treasurer approves revised economic assumptions.

The valuation reflects the final provisions of the Appropriation Act for fiscal year 2011. The fiscal year 2011 recommended pension contribution of \$34,653,737 has been reduced to \$0. The valuation also reflects the effect of Chapter 1, P.L. 2010 for fiscal year 2012. The fiscal year 2012 recommended pension contribution of \$38,352,572 has been reduced to \$5,478,938. This amount may be subject to change per the requirements of the State's fiscal year 2012 spending plan. Lastly, the valuation reflects the provisions of Chapter 1, P.L. 2010 which allows the State Treasurer to reduce the recommended pension contribution for the 2013 fiscal year to no less than 2/7th of the recommended contribution.

The report does not take into account any changes in U.S. equity prices and bond yields that have occurred after the valuation date. Taking these into account may significantly change the market and actuarial value of assets shown. The effect of these events on any funded ratios shown, and on Retirement System calculations, is not known. Retirement System funding and financial accounting rules generally prohibit reflection of changes in assets and underlying economic conditions that occur after the valuation date.

State House Commission  
June 12, 2012  
Page 2

To the best of our knowledge, this report is complete and accurate. The valuation was performed by, and under the supervision of, independent qualified actuaries who are members of the American Academy of Actuaries with experience in performing valuations for public retirement systems.

The valuation was prepared in accordance with the principles of practice prescribed by the Actuarial Standards Board and generally accepted actuarial procedures and methods. The calculations are based on the current provisions of the System, and on actuarial assumptions that are individually and in the aggregate internally consistent and reasonable based on the actual experience of the System.

The Table of Contents, which follows, highlights the Sections of the Report.

Respectfully submitted,



Janet H. Cranna, F.S.A., E.A., M.A.A.A., F.C.A.  
Principal, Consulting Actuary

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## TABLE OF CONTENTS

| <u>Section</u>  | <u>Item</u>  | <u>Page No.</u> |
|-----------------|--|-----------------|
| I               | Summary of Key Results   | 1               |
| II              | Employee Data  | 6               |
| III             | Assets, Liabilities and Contributions  | 9               |
|                 | A. Market Value of Assets as of June 30, 2011  |                 |
|                 | B. Reconciliation of Market Value of<br>Assets: June 30, 2010 to June 30, 2011                       |                 |
|                 | C. Development of Actuarial Value of Assets<br>as of July 1, 2011                                    |                 |
|                 | D. Present Value of Projected Benefits as of July 1, 2011  |                 |
|                 | E. Development of Normal Cost as of July 1, 2011   |                 |
|                 | F. Development of Recommended State Pension Contributions  |                 |
|                 | G. Development of Chapter 1, P.L. 2010 Minimum Required<br>Pension Contributions                     |                 |
|                 | H. Non-Contributory Group Insurance Premium  |                 |
| IV              | Comments Concerning the Valuation  | 13              |
| V               | Accounting Information   | 16              |
| VI              | Level of Funding   | 19              |
| <u>Appendix</u> |  |                 |
| A               | Brief Summary of the Benefit and<br>Contribution Provisions as Interpreted for<br>Valuation Purposes | 20              |
| B               | Outline of Actuarial Assumptions and Methods   | 23              |
| C               | Tabulations Used as a Basis for the Valuation  | 25              |
|                 | Table 1 – Reconciliation of Data from<br>July 1, 2010 to June 30, 2011                               |                 |
|                 | Table 2 – Distribution of Active Members<br>by Age and Service                                       |                 |
|                 | Table 3 – Active Members Distributed by Age  |                 |
|                 | Table 4 – Active Members Distributed by Service  |                 |
|                 | Table 5 – Average Age and Annual Benefit at Retirement   |                 |
|                 | Table 6 – Service Retirements  |                 |
|                 | Table 7 – Disability Retirements   |                 |
|                 | Table 8 – Active Members’ Death Benefits   |                 |
|                 | Table 9 – Retired Members’ Death Benefits  |                 |
|                 | Table 10 – Deferred Terminated Vesteds   |                 |

REPORT ON THE ANNUAL  
VALUATION OF  
THE JUDICIAL RETIREMENT SYSTEM  
OF NEW JERSEY  
PREPARED AS OF JULY 1, 2011

SECTION I - SUMMARY OF KEY RESULTS

The Judicial Retirement System of New Jersey became effective June 1, 1973. This report, prepared as of July 1, 2011, presents the results of the annual actuarial valuation of the Fund.

For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized on the following pages.

| Valuation Date                           | July 1, 2011                                |  | July 1, 2010              |
|--|---|--|---------------------------|
|  | Reflecting the Revised Economic Assumptions | Prior to Reflecting the Revised Economic Assumptions |                           |
| Number of Members                        | 406   | 406  | 432                       |
| Annual Compensation                      | \$ 67,437,125                               | \$ 67,437,125  | \$ 71,746,413             |
| Number of Retirees and Beneficiaries     | 522   | 522  | 505                       |
| Annual Allowances                        | \$ 43,868,063                               | \$ 43,868,063  | \$ 41,250,479             |
| Number of Vested Terminated Members      | 3   | 3  | 3                         |
| Annual Allowances                        | \$ 93,690                                   | \$ 93,690  | \$ 93,690                 |
| <u>Assets</u>                            |   |  |                           |
| Market Value of Assets                   | \$ 270,183,306 *                            | \$ 270,183,306 *                                     | \$ 261,523,992            |
| Valuation Assets                         | \$ 310,724,782 *                            | \$ 310,724,782 *                                     | \$ 329,030,387            |
| <u>Contribution Rates</u>                |   |  |                           |
| Pension Contribution                     |   |  |                           |
| a) Recommended Contribution              |   |  |                           |
| Normal Contribution                      | 24.38%                                      | 26.16%   | 24.87%                    |
| Accrued Liability Contribution           | 36.05                                       | 38.14  | 28.58                     |
| Total Pension Contribution               | 60.43%                                      | 64.30%   | 53.45%                    |
| b) Chapter 1, P.L. 2010                  |   |  |                           |
| Minimum Contribution                     |   |  |                           |
| Normal Contribution                      | 6.97%                                       | 7.47%  | 3.55%                     |
| Accrued Liability Contribution           | 10.30                                       | 10.90  | 4.08                      |
| Total Pension Contribution               | 17.27% <sup>o</sup>                         | 18.37% <sup>o</sup>                                  | 7.63% <sup>o</sup>        |
| Non-Contributory Group Insurance Premium | 1.34%                                       | 1.34%  | 1.34%                     |
| <u>Contribution Amounts</u>              |   |  |                           |
| Pension Contribution                     |   |  |                           |
| a) Recommended Contribution              |   |  |                           |
| Normal Contribution                      | \$ 16,441,524                               | \$ 17,641,910  | \$ 17,846,741             |
| Accrued Liability Contribution           | 24,310,280                                  | 25,717,236   | 20,505,831                |
| Total Pension Contribution               | \$ 40,751,804                               | \$ 43,359,146  | \$ 38,352,572             |
| b) Chapter 1, P.L. 2010                  |   |  |                           |
| Minimum Contribution                     |   |  |                           |
| Normal Contribution                      | \$ 4,697,578                                | \$ 5,040,546   | \$ 2,549,534              |
| Accrued Liability Contribution           | 6,945,794                                   | 7,347,782  | 2,929,404                 |
| Total Pension Contribution               | \$ 11,643,372 <sup>o</sup>                  | \$ 12,388,328 <sup>o</sup>                           | \$ 5,478,938 <sup>o</sup> |
| Non-Contributory Group Insurance Premium | \$ 901,000                                  | \$ 904,000   | \$ 959,000                |

\* Assets include a fiscal year 2012 receivable pension contribution of \$5,478,938 instead of the recommended pension contribution of \$38,352,572 due to Chapter 1, P.L. 2010. This amount may be subject to change per the requirements of the State's fiscal year 2012 spending plan.

<sup>o</sup> Chapter 1, P.L. 2010 allows the State to make a contribution for fiscal year 2013 equal to 2/7th of the recommended contribution and for fiscal year 2012 equal to 1/7th of the recommended contribution. The contributions could be subject to change per the requirements of the State's fiscal year 2013 and 2012 spending plans.

The major benefit and contribution provisions of the statute as reflected in the valuation are summarized in Appendix A.

The valuation reflects the final provisions of the Appropriation Act for fiscal year 2011, which allowed the State Treasurer to reduce the State normal and accrued liability contributions for fiscal year 2011 of \$34,653,737 to \$0. (This amount excludes the estimated premium paid to the Non-Contributory Insurance Fund of \$864,000 for the lump sum death benefit during active service.)

The valuation also reflects the impact of Chapter 1, P.L. 2010, which allows the State Treasurer to reduce the State normal and accrued liability contributions for fiscal year 2012 to no less than 1/7th of the full recommended pension contribution. Therefore, the fiscal year 2012 recommended pension contribution of \$38,352,572 has been reduced to \$5,478,938 and has been recognized as a receivable contribution for purposes of this valuation. (This amount excludes the estimated premium paid to the Non-Contributory Insurance Fund of \$959,000 for lump sum death benefits during active service.)

There were no other changes to the benefit and contribution provisions.

As required under Chapter 140, P.L. 1973, experience studies are performed once in every three year period. This valuation was prepared on the basis of the demographic assumptions that were determined from the July 1, 2005 – June 30, 2008 Experience Study which were approved by the State House Commission. As mandated by the statute, these demographic assumptions will remain in effect for valuation purposes until such time the State House Commission adopts revised assumptions. The Treasurer, upon recommendation from the Directors of the Division of Pensions and Benefits and the Division of Investments, has approved a change in the economic assumptions used for the valuation. The rate of investment return has been revised from 8.25% per annum to 7.95% per annum and the assumed future salary increases have been revised from 4.50% per annum to 2.50% per annum for fiscal year ending 2012 through fiscal year ending 2016 and 3.75% per annum for fiscal years ending 2017 and thereafter. These economic assumptions will remain in effect for valuation purposes until such time the Treasurer



approves revised economic assumptions. There were no other changes to the actuarial assumptions and methods used in the prior valuation. The actuarial assumptions and methods used for valuing the Fund are summarized in Appendix B.

The combination of the plan provisions, actuarial assumptions and member and beneficiary data is used to generate the overall required level of State contributions. These contributions are composed of two separate portions, an “accrued liability contribution” and a “normal contribution”. The recommended contribution is developed in Section III F.

