

REPORT ON THE  
ACTUARIAL VALUATION  
OF THE VERMONT STATE EMPLOYEES'  
RETIREMENT SYSTEM  
PREPARED AS OF JUNE 30, 2013

OCTOBER 23, 2013

October 23, 2013

Board of Trustees  
Vermont State Employees' Retirement System  
Montpelier, Vermont 05609

Dear Board Members:

Section 471, subsection (k), of Title 3, Chapter 16, Vermont Statutes Annotated, relating to the Vermont State Employees' Retirement System, provides in part that the actuary shall make annual valuations of the system.

The actuarial valuation of the system, prepared as of June 30, 2013, has now been completed and the results are presented in this report, together with our recommendations in regard to contributions payable by the State. The Table of Contents, which immediately follows, outlines the material contained in this report.

The total recommended state contribution for the fiscal year beginning July 1, 2013, amounts to \$42,522,931. Schedule F contains the estimated contributions for the following two years.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. An analysis of the potential range of future results is beyond the scope of this valuation.

I am a Fellow of the Society of Actuaries and a Member of the American Academy of Actuaries. I meet the Qualification Standards of the Academy to render the actuarial opinions contained herein. This report has been prepared in accordance with all applicable Actuarial Standards of Practice, and I am available to answer questions concerning it.

Respectfully submitted,

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REPORT ON THE ACTUARIAL VALUATION OF THE  
VERMONT STATE EMPLOYEES' RETIREMENT SYSTEM  
PREPARED AS OF JUNE 30, 2013

SECTION I - SUMMARY OF PRINCIPAL RESULTS

1. For convenience of reference, the principal results of the valuation and a comparison with the preceding year's results are summarized below:

| Valuation Date                                  | June 30, 2012   | June 30, 2013   |
|---|-----------------|-----------------|
| Active members                                  |                 |                 |
| Vested  | 5,735           | 5,763           |
| Not vested                                      | <u>2,143</u>    | <u>2,395</u>    |
| Total   | 7,878           | 8,158           |
| Compensation                                    | \$385,525,891   | \$416,766,032   |
| Average age                                     | 46.35           | 46.17           |
| Average service                                 | 12.45           | 12.15           |
| Average compensation                            | 48,937          | 51,087          |
| Retired members and beneficiaries               |                 |                 |
| Number  | 5,600           | 5,795           |
| Annual retirement allowances                    | \$93,712,861    | \$98,932,427    |
| Inactive members                                | 835             | 796             |
| Terminated vested members                       | 767             | 741             |
| Adjusted assets for valuation                   | \$1,400,779,062 | \$1,469,169,902 |
| Unfunded actuarial accrued liability            | \$401,824,745   | \$445,130,082   |
| Annual actuarial accrued liability contribution | \$23,108,413    | \$26,227,379    |
| Normal contribution rate                        | 3.96%           | 3.91%           |

2. Under agreements reached by the State with its workers, salary restoration will apply to several employee groups that participate in the System. Salaries of all classified non-exempt employees who are not public safety or judiciary employees were increased by 3%. Salaries of all classified exempt employees who are not public safety or judiciary employees were increased by 5%. Salaries of all public safety employees were increased by 3% effective July, 2012. Salaries of all Judiciary employees were increased by 4.6% effective July, 2012.
3. Schedule B outlines the full set of actuarial assumptions and methods employed in the current valuation. There have been no changes in the assumptions since the last valuation. The assumptions now in use were based on an experience study covering the period from July 1, 2005, through June 30, 2010. The mortality assumptions now in use were adopted by the Board on the basis of this study. The review of assumptions in the next experience study will take account of the requirement added to the latest revision of Actuarial Standard of Practice No. 35 to consider future longevity improvements in the selection of mortality assumptions. It is beyond the scope of the valuation to evaluate the possible effect such a change might have.
4. Schedule C outlines the benefit provisions that were taken into account in the valuation.
5. Schedule F provides a projection of recommended State contributions for the next two fiscal years. Restrictions on the degree to which contributions made by the State may reflect additional amounts collected from members as a result of the increases in these rates are incorporated in Schedule F.
6. The normal cost paid by the State reflects the provisions of Act 63, Section 473 of the 2011 Legislative Session. From July 1, 2011 through June 30, 2016, should the annual value of the total increased member contributions of group C, D, and F member contributions exceed \$5,300,000 on an aggregate basis, the amount in excess of \$5,300,000 shall not serve to reduce the State's contribution.

SECTION II - MEMBER DATA

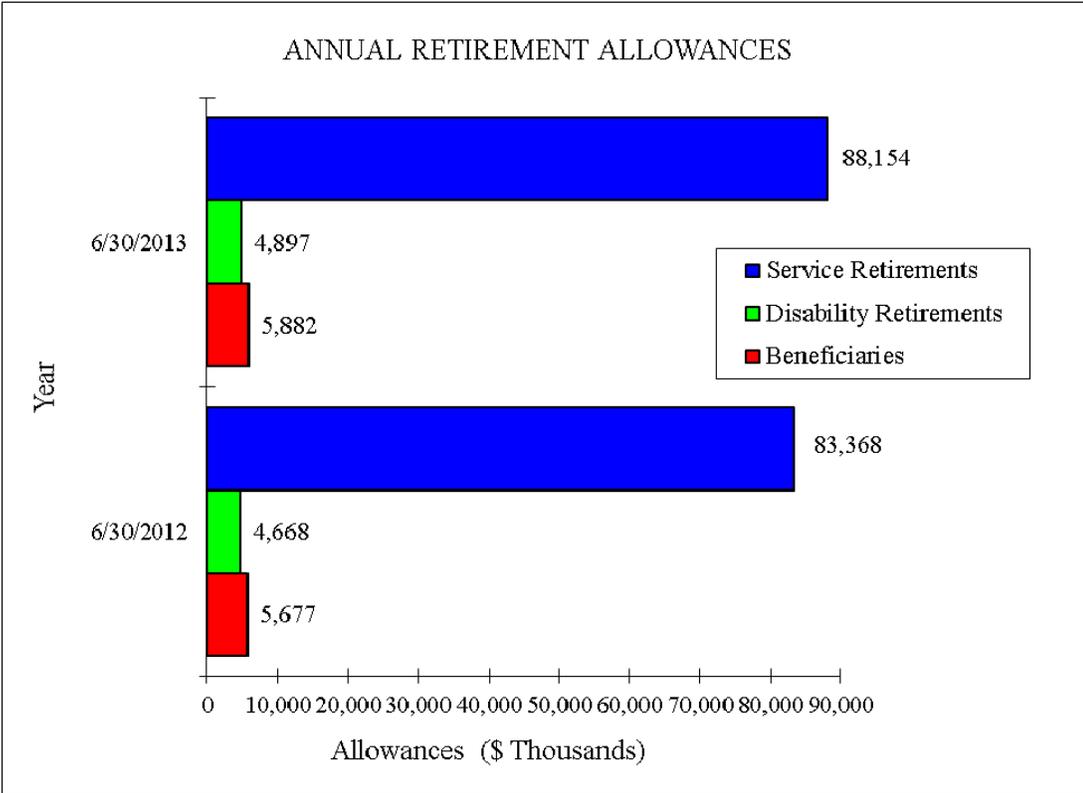
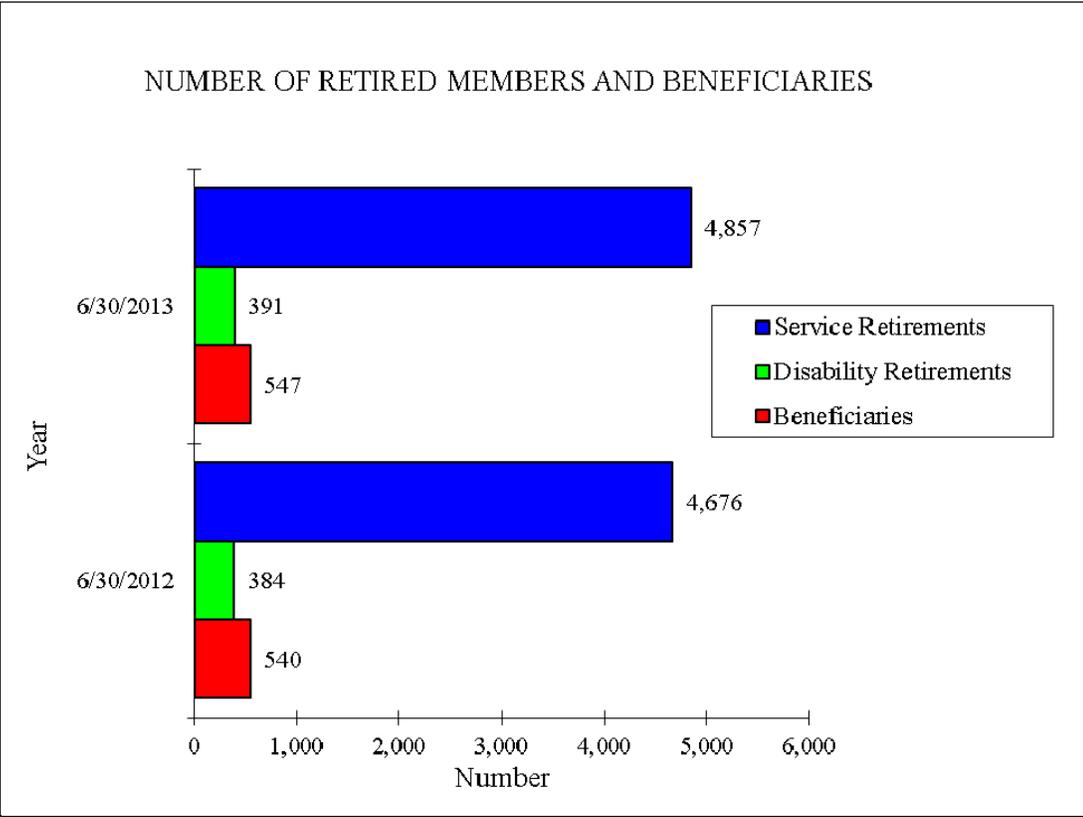
1. Member data were furnished in electronic format by the Retirement Division of the State Treasurer's Office. Buck did not audit the data, although they were reviewed for reasonableness and consistency with prior data. The results of the valuation are dependent on the accuracy of the data. We note that 38 members who terminated on June 30, 2013, and retired on July 1, 2013, were included as retired members receiving benefits.
2. Schedule D presents tables that summarize member data. Tables 1 through 5 summarize active member data by age and service. Tables 6 through 11 summarize service pensioners, disability pensioners and beneficiaries by age. Table 12 summarizes all pensioners by year of retirement.
3. The following tables show a summary of membership data:

THE NUMBER AND ANNUAL ALLOWANCES OF RETIRED MEMBERS  
AND BENEFICIARIES AS OF JUNE 30, 2013

| Group                             | Number | Annual Allowances |
|-----------------------------------|--------|-------------------|
| Service Retirements               | 4,857  | \$88,154,210      |
| Disability Retirements            | 391    | \$4,896,618       |
| Beneficiaries of Deceased Members | 547    | \$5,881,599       |
| TOTAL                             | 5,795  | \$98,932,427      |

BENEFITS PAYABLE AS OF JUNE 30, 2013  
TABULATED BY TYPE OF RETIREMENT AND OPTION

| Group                            | Number       | Annual Allowances |
|----------------------------------|--------------|-------------------|
| <b>Service Retirements</b>       |              |                   |
| Life Only                        | 1,588        | 20,376,845        |
| 50% Joint and Survivor           | 227          | 4,786,119         |
| 70% Joint and Survivor           | 54           | 2,671,970         |
| 100% Joint and Survivor          | 400          | 7,759,474         |
| 50% Joint and Survivor, pop-up   | 486          | 10,066,184        |
| 100% Joint and Survivor, pop-up  | 573          | 9,899,464         |
| Life and Return of Contributions | <u>1,529</u> | <u>32,594,154</u> |
| Total                            | 4,857        | 88,154,210        |
| <b>Disability Retirements</b>    |              |                   |
| Life Only                        | 193          | 2,077,690         |
| 50% Joint and Survivor           | 7            | 59,527            |
| 70% Joint and Survivor           | 13           | 459,316           |
| 100% Joint and Survivor          | 17           | 153,252           |
| 50% Joint and Survivor, pop-up   | 13           | 145,056           |
| 100% Joint and Survivor, pop-up  | 13           | 89,968            |
| Life and Return of Contributions | <u>135</u>   | <u>1,911,809</u>  |
| Total                            | 391          | 4,896,618         |
| Beneficiaries                    | 547          | 5,881,599         |
| Grand Total                      | 5,795        | 98,932,427        |



