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REPORT ON THE<br>ACTUARIAL VALUATION<br>OF THE VERMONT STATE EMPLOYEES'<br>RETIREMENT SYSTEM<br>PREPARED AS OF JUNE 30, 2012

October 23, 2012

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, 2012, 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, 2012, amounts to $\$ 38,375,238$. Schedule F contains the estimated contributions for the following two years.

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,

## Waine 1. Drinuce

David L. Driscoll, F.S.A., E.A.
Principal and Consulting Actuary

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## REPORT ON THE ACTUARIAL VALUATION OF THE VERMONT STATE EMPLOYEES' RETIREMENT SYSTEM <br> PREPARED AS OF JUNE 30, 2012 <br> 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, 2011 | June 30, 2012 |
| :---: | :---: | :---: |
| Active members |  |  |
| Vested | 5,693 | 5,735 |
| Not vested | 2,075 | 2,143 |
| Total | 7,768 | 7,878 |
| Compensation | \$398,264,150 | \$385,525,891 |
| Average age | 47.02 | 46.35 |
| Average service | 12.57 | 12.45 |
| Average compensation | 51,270 | 48,937 |
| Retired members and beneficiaries |  |  |
| Number | 5,375 | 5,600 |
| Annual retirement allowances | \$86,681,452 | \$93,712,861 |
| Inactive members | 849 | 835 |
| Terminated vested members | 774 | 767 |
| Adjusted assets for valuation | \$1,348,762,790 | \$1,400,779,062 |
| Unfunded actuarial accrued liability | \$346,537,738 | \$401,824,745 |
| Annual actuarial accrued liability contribution | \$19,479,244 | \$23,108,413 |
| Normal contribution rate | 3.99\% | 3.96\% |

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 nonexempt employees who are not public safety or judiciary employees were increased by $3 \%$ in addition to a $2 \%$ across-the-board cost-of-living increase. 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. The assumptions were based on a recent experience study covering the period from July 1, 2005, through June 30,2010 . The mortality assumptions are adopted by the Board based on the study. The next experience study will take account of the requirement made in the latest revision of Actuarial Standard of Practice No. 35 to take account of 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. 31 members who terminated on June 30, 2012 and retired on July 1, 2012 were included with a valuation status as members receiving benefits. 223 members who terminated with five years of service and have not withdrawn from the Fund within three years of their termination were included with an inactive valuation status. The System will automatically vest these participants three years after their termination if no withdrawal occur.
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, 2012

| Group |  | Annual <br> Allowances |
| :--- | ---: | ---: |
| Service Retirements | 4,676 | $\$ 83,368,028$ |
| Disability Retirements | 384 | $\$ 4,668,173$ |
| Beneficiaries of Deceased <br> Members | 540 | $\$ 5,676,660$ |
| TOTAL | 5,600 | $\$ 93,712,861$ |

## BENEFITS PAYABLE AS OF JUNE 30, 2012

 TABULATED BY TYPE OF RETIREMENT AND OPTION| Group | Number | Annual Allowances |
| :---: | :---: | :---: |
| Service Retirements |  |  |
| Life Only | 1,526 | 18,910,877 |
| 50\% Joint and Survivor | 222 | 4,671,172 |
| 70\% Joint and Survivor | 49 | 2,418,514 |
| 100\% Joint and Survivor | 377 | 7,228,551 |
| 50\% Joint and Survivor, pop-up | 472 | 9,583,814 |
| 100\% Joint and Survivor, pop-up | 532 | 9,073,231 |
| Return of Contributions | 1,498 | 31,481,869 |
| Total | 4,676 | 83,368,028 |
| Disability Retirements |  |  |
| Life Only | 190 | 1,981,379 |
| 50\% Joint and Survivor | 6 | 44,238 |
| 70\% Joint and Survivor | 14 | 471,694 |
| 100\% Joint and Survivor | 19 | 165,432 |
| 50\% Joint and Survivor, pop-up | 14 | 147,243 |
| 100\% Joint and Survivor, pop-up | 11 | 75,901 |
| Return of Contributions | $\underline{130}$ | 1,782,286 |
| Total | 384 | 4,668,173 |
| Beneficiaries | 540 | 5,676,660 |
| Grand Total | 5,600 | 93,712,861 |




THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS AS OF JUNE 30, 2012

| GROUP | NUMBER | ANNUAL COMPENSATION |
| :---: | :---: | :---: |
| Group A |  |  |
| Men | 10 | \$640,994 |
| Women | 1 | 57,117 |
| Total | 11 | \$698,111 |
| Group C |  |  |
| Men | 395 | \$26,853,485 |
| Women | 46 | 2,815,331 |
| Total | 441 | \$29,668,816 |
| Group D |  |  |
| Men | 34 | \$3,228,468 |
| Women | 17 | 1,587,728 |
| Total | 51 | \$4,816,196 |
| Group F |  |  |
| Men | 3,504 | \$174,001,871 |
| Women | 3,871 | 176,340,897 |
| Total | 7,375 | \$350,342,768 |
| All Members |  |  |
| Men | 3,943 | \$204,724,818 |
| Women | 3,935 | 180,801,073 |
| Total | 7,878 | \$385,525,891 |