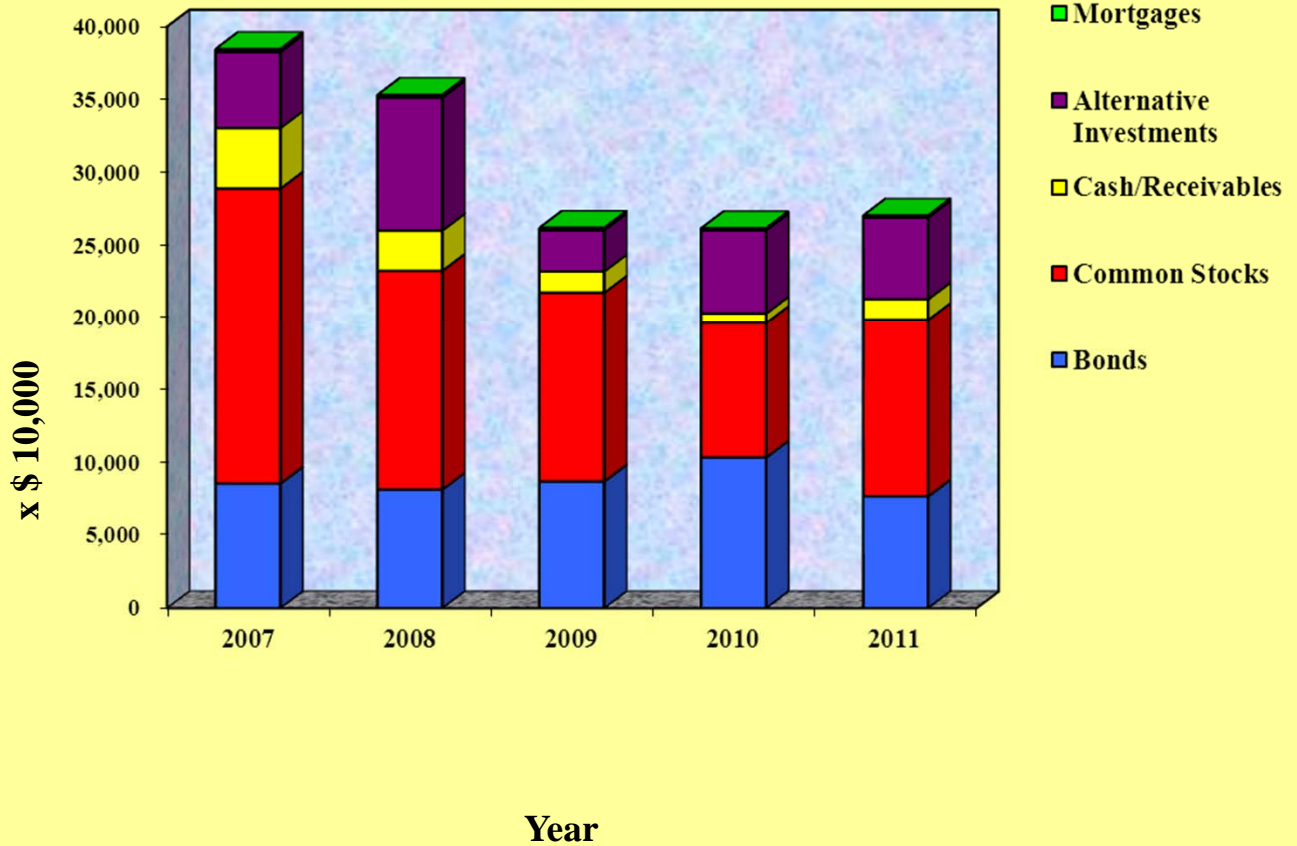
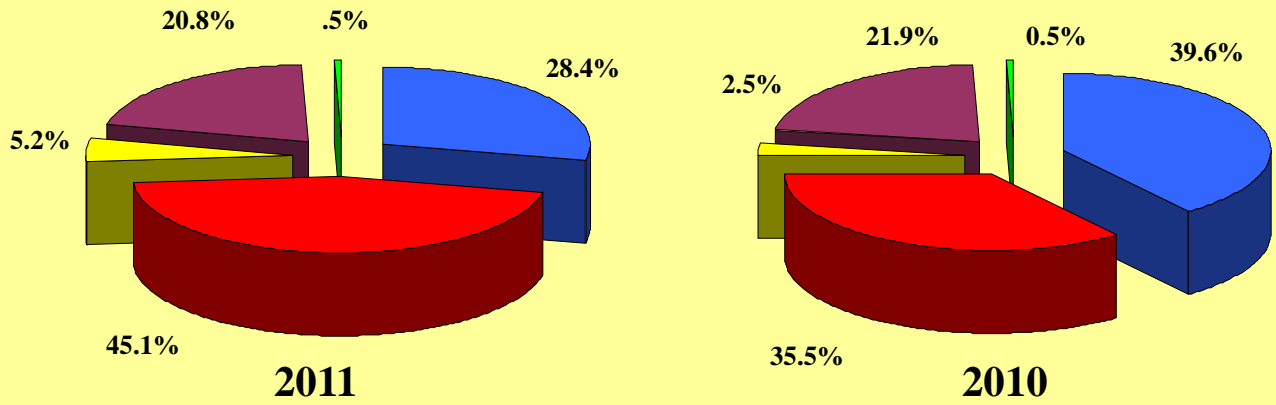
The valuation generates a balance sheet which summarizes in some detail the total present and prospective assets and liabilities of the Fund. A summary comparison of the balance sheets as of July 1, 2010 and July 1, 2011 is set forth in the following table. The allocation of assets among the various investment alternatives is shown in graphic form on page 5.

**TABLE I**  
**COMPARATIVE BALANCE SHEET**

|   | <b>2011</b>                                 |  | <b>2010</b>    |
|---|---|--|----------------|
|   | Reflecting the Revised Economic Assumptions | Prior to Reflecting the Revised Economic Assumptions |                |
| <b><u>ASSETS</u></b>  |   |  |                |
| Actuarial value of assets of Fund   | \$ 310,724,782                              | \$ 310,724,782                                       | \$ 329,030,387 |
| Unfunded accrued liability/(surplus)  | 274,976,005                                 | 282,821,717  | 225,510,016    |
| Total Assets  | \$ 585,700,787                              | \$ 593,546,499                                       | \$ 554,540,403 |
| <b><u>LIABILITIES</u></b>   |   |  |                |
| Present value of benefits to present beneficiaries payable from the Retirement Reserve Fund | \$ 394,760,527                              | \$ 394,135,848                                       | \$ 354,390,110 |
| Present value of benefits to present active members and terminated vested members           | 190,940,260                                 | 199,410,651  | 200,150,293    |
| Total Liabilities   | \$ 585,700,787                              | \$ 593,546,499                                       | \$ 554,540,403 |

# THE JUDICIAL RETIREMENT SYSTEM OF NEW JERSEY

## ASSET ALLOCATION MARKET VALUE



## SECTION II - EMPLOYEE DATA

The data employed for the valuations were furnished to the actuary by the Division of Pensions and Benefits.

The following summarizes and compares the Fund membership as of July 1, 2010 and July 1, 2011 by various categories.

### **ACTIVE MEMBERSHIP**

| <b>Group</b> | <b>2011</b>   |                            | <b>2010</b>   |                            |
|--------------|---------------|----------------------------|---------------|----------------------------|
|              | <b>Number</b> | <b>Annual Compensation</b> | <b>Number</b> | <b>Annual Compensation</b> |
| Men          | 292           | \$ 48,446,881              | 316           | \$ 52,424,146              |
| Women        | 114           | \$ 18,990,244              | 116           | \$ 19,322,267              |

### **RETIRED MEMBERS AND BENEFICIARIES**

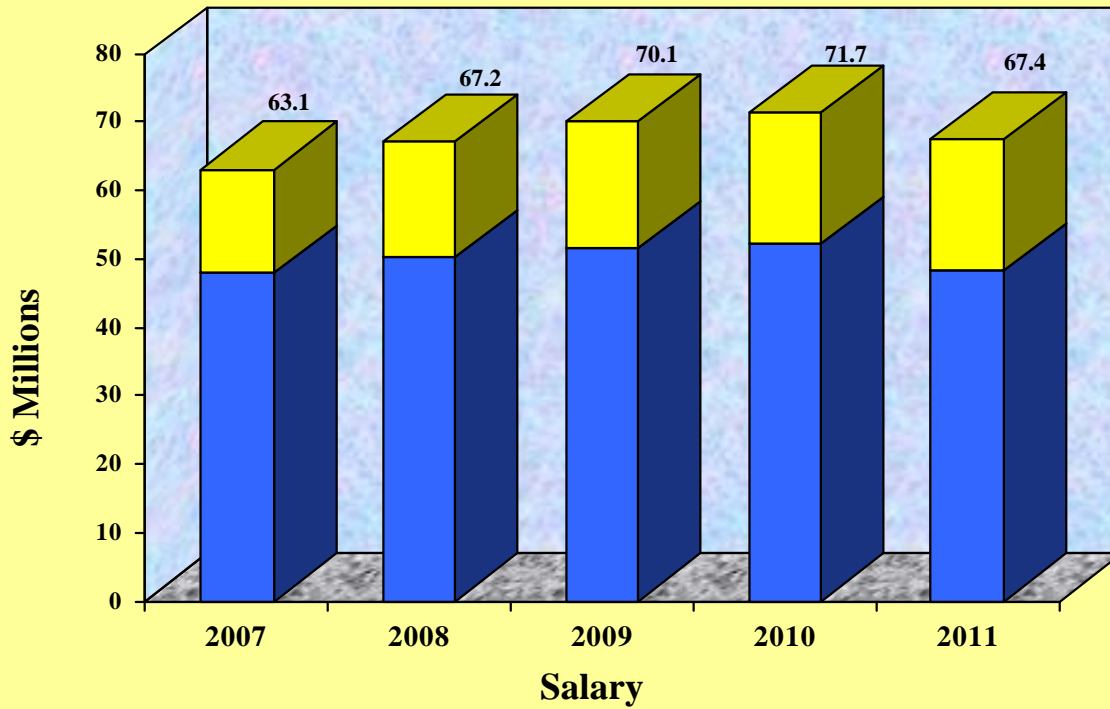
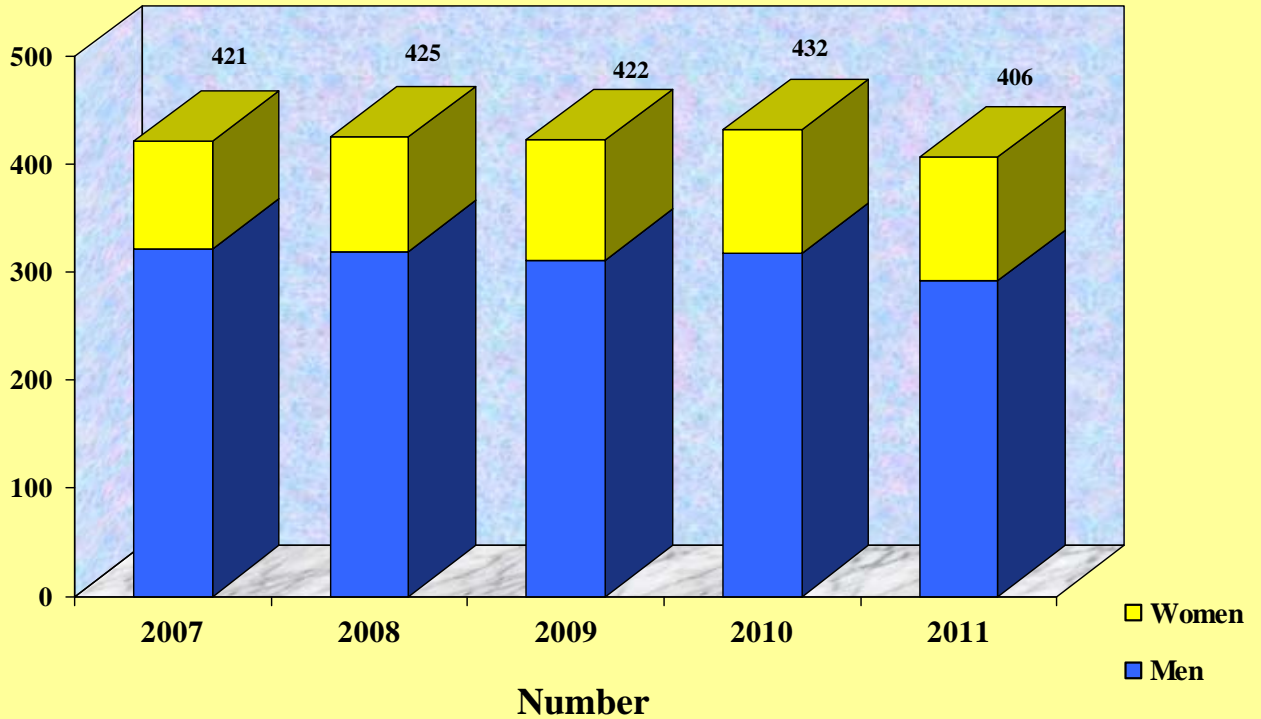
| <b>GROUP</b>                | <b>2011</b>   |                          | <b>2010</b>   |                          |
|-----------------------------|---------------|--------------------------|---------------|--------------------------|
|                             | <b>Number</b> | <b>Annual Allowances</b> | <b>Number</b> | <b>Annual Allowances</b> |
| Deferred Terminated Vesteds | 3             | \$ 93,690                | 3             | \$ 93,690                |
| Service Retirements         | 363           | \$ 35,967,480            | 349           | \$ 33,892,691            |
| Disability Retirements      | 9             | \$ 1,035,086             | 7             | \$ 774,383               |
| Beneficiaries               | 150           | \$ 6,865,497             | 149           | \$ 6,583,405             |