THE NUMBER AND ANNUAL COMPENSATION OF  
ACTIVE MEMBERS AS OF JUNE 30, 2013

| GROUP       | NUMBER | ANNUAL<br>COMPENSATION |
|-------------|--------|------------------------|
| Group A     |        |                        |
| Men         | 7      | \$454,250              |
| Women       | 1      | 60,702                 |
| Total       | 8      | \$514,952              |
| Group C     |        |                        |
| Men         | 401    | \$28,762,493           |
| Women       | 47     | 3,024,197              |
| Total       | 448    | \$31,786,690           |
| Group D     |        |                        |
| Men         | 35     | \$3,714,825            |
| Women       | 16     | 1,777,294              |
| Total       | 51     | \$5,492,119            |
| Group F     |        |                        |
| Men         | 3,600  | \$186,552,915          |
| Women       | 4,051  | 192,419,356            |
| Total       | 7,651  | \$378,972,271          |
| All Members |        |                        |
| Men         | 4,043  | \$219,484,483          |
| Women       | 4,115  | 197,281,549            |
| Total       | 8,158  | \$416,766,032          |

SECTION III – ASSETS

1. The asset values and cash flow amounts shown below were taken from reports supplied by the Office of the State Treasurer. The information contained in the reports has not yet been audited but is believed to be sufficiently accurate for purposes of this valuation.
2. For actuarial purposes, the assets are valued using a method that reflects the market value of assets by gradual recognition of returns on assets that differ from the assumed rate of return, provided the adjusted asset value is within 20% of the market value. The following shows the development of the valuation assets:

|  |                 |                 |
|--|-----------------|-----------------|
| Assets for valuation purposes, June 30, 2012     |                 | \$1,400,779,062 |
| Cash flow during year (net of investment income) |                 |                 |
| Contributions paid                               | \$81,856,395    |                 |
| Benefit payouts                                  | (99,194,618)    |                 |
| Expenses   | (7,493,267)     |                 |
| Net  |                 | (24,831,490)    |
| Expected investment income (6.25%)               |                 | 92,891,331      |
| Preliminary asset value                          |                 | \$1,468,838,903 |
| Market value, June 30, 2013                      | \$1,470,493,897 |                 |
| Preliminary asset value                          | 1,468,838,903   |                 |
| Unrecognized appreciation                        | 1,654,994       |                 |
| Adjustment                                       | x 20%           | \$330,999       |
| Assets for valuation purposes, June 30, 2013     |                 | \$1,469,169,902 |

- 3 The assets for valuation purposes are 99.9% of market value.
- 4 The investment rate of return for the year ending June 30, 2013 is 6.71%, based on the adjusted asset value.

SECTION IV - COMMENTS ON VALUATION

1. Schedule A of the report contains a valuation balance sheet that shows the present and prospective assets and liabilities of the system as of June 30, 2013.
2. The adjusted assets of the system are \$1,469,169,902.
3. The actuarial accrued liability for current retired members, terminated vested members and beneficiaries is \$1,084,391,920 and the actuarial accrued liability for current active and inactive members amounts to \$829,908,064, for a total actuarial accrued liability of \$1,914,299,984. Therefore, after subtracting assets of \$1,469,169,902, the unfunded actuarial accrued liability is \$445,130,082.
4. The State's contributions consist of a normal contribution and an accrued liability contribution. The accrued liability contribution represents the amount necessary to amortize the unfunded accrued liability as of June 30, 2013, over a period ending on June 30, 2038. These amounts are to rise by 5% per year over the term of the amortization period. Normal contributions represent the contributions needed to fund the benefits attributed by the funding method to service rendered in the coming year. Under the Entry Age Normal funding method, the normal contribution as of June 30, 2013, is \$16,295,552, or 3.91% of members' compensation.
5. The expected unfunded actuarial accrued liability as of June 30, 2013, may be compared to the actual actuarial accrued liability to determine the gain or loss during the year. The following table presents a summary of the approximate effects of major experience factors affecting the system's unfunded actuarial accrued liability since June 30, 2012:

|  |                |
|--|----------------|
| 1. Unfunded liability, 6/30/2012                     | \$401,824,745  |
| 2. Normal Cost                                       | 39,217,558     |
| 3. Contributions                                     | (81,856,395)   |
| 4. Interest on 1, 2 and 3                            | 25,045,898     |
| 5. Change in Actuarial Assumptions                   | 0              |
| 6. Restart of select-and-ultimate interest structure | 33,541,162     |
| 7. Change in Plan Provisions                         | 0              |
| 8. Expected Unfunded Liability, 6/30/2013            | 417,772,968    |
| 9. Accrued Liability, 6/30/2013                      | 1,914,299,984  |
| 10. Actuarial Value of Assets, 6/30/2013             | 1,469,169,902  |
| 11. Actual Unfunded Liability, 9. - 10.              | 445,130,082    |
| 12. Total gain/(loss), 8. - 11.                      | (\$27,357,114) |

| Sources of Gain/(Loss)   |                  |
|--|------------------|
| Investment experience  | \$6,437,863      |
| Expenses (investments)   | (6,306,933)      |
| Expenses (other than investments)  | (1,416,950)      |
| Salary experience  | (23,416,670)     |
| COLA experience  | 7,319,398        |
| New members and rehires  | (2,552,115)      |
| Mortality among retirees, beneficiaries<br>and terminated vested participants. | (4,057,846)      |
| Mortality among active participants  | (429,408)        |
| Retirement experience  | (1,549,045)      |
| Termination experience   | (3,920,466)      |
| Disability experience  | (172,204)        |
| Other (data corrections, purchased service, etc.)                              | <u>2,707,262</u> |
| Total  | (\$27,357,114)   |

SECTION V - CONTRIBUTIONS PAYABLE UNDER THE SYSTEM

1. Section 471, Subsection (k), of Title 3, Chapter 16, Vermont Statutes Annotated, relating to the Vermont State Employees' Retirement System, indicates that the actuary shall submit to the Board of Trustees his recommendation as to the contributions payable by the State based on annual valuations of the assets and liabilities of the system.
2. On the basis of the results of the current valuation, the actuary recommends that the Board of Trustees certify the following contributions for the fiscal year commencing July 1, 2013:

|                                |                   |
|--------------------------------|-------------------|
| Normal contribution            | \$ 16,295,552     |
| Accrued liability contribution | <u>26,227,379</u> |
| Total                          | \$ 42,522,931     |

3. Certain towns are participating in the system. Their contributions should be based on the following rates before administrative adjustments:

|                   |              |
|-------------------|--------------|
| Normal            | 3.91%        |
| Accrued liability | <u>6.29%</u> |
| Total             | 10.20%       |

SECTION VI - EXPERIENCE

Records are maintained whereby the actual experience of the system may be compared with the expected experience based on the tables adopted by the Board of Trustees. In accordance with Section 471, subsection (j), of Title 3, Chapter 16 of the Vermont Statutes Annotated, this experience is reviewed in regularly scheduled experience studies, and any changes in assumptions suggested by the cumulative experience of the system is brought to the Board's attention in reports prepared as part of such studies.

SECTION VII - ACCOUNTING INFORMATION

1. Based on our interpretation of Statement No. 25 of the Governmental Accounting Standards Board, we are providing the following Schedule of Funding Progress for accounting purposes:

**SCHEDULE OF FUNDING PROGRESS**  
(Dollar amounts in thousands)

| Year Ending<br>June 30 | Actuarial<br>Value of<br>Assets<br>(a) | Actuarial<br>Accrued<br>Liability<br>(AAL)<br>(b) | Unfunded<br>AAL<br>(UAAL)<br>(b-a) | Funded<br>Ratio<br>(a/b) | Covered<br>Payroll<br>(c) | UAAL as a<br>Percentage of<br>Covered<br>Payroll<br>((b-a)/c) |
|------------------------|--|---|------------------------------------|--------------------------|---------------------------|---|
| 2013                   | \$1,469,170                            | \$1,914,300                                       | \$445,130                          | 76.8%                    | \$416,766                 | 106.8%  |
| 2012                   | 1,400,779                              | 1,802,604   | 401,825                            | 77.7%                    | 385,526                   | 104.2%  |
| 2011                   | 1,348,763                              | 1,695,301   | 346,538                            | 79.6%                    | 398,264                   | 87.0%   |
| 2010                   | 1,265,404                              | 1,559,324   | 293,920                            | 81.2%                    | 393,829                   | 74.6%   |
| 2009                   | 1,217,638                              | 1,544,144   | 326,506                            | 78.9%                    | 404,516                   | 80.7%   |
| 2008                   | 1,377,101                              | 1,464,202   | 87,101                             | 94.1%                    | 404,593                   | 21.5%   |
| 2007                   | 1,318,687                              | 1,307,643   | (11,044)                           | 100.8%                   | 386,917                   | -2.9%   |
| 2006                   | 1,223,323                              | 1,232,367   | 9,044                              | 99.3%                    | 369,310                   | 2.5%  |
| 2005                   | 1,148,908                              | 1,174,796   | 25,889                             | 97.8%                    | 349,258                   | 7.4%  |
| 2004                   | 1,081,359                              | 1,107,634   | 26,275                             | 97.6%                    | 336,615                   | 7.8%  |
| 2003                   | 1,025,469                              | 1,052,004   | 26,535                             | 97.5%                    | 319,855                   | 8.3%  |
| 2002                   | 990,450                                | 1,017,129   | 26,679                             | 97.4%                    | 300,994                   | 8.9%  |
| 2001                   | 954,821                                | 1,026,993   | 72,172                             | 93.0%                    | 278,507                   | 25.9%   |
| 2000                   | 895,151                                | 967,064   | 71,913                             | 92.6%                    | 266,519                   | 27.0%   |
| 1999                   | 804,970                                | 876,412   | 71,442                             | 91.9%                    | 238,281                   | 30.0%   |
| 1998                   | 733,716                                | 804,501   | 70,785                             | 91.2%                    | 235,956                   | 30.0%   |
| 1997                   | 639,128                                | 753,883   | 114,755                            | 84.8%                    | 227,000                   | 50.6%   |

Please note: the System's funding method was changed from Entry Age Normal with Frozen Initial Liability to Entry Age Normal effective with the 2006 actuarial valuation.

2. GASB Statement No. 27 requires the development of Annual Pension Cost and Net Pension Obligation (NPO). This development is shown in the following table.