## 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, 2011
\$1,348,762,790

Cash flow during year (net of investment income)
Contributions paid
\$68,388,004
Benefit payouts
$(92,781,097)$
Expenses
$(7,190,866)$
Net

Expected investment income (6.25\%)
89,172,623

Preliminary asset value
\$1,406,351,454

Market value, June 30, 2012
\$1,378,489,496
Preliminary asset value
1,406,351,454
Unrecognized appreciation
$(27,861,958)$
Adjustment
x $20 \%$
(\$5,572,392)
Assets for valuation purposes, June 30, 2012
\$1,400,779,062

3 The assets for valuation purposes are $101.6 \%$ of market value.
4 The investment rate of return for the year ending June 30, 2012 is $6.27 \%$, based on the adjusted asset value.
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 nonexempt employees who are not public safety or judiciary employees were increased by $3 \%$ in addition to a $2 \%$ across-the-board cost-of-living increase. 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. The assumptions were based on a recent experience study covering the period from July 1, 2005, through June 30,2010 . The mortality assumptions are adopted by the Board based on the study. The next experience study will take account of the requirement made in the latest revision of Actuarial Standard of Practice No. 35 to take account of 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.

1. Unfunded liability, 6/30/2011 \$346,537,738
2. Normal Cost 41,517,079
3. Contributions $(68,388,004)$
4. Interest on 1, 2 and 3 22,148,689
5. Change in Actuarial Assumptions 0
6. Restart of select-and-ultimate interest structure 31,587,726
7. Change in Plan Provisions

0
8. Expected Unfunded Liability, 6/30/2012

373,403,228
9. Accrued Liability, 6/30/2012
10. Actuarial Value of Assets, 6/30/2012

1,400,779,062
11. Actual Unfunded Liability, 9. - 10.

401,824,745
12. Total gain/(loss), 8. - 11.
(\$28,421,517)

| Sources of Gain/(Loss) |  |
| :--- | ---: |
|  |  |
| Investment experience | $\$ 274,598$ |
| Expenses (investments) | $(6,042,357)$ |
| Expenses (other than investments) | $(1,369,818)$ |
| Salary experience | $(2,276,553)$ |
| COLA experience | $(2,645,456)$ |
| New members and rehires | $(4,418,862)$ |
| Mortality among retirees, beneficiaries | $(391,064)$ |
| and terminated vested participants. | $(8,036,027)$ |
| Mortality among active participants | $(3,006,875)$ |
| Retirement experience | 312,627 |
| Termination experience | $\underline{10,096,678}$ |
| Disability experience | $(\$ 28,421,517)$ |
| Other (data corrections, purchased service, etc.) |  |
| Total |  |

## 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, 2012:

| Normal contribution | $\$ 15,266,825$ |
| :--- | ---: | ---: |
| Accrued liability contribution | $\underline{23,108,413}$ |
| Total | $\$ 38,375,238$ |

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

| Normal | $3.96 \%$ |
| :--- | :--- |
| Accrued liability | $\underline{5.99 \%}$ |
| Total | $9.95 \%$ |

## 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 Assets (a) | Actuarial Accrued Liability (AAL) $\qquad$ (b) | $\begin{aligned} & \text { Unfunded } \\ & \text { AAL } \\ & \text { (UAAL) } \\ & \text { (b-a) } \\ & \hline \end{aligned}$ | 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) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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\% |
| 1996 | 560,659 | 664,173 | 103,514 | 84.4\% | 226,792 | 45.6\% |

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.

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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 |  | Annual <br> Ending <br> Required <br> June 30 <br> Contribution | Interest on <br> NPO | Amortization <br> of NPO | Pension Cost <br> $(1)+(2)-(3)$ | Actual <br> Contribution | Change in <br> NPO <br> $(4)-(5)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | NPO Balance |
|  |  |  |  |  |  |  | $(7)$ |
| 1998 | $22,597,786$ | $3,253,410$ | $3,216,421$ | $22,634,775$ | $23,426,108$ | $(791,333)$ | $37,484,076$ |
| 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 | $28,748,401$ | $3,926,266$ | $3,531,192$ | $29,143,475$ | $40,302,433$ | $(11,158,958)$ | $51,661,301$ |