Appendix C provides a detailed distribution between groups.

Graphic presentations of the statistical data on membership for the five preceding years are shown on the following pages.

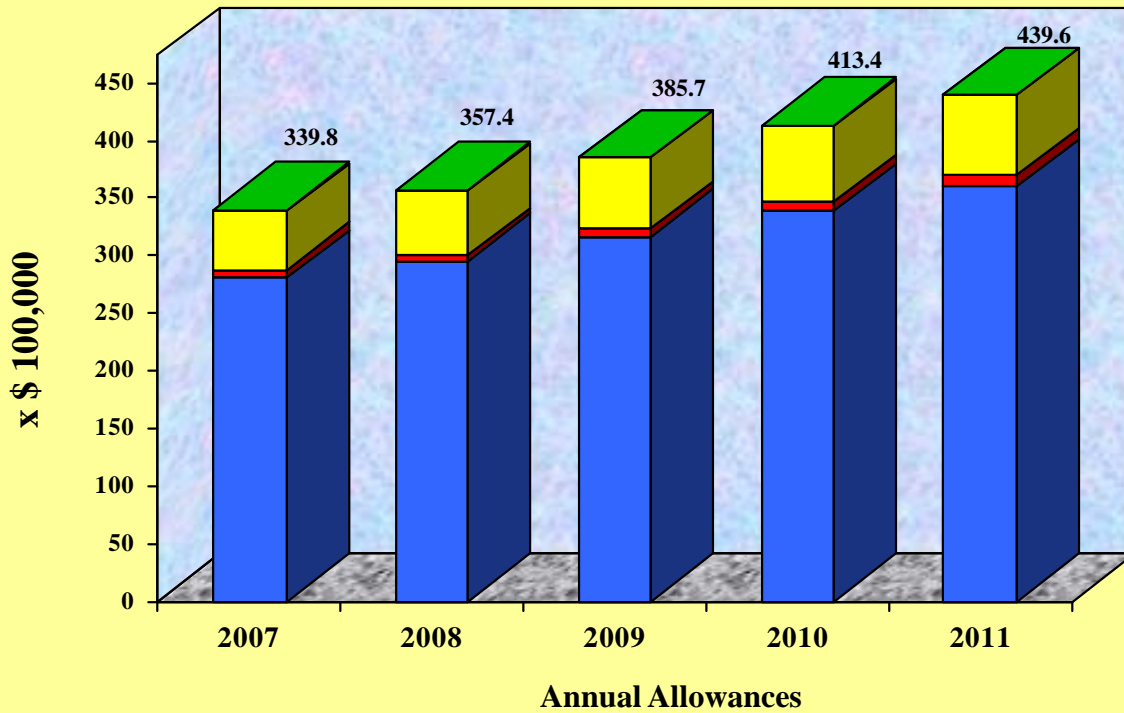
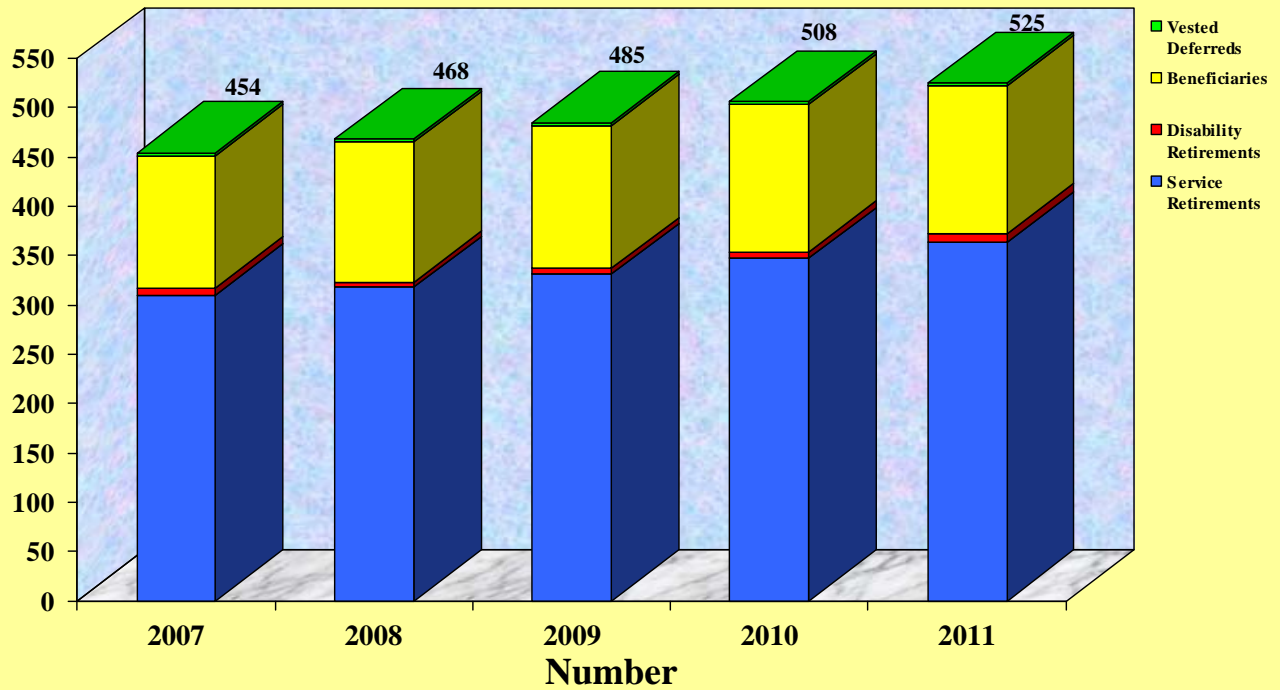
# THE JUDICIAL RETIREMENT SYSTEM OF NEW JERSEY

## SUMMARY OF ACTIVE PARTICIPATION



# THE JUDICIAL RETIREMENT SYSTEM OF NEW JERSEY

## SUMMARY OF RETIRED PARTICIPATION



SECTION III - ASSETS, LIABILITIES AND CONTRIBUTIONS

**A. Market Value of Assets as of June 30, 2011**

|    |  |   |                    |
|----|--|---|--------------------|
| 1. | Assets   |   |                    |
|    | a.   | Cash  | \$ 52,730          |
|    | b.   | Securities Lending Collateral                     | 2,940,439          |
|    | c.   | Investment Holdings                               | 264,755,249        |
|    | d.   | Interest Receivable on Investments                | 1,111,269          |
|    | e.   | Employer Contribution Receivable – NCGI           | 36,349             |
|    | f.   | Members Contribution Receivable                   | 7,705              |
|    | g.   | Accounts Receivable                               | 1,085,943          |
|    | h.   | Dividends Receivable                              | 316,852            |
|    | i.   | Loans Receivable                                  | 1,012,681          |
|    | j.   | Interest Receivable – Member Loans                | <u>0</u>           |
|    | k.   | Total   | \$ 271,319,217     |
| 2. | Liabilities  |   |                    |
|    | a.   | Pension Payroll Payable                           | \$ 2,491,885       |
|    | b.   | Pension Adjustment Payroll Payable                | 375,902            |
|    | c.   | Withholdings Payable                              | 773,635            |
|    | d.   | Securities Lending Collateral and Rebates Payable | 2,936,658          |
|    | e.   | Accounts Payable – Other                          | 420                |
|    | f.   | Securities Purchased in Transit                   | 0                  |
|    | g.   | Death Benefits Payable                            | <u>36,349</u>      |
|    | h.   | Total   | \$ 6,614,849       |
| 3. | Preliminary Market Value of Assets<br>as of June 30, 2011: 1(k) - 2(h) | \$  | 264,704,368        |
| 4. | State Appropriations Receivable  |   | <u>5,478,938</u> * |
| 5. | Market Value of Assets as of June 30, 2011: 3. + 4.                    | \$  | 270,183,306**      |

\* The fiscal year 2012 recommended pension contribution of \$38,352,572 has been reduced to \$5,478,938 to reflect Chapter 1, P.L. 2010. This amount may be subject to change per the requirements of the State's fiscal year 2012 spending plan.

\*\* Excludes assets held in the Non-Contributory Group Insurance Fund.

**B. Reconciliation of Market Value of Assets: June 30, 2010 to June 30, 2011**

|    |  |    |                |
|----|--|----|----------------|
| 1. | Market Value of Assets as of June 30, 2010                                 | \$ | 261,523,992    |
| 2. | Increases  |    |                |
| a. | Pension Contributions  |    |                |
|    | Members' Contributions   | \$ | 1,908,313      |
|    | Transfer from Other Systems  |    | 349,692        |
| b. | Accumulative Interest  |    |                |
|    | Transfer from Other Systems  |    | 317,313        |
| c. | Employers' Contributions   |    |                |
|    | State Appropriations   |    | 0              |
|    | Non-Contributory Group Insurance   |    | 651,718        |
|    | Transfer from Other Systems  |    | 1,041,542      |
|    | Administrative Fee Loans   |    | 152            |
| d. | Income   |    |                |
|    | Per Statement  |    | 42,358,461     |
| e. | Total  | \$ | 46,627,191     |
| 3. | Decreases  |    |                |
| a. | Benefits Provided by Members   |    |                |
|    | Withdrawals – Members' Contributions                                       |    |                |
|    | Regular  | \$ | 91,258         |
|    | Transfer   |    | 0              |
|    | Withdrawals – Member Interest  |    |                |
|    | Regular  |    | 0              |
|    | Transfer   |    | 0              |
| b. | Benefits Provided by Employers and Members                                 |    |                |
|    | Retirement Allowances  |    | 38,075,562     |
| c. | Benefits Provided by Employers   |    |                |
|    | Benefit Expense – Pension Adjustment – State                               |    | 4,470,753      |
|    | Administrative Expense   |    | 157,212        |
|    | Transfer Withdrawal – Employer Benefits                                    |    | 0              |
|    | Administrative Expense Loans   |    | 312            |
|    | NCGI Premium Expense   |    | 651,718        |
| d. | Total  | \$ | 43,446,815     |
| 4. | Preliminary Market Value of Assets<br>as of June 30, 2011: 1 + 2(e) – 3(d) | \$ | 264,704,368    |
| 5. | State Appropriations Receivable  |    | 5,478,938 *    |
| 6. | Market Value of Assets as of June 30, 2011:<br>4. + 5.                     | \$ | 270,183,306 ** |

\* The fiscal year 2012 recommended pension contribution of \$38,352,572 has been reduced to \$5,478,938 to reflect Chapter 1, P.L. 2010. This amount may be subject to change per the requirements of the State's fiscal year 2012 spending plan.