DEVELOPMENT OF PENSION COST AND NET PENSION OBLIGATION (NPO)

| Year Ending June 30 | Annual Required Contribution | Interest on NPO | Amortization of NPO | Pension Cost (1)+(2)-(3) | Actual Contribution | Change in NPO (4)-(5) | NPO Balance |
|---------------------|------------------------------|-----------------|---------------------|--------------------------|---------------------|-----------------------|-------------|
|                     | (1)                          | (2)             | (3)                 | (4)                      | (5)                 | (6)                   | (7)         |
| 1999                | 23,268,197                   | 3,186,146       | 3,288,077           | 23,166,266               | 22,956,245          | 210,021               | 37,694,097  |
| 2000                | 19,548,817                   | 3,203,998       | 3,306,500           | 19,446,315               | 19,012,608          | 433,707               | 38,127,804  |
| 2001                | 19,679,398                   | 3,240,863       | 3,344,544           | 19,575,717               | 19,548,598          | 27,119                | 38,154,924  |
| 2002                | 24,189,000                   | 3,243,169       | 3,346,923           | 24,085,246               | 23,788,282          | 296,964               | 38,451,887  |
| 2003                | 24,715,309                   | 3,076,151       | 3,372,972           | 24,418,488               | 24,394,934          | 23,554                | 38,475,441  |
| 2004                | 29,023,431                   | 3,078,035       | 3,375,039           | 28,726,427               | 26,645,619          | 2,080,808             | 40,556,249  |
| 2005                | 36,019,056                   | 3,244,500       | 3,686,932           | 35,576,624               | 36,493,435          | (916,811)             | 39,639,438  |
| 2006                | 38,214,704                   | 3,171,155       | 3,603,585           | 37,782,274               | 36,866,451          | 915,823               | 40,555,261  |
| 2007                | 40,189,812                   | 3,244,421       | 4,179,681           | 39,254,552               | 39,297,002          | (42,450)              | 40,512,811  |
| 2008                | 42,375,068                   | 3,342,307       | 4,269,499           | 41,447,876               | 39,193,942          | 2,253,934             | 42,766,745  |
| 2009                | 28,997,554                   | 3,528,257       | 3,110,436           | 29,415,375               | 25,134,235          | 4,281,140             | 47,047,885  |
| 2010                | 37,417,824                   | 3,881,451       | 2,504,166           | 38,795,109               | 31,468,885          | 7,326,224             | 54,374,109  |
| 2011                | 44,491,459                   | 4,485,864       | 2,958,574           | 46,018,749               | 37,572,599          | 8,446,150             | 62,820,259  |
| 2012                | 28,748,401 <sup>1</sup>      | 3,926,266       | 3,531,192           | 29,143,475               | 40,302,433          | (11,158,958)          | 51,661,301  |
| 2013                | 39,389,870                   | 3,228,831       | 2,970,974           | 39,647,727               | 51,370,307          | (11,722,580)          | 39,938,721  |

3. The Annual Required Contribution for fiscal year 2013 is derived as follows:

|                     |   |
|---------------------|---|
| \$16,628,726        | product of the normal rate from the 2011 valuation report (4.81%) and estimated FY 2013 payroll |
| 20,453,204          | amortization of unfunded liability (see amortization chart in 2011 valuation report)            |
| <u>2,307,937</u>    | administrative expenses (other than retiree medical) reimbursable by the state                  |
| <u>\$39,389,870</u> |   |

<sup>1</sup> For 2012, one-time adjustments were made. Please refer to the 2012 actuarial valuation report.

SCHEDULE A

VALUATION BALANCE SHEET  
SHOWING THE ASSETS AND LIABILITIES OF THE  
VERMONT STATE EMPLOYEES RETIREMENT SYSTEM  
PREPARED AS OF JUNE 30, 2013

VALUATION BALANCE SHEET  
SHOWING THE ASSETS AND LIABILITIES OF THE  
VERMONT STATE EMPLOYEES RETIREMENT SYSTEM  
PREPARED AS OF JUNE 30, 2013

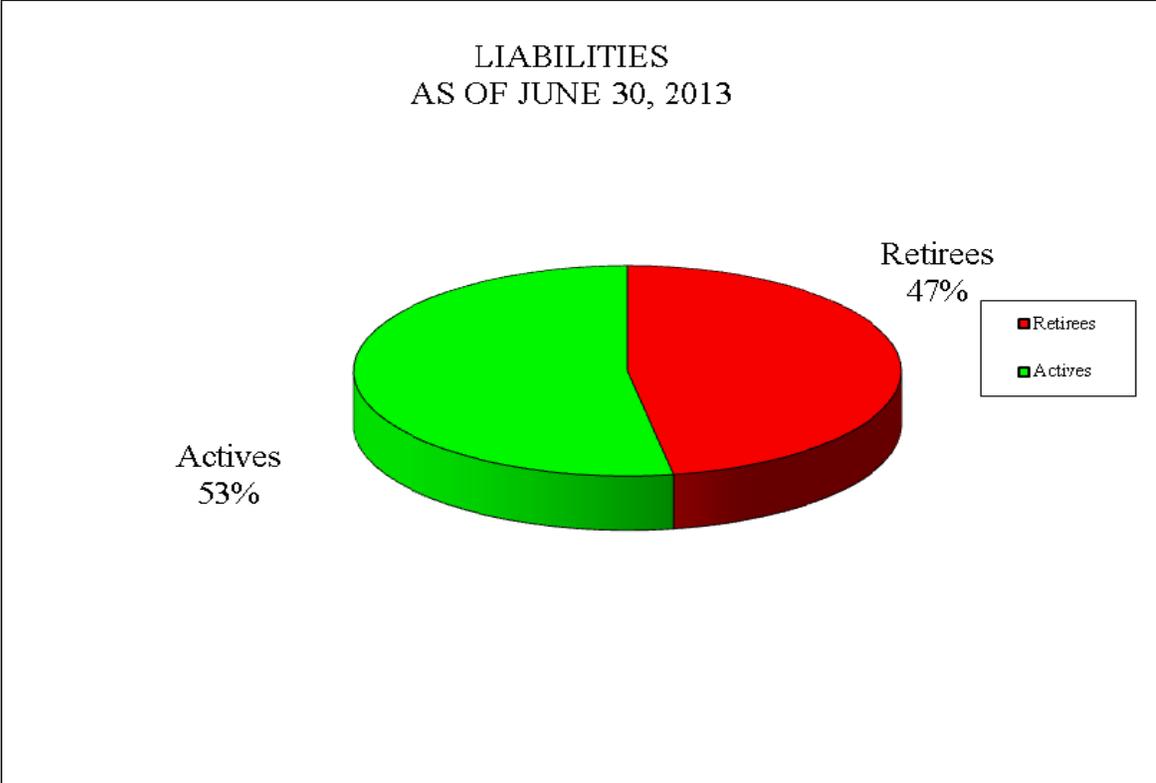
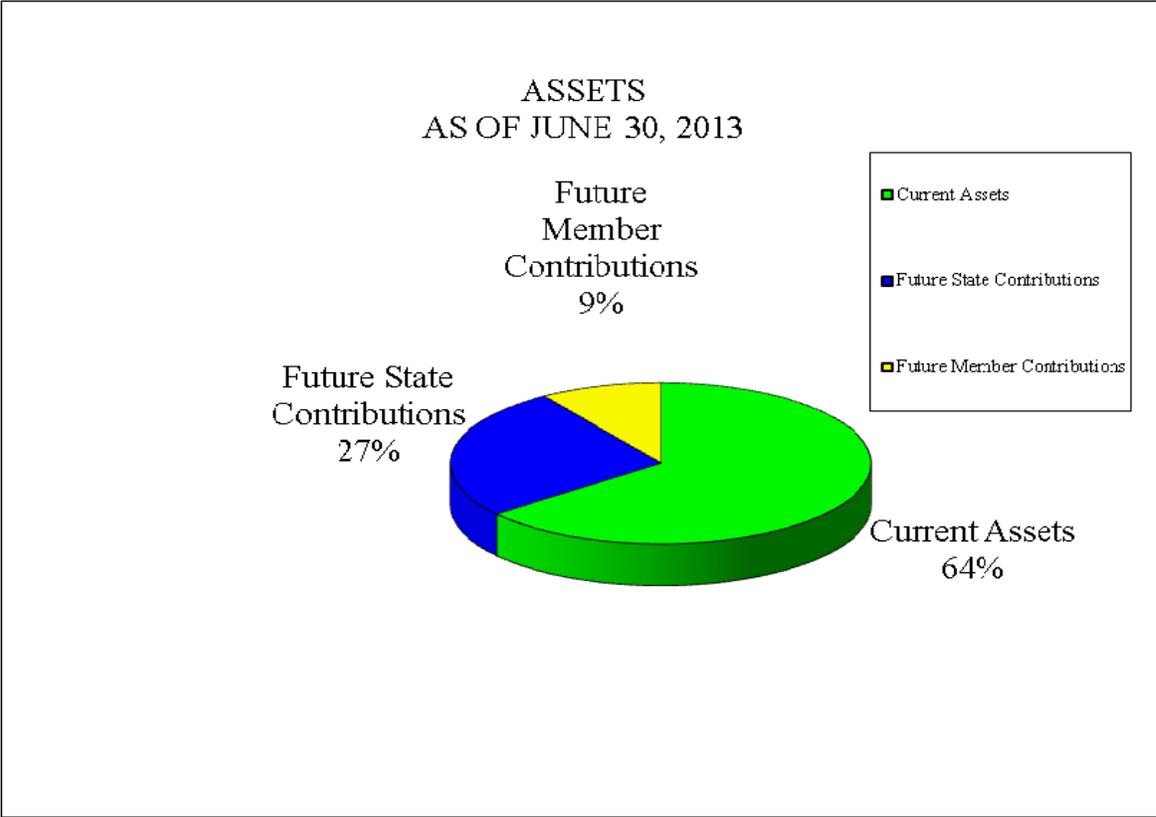
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ASSETS

|  |                               |
|--|-------------------------------|
| Adjusted assets of the system              | \$1,469,169,902               |
| Present value of prospective contributions |                               |
| Members                                    | \$213,434,194                 |
| State                                      |                               |
| Accrued liability contributions            | 445,130,082                   |
| Normal contributions                       | <u>161,825,053</u>            |
| Total prospective contributions            | <u>\$ 820,389,329</u>         |
| Total assets                               | <u><u>\$2,289,559,231</u></u> |

LIABILITIES

|  |                               |
|--|-------------------------------|
| Actuarial present value of benefits payable on account of present retired members, terminated vested members and beneficiaries | <u>\$1,084,391,920</u>        |
| Actuarial present value of benefits expected to become payable on account of active and inactive members                       | <u>1,205,167,311</u>          |
| Total liabilities  | <u><u>\$2,289,559,231</u></u> |



SCHEDULE B

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

GROUPS A, D AND F

INTEREST RATE: A select-and-ultimate interest rate set, specified below. The interest rate set is restarted every year.

|               |                          |
|---------------|--------------------------|
| Year 1: 6.25% | Year 10: 8.50%           |
| Year 2: 6.75% | Year 11: 8.50%           |
| Year 3: 7.00% | Year 12: 8.50%           |
| Year 4: 7.50% | Year 13: 8.50%           |
| Year 5: 7.75% | Year 14: 8.50%           |
| Year 6: 8.25% | Year 15: 8.50%           |
| Year 7: 8.25% | Year 16: 8.75%           |
| Year 8: 8.25% | Year 17 and later: 9.00% |
| Year 9: 8.50% |                          |

SEPARATIONS FROM SERVICE: Representative values of the assumed annual rates of withdrawal, vested retirement, disability and death are as follows:

| Age | Withdrawal<br>and Vested<br>Retirement <sup>1</sup> | Disability |
|-----|---|------------|
| 25  | 4.1%  | .03%       |
| 30  | 3.3   | .04        |
| 35  | 2.7   | .05        |
| 40  | 2.5   | .08        |
| 45  | 2.2   | .13        |
| 50  | 1.9   | .21        |
| 55  | N/A   | .35        |
| 59  | N/A   | .52        |
| 60  | N/A   | .57        |
| 61  | N/A   | .62        |

<sup>1</sup> Increased during first 10 years of service.

ACTIVE SERVICE MORTALITY: RP-2000 Table for Employees using Scale AA to 2016

## OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS (Continued)

GROUPS A, D AND F

| Retirement-Group F <sup>2</sup> |       |                 |       |
|---------------------------------|-------|-----------------|-------|
| Male Employee                   |       | Female Employee |       |
| Age                             | Rate  | Age             | Rate  |
| 50                              | 20.0% | 50              | 6.0%  |
| 51                              | 20.0  | 51              | 6.0   |
| 52                              | 10.0  | 52              | 8.0   |
| 53                              | 10.0  | 53              | 9.0   |
| 54                              | 10.0  | 54              | 10.0  |
| 55                              | 5.0   | 55              | 5.0   |
| 56                              | 4.2   | 56              | 4.2   |
| 57                              | 5.6   | 57              | 5.6   |
| 58                              | 6.3   | 58              | 6.3   |
| 59                              | 7.0   | 59              | 7.0   |
| 60                              | 7.0   | 60              | 7.0   |
| 61                              | 14.0  | 61              | 14.0  |
| 62                              | 28.0  | 62              | 28.0  |
| 63                              | 17.5  | 63              | 17.5  |
| 64                              | 17.5  | 64              | 17.5  |
| 65                              | 25.0  | 65              | 25.0  |
| 66                              | 15.0  | 66              | 15.0  |
| 67                              | 17.5  | 67              | 17.5  |
| 68                              | 17.5  | 68              | 17.5  |
| 69                              | 20.0  | 69              | 20.0  |
| 70                              | 100.0 | 70              | 100.0 |

<sup>2</sup> All Group A and D members are assumed to retire when first eligible.