3. The Annual Required Contribution for fiscal year 2012 is derived as follows:
$\$ 19,795,614$ product of the normal rate from the 2010 valuation report (4.81\%) and estimated FY 2012 payroll

16,792,250 amortization of unfunded liability (see amortization chart in 2010 valuation report)
$\qquad$ administrative expenses (other than retiree medical) reimbursable by the state
$\$ 39,175,673^{1}$

[^0]
## SCHEDULE A

VALUATION BALANCE SHEET
SHOWING THE ASSETS AND LIABILITIES OF THE VERMONT STATE EMPLOYEES RETIREMENT SYSTEM PREPARED AS OF JUNE 30, 2012

# VALUATION BALANCE SHEET <br> SHOWING THE ASSETS AND LIABILITIES OF THE VERMONT STATE EMPLOYEES RETIREMENT SYSTEM <br> PREPARED AS OF JUNE 30, 2012 

ASSETS
Adjusted assets of the system
\$1,400,779,062

Present value of prospective contributions

Members \$195,996,444

State
Accrued liability contributions $\quad 401,824,745$
Normal contributions $\quad \underline{143,082,193}$

Total prospective contributions $\quad \$ 740,903,382$

Total assets
\$2,141,682,444

## LIABILITIES

Actuarial present value of benefits payable on account of present retired members, terminated vested members and beneficiaries
\$1,030,219,077

Actuarial present value of benefits expected to become payable on account of active and inactive members
\$1,111,463,367


LIABILITIES
AS OF JUNE 30, 2012


## 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 $^{1}$ | 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 |

${ }^{1}$ 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 $\mathrm{F}^{2}$ |  |  |  |
| :---: | :---: | :---: | :---: |
| 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 |
|  |  |  |  |

${ }^{2}$ 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 <br> Salary Increase | Age | Annual Rate of <br> 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 | Group D <br> Year | Group F <br> Non Exempt <br> Non Judiciary | Group F <br> Exempt <br> Non Judiciary | Group F <br> Exempt <br> Judiciary |  |  |
| 2013 | $4.6 \%$ | $3 \%$ | $5 \%$ | $4.6 \%$ |  |  |
| 2014 | N/A | Valuation | N/A | N/A |  |  |
|  |  | Salary Scale |  |  |  |  |
| 2015 | N/A | less 1.7\% |  | 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 $1 \frac{1}{2} \%$ 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:

|  | Withdrawal and Vested <br> Retirement ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: |
| Age | Men <br> Employee | Female <br> Employee | Disability $^{1}$ |
| 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 ${ }^{2}$ : RP-2000 Table for Employees using Scale AA to 2016
${ }^{1}$ Increased during first 5 years of service.
$220 \%$ 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 <br> 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 |  |  |
| :---: | :---: | :---: |
|  | Non Exempt | Non Exempt |
| Fiscal Year | Non State Police | State Police |
|  |  |  |
| 2013 | $3 \%$ | $3 \%$ |
| 2014 | Valuation Salary | Valuation Salary |
|  | Scale less $1.7 \%$ | 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

Creditable Service

Membership

July 1, 1972 (for consolidated system).
Service as a member plus purchased service.

Group A - General employees who did not join noncontributory system on July 1, 1981.

Group C - State police and motor vehicle inspectors.

Group D - Judges.
Group F - All other general employees.

Groups A and F - average annual compensation during highest 3 consecutive years.

Group C - average annual compensation during highest 2 consecutive years.

Group D - annual compensation at retirement.

Service Retirement Allowance

Eligibility

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.

Group C - Age 55.

Group D - Age 62 with 5 years of service.

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 .

Amount
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

Amount

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.

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.

# Years of Service Reduction in Benefit <br> 35 <br> 30 <br> 25 <br> 20 <br> Less than 20 

All Groups - 5 years of service.
Allowance beginning at normal retirement age based on AFC and service at termination.

Ordinary Disability Retirement
Allowance

Eligibility

Amount

Accidental Disability Retirement
Allowance

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

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.

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\%).

Eligibility

Amount
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.

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

Amount

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

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

Refund of Contribution

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.

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

Post-Retirement Adjustments

Member Contributions

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.