\*\* Excludes assets held in the Non-Contributory Group Insurance Fund.

**C. Development of Actuarial Value of Assets as of July 1, 2011**

The actuarial value of plan assets is determined using a five-year average of market value with write-up. The following summary shows the development of the actuarial value of plan assets for the current valuation.

|    |   |    |                    |
|----|---|----|--------------------|
| 1. | Actuarial Value of Assets as of July 1, 2010<br>(without State Appropriations Receivable) | \$ | 329,030,387        |
| 2. | Net Cash Flow excluding investment income   |    | (39,178,085)       |
| 3. | Expected Investment Income at 8.25%   |    |                    |
| a. | Interest on assets as of July 1, 2010   | \$ | 27,145,007         |
| b. | Interest on Net Cash Flow   |    | <u>(1,616,096)</u> |
| c. | Total   | \$ | 25,528,911         |
| 4. | Expected Actuarial Value of Assets as of July 1, 2011:<br>1. + 2. + 3.(c)                 | \$ | 315,381,213        |
| 5. | 20% of Difference from Preliminary Market Value of Assets                                 |    | (10,135,369)       |
| 6. | State Appropriations Receivable   |    | <u>5,478,938 *</u> |
| 7. | Actuarial Value of Assets as of July 1, 2011 = 4. + 5. + 6.                               | \$ | 310,724,782 **     |

\* The fiscal year 2012 recommended pension contribution of \$38,352,572 has been reduced to \$5,478,938 to reflect Chapter 1, P.L. 2010. This amount may be subject to change per the requirements of the State's fiscal year 2012 spending plan.

\*\* Excludes assets held in the Non-Contributory Group Insurance Fund.

**D. Present Value of Projected Benefits as of July 1, 2011**

|    | Reflecting the<br>Revised Economic<br>Assumptions     | Prior to Reflecting<br>the Revised Economic<br>Assumptions |                  |
|----|---|--|------------------|
| 1. | Retirees and Beneficiaries                            |  |                  |
| a. | Service Retirement                                    | \$ 332,430,672   | \$ 332,459,842   |
| b. | Disability Retirement                                 | 8,717,902  | 8,846,288        |
| c. | Beneficiaries   | 48,972,264   | 48,118,881       |
| d. | Lump Sum Death Benefits                               | <u>4,639,689</u>   | <u>4,710,837</u> |
| e. | Total   | \$ 394,760,527   | \$ 394,135,848   |
| 2. | Terminated Vested Members                             | \$ 907,818   | \$ 919,858       |
| 3. | Active Participants                                   |  |                  |
| a. | Service Retirement                                    | \$ 179,691,803   | \$ 187,715,297   |
| b. | Disability Retirement                                 | 5,650,689  | 5,960,132        |
| c. | Spousal Annuity Death Benefit<br>(Pre-Retirement)     | 3,016,710  | 3,115,795        |
| d. | Lump Sum Death Benefit*                               | <u>1,673,240</u>   | <u>1,699,569</u> |
| e. | Total   | \$ 190,032,442   | \$ 198,490,793   |
| 4. | Total Actuarial Accrued Liability:<br>1(e) + 2 + 3(e) | \$ 585,700,787   | \$ 593,546,499   |

\*Excludes lump sum death benefits payable during active service.



**E. Development of Normal Cost as of July 1, 2011**

|  | <u>Reflecting the<br/>Revised Economic<br/>Assumptions</u> | <u>Prior to Reflecting<br/>the Revised Economic<br/>Assumptions</u> |
|--|--|---|
| 1. Service Retirement                                | \$ 15,669,909  | \$ 16,685,095   |
| 2. Disability Retirement                             | 791,660  | 855,055   |
| 3. Spousal Annuity Death Benefit<br>(Pre-Retirement) | 423,238  | 438,982   |
| 4. Lump Sum Death Benefit*                           | <u>160,948</u>   | <u>164,415</u>  |
| 5. Total Pension Normal Cost* =<br>1. + 2. + 3. + 4. | \$ 17,045,755  | \$ 18,143,547   |

\*Excludes lump sum death benefits payable during active service.

**F. Development of Recommended State Pension Contributions**

|  | <u>Reflecting the<br/>Revised Economic<br/>Assumptions</u> | <u>Prior to Reflecting<br/>the Revised Economic<br/>Assumptions</u> |
|--|--|---|
| 1. Present Value of Benefits   | \$ 585,700,787   | \$ 593,546,499  |
| 2. Actuarial Value of Assets   | <u>310,724,782</u>   | <u>310,724,782</u>  |
| 3. Unfunded Actuarial Accrued<br>Liability/ (Surplus) = 1. - 2.                                | \$ 274,976,005   | \$ 282,821,717  |
| 4. Amortization Period   | 30   | 30  |
| 5. Amortization of Unfunded Actuarial Accrued<br>Liability payable July 1, 2012 (Level Dollar) | \$ 24,310,280  | \$ 25,717,236   |
| 6. (a) Gross Normal Cost (excluding<br>Non-Contributory Group Insurance Premium)               | \$ 17,045,755  | \$ 18,143,547   |
| (b) Expected Member Contributions*   | <u>1,815,070</u>   | <u>1,846,171</u>  |
| (c) State Normal Cost = (a) - (b)  | \$ 15,230,685  | \$ 16,297,376   |
| (d) State Normal Cost payable July 1, 2012<br>= (c) * (1 + interest credit**)                  | \$ 16,441,524  | \$ 17,641,910   |
| 7. Total Recommended Pension Contribution as of<br>July 1, 2012 = 5. + 6.(d)                   | \$ 40,751,804  | \$ 43,359,146   |

\* Only reflects pre-Chapter 78, P.L. 2011 member contributions of 3% of salary. Based on discussions with the Division of Pensions and Benefits, the increase in member contributions due to Chapter 78, P.L. 2011 shall not reduce the State's normal cost contribution.

\*\* The revised economic assumptions reflect a 7.95% annual interest credit. The interest credit prior to reflecting the revised economic assumptions is 8.25% per annum.

**G. Development of Chapter 1, P.L. 2010 Minimum Required Pension Contributions**<sup>Ø</sup>

|  | <u>Reflecting the<br/>Revised Economic<br/>Assumptions</u> | <u>Prior to Reflecting<br/>the Revised Economic<br/>Assumptions</u> |
|--|--|---|
| 1. State Normal Cost payable July 1, 2012 =<br>F.6.(d) x 2/7                                 | \$ 4,697,578   | \$ 5,040,546  |
| 2. Amortization of Unfunded Actuarial Accrued<br>Liability payable July 1, 2012 = F.5. x 2/7 | <u>6,945,794</u>   | <u>7,347,782</u>  |
| 3. Total Pension Contribution as of July 1, 2012 <sup>ØØ</sup><br>= 1. + 2.                  | \$ 11,643,372  | \$ 12,388,328   |

<sup>Ø</sup> Chapter 1, P.L. 2010 allows the State Treasurer to reduce the recommended contribution for the 2013 fiscal year to no less than 2/7<sup>th</sup> of the recommended contribution.

<sup>ØØ</sup> Contribution could be subject to change per the requirements of the State's fiscal year 2013 spending plan.

**H. Non-Contributory Group Insurance Premium  
(one-year term cost)**

| <u>Reflecting the<br/>Revised Economic<br/>Assumptions</u> | <u>Prior to Reflecting<br/>the Revised Economic<br/>Assumptions</u> |
|--|---|
| \$ 901,000   | \$ 904,000  |

**SECTION IV - COMMENTS CONCERNING THE VALUATION**

The variation in liabilities and contributions reflects the System's actual experience during the year. The System experienced a net actuarial loss during the year that ended June 30, 2011.

The loss is due to an actual return on System assets less than expected. For valuation purposes, an 8.25% per annum rate of return was assumed. The actual return on the Fund's actuarial value of assets was approximately 4.97% for the period from July 1, 2010 through June 30, 2011. There was an additional net loss due to experience among active and retired members.

The following shows the development of the actuarial experience, identifies the major experience components, and discusses the impact of the unfunded liability on various funded ratios:

**A. Calculation of Actuarial Experience for the Year Ended June 30, 2011**

|     |   |    |                    |
|-----|---|----|--------------------|
| 1.  | Unfunded Accrued Liability as of July 1, 2010   | \$ | 225,510,016        |
| 2.  | Gross Normal Cost as of July 1, 2010  |    | 18,434,336         |
| 3.  | Interest on (1) and (2)   |    | 20,125,409         |
| 4.  | Actual Members' Contributions Received  |    | 1,908,313          |
| 5.  | Employers' Contributions (including receivable)   |    | 5,478,938          |
| 6.  | Interest on Contributions (excluding receivables)   |    | <u>78,718</u>      |
| 7.  | Expected Unfunded Accrued Liability as of July 1, 2011<br>= (1) + (2) + (3) - (4) - (5) - (6) | \$ | 256,603,792        |
| 8.  | Change in Unfunded Accrued Liability due to the<br>Revised Economic Assumptions               |    | (7,845,712)        |
| 9.  | Actual Unfunded Accrued Liability as of July 1, 2011  |    | <u>274,976,005</u> |
| 10. | Actuarial (Gain)/Loss = (9) - (7) - (8)   | \$ | 26,217,925         |

**B. Components of Actuarial Experience**

|    |   |    |                   |
|----|---|----|-------------------|
| 1. | Investment (Gain)/Loss  | \$ | 10,135,369        |
| 2. | Other (Gain)/Loss, including mortality, salary increases<br>different than expected, and changes in employee data |    | <u>16,082,556</u> |
| 3. | Total Actuarial (Gain)/Loss   | \$ | 26,217,925        |

**C. Funded Ratios**

The following table presents the System’s funded ratio based on the actuarial value of assets (including receivables) and market value basis (including receivables).

|                                   | June 30, 2011                                      |   | June 30, 2010<br>(3) | Change   |   |
|-----------------------------------|--|---|----------------------|--|---|
|                                   | Reflecting the Revised Economic Assumptions<br>(1) | Prior to Reflecting Revised Economic Assumptions<br>(2) |                      | Reflecting the Revised Economic Assumptions<br>(1) - (3) | Prior to Reflecting Revised Economic Assumptions<br>(2) - (3) |
| <b>Actuarial Value of Assets*</b> | 53.1%  | 52.4%   | 59.3%                | (6.2)%   | (6.9)%  |
| <b>Market Value of Assets</b>     | 46.1%  | 45.5%   | 47.2%                | (1.1)%   | (1.7)%  |

\*Statutory funded ratio.