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS (Continued)

GROUPS A, D AND F

SALARY INCREASES: Representative values of the assumed annual rates of future salary increase are as follows:

| Age | Annual Rate of Salary Increase | Age | Annual Rate of Salary Increase |
|-----|--------------------------------|-----|--------------------------------|
| 25  | 7.79%                          | 50  | 5.70%                          |
| 30  | 7.33%                          | 55  | 5.20%                          |
| 35  | 7.00%                          | 60  | 4.67%                          |
| 40  | 6.75%                          | 64  | 4.50%                          |
| 45  | 6.27%                          |     |                                |

Salary increases of several classes of employees in Groups D and F are assumed to follow the schedule shown below:

| Annual Rate of Salary Adjustment |                   |                                  |                              |                          |
|----------------------------------|-------------------|----------------------------------|------------------------------|--------------------------|
| Fiscal Year                      | Group D Judiciary | Group F Non Exempt Non Judiciary | Group F Exempt Non Judiciary | Group F Exempt Judiciary |
| 2013                             | 4.6%              | 3%                               | 5%                           | 4.6%                     |
| 2014                             | N/A               | Valuation Salary Scale less 1.7% | N/A                          | N/A                      |
| 2015                             | N/A               | N/A                              | N/A                          | N/A                      |

DEATHS AFTER RETIREMENT:

For service retirees and beneficiaries, the RP-2000 Mortality Tables for Employees and Healthy Annuitants projected with Scale AA to 2010.

For disabled retirees, the RP-2000 Combined Mortality Tables for Employees and Healthy Annuitants with a three-year set-forward.

The post-retirement mortality assumption was chosen to recognize improved longevity experienced as well as that expected prior to the next review of assumptions.

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS (Continued)

GROUPS A, D AND F

**INFLATION:** The separately stated assumptions for investment return, salary increases and cost of living adjustments are consistent with an expected long term annual inflation rate of 3.00% to 3.25%.

**FUTURE EXPENSES:** No provision made; expenses of the system are paid by the State.

**ACTUARIAL COST METHOD:** The costs of the Plan have been determined in accordance with the individual entry age normal actuarial cost method.

**SPOUSE'S AGE:** Husbands are assumed to be three years older than their wives.

**PERCENT MARRIED:** 75.4% (71.4% for Group F) of male members and 64.0% (63.1% for Group F) of female members are assumed to be married.

**COST-OF-LIVING ADJUSTMENTS:** Assumed to occur at the rate of 3% per annum for Groups A and D and 1½% per annum for Group F (beginning at age 62 for deferred retirements). For Group F employees retiring after July 1, 2009, the cost-of-living-adjustment is assumed to increase from 1.5% to 3% per annum effective January 1, 2014.

**INACTIVE MEMBERS:** Valuation liability equals 250% of accumulated contributions.

**HEALTH AND MEDICAL BENEFITS FOR RETIREES:** Not included in this valuation.

**ASSET VALUATION METHOD:** The amount of the assets for valuation purposes equals the preliminary asset value plus 20% of the difference between market and preliminary asset values. The preliminary asset value is equal to the previous year's asset value (for valuation purposes) adjusted for contributions less benefit payments and expenses plus expected investment income. If necessary, a further adjustment is made to ensure that the valuation assets are within 20% of the market value.

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS (Continued)

GROUP C

INTEREST RATE: A select-and-ultimate interest rate set, specified below. The interest rate set is restarted every year.

|               |                          |
|---------------|--------------------------|
| Year 1: 6.25% | Year 10: 8.50%           |
| Year 2: 6.75% | Year 11: 8.50%           |
| Year 3: 7.00% | Year 12: 8.50%           |
| Year 4: 7.50% | Year 13: 8.50%           |
| Year 5: 7.75% | Year 14: 8.50%           |
| Year 6: 8.25% | Year 15: 8.50%           |
| Year 7: 8.25% | Year 16: 8.75%           |
| Year 8: 8.25% | Year 17 and later: 9.00% |
| Year 9: 8.50% |                          |

SEPARATIONS BEFORE RETIREMENT: Representative values of the assumed annual rates of withdrawal, vested retirement, disability and death are as follows:

| Age | Withdrawal and Vested Retirement <sup>1</sup> |                 | Disability <sup>1</sup> |
|-----|---|-----------------|-------------------------|
|     | Men Employee                                  | Female Employee |                         |
| 25  | 3.60%   | 7.20%           | .15%                    |
| 30  | 3.60%   | 7.20%           | .20                     |
| 35  | 3.60%   | 7.20%           | .27                     |
| 40  |   |                 | .40                     |
| 45  |   |                 | .65                     |
| 50  |   |                 | 1.09                    |
| 55  |   |                 | 1.82                    |
| 60  |   |                 | 2.93                    |

ACTIVE SERVICE MORTALITY<sup>2</sup>: RP-2000 Table for Employees using Scale AA to 2016

<sup>1</sup> Increased during first 5 years of service.

<sup>2</sup> 20% of disabilities and 30% of deaths assumed to be accidental.

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS (Continued)

GROUP C

EARLY AND NORMAL RETIREMENT RATES: All members are assumed to retire when first eligible to do so.

SALARY INCREASES: Representative values of the assumed annual rates of future salary increase are as follows:

| Age | Annual Rate of Salary Increase |
|-----|--------------------------------|
| 25  | 7.79%                          |
| 30  | 7.33                           |
| 35  | 7.00                           |
| 40  | 6.75                           |
| 45  | 6.27                           |
| 50  | 5.70                           |
| 55  | 5.20                           |
| 60  | 4.67                           |

Salary increases over the next three fiscal years are assumed to follow the schedule shown below:

| Annual Rate of Salary Adjustment |                                  |                                  |
|----------------------------------|----------------------------------|----------------------------------|
| Fiscal Year                      | Non Exempt Non State Police      | Non Exempt State Police          |
| 2013                             | 3%                               | 3%                               |
| 2014                             | Valuation Salary Scale less 1.7% | Valuation Salary Scale less 2.4% |
| 2015                             | N/A                              | N/A                              |

OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS (Continued)

GROUP C

DEATHS AFTER RETIREMENT:

For service retirees and beneficiaries, the RP-2000 Mortality Tables for Employees and Healthy Annuitants projected with Scale AA to 2010.

For disabled retirees, the RP-2000 Combined Mortality Tables for Employees and Healthy Annuitants with a three-year set-forward.

The post-retirement mortality assumption was chosen to recognize improved longevity experienced as well as that expected prior to the next review of assumptions.

INFLATION: The separately stated assumptions for investment return, salary increases and cost of living adjustments are consistent with an expected long term annual inflation rate of 3.00% to 3.25%.

FUTURE EXPENSES: No provision made; expenses of the system are paid by the State.

ACTUARIAL COST METHOD: Individual entry age normal actuarial cost method. For actuarial valuations prior to June 30, 2006, the entry age normal cost method with frozen initial liability was used.

SPOUSE'S AGE: Husbands are assumed to be three years older than their wives.

PERCENT MARRIED: 73.3% of male members and 61.0% of female members are assumed to be married.

COST-OF-LIVING ADJUSTMENTS: Assumed to occur at the rate of 3% per annum.

INACTIVE MEMBERS: Liability equals 250% of accumulated contributions.

HEALTH AND MEDICAL BENEFITS FOR RETIREES: Not included in this valuation.

ASSET VALUATION METHOD: The amount of the assets for valuation purposes equals the preliminary asset value plus 20% of the difference between market and preliminary asset values. The preliminary asset value is equal to the previous year's asset value (for valuation purposes) adjusted for contributions less benefit payments and expenses plus expected investment income. If necessary, a further adjustment is made to ensure that the valuation assets are within 20% of the market value.

SCHEDULE C

BRIEF SUMMARY OF PRINCIPAL PLAN PROVISIONS  
AS INTERPRETED FOR VALUATION PURPOSES

**BRIEF SUMMARY OF BENEFIT PROVISIONS  
AS INTERPRETED FOR VALUATION PURPOSES**

|                                  |   |
|----------------------------------|---|
| Effective Date                   | July 1, 1972 (for consolidated system).   |
| Creditable Service               | Service as a member plus purchased service.   |
| Membership                       | <p>Group A - General employees who did not join noncontributory system on July 1, 1981.</p> <p>Group C - State police and motor vehicle inspectors.</p> <p>Group D - Judges.</p> <p>Group F - All other general employees.</p>  |
| Average Final Compensation (AFC) | <p>Groups A and F - average annual compensation during highest 3 consecutive years.</p> <p>Group C - average annual compensation during highest 2 consecutive years.</p> <p>Group D - annual compensation at retirement.</p>  |
| Service Retirement Allowance     |   |
| Eligibility                      | <p>Group A – Earlier of age 65, with five years of service for members hired after July 1, 2004, and age 62 with 20 years of service.</p> <p>Group C - Age 55.</p> <p>Group D - Age 62 with 5 years of service.</p> <p>Group F - Age 62 or 30 years of service. For members hired after June 30, 2008, age 65 or a sum of age plus service greater than or equal to 87.</p> |

Amount

Group A - 1.67% of AFC times service.

Group C - 2.5% of AFC times service up to 20 years.

Group D - 3.33% of AFC times service up to 30 years.

Group F - 1.25% of AFC times service prior to January 1, 1991, plus 1.67% of AFC times service after 1990, up to a maximum benefit of 50% of AFC. For members hired on or after July 1, 2008, the maximum benefit is 60% of AFC.

The above amounts include the portion of the allowance provided by member contributions.

Early Retirement Allowance

Eligibility

Groups A and D - Age 55 with 5 years of service or 30 years of service.

Group C - Age 50 with 20 years of service.

Group F - Age 55 with 5 years of service.

Amount

Group A - Actuarial equivalent of normal retirement allowance. For members with 30 years of service, there is no reduction.

Group C - Same as normal retirement allowance.

Group D - Normal allowance reduced by 3% for each year commencement precedes age 62.

Group F – For members hired prior to July 1, 2008, no reduction if 30 years of service; otherwise normal allowance reduced by 6% for each year commencement precedes age 62. For members hired on or after July 1, 2008, no reduction if combination of years and service equal to 87; otherwise reduced from age 65 based on the following table.

| <u>Years of Service</u> | <u>Reduction in Benefit</u>  |
|-------------------------|------------------------------|
| 35                      | One eighth of 1% per year    |
| 30                      | One quarter of 1% per year   |
| 25                      | One third of 1% per year     |
| 20                      | Five twelfths of 1% per year |
| Less than 20            | Five ninths of 1% per year   |

#### Vested Retirement Allowance

##### Eligibility

All Groups - 5 years of service.

Allowance beginning at normal retirement age based on AFC and service at termination.

#### Ordinary Disability Retirement Allowance

##### Allowance

##### Eligibility

All Groups - 5 years of service and incapacitated, not work related, for performance of duty.

##### Amount

Immediate allowance based on service to date of disability. Benefit is the greater of 25% of AFC and unreduced accrued benefit as of date of disability.

#### Accidental Disability Retirement Allowance

##### Eligibility

All Groups - incapacitated as a result of work related accident.

##### Amount

Groups A, D and F - immediate allowance based on service projected to normal retirement. Benefit is the greater of 25% of AFC and unreduced accrued benefit as of date of disability.

Group C - Immediate allowance equal to 50% of AFC with additional 10% of AFC for each dependent child (up to 30%).

### Ordinary Death Benefit

#### Eligibility

Groups A and F - Death after eligibility for early retirement or 10 years of service.

Group C - Death after normal retirement age or 10 years of service.

Group D - Death after normal retirement age or 10 years of service.

#### Amount

Groups A, D and F – maximum of reduced allowance under 100% survivor option and disability allowance under 100% disability survivor option, commencing immediately.