The System’s statutory funded ratio is 59.3% and 53.1% as of June 30, 2010 and June 30, 2011, respectively. For purposes of Chapter 78, P.L. 2011, the “target funded ratio” is 75.000% and 75.714% for June 30, 2010 and June 30, 2011, respectively. Therefore, the System’s statutory funded ratio did not reach the “target funded ratio” for June 30, 2010 and remained below the “target funded ratio” for June 30, 2011.

There is a difference on a market value basis since the actuarial value smoothes the investment gains and losses over time. Since July 1, 2000, the funded ratio on a market value basis has decreased by 72.9%. This decrease is primarily due to investment losses experienced over the period, State contributions less than the GASB Annual Required Contribution, and the strengthening of actuarial assumptions.

As of June 30, 2011, the market value of assets is less than the actuarial liability attributable to retirees. Furthermore, if the assets contained in the Annuity Savings Fund (ASF) of \$43,221,648 are excluded, the funded ratio of the remaining market value of assets to the actuarial accrued liability for retirees is 57.5%.

As of June 30, 2011, the ratio of market value of assets to the prior year’s benefit payment is 6.4. This is a simplistic measure of the number of years that the assets can cover benefit payments, excluding future increases in those payments, State and member contributions, and investment income. This ratio decreased by 1.5% from the previous year’s ratio of 6.5. If ASF assets are excluded, since they represent accumulated contributions from active and inactive members, the ratio is 5.3.

## SECTION V - ACCOUNTING INFORMATION

Statement No. 5 of the Governmental Accounting Standards Board, issued November 1986, established standards of disclosure of pension information by public retirement systems. Statement No. 25 of the Governmental Accounting Standards Board, issued November 1994, established financial reporting standards for defined benefit pension plans and for the notes to the financial statements of defined contribution plans of state and local governmental liabilities and superseded Statement No. 5 effective for periods beginning after June 15, 1996. Statement No. 27, Accounting for Pensions by State and Local Governmental Employers superseded Statement 5 for employers participating in pension plans and is effective for periods beginning after June 15, 1997. Statement No. 50, Accounting for Pensions by State and Local Governmental Employers amends the note disclosure and required supplementary information (RSI) of Statements No. 25 and No. 27 to conform with applicable changes adopted in Statements No. 43 and 45 for Postemployment Benefit Plans other than Pension Plans. Statement No. 50 is intended to improve the transparency of reported information about pensions by State and Local governmental plans and employers. Statement No. 50 is effective for periods beginning after June 15, 2007.

The information required by Statements No. 25, No. 27 and No. 50 is presented in the following tables. These include the development of the Annual Required Contribution (ARC), the development of the Net Pension Obligation (NPO), the Schedule of Funding Progress and the Schedule of Employer Contributions.

### **A. Development of the Annual Required Contribution (ARC) as of June 30, 2013 (Reflecting the Revised Economic Assumptions)**

|   |                   |
|---|-------------------|
| 1. Actuarial Value of Plan Assets as of June 30, 2011                       |                   |
| (a) Valuation Assets as of June 30, 2011                                    | \$ 310,724,782    |
| (b) Adjustment for Receivable Contributions included in (a)                 | <u>5,478,938*</u> |
| (c) Valuation Assets as of June 30, 2011 for GASB<br>Disclosure = (a) - (b) | \$ 305,245,844    |

\*Receivable contribution for fiscal year 2012.

|    |  |                |
|----|--|----------------|
| 2. | Actuarial Accrued Liability as of June 30, 2011<br>for GASB Disclosure                         | \$ 585,700,787 |
| 3. | Unfunded Actuarial Accrued Liability/(Surplus) as of<br>June 30, 2011 = 2. - 1.(c)             | \$ 280,454,943 |
| 4. | Amortization of Unfunded Actuarial Accrued<br>Liability/(Surplus) over 30 years (Level Dollar) | \$ 22,968,657  |
| 5. | Normal Cost as of June 30, 2011 (excludes NCGIPF)  | \$ 15,230,685  |
| 6. | Annual Required Contribution as of June 30, 2013   |                |
|    | (a) Annual Required Contribution as of June 30,<br>2011 = 4. + 5.                              | \$ 38,199,342  |
|    | (b) Interest Adjustment to June 30, 2013   | 6,315,125      |
|    | (c) Non-Contributory Group Insurance Premium   | <u>901,000</u> |
|    | (d) Annual Required Contribution as of<br>June 30, 2013 = (a) + (b) + (c)                      | \$ 45,415,467  |

**B. Development of the Net Pension Obligation (NPO) as of June 30, 2013  
(Reflecting the Revised Economic Assumptions)**

|    |   |                     |
|----|---|---------------------|
| 1. | Annual Required Contribution as of June 30, 2013        | \$ 45,415,467       |
| 2. | Interest on Net Pension Obligation                      | 12,748,704          |
| 3. | Adjustment to Annual Required Contribution              | <u>(14,177,318)</u> |
| 4. | Annual Pension Cost = 1. + 2. + 3.                      | \$ 43,986,853       |
| 5. | Expected Employer Contributions for Fiscal Year<br>2013 | \$ 12,544,372 *     |
| 6. | Increase in Net Pension Obligation = 4. - 5.            | \$ 31,442,481       |
| 7. | Net Pension Obligation at June 30, 2012                 | \$ 160,361,062 **   |
| 8. | Net Pension Obligation at June 30, 2013<br>= 6. + 7.    | \$ 191,803,543      |

\* The recommended contribution of \$41,652,804 has been reduced to \$12,544,372 for fiscal year 2013 in accordance with Chapter 1, P.L. 2010. This amount may be subject to change per the requirements of the State's fiscal year 2013 spending plan. Included in the Expected Employer Contribution for fiscal year 2013 is 100% of the Non-Contributory Group Insurance Premium of \$901,000.

\*\* The June 30, 2012 Net Pension Obligation amount has been revised from the amount shown in the prior year's report to reflect the adjustment to the fiscal year 2011 employer contribution..

**C. Schedule of Funding Progress**

| <b>Actuarial Valuation Date</b> | <b>Actuarial Value of Assets (a)</b> | <b>Actuarial Accrued Liability (b)</b> | <b>Unfunded Actuarial Accrued Liability (b-a)</b> | <b>Funded Ratio (a/b)</b> | <b>Covered Payroll (c)</b> | <b>Unfunded Actuarial Accrued Liability as a Percentage of Covered Payroll <math>\frac{(b-a)}{c}</math></b> |
|---------------------------------|--------------------------------------|--|---|---------------------------|----------------------------|---|
| 6/30/2006                       | \$ 369,493,799                       | \$ 493,778,007                         | \$ 124,284,208                                    | 74.8%                     | \$ 62,492,250              | 198.9%  |
| 6/30/2007                       | \$ 379,364,939                       | \$ 524,970,330                         | \$ 145,605,391                                    | 72.3%                     | \$ 63,144,685              | 230.6%  |
| 6/30/2008                       | \$ 380,964,713                       | \$ 553,284,647                         | \$ 172,319,934                                    | 68.9%                     | \$ 67,159,516              | 256.6%  |
| 6/30/2009                       | \$ 354,399,646                       | \$ 594,043,375                         | \$ 239,643,729                                    | 59.7%                     | \$ 70,133,372              | 341.7%  |
| 6/30/2010 <sup>o</sup>          | \$ 329,030,387                       | \$ 554,540,403                         | \$ 225,510,016                                    | 59.3%                     | \$ 71,746,413              | 314.3%  |
| 6/30/2011 <sup>o</sup>          | \$ 305,245,844                       | \$ 585,700,787                         | \$ 280,454,943                                    | 52.1%                     | \$ 67,437,125              | 415.9%  |

<sup>o</sup> Reflects Chapter 78, P.L. 2011.

**D. Schedule of Employer Contributions**

| <b>Fiscal Year #</b> | <b>Annual Required Contribution</b> | <b>Employer Contribution</b> | <b>Percentage Contributed</b> |
|----------------------|-------------------------------------|------------------------------|-------------------------------|
| 2008                 | \$ 27,171,100                       | \$ 12,913,890 *              | 47.5%                         |
| 2009                 | \$ 29,809,782                       | \$ 1,696,843 **              | 5.7%                          |
| 2010                 | \$ 32,540,704                       | \$ 1,032,857 <sup>o</sup>    | 3.2%                          |
| 2011                 | \$ 38,450,553                       | \$ 651,718 <sup>oo</sup>     | 1.7%                          |
| 2012 <sup>##</sup>   | \$ 42,475,660                       | \$ 6,437,938 ^               | 15.2%                         |
| 2013 <sup>##</sup>   | \$ 45,415,467                       | \$ 12,544,372 ^^             | 27.6%                         |

\* The fiscal year 2008 recommended contribution of \$24,288,613 has been reduced to \$12,913,890 in accordance with the provisions of the Appropriation Act for fiscal year 2008.

\*\* The fiscal year 2009 recommended contribution of \$26,811,196 has been reduced to \$1,696,843 in accordance with the final provisions of the Appropriation Act for fiscal year 2009.

<sup>o</sup> The fiscal year 2010 recommended contribution of \$29,962,945 has been reduced to \$1,032,857 in accordance with the final provisions of the Appropriation Act for fiscal year 2010.

<sup>oo</sup> The fiscal year 2011 recommended contribution of \$35,517,737 has been reduced to \$651,718 in accordance with the final provisions of the Appropriation Act for fiscal year 2011.

^ The fiscal year 2012 recommended contribution of \$39,311,572 has been reduced to \$6,437,938 in accordance with Chapter 1, P.L. 2010. This amount may be subject to change per the requirements of the State's fiscal year 2012 spending plan.

^^ The fiscal year 2013 recommended contribution of \$41,652,804 has been reduced to \$12,544,372 in accordance with Chapter 1, P.L. 2010. This amount may be subject to change per the requirements of the State's fiscal year 2013 spending plan.