Group C - 70% of the allowance which would have been payable to the member plus additional allowance equal to 10% of AFC for each dependent child (up to 30%).

### Accidental Death Benefit

#### Eligibility

All Groups - Death as a result of work related accident.

#### Amount

Groups A, D and F - Allowance equal to 25% of AFC payable to spouse.

Group C - Allowance equal to 35% of AFC payable to spouse plus 10% of AFC for each dependent child (up to 30%).

### Optional Benefit and Death after Retirement

Lifetime allowance or actuarially equivalent allowance with survivor benefit as elected by member upon retirement.

Upon death of a Group C member, an allowance equal to 70% of the member's allowance is continued to the surviving spouse.

### Refund of Contribution

Upon termination, if the member so elects or if no other benefit is payable, the member's accumulated contributions are refunded.

Post-Retirement Adjustments

Groups A, C and D - allowances in payment for at least one year increased on each January 1 by the percentage increase in Consumer Price Index but not more than 5%.

Group F – Same, but increase is based on half of the Consumer Price Index increase. Increase is based on the full Consumer Price index Increase starting in 2014 for employees retiring after July 1, 2008.

Member Contributions

Groups A and D – 6.40% (until June 30, 2016).

Group C – 8.28% (until June 30, 2016).

Group F

– 6.40% through June 30, 2016

– 5.10% from July 1, 2016 through June 30, 2019

– 4.85% thereafter

SCHEDULE D

SUMMARY TABLES OF MEMBER DATA AS OF JUNE 30, 2013

TABLE 1  
THE NUMBER AND ANNUAL COMPENSATION OF  
ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE  
AS OF JUNE 30, 2013

| AGE      | <i>Years of Service</i> |            |               |            |                 |            |                 |            |                 |            |                 |            |                 |            |                 |            |                    |           |              |             |
|----------|-------------------------|------------|---------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|--------------------|-----------|--------------|-------------|
|          | <i>0 to 4</i>           |            | <i>5 to 9</i> |            | <i>10 to 14</i> |            | <i>15 to 19</i> |            | <i>20 to 24</i> |            | <i>25 to 29</i> |            | <i>30 to 34</i> |            | <i>35 to 39</i> |            | <i>40 &amp; up</i> |           | <i>Total</i> |             |
|          | No.                     | Salary     | No.           | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.                | Salary    | No.          | Salary      |
| Under 20 | 4                       | 50,505     | 0             | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 4            | 50,505      |
| 20 to 24 | 209                     | 6,100,951  | 2             | 90,936     | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 211          | 6,191,887   |
| 25 to 29 | 485                     | 17,119,708 | 109           | 4,985,953  | 2               | 67,559     | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 596          | 22,173,220  |
| 30 to 34 | 414                     | 15,610,596 | 298           | 14,730,493 | 59              | 3,058,501  | 1               | 45,208     | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 772          | 33,444,799  |
| 35 to 39 | 279                     | 10,577,772 | 294           | 15,075,712 | 205             | 11,974,643 | 52              | 3,010,432  | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 830          | 40,638,558  |
| 40 to 44 | 270                     | 10,123,713 | 268           | 13,881,300 | 262             | 15,174,722 | 183             | 11,197,506 | 92              | 5,417,646  | 6               | 335,153    | 0               | 0          | 0               | 0          | 0                  | 0         | 1,081        | 56,130,039  |
| 45 to 49 | 226                     | 8,974,913  | 238           | 11,910,801 | 206             | 11,269,822 | 164             | 9,654,114  | 183             | 12,461,509 | 134             | 8,684,408  | 11              | 603,242    | 0               | 0          | 0                  | 0         | 1,162        | 63,558,809  |
| 50 to 54 | 219                     | 8,416,300  | 237           | 12,044,374 | 211             | 11,261,780 | 139             | 8,065,797  | 139             | 8,630,933  | 164             | 10,171,757 | 90              | 5,296,351  | 7               | 360,270    | 0                  | 0         | 1,206        | 64,247,563  |
| 55 to 59 | 191                     | 8,152,655  | 212           | 10,965,221 | 222             | 12,112,030 | 135             | 7,389,023  | 141             | 8,126,406  | 149             | 9,353,129  | 134             | 8,939,996  | 61              | 3,735,751  | 7                  | 435,076   | 1,252        | 69,209,287  |
| 60 to 64 | 73                      | 3,275,228  | 118           | 5,873,814  | 134             | 7,132,570  | 93              | 5,507,410  | 82              | 4,988,863  | 116             | 7,561,613  | 83              | 5,735,624  | 68              | 4,848,634  | 24                 | 1,604,159 | 791          | 46,527,916  |
| 65 to 69 | 20                      | 967,130    | 40            | 1,885,980  | 38              | 1,981,370  | 22              | 1,218,892  | 14              | 983,864    | 20              | 1,330,189  | 22              | 1,236,159  | 19              | 1,354,691  | 17                 | 1,249,912 | 212          | 12,208,188  |
| 70 & up  | 5                       | 244,463    | 3             | 80,469     | 8               | 380,683    | 5               | 255,370    | 3               | 173,810    | 2               | 112,881    | 3               | 278,536    | 2               | 132,309    | 10                 | 726,741   | 41           | 2,385,261   |
| TOTAL    | 2,395                   | 89,613,934 | 1,819         | 91,525,053 | 1,347           | 74,413,680 | 794             | 46,343,752 | 654             | 40,783,032 | 591             | 37,549,130 | 343             | 22,089,909 | 157             | 10,431,655 | 58                 | 4,015,888 | 8,158        | 416,766,032 |

TABLE 2  
 THE NUMBER AND ANNUAL COMPENSATION OF  
 ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE  
 AS OF JUNE 30, 2013

GENERAL EMPLOYEES - GROUP A

| AGE      | <i>Years of Service</i> |        |               |        |                 |        |                 |        |                 |        |                 |        |                 |         |                 |         |                    |         |              |         |        |
|----------|-------------------------|--------|---------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|---------|-----------------|---------|--------------------|---------|--------------|---------|--------|
|          | <i>0 to 4</i>           |        | <i>5 to 9</i> |        | <i>10 to 14</i> |        | <i>15 to 19</i> |        | <i>20 to 24</i> |        | <i>25 to 29</i> |        | <i>30 to 34</i> |         | <i>35 to 39</i> |         | <i>40 &amp; up</i> |         | <i>Total</i> |         |        |
|          | No.                     | Salary | No.           | Salary | No.             | Salary | No.             | Salary | No.             | Salary | No.             | Salary | No.             | Salary  | No.             | Salary  | No.                | Salary  | No.          | Salary  |        |
| Under 20 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 20 to 24 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 25 to 29 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 30 to 34 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 35 to 39 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 40 to 44 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 45 to 49 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 1               | 60,702  | 0               | 0       | 0                  | 0       | 0            | 1       | 60,702 |
| 50 to 54 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 55 to 59 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 1               | 53,975  | 1               | 64,512  | 0                  | 0       | 2            | 118,488 |        |
| 60 to 64 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 1               | 51,886 | 1               | 63,195  | 1               | 98,179  | 0                  | 0       | 3            | 213,260 |        |
| 65 to 69 | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 0                  | 0       | 0            | 0       |        |
| 70 & up  | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 0               | 0       | 0               | 0       | 2                  | 122,502 | 2            | 122,502 |        |
| TOTAL    | 0                       | 0      | 0             | 0      | 0               | 0      | 0               | 0      | 0               | 0      | 1               | 51,886 | 3               | 177,873 | 2               | 162,691 | 2                  | 122,502 | 8            | 514,952 |        |

TABLE 3  
THE NUMBER AND ANNUAL COMPENSATION OF  
ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE  
AS OF JUNE 30, 2013

LAW ENFORCEMENT PERSONNEL - GROUP C

| AGE      | Years of Service |           |        |           |          |           |          |           |          |           |          |           |          |        |          |        |         |        |       |            |
|----------|------------------|-----------|--------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|--------|----------|--------|---------|--------|-------|------------|
|          | 0 to 4           |           | 5 to 9 |           | 10 to 14 |           | 15 to 19 |           | 20 to 24 |           | 25 to 29 |           | 30 to 34 |        | 35 to 39 |        | 40 & up |        | Total |            |
|          | No.              | Salary    | No.    | Salary    | No.      | Salary    | No.      | Salary    | No.      | Salary    | No.      | Salary    | No.      | Salary | No.      | Salary | No.     | Salary | No.   | Salary     |
| Under 20 | 0                | 0         | 0      | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 0     | 0          |
| 20 to 24 | 22               | 890,865   | 0      | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 22    | 890,865    |
| 25 to 29 | 52               | 2,494,477 | 12     | 693,060   | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 64    | 3,187,537  |
| 30 to 34 | 25               | 1,296,706 | 34     | 2,244,899 | 3        | 219,124   | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 62    | 3,760,728  |
| 35 to 39 | 11               | 600,589   | 26     | 1,690,698 | 32       | 2,566,713 | 10       | 877,429   | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 79    | 5,735,429  |
| 40 to 44 | 5                | 249,946   | 21     | 1,365,765 | 43       | 3,234,949 | 25       | 2,160,303 | 9        | 904,708   | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 103   | 7,915,671  |
| 45 to 49 | 5                | 229,316   | 8      | 506,625   | 14       | 1,072,716 | 12       | 1,035,652 | 35       | 3,549,064 | 19       | 1,951,766 | 0        | 0      | 0        | 0      | 0       | 0      | 93    | 8,345,139  |
| 50 to 54 | 1                | 51,659    | 1      | 68,617    | 7        | 402,663   | 3        | 261,474   | 3        | 296,500   | 7        | 663,415   | 1        | 95,761 | 0        | 0      | 0       | 0      | 23    | 1,840,089  |
| 55 to 59 | 0                | 0         | 0      | 0         | 2        | 111,231   | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 2     | 111,231    |
| 60 to 64 | 0                | 0         | 0      | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 0     | 0          |
| 65 to 69 | 0                | 0         | 0      | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 0     | 0          |
| 70 & up  | 0                | 0         | 0      | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0         | 0        | 0      | 0        | 0      | 0       | 0      | 0     | 0          |
| TOTAL    | 121              | 5,813,559 | 102    | 6,569,664 | 101      | 7,607,395 | 50       | 4,334,858 | 47       | 4,750,272 | 26       | 2,615,182 | 1        | 95,761 | 0        | 0      | 0       | 0      | 448   | 31,786,690 |

TABLE 4  
 THE NUMBER AND ANNUAL COMPENSATION OF  
 ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE  
 AS OF JUNE 30, 2013

JUDGES - GROUP D

| AGE      | Years of Service |           |        |           |          |         |          |         |          |         |          |         |          |         |          |         |         |        |       |        |           |
|----------|------------------|-----------|--------|-----------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|---------|---------|--------|-------|--------|-----------|
|          | 0 to 4           |           | 5 to 9 |           | 10 to 14 |         | 15 to 19 |         | 20 to 24 |         | 25 to 29 |         | 30 to 34 |         | 35 to 39 |         | 40 & up |        | Total |        |           |
|          | No.              | Salary    | No.    | Salary    | No.      | Salary  | No.      | Salary  | No.      | Salary  | No.      | Salary  | No.      | Salary  | No.      | Salary  | No.     | Salary | No.   | Salary |           |
| Under 20 | 0                | 0         | 0      | 0         | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 0      | 0         |
| 20 to 24 | 0                | 0         | 0      | 0         | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 0      | 0         |
| 25 to 29 | 0                | 0         | 0      | 0         | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 0      | 0         |
| 30 to 34 | 0                | 0         | 0      | 0         | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 0      | 0         |
| 35 to 39 | 0                | 0         | 0      | 0         | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 0      | 0         |
| 40 to 44 | 0                | 0         | 0      | 0         | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 0      | 0         |
| 45 to 49 | 4                | 500,863   | 1      | 126,226   | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 5      | 627,089   |
| 50 to 54 | 0                | 0         | 1      | 34,740    | 1        | 126,226 | 1        | 126,226 | 1        | 126,226 | 0        | 0       | 0        | 0       | 0        | 0       | 0       | 0      | 0     | 4      | 413,417   |
| 55 to 59 | 3                | 279,379   | 6      | 724,069   | 3        | 327,563 | 0        | 0       | 1        | 122,824 | 1        | 126,226 | 1        | 126,226 | 0        | 0       | 0       | 0      | 0     | 15     | 1,706,287 |
| 60 to 64 | 2                | 189,547   | 4      | 312,591   | 2        | 170,358 | 3        | 316,565 | 0        | 0       | 3        | 307,845 | 2        | 252,451 | 1        | 132,770 | 0       | 0      | 0     | 17     | 1,682,127 |
| 65 to 69 | 2                | 189,120   | 2      | 185,141   | 1        | 41,755  | 0        | 0       | 2        | 255,418 | 1        | 132,770 | 0        | 0       | 1        | 132,770 | 0       | 0      | 0     | 9      | 936,974   |
| 70 & up  | 0                | 0         | 0      | 0         | 0        | 0       | 0        | 0       | 0        | 0       | 0        | 0       | 1        | 126,226 | 0        | 0       | 0       | 0      | 0     | 1      | 126,226   |
| TOTAL    | 11               | 1,158,910 | 14     | 1,382,767 | 7        | 665,901 | 4        | 442,790 | 4        | 504,467 | 5        | 566,841 | 4        | 504,902 | 2        | 265,541 | 0       | 0      | 0     | 51     | 5,492,119 |