# The contribution amounts reflect premiums paid to the Non-Contributory Group Insurance Premium Fund.

## Reflects Chapter 78, P.L. 2011.

- E. The information presented in the required supplementary schedules was determined as part of the actuarial valuation. Additional information follows:

|                               |  |
|-------------------------------|--|
| Valuation Date                | June 30, 2011  |
| Actuarial Cost Method         | Projected Unit Credit  |
| Amortization Method           | Level Dollar, Open   |
| Remaining Amortization Period | 30 Years   |
| Asset Valuation Method        | Five-Year Average of Market Value  |
| Actuarial Assumptions:        |  |
| Investment Rate of Return     | 7.95%  |
| Projected Salary Increases    | 2.50% for fiscal year ending 2012 through fiscal year ending 2016; 3.75% for fiscal years ending 2017 and thereafter |
| Cost of Living Adjustments    | 0.00%  |

#### SECTION VI - LEVEL OF FUNDING

Although the value of accrued benefits and the funding ratios shown in the previous section are required for the State's financial statements, it is instructive to also look at these values under an alternative approach. For this purpose, we are presenting liabilities determined on a Financial Accounting Standards Board Statement No. 87 Accumulated Benefit Obligation (ABO) basis. This is the same approach as that used for the GASB Actuarial Accrued Liability except that no assumption is made as to future salary increases.

| <u>FASB 87 ABO Funded Ratios</u>                 |                |                |
|--|----------------|----------------|
| Actuarial present value of accumulated benefits: | June 30, 2011  | June 30, 2010  |
| Vested benefits                                  |                |                |
| Participants currently receiving payments        | \$ 394,760,527 | \$ 354,390,110 |
| Other participants                               | 105,886,148    | 105,427,087    |
|  | \$ 500,646,675 | \$ 459,817,197 |
| Non-vested benefits                              | 56,604,045     | 60,459,770     |
| Total  | \$ 557,250,720 | \$ 520,276,967 |
| Assets at market value                           | \$ 270,183,306 | \$ 261,523,992 |
| Ratio of assets to total present value           | 48.5%          | 50.3%          |

As in the case of the Governmental Accounting Standard Board Statement No. 25, the actuarial present value of vested and non-vested accrued benefits was based on an interest rate of 7.95% for 2011 and 8.25% for 2010.



APPENDIX A

BRIEF SUMMARY OF THE BENEFIT AND  
CONTRIBUTION PROVISIONS AS INTERPRETED  
FOR VALUATION PURPOSES

Eligibility for Membership

Chief Justice and associate justices of the Supreme Court, judges of the Superior Court and tax courts of the State of New Jersey.

1. Definitions

|                        |  |
|------------------------|--|
| Plan Year              | The 12-month period beginning on July 1 and ending on June 30.   |
| Service                | A year is credited for each year of service as a public employee in the State of New Jersey. Any service, for which member did not receive annual salary of at least \$500, shall be excluded.   |
| Final Salary           | Annual salary received by the member at the time of retirement or other termination of service. (Effective June 30, 1996, Chapter 113, P.L. 1997 provided that the amount of compensation used for employer and member contributions and benefits under the program cannot exceed the compensation limitation of Section 401(a)(17) of the Internal Revenue Code.) |
| Accumulated Deductions | The sum of all amounts deducted from the compensation of a member or contributed by him or on his behalf.  |
| Retirement Allowance   | Pension derived from contributions of the State plus the annuity derived from employee contributions.  |

2. Benefits

|                    |  |
|--------------------|--|
| Service Retirement | (A) Mandatory retirement at age 70. Voluntary retirement prior to age 70 as follows:<br><br>(a) Age 70 and 10 years of judicial service;<br>(b) Age 65 and 15 years of judicial service; or<br>(c) Age 60 and 20 years of judicial service.<br><br>Benefit is an annual retirement allowance equal to 75% of final salary. |
|                    | (B) Age 65 while serving as a judge, 5 consecutive years of judicial service and 15 years in the aggregate of public service; or<br><br>Age 60 while serving as a judge, 5 consecutive years of judicial service and 20 years in the aggregate of public service.  |

Benefit is an annual retirement allowance equal to 50% of final salary.

- (C) Age 60 while serving as a judge, 5 consecutive years of judicial service and 15 years in the aggregate of public service. Benefit is an annual retirement allowance equal to 2% of final salary for each year of public service up to 25 years plus 1% of final salary for each year in excess of 25 years.
- (D) Age 60 while serving as a judge. Benefit is an annual retirement allowance equal to 2% of final salary for each year of judicial service up to 25 years plus 1% for each year in excess of 25 years.

Early Retirement

Prior to age 60 while serving as a judge, 5 consecutive years of judicial service and 25 or more years in the aggregate of public service. Benefit is an annual retirement allowance equal to 2% of final salary for each year of public service up to 25 years plus 1% of final salary for each year of public service in excess of 25 years, actuarially reduced for commencement prior to age 60.

Vested Termination

Termination of service prior to age 60, with 5 consecutive years of judicial service and 10 years in the aggregate of public service. Benefit is a refund of accumulated deductions, or a deferred life annuity beginning at age 60 equal to 2% of final salary for each year of public service up to 25 years, plus 1% for service in excess of 25 years.

Death Benefits

Before Retirement

Death of an active member of the plan. Benefit is equal to:

- (a) Lump sum payment equal to 1-1/2 times final salary, plus
- (b) Spousal life annuity of 25% of final salary payable until spouse's remarriage plus 10% (15%) to one (two or more) dependent child (children). If there is no surviving spouse, or upon death or remarriage, a total of 15% (20%, 30%) of final salary payable to one (two, three or more) dependent child (children). If there is no surviving spouse (or dependent children), 20% or 30% of final salary to one or two dependent parents.

After Retirement

Death of a retired member of the plan. Benefit is equal to:

- (a) Lump sum of 25% of final salary for a member retired under normal or early retirement. If a member were receiving a disability benefit, a lump sum 1-1/2 times final salary if death occurred before the member attained age 60 and 1/4 times final salary if death occurred after age 60, plus

- (b) Spousal life annuity of 25% of final salary payable until spouse's remarriage plus 10% (15%) to one (two or more) dependent child (children). If there is no surviving spouse, or upon death or remarriage, a total of 15% (20%, 30%) of final salary payable to one (two, three or more) dependent child (children).

Disability Retirement

Physically or otherwise incapacitated for the full and efficient service to State in his judicial capacity and such incapacity is likely to be permanent. Benefit is an annual retirement allowance of 75% of final salary.

Member Contributions

Any member enrolled prior to January 1, 1996 contributes 3% of the difference between current salary and salary for that position on January 18, 1982. Members enrolled on and after January 1, 1996 contribute 3% of their full salary.

Chapter 78, P.L. 2011 increased Member Contributions by 9% of salary phased-in over a period of seven years beginning October 2011. (The additional 9% of salary will be fully phased-in in July 2017.)

- (a) For members enrolled prior to January 1, 1996:
  - i. Member Contributions of 9% (phased-in over a period of seven years beginning October 2011) of the salary for that position on January 18, 1982.
  - ii. Member Contributions increase from 3% to 12% (phased-in over a period of seven years beginning October 2011) of the difference between current salary and salary for that position on January 18, 1982.
- (b) For members enrolled on or after January 1, 1996, Member Contributions increase from 3% to 12% of full salary phased-in over a period of seven years beginning October 2011.

However, on October 21, 2011, Judge Feinberg of the Superior Court, Law Division issued an Order in *DePascale v. State* declaring these pension contribution increases unconstitutional as applied to Justices of the Supreme Court and Judges of the Superior Court who were appointed prior to June 28, 2011, the effective date of Chapter 78, P.L. 2011. The Order also enjoined implementation of Chapter 78, P.L. 2011 as it applies to these Justices and Judges. The Order did not address the issue of Justices and Judges who were appointed after the effective date of Chapter 78, P.L. 2011. The *DePascale* case is now on direct appeal to the State Supreme Court.

APPENDIX B

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

VALUATION INTEREST RATE: 7.95% per annum, compounded annually.

COLA: No future COLA is assumed.

SALARY INCREASES: Salaries are assumed to increase by 2.50% per year for fiscal year ending 2012 through fiscal year ending 2016 and 3.75% per year for fiscal years ending 2017 and thereafter.

SEPARATIONS FROM SERVICE: Representative mortality and disability rates are as follows:

| <u>Age</u> | <u>Lives per Thousand</u> |               | <u>Disability</u> |
|------------|---------------------------|---------------|-------------------|
|            | <u>Male</u>               | <u>Female</u> |                   |
| 30         | 0.38                      | 0.22          | 0.22              |
| 35         | 0.44                      | 0.35          | 0.26              |
| 40         | 0.77                      | 0.55          | 0.33              |
| 45         | 1.08                      | 0.85          | 0.64              |
| 50         | 1.51                      | 1.33          | 1.14              |
| 55         | 2.14                      | 2.02          | 1.97              |
| 60         | 3.62                      | 3.48          | 3.26              |
| 65         | 6.75                      | 6.66          | 4.73              |

DEATHS AFTER RETIREMENT: RP-2000 Combined Healthy Mortality Tables (set back 5 years for males and 3 years for females) for service retirement and beneficiaries of former members. The RP-2000 Disability Mortality Tables (set forward 2 years for males and females) are used to value disabled retirees. There has been no provision made for future mortality improvement after the valuation date. Representative values of the annual rates of mortality are as follows:

| <u>Age</u> | <u>Lives Per Thousand</u>                                      |                |                         |                |
|------------|--|----------------|-------------------------|----------------|
|            | <u>Retired Members &amp; Beneficiaries of Deceased Members</u> |                | <u>Disabled Members</u> |                |
|            | <u>Males</u>   | <u>Females</u> | <u>Males</u>            | <u>Females</u> |
| 55         | 2.14   | 2.02           | 38.03                   | 18.65          |
| 60         | 3.62   | 3.48           | 44.98                   | 24.08          |
| 65         | 6.75   | 6.66           | 54.45                   | 31.32          |
| 70         | 12.74  | 12.16          | 69.41                   | 42.85          |
| 75         | 22.21  | 20.66          | 92.15                   | 59.54          |
| 80         | 37.83  | 34.11          | 121.88                  | 82.30          |
| 85         | 64.37  | 56.29          | 155.23                  | 114.51         |
| 90         | 110.76   | 96.34          | 216.61                  | 159.92         |

RETIREMENT: It was assumed that the probability of retirement at age 65 for those judges who have 12 or more years of judicial service at age 65 is at 25% per year. In addition, retirement for members who have attained age 60 with 20 years of judicial service or attained age 65 with 15 years judicial service is at 30% at age 60, 25% at age 65 and 20% for all other ages between ages 60 and 70. At age 70, all remaining active members are assumed to retire.

**MARRIAGE:** Husbands are assumed to be 3 years older than wives. Among the active population, 90% of participants are assumed married. No children are assumed. Neither the percentage married nor the number of children assumption is individually explicit but are considered reasonable as a single combined assumption.

**VALUATION METHOD:** Projected Unit Credit Method. This method essentially funds the System's benefits accrued to the valuation date. Experience gains and losses are recognized in future accrued liability contributions. In accordance with Chapter 78, P.L. 2011, beginning with the July 1, 2010 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars, it will amortize the unfunded accrued liability over an open 30 year period. Beginning with the July 1, 2019 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars, it will amortize the unfunded accrued liability over a closed 30 year period (i.e., for each subsequent actuarial valuation the amortization period shall decrease by one year.) Beginning with the July 1, 2029 actuarial valuation, when the remaining amortization period reaches 20 years, any increase or decrease in the unfunded accrued liability as a result of actuarial basis or gains for subsequent valuation years shall serve to increase or decrease, respectively, the amortization period for the unfunded accrued liability, unless an increase in the amortization period will cause it to exceed 20 years. If an increase in the amortization period as a result of actuarial losses for a valuation year would exceed 20 years, the accrued liability contribution shall be computed for the valuation year using a 20 year amortization period.