TABLE 5  
THE NUMBER AND ANNUAL COMPENSATION OF  
ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE  
AS OF JUNE 30, 2013

GENERAL EMPLOYEES - GROUP F

| AGE      | <i>Years of Service</i> |            |               |            |                 |            |                 |            |                 |            |                 |            |                 |            |                 |            |                    |           |              |             |
|----------|-------------------------|------------|---------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|--------------------|-----------|--------------|-------------|
|          | <i>0 to 4</i>           |            | <i>5 to 9</i> |            | <i>10 to 14</i> |            | <i>15 to 19</i> |            | <i>20 to 24</i> |            | <i>25 to 29</i> |            | <i>30 to 34</i> |            | <i>35 to 39</i> |            | <i>40 &amp; up</i> |           | <i>Total</i> |             |
|          | No.                     | Salary     | No.           | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.             | Salary     | No.                | Salary    | No.          | Salary      |
| Under 20 | 4                       | 50,505     | 0             | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 4            | 50,505      |
| 20 to 24 | 187                     | 5,210,086  | 2             | 90,936     | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 189          | 5,301,022   |
| 25 to 29 | 433                     | 14,625,230 | 97            | 4,292,893  | 2               | 67,559     | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 532          | 18,985,682  |
| 30 to 34 | 389                     | 14,313,890 | 264           | 12,485,594 | 56              | 2,839,378  | 1               | 45,208     | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 710          | 29,684,070  |
| 35 to 39 | 268                     | 9,977,183  | 268           | 13,385,014 | 173             | 9,407,930  | 42              | 2,133,003  | 0               | 0          | 0               | 0          | 0               | 0          | 0               | 0          | 0                  | 0         | 751          | 34,903,129  |
| 40 to 44 | 265                     | 9,873,766  | 247           | 12,515,535 | 219             | 11,939,773 | 158             | 9,037,203  | 83              | 4,512,938  | 6               | 335,153    | 0               | 0          | 0               | 0          | 0                  | 0         | 978          | 48,214,368  |
| 45 to 49 | 217                     | 8,244,734  | 229           | 11,277,951 | 192             | 10,197,106 | 152             | 8,618,462  | 148             | 8,912,445  | 115             | 6,732,641  | 10              | 542,540    | 0               | 0          | 0                  | 0         | 1,063        | 54,525,879  |
| 50 to 54 | 218                     | 8,364,641  | 235           | 11,941,017 | 203             | 10,732,892 | 135             | 7,678,098  | 135             | 8,208,207  | 157             | 9,508,342  | 89              | 5,200,591  | 7               | 360,270    | 0                  | 0         | 1,179        | 61,994,057  |
| 55 to 59 | 188                     | 7,873,276  | 206           | 10,241,152 | 217             | 11,673,237 | 135             | 7,389,023  | 140             | 8,003,582  | 148             | 9,226,904  | 132             | 8,759,795  | 60              | 3,671,239  | 7                  | 435,076   | 1,233        | 67,273,283  |
| 60 to 64 | 71                      | 3,085,680  | 114           | 5,561,223  | 132             | 6,962,212  | 90              | 5,190,845  | 82              | 4,988,863  | 112             | 7,201,882  | 80              | 5,419,978  | 66              | 4,617,685  | 24                 | 1,604,159 | 771          | 44,632,529  |
| 65 to 69 | 18                      | 778,010    | 38            | 1,700,839  | 37              | 1,939,615  | 22              | 1,218,892  | 12              | 728,447    | 19              | 1,197,419  | 22              | 1,236,159  | 18              | 1,221,921  | 17                 | 1,249,912 | 203          | 11,271,215  |
| 70 & up  | 5                       | 244,463    | 3             | 80,469     | 8               | 380,683    | 5               | 255,370    | 3               | 173,810    | 2               | 112,881    | 2               | 152,311    | 2               | 132,309    | 8                  | 604,238   | 38           | 2,136,533   |
| TOTAL    | 2,263                   | 82,641,465 | 1,703         | 83,572,623 | 1,239           | 66,140,384 | 740             | 41,566,104 | 603             | 35,528,293 | 559             | 34,315,222 | 335             | 21,311,373 | 153             | 10,003,423 | 56                 | 3,893,385 | 7,651        | 378,972,271 |

TABLE 6

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

ALL EMPLOYEES

| Age          | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|--------------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|              | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 30 and Under | 4                  | \$ 26,943        | 10                    | \$ 122,187       | 42            | \$ 214,321       |
| 33           | -                  | -                | 1                     | 8,804            | -             | -                |
| 34           | -                  | -                | -                     | -                | 1             | 7,049            |
| 36           | -                  | -                | 1                     | 10,483           | 1             | 5,399            |
| 39           | -                  | -                | 1                     | 7,977            | -             | -                |
| 40           | -                  | -                | 2                     | 34,992           | 1             | 7,744            |
| 41           | -                  | -                | 1                     | 9,657            | 2             | 22,432           |
| 42           | 1                  | 2,547            | 1                     | 17,243           | 1             | 9,846            |
| 43           | -                  | -                | 2                     | 28,985           | 1             | 11,480           |
| 44           | -                  | -                | 1                     | 10,826           | -             | -                |
| 45           | 3                  | 43,868           | 3                     | 63,390           | 1             | 7,526            |
| 46           | 2                  | 51,817           | 2                     | 53,579           | -             | -                |
| 47           | -                  | -                | 3                     | 60,744           | 1             | 7,397            |
| 48           | -                  | -                | 8                     | 130,061          | 2             | 31,700           |
| 49           | 4                  | 124,347          | 4                     | 90,036           | 3             | 45,431           |
| 50           | 16                 | 652,098          | 8                     | 102,668          | -             | -                |
| 51           | 20                 | 614,326          | 11                    | 154,516          | 2             | 17,478           |
| 52           | 19                 | 640,266          | 10                    | 134,259          | 3             | 44,555           |
| 53           | 33                 | 1,282,748        | 4                     | 53,810           | 3             | 17,132           |
| 54           | 29                 | 995,527          | 9                     | 99,119           | 1             | 8,815            |
| 55           | 49                 | 1,691,773        | 7                     | 85,829           | 7             | 86,995           |
| 56           | 60                 | 2,031,944        | 11                    | 177,087          | 4             | 58,362           |
| 57           | 75                 | 1,783,128        | 7                     | 110,057          | 7             | 87,292           |
| 58           | 88                 | 2,516,611        | 13                    | 149,528          | 9             | 88,418           |
| 59           | 111                | 2,404,790        | 16                    | 171,191          | 12            | 192,116          |
| 60           | 97                 | 2,506,228        | 20                    | 268,513          | 12            | 162,824          |
| 61           | 136                | 2,999,324        | 24                    | 246,581          | 5             | 65,145           |
| 62           | 207                | 4,077,982        | 17                    | 220,268          | 10            | 111,096          |
| 63           | 265                | 5,265,012        | 21                    | 260,218          | 6             | 60,460           |
| 64           | 258                | 4,516,852        | 23                    | 291,272          | 10            | 91,455           |
| 65           | 291                | 5,283,785        | 13                    | 151,307          | 10            | 159,434          |
| 66           | 314                | 6,124,502        | 14                    | 226,121          | 13            | 165,891          |
| 67           | 220                | 4,227,038        | 13                    | 152,703          | 9             | 104,482          |
| 68           | 215                | 3,772,658        | 7                     | 81,929           | 13            | 118,338          |
| 69           | 199                | 3,279,961        | 13                    | 165,353          | 19            | 263,941          |
| 70           | 219                | 3,967,960        | 12                    | 119,138          | 20            | 256,463          |
| 71           | 186                | 3,394,495        | 10                    | 93,404           | 18            | 222,190          |
| 72           | 159                | 2,460,188        | 7                     | 77,299           | 18            | 227,974          |
| 73           | 143                | 2,172,916        | 9                     | 137,954          | 17            | 135,200          |
| 74           | 131                | 1,841,283        | 3                     | 16,660           | 21            | 234,850          |
| 75           | 112                | 1,675,175        | 10                    | 120,877          | 12            | 140,485          |
| 76           | 112                | 1,761,108        | 6                     | 48,119           | 13            | 117,380          |
| 77           | 133                | 2,017,338        | 4                     | 30,585           | 20            | 244,463          |

TABLE 6, continued

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

ALL EMPLOYEES

| Age   | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|-------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|       | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 78    | 102                | 1,685,147        | 4                     | 34,354           | 21            | 190,086          |
| 79    | 99                 | 1,491,921        | 2                     | 40,486           | 11            | 88,560           |
| 80    | 107                | 1,439,779        | 4                     | 24,135           | 12            | 145,498          |
| 81    | 73                 | 805,387          | 3                     | 34,613           | 14            | 143,353          |
| 82    | 89                 | 1,116,567        | 2                     | 10,427           | 18            | 235,834          |
| 83    | 80                 | 1,024,483        | 2                     | 23,119           | 17            | 199,109          |
| 84    | 61                 | 787,275          | 2                     | 21,467           | 11            | 73,037           |
| 85    | 49                 | 636,892          | 3                     | 37,721           | 19            | 185,570          |
| 86    | 50                 | 612,461          | 1                     | 7,097            | 5             | 32,322           |
| 87    | 49                 | 580,627          | -                     | -                | 12            | 124,877          |
| 88    | 37                 | 384,891          | -                     | -                | 11            | 115,644          |
| 89    | 28                 | 255,571          | 1                     | 8,975            | 8             | 42,473           |
| 90    | 33                 | 326,538          | 2                     | 25,678           | 6             | 73,261           |
| 91    | 17                 | 166,954          | 1                     | 9,016            | 4             | 49,178           |
| 92    | 20                 | 163,920          | 1                     | 14,431           | 13            | 143,600          |
| 93    | 19                 | 132,362          | -                     | -                | 3             | 34,346           |
| 94    | 12                 | 117,438          | -                     | -                | 4             | 38,916           |
| 95    | 6                  | 74,165           | 1                     | 9,770            | 3             | 29,653           |
| 96    | 4                  | 30,623           | -                     | -                | 1             | 37,843           |
| 97    | 6                  | 46,013           | -                     | -                | 1             | 6,151            |
| 98    | 2                  | 49,044           | -                     | -                | -             | -                |
| 99    | 0                  | -                | -                     | -                | 1             | 14,220           |
| 101   | 3                  | 19,614           | -                     | -                | -             | -                |
| 102   | 0                  | -                | -                     | -                | 1             | 22,257           |
| 110   | 0                  | -                | -                     | -                | 1             | 2,252            |
| Total | 4,857              | 88,154,210       | 391                   | 4,896,618        | 547           | 5,881,599        |

TABLE 7

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

GENERAL EMPLOYEES - GROUP A

| Age          | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|--------------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|              | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 30 and Under | -                  | \$ -             | -                     | \$ -             | -             | \$ -             |
| 58           | 2                  | 79,586           | 1                     | 13,783           | -             | -                |
| 59           | 1                  | 1,462            | -                     | -                | -             | -                |
| 60           | -                  | -                | 1                     | 15,966           | 1             | 8,701            |
| 61           | 3                  | 86,070           | 1                     | 7,021            | -             | -                |
| 62           | 3                  | 72,229           | -                     | -                | -             | -                |
| 63           | 1                  | 35,615           | -                     | -                | -             | -                |
| 64           | 4                  | 97,665           | 1                     | 19,987           | -             | -                |
| 65           | 5                  | 120,169          | 1                     | 7,402            | 1             | 22,081           |
| 66           | 4                  | 92,039           | -                     | -                | 1             | 36,454           |
| 67           | 7                  | 189,522          | 1                     | 17,249           | -             | -                |
| 68           | -                  | -                | -                     | -                | 2             | 9,164            |
| 69           | 3                  | 85,675           | -                     | -                | 1             | 14,644           |
| 70           | -                  | -                | -                     | -                | 1             | 13,650           |
| 71           | 6                  | 181,820          | -                     | -                | 2             | 23,287           |
| 72           | 6                  | 127,060          | -                     | -                | 3             | 36,362           |
| 73           | 3                  | 54,897           | -                     | -                | -             | -                |
| 74           | 6                  | 167,701          | -                     | -                | -             | -                |
| 75           | 4                  | 85,545           | 1                     | 10,874           | -             | -                |
| 76           | 7                  | 134,994          | 1                     | 11,826           | -             | -                |
| 77           | 4                  | 102,058          | 1                     | 9,680            | -             | -                |
| 78           | 12                 | 331,095          | -                     | -                | -             | -                |
| 79           | 5                  | 110,661          | -                     | -                | -             | -                |
| 80           | 3                  | 78,480           | -                     | -                | -             | -                |
| 81           | 4                  | 78,131           | 1                     | 18,167           | 2             | 19,747           |
| 82           | 6                  | 136,597          | 1                     | 5,812            | 3             | 34,649           |
| 83           | 8                  | 157,355          | 1                     | 16,988           | 4             | 33,626           |
| 84           | 5                  | 84,634           | 1                     | 16,699           | 2             | 16,739           |
| 85           | 4                  | 84,160           | 2                     | 33,912           | 3             | 29,231           |
| 86           | 2                  | 16,395           | 1                     | 7,097            | 2             | 13,066           |
| 87           | 8                  | 116,095          | -                     | -                | 7             | 57,144           |
| 88           | 5                  | 61,197           | -                     | -                | 3             | 27,887           |
| 89           | 6                  | 61,075           | 1                     | 8,975            | 2             | 10,037           |
| 90           | 6                  | 38,088           | 2                     | 25,678           | -             | -                |
| 91           | 2                  | 19,351           | 1                     | 9,016            | 1             | 7,233            |
| 92           | 4                  | 37,590           | 1                     | 14,431           | 9             | 109,871          |
| 93           | 6                  | 35,592           | -                     | -                | 1             | 7,552            |
| 94           | 6                  | 73,942           | -                     | -                | 3             | 30,271           |
| 95           | 5                  | 52,910           | 1                     | 9,770            | 2             | 17,804           |
| 96           | 3                  | 27,751           | -                     | -                | -             | -                |
| 97           | 6                  | 46,013           | -                     | -                | 1             | 6,151            |
| 98           | 2                  | 49,044           | -                     | -                | -             | -                |
| 99           | -                  | -                | -                     | -                | 1             | 14,220           |

TABLE 7, continued

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

GENERAL EMPLOYEES - GROUP A

| Age   | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|-------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|       | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 101   | 3                  | 19,614           | -                     | -                | -             | -                |
| 102   | -                  | -                | -                     | -                | 1             | 22,257           |
| 110   | -                  | -                | -                     | -                | 1             | 2,252            |
| Total | 180                | 3,429,877        | 22                    | 280,333          | 61            | 630,692          |

TABLE 8

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

STATE POLICE AND MOTOR VEHICLE INSPECTORS - GROUP B

| Age   | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|-------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|       | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 41    | -                  | \$ -             | -                     | \$ -             | 1             | \$ 19,079        |
| 55    | 1                  | 10,938           | -                     | -                | -             | -                |
| 59    | 1                  | 9,258            | -                     | -                | -             | -                |
| 62    | 1                  | 4,712            | -                     | -                | -             | -                |
| 64    | -                  | -                | 1                     | 19,837           | -             | -                |
| 66    | 2                  | 39,951           | -                     | -                | -             | -                |
| 67    | 2                  | 62,746           | -                     | -                | -             | -                |
| 68    | 1                  | 24,941           | -                     | -                | -             | -                |
| 69    | -                  | -                | 1                     | 20,706           | -             | -                |
| 70    | 1                  | 8,546            | -                     | -                | 1             | 16,380           |
| 71    | 2                  | 57,874           | -                     | -                | -             | -                |
| Total | 11                 | 218,966          | 2                     | 40,543           | 2             | 35,459           |

TABLE 9

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

LAW ENFORCEMENT PERSONNEL - GROUP C

| Age          | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|--------------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|              | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 30 and Under | 3                  | \$ 21,250        | 10                    | \$ 122,187       | 7             | \$ 57,289        |
| 40           | -                  | -                | 1                     | 29,618           | -             | -                |
| 41           | -                  | -                | -                     | -                | 1             | 11,654           |
| 42           | 1                  | 2,547            | -                     | -                | -             | -                |
| 45           | 1                  | 15,773           | 1                     | 37,732           | -             | -                |
| 46           | -                  | -                | 1                     | 43,006           | -             | -                |
| 47           | -                  | -                | 1                     | 40,973           | -             | -                |
| 48           | -                  | -                | 1                     | 46,905           | -             | -                |
| 49           | -                  | -                | 2                     | 72,944           | 1             | 22,503           |
| 50           | 8                  | 447,067          | 1                     | 24,930           | -             | -                |
| 51           | 8                  | 333,358          | -                     | -                | -             | -                |
| 52           | 5                  | 281,698          | 1                     | 52,953           | -             | -                |
| 53           | 16                 | 870,813          | -                     | -                | -             | -                |
| 54           | 8                  | 408,049          | -                     | -                | -             | -                |
| 55           | 15                 | 863,406          | 1                     | 35,152           | 1             | 19,541           |
| 56           | 17                 | 993,278          | 1                     | 43,556           | 1             | 26,877           |
| 57           | 14                 | 632,014          | 1                     | 36,704           | 1             | 34,285           |
| 58           | 17                 | 995,785          | -                     | -                | 1             | 21,696           |
| 59           | 7                  | 380,410          | -                     | -                | 1             | 29,767           |
| 60           | 13                 | 764,884          | 2                     | 70,567           | 2             | 41,076           |
| 61           | 8                  | 443,920          | -                     | -                | 1             | 11,255           |
| 62           | 5                  | 234,293          | -                     | -                | 1             | 29,044           |
| 63           | 14                 | 570,443          | 1                     | 33,638           | -             | -                |
| 64           | 4                  | 136,439          | 1                     | 29,565           | -             | -                |
| 65           | 9                  | 326,519          | 1                     | 42,574           | 1             | 30,888           |
| 66           | 13                 | 563,551          | 2                     | 77,373           | 2             | 42,283           |
| 67           | 11                 | 429,241          | 1                     | 40,973           | -             | -                |
| 68           | 1                  | 26,241           | 1                     | 32,964           | -             | -                |
| 69           | 5                  | 181,883          | 1                     | 31,607           | 3             | 82,859           |
| 70           | 10                 | 446,400          | -                     | -                | 1             | 38,621           |
| 71           | 8                  | 338,700          | -                     | -                | 1             | 27,154           |
| 72           | 5                  | 181,110          | -                     | -                | 3             | 91,384           |
| 73           | 4                  | 168,329          | 2                     | 60,669           | 1             | 19,784           |
| 74           | 3                  | 126,811          | -                     | -                | 2             | 46,837           |
| 75           | 4                  | 176,247          | 1                     | 27,365           | 2             | 34,881           |
| 76           | 3                  | 142,809          | -                     | -                | 1             | 17,962           |
| 77           | 2                  | 71,195           | -                     | -                | 1             | 36,452           |
| 78           | 3                  | 135,335          | -                     | -                | 1             | 42,014           |
| 79           | 3                  | 110,414          | 1                     | 32,221           | -             | -                |
| 80           | 4                  | 153,772          | -                     | -                | 4             | 104,408          |
| 81           | 2                  | 63,010           | -                     | -                | 1             | 29,251           |
| 82           | 5                  | 162,982          | -                     | -                | 5             | 108,609          |
| 83           | 3                  | 133,950          | -                     | -                | 3             | 64,732           |
| 84           | 5                  | 194,101          | -                     | -                | 1             | 27,633           |
| 85           | -                  | -                | -                     | -                | 2             | 52,292           |
| 86           | 2                  | 63,078           | -                     | -                | -             | -                |
| 87           | 1                  | 36,137           | -                     | -                | 2             | 43,168           |
| 88           | -                  | -                | -                     | -                | 3             | 61,286           |
| 92           | 1                  | 17,885           | -                     | -                | 1             | 22,007           |
| 93           | -                  | -                | -                     | -                | 1             | 19,066           |
| 94           | -                  | -                | -                     | -                | -             | -                |
| Total        | 271                | 12,645,127       | 36                    | 1,066,176        | 61            | 1,357,203        |

TABLE 10

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

JUDGES - GROUP D

| Age   | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|-------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|       | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 49    | -                  | -                | -                     | -                | 1             | 10,727           |
| 55    | 1                  | 24,804           | -                     | -                | -             | -                |
| 62    | 1                  | 39,719           | -                     | -                | -             | -                |
| 63    | 4                  | 291,348          | -                     | -                | -             | -                |
| 64    | 2                  | 51,716           | -                     | -                | -             | -                |
| 65    | 1                  | 96,618           | -                     | -                | -             | -                |
| 66    | 2                  | 178,502          | -                     | -                | -             | -                |
| 67    | 2                  | 42,807           | -                     | -                | 1             | 25,543           |
| 68    | 1                  | 16,063           | -                     | -                | -             | -                |
| 69    | 1                  | 33,032           | -                     | -                | -             | -                |
| 70    | 4                  | 271,215          | -                     | -                | -             | -                |
| 71    | 3                  | 243,681          | -                     | -                | -             | -                |
| 73    | 1                  | 72,420           | -                     | -                | -             | -                |
| 74    | 1                  | 33,972           | -                     | -                | -             | -                |
| 75    | 1                  | 77,527           | -                     | -                | -             | -                |
| 76    | 3                  | 165,471          | -                     | -                | -             | -                |
| 77    | 2                  | 142,935          | -                     | -                | 1             | 31,872           |
| 78    | 1                  | 95,821           | -                     | -                | -             | -                |
| 80    | 2                  | 161,604          | -                     | -                | -             | -                |
| 81    | 2                  | 62,645           | -                     | -                | -             | -                |
| 83    | 1                  | 38,333           | -                     | -                | 1             | 27,677           |
| 85    | 2                  | 132,486          | -                     | -                | -             | -                |
| 86    | 2                  | 129,509          | -                     | -                | -             | -                |
| 87    | 1                  | 38,189           | -                     | -                | -             | -                |
| 88    | 2                  | 65,638           | -                     | -                | -             | -                |
| 89    | 1                  | 9,631            | -                     | -                | -             | -                |
| 90    | 1                  | 55,428           | -                     | -                | 1             | 46,247           |
| 91    | 2                  | 85,350           | -                     | -                | 2             | 36,834           |
| 95    | 1                  | 21,255           | -                     | -                | -             | -                |
| 96    | -                  | -                | -                     | -                | 1             | 37,843           |
| Total | 48                 | 2,677,719        | -                     | -                | 8             | 216,743          |