Chapter 78, P.L. 2011 increased the member contributions by 9% of salary, phased-in over a seven year period. Based on discussions with the Division of Pensions and Benefits, the increase in member contributions due to Chapter 78, P.L. 2011 shall not reduce the State's normal cost contribution.

**ASSET VALUATION METHOD:** A five year average of market values with write-up was used. This method takes into account appreciation (depreciation) in investments in order to smooth asset values by averaging the excess of the actual over the expected income, on a market value basis, over a five-year period.

## APPENDIX C

### TABULATIONS USED AS A BASIS FOR THE 2011 VALUATION

The following table gives a reconciliation of data from July 1, 2010 to June 30, 2011. Tables are also given showing the distribution of active members' salaries by age and length of service as of July 1, 2011 and showing the number and retirement allowances of beneficiaries classified by age as of July 1, 2011.

TABLE 1

RECONCILIATION OF DATA FROM JULY 1, 2010 TO JUNE 30, 2011

|                                  | Actives  |             | Deferred<br>Vested | Retirees |         |          |          | Beneficiaries | Dependents | Domestic<br>Relations<br>Beneficiaries | Total |
|----------------------------------|----------|-------------|--------------------|----------|---------|----------|----------|---------------|------------|--|-------|
|                                  | Contrib. | Noncontrib. |                    | Service  | Special | Deferred | Disabled |               |            |  |       |
| Members as of June 30, 2010      | 429      | 3           | 3                  | 333      | 3       | 5        | 7        | 144           | 5          | 8                                      | 940   |
| Status Change:                   |          |             |                    |          |         |          |          |               |            |  |       |
| To Contributing                  | 1        | (1)         |                    |          |         |          |          |               |            |  |       |
| To Noncontributing               | (5)      | 5           |                    |          |         |          |          |               |            |  |       |
| New Deferred Vested              |          |             |                    |          |         |          |          |               |            |  |       |
| New Terminated Non-Vested        | (1)      |             |                    |          |         |          |          |               |            |  | (1)   |
| New Service Retirement           | (25)     |             |                    | 25       |         |          |          |               |            |  |       |
| New Special Retirement           |          |             |                    |          |         |          |          |               |            |  |       |
| New Deferred Vesteds Now Payable |          |             |                    |          |         |          |          |               |            |  |       |
| New Disabled                     | (3)      |             |                    |          |         |          | 3        |               |            |  |       |
| New Death                        | (2)      |             |                    | (11)     |         |          | (1)      | (9)           |            |  | (23)  |
| New Beneficiaries                |          |             |                    |          |         |          |          | 10            | 2          |  | 12    |
| End of Payments                  |          |             |                    |          |         |          |          |               | (2)        | (1)                                    | (3)   |
| New Actives                      | 7        |             |                    |          |         |          |          |               |            |  | 7     |
| Rehires                          |          |             |                    |          |         |          |          |               |            |  |       |
| Data Corrections                 | (2)      |             |                    | 1        |         |          |          |               |            |  | (1)   |
| Members as of June 30, 2011      | 399      | 7           | 3                  | 348      | 3       | 5        | 9        | 145           | 5          | 7                                      | 931   |

**TABLE 2**

**DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND SERVICE**

| <b>AGE</b>         | <b>SERVICE</b> | <b>1</b>         | <b>5</b>          | <b>10</b>         | <b>15</b>         | <b>20</b>         | <b>25</b>        | <b>30</b>      | <b>35</b>      | <b>TOTAL</b>      |
|--------------------|----------------|------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------|----------------|-------------------|
| <b>20</b>          | Number         |                  |                   |                   |                   |                   |                  |                |                |                   |
|                    | Salary         |                  |                   |                   |                   |                   |                  |                |                |                   |
| <b>25</b>          | Number         |                  |                   |                   |                   |                   |                  |                |                |                   |
|                    | Salary         |                  |                   |                   |                   |                   |                  |                |                |                   |
| <b>30</b>          | Number         |                  |                   |                   |                   |                   |                  |                |                |                   |
|                    | Salary         |                  |                   |                   |                   |                   |                  |                |                |                   |
| <b>35</b>          | Number         | 1                |                   |                   |                   |                   |                  |                |                | <b>1</b>          |
|                    | Salary         | 165,000          |                   |                   |                   |                   |                  |                |                | <b>165,000</b>    |
| <b>40</b>          | Number         | 5                | 1                 |                   |                   |                   |                  |                |                | <b>6</b>          |
|                    | Salary         | 825,000          | 165,000           |                   |                   |                   |                  |                |                | <b>990,000</b>    |
| <b>45</b>          | Number         | 6                | 8                 | 1                 |                   |                   |                  |                |                | <b>15</b>         |
|                    | Salary         | 990,000          | 1,320,000         | 165,000           |                   |                   |                  |                |                | <b>2,475,000</b>  |
| <b>50</b>          | Number         | 13               | 30                | 16                | 1                 |                   |                  |                |                | <b>60</b>         |
|                    | Salary         | 2,145,000        | 4,977,795         | 2,640,000         | 165,000           |                   |                  |                |                | <b>9,927,795</b>  |
| <b>55</b>          | Number         | 12               | 25                | 31                | 16                | 6                 |                  |                |                | <b>90</b>         |
|                    | Salary         | 1,980,000        | 4,145,482         | 5,146,016         | 2,657,550         | 1,013,996         |                  |                |                | <b>14,943,044</b> |
| <b>60</b>          | Number         | 20               | 24                | 30                | 20                | 36                |                  |                |                | <b>130</b>        |
|                    | Salary         | 3,300,000        | 3,960,000         | 4,962,482         | 3,352,670         | 6,019,594         |                  |                |                | <b>21,594,746</b> |
| <b>63</b>          | Number         | 3                | 11                | 17                | 13                | 13                | 4                |                |                | <b>61</b>         |
|                    | Salary         | 495,000          | 1,815,000         | 2,805,000         | 2,155,534         | 2,162,265         | 687,799          |                |                | <b>10,120,598</b> |
| <b>66 and over</b> | Number         |                  | 4                 | 11                | 11                | 7                 | 6                | 3              | 1              | <b>43</b>         |
|                    | Salary         |                  | 660,000           | 1,825,534         | 1,836,068         | 1,165,534         | 1,021,602        | 526,722        | 185,482        | <b>7,220,942</b>  |
| <b>TOTAL</b>       | Number         | <b>60</b>        | <b>103</b>        | <b>106</b>        | <b>61</b>         | <b>62</b>         | <b>10</b>        | <b>3</b>       | <b>1</b>       | <b>406</b>        |
|                    | Salary         | <b>9,900,000</b> | <b>17,043,277</b> | <b>17,544,032</b> | <b>10,166,822</b> | <b>10,361,389</b> | <b>1,709,401</b> | <b>526,722</b> | <b>185,482</b> | <b>67,437,125</b> |



**TABLE 3**  
**THE NUMBER AND ANNUAL COMPENSATION OF**  
**ACTIVE MEMBERS DISTRIBUTED BY AGE**  
**AS OF JUNE 30, 2011**

| AGE          | MEN        |                      | WOMEN      |                      |
|--------------|------------|----------------------|------------|----------------------|
|              | NUMBER     | AMOUNT               | NUMBER     | AMOUNT               |
| 38           | 1          | \$ 165,000           |            |                      |
| 41           |            |                      | 2          | \$ 330,000           |
| 42           | 1          | 165,000              |            |                      |
| 43           | 4          | 660,000              | 1          | 165,000              |
| 44           | 1          | 165,000              | 1          | 165,000              |
| 45           | 2          | 330,000              | 1          | 165,000              |
| 46           |            |                      | 1          | 165,000              |
| 47           | 5          | 825,000              | 2          | 330,000              |
| 48           | 1          | 165,000              |            |                      |
| 49           | 4          | 660,000              | 4          | 660,000              |
| 50           | 2          | 330,000              | 9          | 1,485,000            |
| 51           | 13         | 2,172,795            | 4          | 660,000              |
| 52           | 8          | 1,320,000            | 5          | 825,000              |
| 53           | 12         | 1,990,534            | 7          | 1,155,000            |
| 54           | 10         | 1,650,000            | 1          | 165,000              |
| 55           | 9          | 1,495,534            | 6          | 990,000              |
| 56           | 11         | 1,815,000            | 8          | 1,330,534            |
| 57           | 13         | 2,145,000            | 8          | 1,343,695            |
| 58           | 15         | 2,506,016            | 9          | 1,512,799            |
| 59           | 20         | 3,331,016            | 8          | 1,341,068            |
| 60           | 17         | 2,822,265            | 2          | 330,000              |
| 61           | 20         | 3,326,530            | 9          | 1,485,000            |
| 62           | 18         | 2,970,000            | 9          | 1,512,799            |
| 63           | 26         | 4,290,000            | 4          | 660,000              |
| 64           | 24         | 3,987,799            | 4          | 670,534              |
| 65           | 9          | 1,485,000            | 2          | 347,265              |
| 66           | 14         | 2,310,000            | 3          | 505,534              |
| 67           | 12         | 1,990,534            | 2          | 330,000              |
| 68           | 8          | 1,351,722            |            |                      |
| 69           | 12         | 2,022,136            | 2          | 361,016              |
| and over     |            |                      |            |                      |
| <b>TOTAL</b> | <b>292</b> | <b>\$ 48,446,881</b> | <b>114</b> | <b>\$ 18,990,244</b> |

Of the 406 active members included in the June 30, 2011 valuation data, 192 are vested and 214 have not yet completed the vesting service requirement.

**TABLE 4**  
**THE NUMBER AND ANNUAL COMPENSATION OF**  
**ACTIVE MEMBERS DISTRIBUTED BY SERVICE**  
**AS OF JUNE 30, 2011**

| YEARS<br>OF<br>SERVICE | MEN        |                      | WOMEN      |                      |
|------------------------|------------|----------------------|------------|----------------------|
|                        | NUMBER     | AMOUNT               | NUMBER     | AMOUNT               |
| 0                      | 2          | \$ 330,000           | 2          | \$ 330,000           |
| 1                      | 13         | 2,145,000            | 6          | 990,000              |
| 2                      | 25         | 4,125,000            | 12         | 1,980,000            |
| 3                      | 12         | 1,980,000            | 8          | 1,320,000            |
| 4                      | 20         | 3,327,795            | 6          | 990,000              |
| 5                      | 11         | 1,815,000            | 1          | 165,000              |
| 6                      | 19         | 3,135,000            | 7          | 1,155,000            |
| 7                      | 16         | 2,660,482            | 3          | 495,000              |
| 8                      | 12         | 1,972,000            | 6          | 990,000              |
| 9                      | 23         | 3,815,482            | 8          | 1,320,000            |
| 10                     | 20         | 3,310,534            | 6          | 1,000,534            |
| 11                     | 12         | 1,980,000            | 6          | 1,010,482            |
| 12                     | 10         | 1,650,000            | 3          | 495,000              |
| 13                     | 12         | 2,001,068            | 4          | 670,534              |
| 14                     | 10         | 1,660,534            | 10         | 1,681,602            |
| 15                     | 5          | 835,534              | 2          | 306,000              |
| 16                     | 12         | 1,990,534            | 3          | 505,534              |
| 17                     | 2          | 330,000              | 1          | 185,482              |
| 18                     | 10         | 1,677,799            | 6          | 1,011,068            |
| 19                     | 11         | 1,815,000            | 4          | 673,462              |
| 20                     | 13         | 2,162,265            | 3          | 501,731              |
| 21                     | 2          | 340,534              | 1          | 165,000              |
| 22                     | 8          | 1,326,731            | 4          | 687,799              |
| 23                     | 1          | 165,000              | 1          | 175,534              |
| 24                     | 2          | 347,265              |            |                      |
| 25                     | 1          | 175,534              |            |                      |
| 26                     | 1          | 175,534              |            |                      |
| 27                     | 4          | 670,534              |            |                      |
| 28                     | 2          | 351,188              |            |                      |
| 30                     | 1          | 175,534              |            |                      |
| 33                     |            |                      | 1          | 185,482              |
| <b>TOTAL</b>           | <b>292</b> | <b>\$ 48,446,881</b> | <b>114</b> | <b>\$ 18,990,244</b> |

Of the 406 active members included in the June 30, 2011 valuation data, 192 are vested and 214 have not yet completed the vesting service requirement.