TABLE 11

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

GENERAL EMPLOYEES - GROUPS E/F

| Age          | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|--------------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|              | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 30 and Under | 1                  | \$ 5,693         | -                     | \$ -             | 35            | \$ 157,032       |
| 33           | -                  | -                | 1                     | 8,804            | -             | -                |
| 34           | -                  | -                | -                     | -                | 1             | 7,049            |
| 36           | -                  | -                | 1                     | 10,483           | 1             | 5,399            |
| 39           | -                  | -                | 1                     | 7,977            | -             | -                |
| 40           | -                  | -                | 1                     | 5,374            | 1             | 7,744            |
| 41           | -                  | -                | 1                     | 9,657            | 1             | 10,778           |
| 42           | -                  | -                | 1                     | 17,243           | 1             | 9,846            |
| 43           | -                  | -                | 2                     | 28,985           | 1             | 11,480           |
| 44           | -                  | -                | 1                     | 10,826           | -             | -                |
| 45           | 2                  | 28,095           | 2                     | 25,658           | 1             | 7,526            |
| 46           | 2                  | 51,817           | 1                     | 10,573           | -             | -                |
| 47           | -                  | -                | 2                     | 19,771           | 1             | 7,397            |
| 48           | -                  | -                | 7                     | 83,156           | 1             | 12,621           |
| 49           | 4                  | 124,347          | 2                     | 17,092           | 1             | 12,201           |
| 50           | 8                  | 205,031          | 7                     | 77,738           | -             | -                |
| 51           | 12                 | 280,968          | 11                    | 154,516          | 2             | 17,478           |
| 52           | 14                 | 358,568          | 9                     | 81,306           | 3             | 44,555           |
| 53           | 17                 | 411,935          | 4                     | 53,810           | 3             | 17,132           |
| 54           | 21                 | 587,478          | 9                     | 99,119           | 1             | 8,815            |
| 55           | 32                 | 792,625          | 6                     | 50,677           | 5             | 60,842           |
| 56           | 43                 | 1,038,666        | 10                    | 133,531          | 3             | 31,485           |
| 57           | 61                 | 1,151,114        | 6                     | 73,353           | 6             | 53,007           |
| 58           | 69                 | 1,441,240        | 12                    | 135,745          | 8             | 66,722           |
| 59           | 102                | 2,013,660        | 16                    | 171,191          | 11            | 162,349          |
| 60           | 84                 | 1,741,344        | 17                    | 181,980          | 9             | 113,047          |
| 61           | 125                | 2,469,334        | 23                    | 239,560          | 4             | 53,890           |
| 62           | 197                | 3,727,029        | 17                    | 220,268          | 9             | 82,052           |
| 63           | 246                | 4,367,606        | 20                    | 226,580          | 6             | 60,460           |
| 64           | 248                | 4,231,032        | 20                    | 221,883          | 10            | 91,455           |
| 65           | 276                | 4,740,479        | 11                    | 101,331          | 8             | 106,465          |
| 66           | 293                | 5,250,459        | 12                    | 148,748          | 10            | 87,154           |
| 67           | 198                | 3,502,722        | 11                    | 94,481           | 8             | 78,939           |
| 68           | 212                | 3,705,413        | 6                     | 48,965           | 11            | 109,174          |
| 69           | 190                | 2,979,371        | 11                    | 113,040          | 15            | 166,438          |
| 70           | 204                | 3,241,799        | 12                    | 119,138          | 17            | 187,812          |
| 71           | 167                | 2,572,420        | 10                    | 93,404           | 15            | 171,749          |
| 72           | 148                | 2,152,018        | 7                     | 77,299           | 12            | 100,228          |
| 73           | 135                | 1,877,270        | 7                     | 77,285           | 16            | 115,416          |
| 74           | 121                | 1,512,799        | 3                     | 16,660           | 19            | 188,013          |
| 75           | 103                | 1,335,856        | 8                     | 82,638           | 10            | 105,604          |
| 76           | 99                 | 1,317,834        | 5                     | 36,293           | 12            | 99,418           |
| 77           | 125                | 1,701,150        | 3                     | 20,905           | 18            | 176,139          |

TABLE 11, continued

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY ATTAINED AGE AS OF JUNE 30, 2013

GENERAL EMPLOYEES - GROUPS E/F

| Age   | Service Pensioners |                  | Disability Pensioners |                  | Beneficiaries |                  |
|-------|--------------------|------------------|-----------------------|------------------|---------------|------------------|
|       | Number             | Annual Allowance | Number                | Annual Allowance | Number        | Annual Allowance |
| 78    | 86                 | 1,122,896        | 4                     | 34,354           | 20            | 148,072          |
| 79    | 91                 | 1,270,846        | 1                     | 8,265            | 11            | 88,560           |
| 80    | 98                 | 1,045,923        | 4                     | 24,135           | 8             | 41,090           |
| 81    | 65                 | 601,601          | 2                     | 16,446           | 11            | 94,355           |
| 82    | 78                 | 816,988          | 1                     | 4,615            | 10            | 92,576           |
| 83    | 68                 | 694,845          | 1                     | 6,131            | 9             | 73,074           |
| 84    | 51                 | 508,540          | 1                     | 4,768            | 8             | 28,665           |
| 85    | 43                 | 420,246          | 1                     | 3,809            | 14            | 104,047          |
| 86    | 44                 | 403,479          | -                     | -                | 3             | 19,256           |
| 87    | 39                 | 390,206          | -                     | -                | 3             | 24,565           |
| 88    | 30                 | 258,056          | -                     | -                | 5             | 26,471           |
| 89    | 21                 | 184,865          | -                     | -                | 6             | 32,436           |
| 90    | 26                 | 233,022          | -                     | -                | 5             | 27,014           |
| 91    | 13                 | 62,253           | -                     | -                | 1             | 5,111            |
| 92    | 15                 | 108,445          | -                     | -                | 3             | 11,722           |
| 93    | 13                 | 96,770           | -                     | -                | 1             | 7,728            |
| 94    | 6                  | 43,496           | -                     | -                | -             | -                |
| 95    | -                  | -                | -                     | -                | 1             | 11,849           |
| 96    | 1                  | 2,872            | -                     | -                | -             | -                |
| Total | 4,347              | 69,182,521       | 331                   | 3,509,566        | 415           | 3,641,502        |

TABLE 12  
SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA  
BY YEAR OF RETIREMENT

| Year of Retirement | Number | Annual Allowance | Average Allowance |
|--------------------|--------|------------------|-------------------|
| 1957               | 2      | \$ 9,763         | \$ 4,882          |
| 1972               | 2      | 28,886           | 14,443            |
| 1974               | 3      | 28,168           | 9,389             |
| 1975               | 2      | 28,036           | 14,018            |
| 1976               | 3      | 26,669           | 8,890             |
| 1977               | 9      | 83,734           | 9,304             |
| 1978               | 11     | 120,184          | 10,926            |
| 1979               | 8      | 117,853          | 14,732            |
| 1980               | 16     | 135,147          | 8,447             |
| 1981               | 9      | 99,017           | 11,002            |
| 1982               | 21     | 183,763          | 8,751             |
| 1983               | 26     | 267,544          | 10,290            |
| 1984               | 35     | 541,883          | 15,482            |
| 1985               | 38     | 432,325          | 11,377            |
| 1986               | 39     | 475,092          | 12,182            |
| 1987               | 60     | 743,873          | 12,398            |
| 1988               | 61     | 840,715          | 13,782            |
| 1989               | 62     | 842,271          | 13,585            |
| 1990               | 103    | 1,142,237        | 11,090            |
| 1991               | 109    | 1,669,538        | 15,317            |
| 1992               | 75     | 688,673          | 9,182             |
| 1993               | 109    | 1,467,403        | 13,462            |
| 1994               | 78     | 1,061,896        | 13,614            |
| 1995               | 124    | 1,541,775        | 12,434            |
| 1996               | 394    | 5,994,822        | 15,215            |
| 1997               | 112    | 1,858,290        | 16,592            |
| 1998               | 111    | 1,769,800        | 15,944            |
| 1999               | 143    | 2,105,268        | 14,722            |
| 2000               | 176    | 2,523,774        | 14,340            |
| 2001               | 176    | 2,527,595        | 14,361            |
| 2002               | 192    | 3,273,825        | 17,051            |
| 2003               | 216    | 4,062,428        | 18,808            |
| 2004               | 276    | 5,211,395        | 18,882            |
| 2005               | 268    | 4,730,007        | 17,649            |
| 2006               | 271    | 5,177,668        | 19,106            |
| 2007               | 307    | 5,701,212        | 18,571            |
| 2008               | 316    | 6,178,138        | 19,551            |
| 2009               | 525    | 10,396,313       | 19,803            |
| 2010               | 374    | 7,278,994        | 19,463            |
| 2011               | 355    | 6,693,125        | 18,854            |
| 2012               | 362    | 6,948,204        | 19,194            |
| 2013               | 216    | 3,925,124        | 18,172            |
| Total              | 5,795  | 98,932,427       | 17,072            |

SCHEDULE E

AMORTIZATION SCHEDULE FOR THE UNFUNDED ACTUARIAL ACCRUED  
LIABILITY

**AMORTIZATION SCHEDULE  
FOR THE UNFUNDED ACTUARIAL ACCRUED LIABILITY**

| Date      | Balance     | Amortization<br>Payment<br>(Year Following) |
|-----------|-------------|---|
| 6/30/2013 | 445,130,082 | 26,227,379                                  |
| 6/30/2014 | 446,723,333 | 27,538,748                                  |
| 6/30/2015 | 449,338,410 | 28,915,685                                  |
| 6/30/2016 | 451,876,414 | 30,361,469                                  |
| 6/30/2017 | 455,405,676 | 31,879,542                                  |
| 6/30/2018 | 458,820,074 | 33,473,519                                  |
| 6/30/2019 | 463,199,211 | 35,147,195                                  |
| 6/30/2020 | 466,265,951 | 36,904,555                                  |
| 6/30/2021 | 467,828,337 | 38,749,783                                  |
| 6/30/2022 | 468,843,962 | 40,687,272                                  |
| 6/30/2023 | 468,008,427 | 42,721,636                                  |
| 6/30/2024 | 465,067,507 | 44,857,718                                  |
| 6/30/2025 | 459,740,527 | 47,100,604                                  |
| 6/30/2026 | 451,717,868 | 49,455,634                                  |
| 6/30/2027 | 440,658,253 | 51,928,416                                  |
| 6/30/2028 | 426,185,789 | 54,524,837                                  |
| 6/30/2029 | 408,952,208 | 57,251,079                                  |
| 6/30/2030 | 388,506,828 | 60,113,633                                  |
| 6/30/2031 | 363,358,809 | 63,119,315                                  |
| 6/30/2032 | 332,941,787 | 66,275,281                                  |
| 6/30/2033 | 296,631,267 | 69,589,045                                  |
| 6/30/2034 | 253,739,036 | 73,068,497                                  |
| 6/30/2035 | 203,507,052 | 76,721,922                                  |
| 6/30/2036 | 145,100,765 | 80,558,018                                  |
| 6/30/2037 | 77,601,816  | 84,585,979                                  |
| 6/30/2038 | 0           | 0   |

SCHEDULE F

PROJECTION OF CONTRIBUTIONS FOR  
FOLLOWING TWO FISCAL YEARS

**PROJECTION OF CONTRIBUTIONS FOR  
FOLLOWING TWO FISCAL YEARS**

On the basis of the June 30, 2013 actuarial valuation, the recommended contribution for the fiscal year ending June 30, 2014, is \$42,522,931, which is based on the following:

|                                |               |
|--------------------------------|---------------|
| Payroll                        | \$416,766,032 |
| Normal rate                    | 3.91%         |
| Accrued liability contribution | \$26,227,379  |

The projections for the following two years are as follows:

| Fiscal Year | Projected Payroll | Normal Rate* | CONTRIBUTIONS |                   |              |
|-------------|-------------------|--------------|---------------|-------------------|--------------|
|             |                   |              | Normal        | Accrued Liability | Total        |
| 2015        | \$ 435,520,503    | 3.91%        | \$ 17,113,035 | \$27,538,748      | \$44,651,783 |
| 2016        | 455,118,926       | 3.91%        | 18,121,622    | 28,915,685        | 47,037,307   |

\*In these projections, total payroll is assumed to increase by 4.5% each year. The offset to normal cost paid by the State is constrained in accordance with the provisions of Act 63, Section 473 of the 2011 Legislative Session.