**TABLE 5**

**AVERAGE AGE AND ANNUAL BENEFIT AT RETIREMENT**

|                     | <b>Service Retirement</b>        |   | <b>Disability Retirement</b>     |   | <b>Survivors</b>                   |   |
|---------------------|----------------------------------|---|----------------------------------|---|------------------------------------|---|
|                     | <b>Average Age At Retirement</b> | <b>Average Annual Benefit At Retirement</b> | <b>Average Age At Retirement</b> | <b>Average Annual Benefit At Retirement</b> | <b>Average Age At Retirement *</b> | <b>Average Annual Benefit At Retirement</b> |
|                     | <b>All Retirees</b>              | 66.1  | \$ 90,386                        | 62.6  | \$ 108,666                         | 58.9  |
| <b>New Retirees</b> | 67.1                             | \$ 110,760                                  | 64.0                             | \$ 115,459                                  | 54.0                               | \$ 46,802                                   |

|  | <b>All Retirements (excluding Survivors)</b> |   |
|--|--|---|
|  | <b>Average Age At Retirement</b>             | <b>Average Annual Benefit At Retirement</b> |
|  | <b>All Retirees</b>                          | 66.0  |

*Note: The Average Annual Benefit at Retirement does not reflect COLA's granted after retirement.*

*\* Calculated as of Member's Date of Retirement*

**TABLE 6**  
**THE NUMBER AND ANNUAL RETIREMENT**  
**ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED**  
**BY AGE AS OF JUNE 30, 2011**

**SERVICE RETIREMENTS**

| AGE          | MEN        |                      | WOMEN     |                     |
|--------------|------------|----------------------|-----------|---------------------|
|              | NUMBER     | AMOUNT               | NUMBER    | AMOUNT              |
| 60           |            |                      | 1         | \$ 51,102           |
| 62           | 1          | \$ 83,646            | 4         | 459,388             |
| 63           | 3          | 322,634              | 2         | 107,345             |
| 64           | 3          | 259,747              |           |                     |
| 65           | 7          | 662,279              | 1         | 117,781             |
| 66           | 15         | 1,688,324            | 4         | 462,474             |
| 67           | 11         | 1,144,734            | 1         | 116,696             |
| 68           | 11         | 1,166,242            | 3         | 326,151             |
| 69           | 16         | 1,872,592            | 2         | 194,365             |
| 70           | 18         | 1,865,281            | 1         | 117,781             |
| 71           | 19         | 1,957,252            | 2         | 235,636             |
| 72           | 18         | 1,750,479            | 1         | 75,266              |
| 73           | 10         | 1,146,347            | 5         | 452,130             |
| 74           | 20         | 1,981,586            |           |                     |
| 75           | 19         | 1,816,242            | 3         | 295,416             |
| 76           | 12         | 1,154,805            | 2         | 220,952             |
| 77           | 21         | 1,933,978            | 1         | 126,365             |
| 78           | 12         | 1,115,168            |           |                     |
| 79           | 15         | 1,417,022            |           |                     |
| 80           | 8          | 901,767              | 2         | 160,244             |
| 81           | 12         | 1,239,588            |           |                     |
| 82           | 11         | 1,033,751            | 1         | 104,284             |
| 83           | 6          | 559,761              | 2         | 200,667             |
| 84           | 7          | 707,250              |           |                     |
| 85           | 8          | 708,443              |           |                     |
| 86           | 3          | 293,583              |           |                     |
| 87           | 16         | 1,419,714            |           |                     |
| 88           | 5          | 469,008              |           |                     |
| 89           | 2          | 198,399              | 1         | 101,210             |
| 90           | 3          | 241,124              | 1         | 91,804              |
| 91           | 4          | 325,976              |           |                     |
| 92           | 1          | 90,843               |           |                     |
| 95           | 1          | 36,938               |           |                     |
| 96           | 2          | 162,845              |           |                     |
| 100          | 1          | 84,376               |           |                     |
| 101          | 2          | 138,699              |           |                     |
| <b>TOTAL</b> | <b>323</b> | <b>\$ 31,950,423</b> | <b>40</b> | <b>\$ 4,017,057</b> |

**TABLE 7**

**THE NUMBER AND ANNUAL RETIREMENT  
ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED  
BY AGE AS OF JUNE 30, 2011**

**DISABILITY RETIREMENTS**

| <b>AGE</b>   | <b>MEN</b>    |                   | <b>WOMEN</b>  |                   |
|--------------|---------------|-------------------|---------------|-------------------|
|              | <b>NUMBER</b> | <b>AMOUNT</b>     | <b>NUMBER</b> | <b>AMOUNT</b>     |
| 55           |               |                   | 1             | \$ 115,386        |
| 61           | 1             | \$ 124,923        |               |                   |
| 63           | 1             | 112,489           | 1             | 124,922           |
| 64           | 1             | 123,750           |               |                   |
| 65           | 1             | 110,137           |               |                   |
| 68           | 1             | 111,746           |               |                   |
| 80           | 1             | 116,755           |               |                   |
| 91           | 1             | 94,978            |               |                   |
| <b>TOTAL</b> | <b>7</b>      | <b>\$ 794,778</b> | <b>2</b>      | <b>\$ 240,308</b> |

**TABLE 8**

**THE NUMBER AND ANNUAL RETIREMENT  
ALLOWANCES OF BENEFICIARIES DISTRIBUTED  
BY AGE AS OF JUNE 30, 2011**

**ACTIVE MEMBERS' DEATH BENEFITS**

| <b>AGE</b>   | <b>MEN</b>    |                  | <b>WOMEN</b>  |                   |
|--------------|---------------|------------------|---------------|-------------------|
|              | <b>NUMBER</b> | <b>AMOUNT</b>    | <b>NUMBER</b> | <b>AMOUNT</b>     |
| 69           |               |                  | 1             | \$ 39,653         |
| 72           | 1             | \$ 34,761        | 1             | 27,874            |
| 74           |               |                  | 3             | 99,127            |
| 75           |               |                  | 2             | 69,640            |
| 76           |               |                  | 1             | 33,736            |
| 77           |               |                  | 2             | 67,195            |
| 78           |               |                  | 2             | 66,263            |
| 80           |               |                  | 2             | 61,582            |
| 82           |               |                  | 2             | 65,631            |
| 87           |               |                  | 1             | 27,874            |
| 91           |               |                  | 1             | 29,708            |
| <b>TOTAL</b> | <b>1</b>      | <b>\$ 34,761</b> | <b>18</b>     | <b>\$ 588,283</b> |

**TABLE 9**

**THE NUMBER AND ANNUAL RETIREMENT  
ALLOWANCES OF BENEFICIARIES DISTRIBUTED  
BY AGE AS OF JUNE 30, 2011**

**RETIRED MEMBERS' DEATH BENEFITS**

| AGE          | MEN      |                   | WOMEN      |                     |
|--------------|----------|-------------------|------------|---------------------|
|              | NUMBER   | AMOUNT            | NUMBER     | AMOUNT              |
| 19           |          |                   | 1          | \$ 16,500           |
| 22           | 1        | \$ 9,384          |            |                     |
| 44           | 1        | 17,553            |            |                     |
| 57           | 1        | 19,062            |            |                     |
| 60           |          |                   | 2          | 70,199              |
| 61           |          |                   | 1          | 136,040             |
| 62           |          |                   | 1          | 128,797             |
| 63           | 1        | 11,744            | 2          | 80,168              |
| 64           |          |                   | 3          | 200,645             |
| 65           |          |                   | 1          | 40,402              |
| 66           |          |                   | 1          | 51,612              |
| 67           |          |                   | 4          | 252,496             |
| 68           |          |                   | 1          | 39,461              |
| 69           | 1        | 41,250            | 4          | 368,527             |
| 70           |          |                   | 2          | 173,666             |
| 71           |          |                   | 2          | 98,232              |
| 72           |          |                   | 1          | 114,169             |
| 73           |          |                   | 2          | 146,058             |
| 74           |          |                   | 3          | 150,150             |
| 75           |          |                   | 3          | 196,303             |
| 76           |          |                   | 1          | 39,653              |
| 77           |          |                   | 4          | 186,777             |
| 78           |          |                   | 5          | 186,802             |
| 79           |          |                   | 3          | 189,454             |
| 80           |          |                   | 6          | 404,049             |
| 81           | 2        | 105,555           | 3          | 98,262              |
| 82           |          |                   | 7          | 259,814             |
| 83           |          |                   | 3          | 90,601              |
| 84           |          |                   | 7          | 287,343             |
| 85           |          |                   | 7          | 406,437             |
| 86           |          |                   | 2          | 74,500              |
| 87           |          |                   | 8          | 271,129             |
| 88           |          |                   | 6          | 265,911             |
| 89           |          |                   | 6          | 236,073             |
| 90           |          |                   | 3          | 112,870             |
| 91           |          |                   | 4          | 112,285             |
| 92           |          |                   | 1          | 30,087              |
| 93           |          |                   | 6          | 269,777             |
| 94           |          |                   | 2          | 66,000              |
| 95           |          |                   | 3          | 83,908              |
| 96           |          |                   | 1          | 46,371              |
| 98           |          |                   | 1          | 26,292              |
| 100          |          |                   | 1          | 30,087              |
| <b>TOTAL</b> | <b>7</b> | <b>\$ 204,548</b> | <b>124</b> | <b>\$ 6,037,905</b> |

**TABLE 10**

**THE NUMBER AND ANNUAL RETIREMENT  
ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED  
BY AGE AS OF JUNE 30, 2011**

**DEFERRED TERMINATED VESTEDS**

| <b>AGE</b>   | <b>MEN</b>    |                  | <b>WOMEN</b>  |                  |
|--------------|---------------|------------------|---------------|------------------|
|              | <b>NUMBER</b> | <b>AMOUNT</b>    | <b>NUMBER</b> | <b>AMOUNT</b>    |
| 50           |               |                  | 1             | \$ 44,885        |
| 58           | 1             | \$ 27,555        |               |                  |
| 66           | 1             | 21,250           |               |                  |
| <b>TOTAL</b> | <b>2</b>      | <b>\$ 48,805</b> | <b>1</b>      | <b>\$ 44,885</b> |