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, 2012

TABLE 1
THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE

## AS OF JUNE 30, 2012

| 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 | 3 | 54,984 | 0 |  | 0 |  | 0 |  | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 54,984 |
| 20 to 24 | 203 | 5,354,113 | 3 | 114,138 | 0 |  | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 206 | 5,468,251 |
| 25 to 29 | 417 | 13,733,404 | 105 | 4,504,690 | 2 | 72,898 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 524 | 18,310,992 |
| 30 to 34 | 337 | 11,592,730 | 285 | 13,347,154 | 56 | 2,907,796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 678 | 27,847,680 |
| 35 to 39 | 246 | 8,884,475 | 298 | 14,855,883 |  | 11,895,930 | 48 | 2,484,929 | 5 | 206,027 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 816 | 38,327,244 |
| 40 to 44 | 243 | 8,803,780 | 269 | 13,220,598 | 260 | 14,287,984 | 168 | 9,662,576 | 119 | 7,314,198 | 3 | 218,730 | 0 | 0 | 0 | 0 | 0 | 0 | 1,062 | 53,507,866 |
| 45 to 49 | 213 | 7,546,252 | 251 | 12,338,153 | 233 | 12,207,919 | 151 | 8,477,238 | 182 | 11,767,877 | 138 | 8,380,022 | 11 | 668,972 | 0 | 0 | 0 | 0 | 1,179 | 61,386,434 |
| 50 to 54 | 208 | 7,625,780 | 246 | 11,934,010 | 218 | 10,928,177 | 112 | 6,245,133 | 178 | 10,272,752 | 135 | 7,803,802 | 109 | 6,071,492 | 14 | 767,909 | 0 | 0 | 1,220 | 61,649,056 |
| 55 to 59 | 168 | 6,974,696 | 190 | 9,472,994 | 219 | 11,158,986 | 133 | 7,128,484 | 159 | 8,928,432 | 157 | 9,204,427 | 130 | 8,359,902 | 54 | 3,463,270 | 4 | 271,861 | 1,214 | 64,963,051 |
| 60 to 64 | 79 | 3,303,705 | 113 | 5,296,357 | 136 | 6,915,035 | 81 | 4,467,448 | 88 | 5,260,055 | 94 | 5,843,333 | 79 | 4,968,077 | 63 | 4,227,457 | 23 | 1,483,923 | 756 | 41,765,391 |
| 65 to 69 | 21 | 1,024,836 | 34 | 1,634,636 | 31 | 1,593,899 | 12 | 744,673 | 17 | 924,747 | 20 | 1,253,636 | 24 | 1,566,405 | 15 | 952,564 | 11 | 819,412 | 185 | 10,514,808 |
| 70 \& up | 5 | 138,734 | 4 | 187,046 | 8 | 301,469 | 4 | 201,841 | 1 | 48,714 | 2 | 125,608 | 2 | 129,353 | 4 | 241,135 | 5 | 356,234 | 35 | 1,730,134 |
| TOTAL | 2,143 | 75,037,489 | 1,798 | 86,905,661 | 1,382 | 72,270,094 | 709 | 39,412,323 | 749 | 44,722,801 | 549 | 32,829,558 | 355 | 21,764,200 | 150 | 9,652,335 | 43 | 2,931,429 | 7,878 | 385,525,891 |

TABLE 2
THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE

$$
\text { AS OF JUNE 30, } 2012
$$

## GENERAL EMPLOYEES - GROUP A

| 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 |  | Salary | No. | Salary | No. | Salary | No. | Salary | No. | Salary |  | Salary | No. | Salary |
|  | 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 |
| 30 to 34 | 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 | 1 | 57,117 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 57,117 |
| 50 to 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 52,083 | 1 | 64,958 | 0 | 0 | 2 | 117,041 |
| 55 to 59 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 94,302 | 0 | 0 | 1 | 94,302 |
| 60 to 64 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 49,992 | 1 | 60,195 | 0 | 0 | 0 | 0 | 2 | 110,188 |
| 65 to 69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 77,792 | 1 | 52,940 | 1 | 74,651 | 0 | 0 | 3 | 205,384 |
| 70 \& up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 114,080 | 2 | 114,080 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 184,901 | 3 | 165,219 | 3 | 233,911 | 2 | 114,080 | 11 | 698,111 |

TABLE 3
THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE

$$
\text { AS OF JUNE 30, } 2012
$$

## LAW ENFORCEMENT PERSONNEL - GROUP C

| AGE <br> Under 20 | 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 |
|  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 |
| 20 to 24 | 24 | 789,995 | 0 |  | 0 |  | 0 |  | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 789,995 |
| 25 to 29 | 46 | 1,995,799 | 9 | 507,607 | 0 | 0 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 2,503,407 |
| 30 to 34 | 22 | 1,023,733 | 37 | 2,265,893 | 4 | 325,839 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 3,615,465 |
| 35 to 39 | 8 | 387,567 | 33 | 2,094,214 | 34 | 2,599,960 | 3 | 216,318 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 78 | 5,298,058 |
| 40 to 44 | 7 | 269,308 | 21 | 1,283,090 | 44 | 3,268,764 | 20 | 1,652,616 | 20 | 2,007,468 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 | 8,481,247 |
| 45 to 49 | 3 | 93,935 | 6 | 333,992 | 15 | 1,082,077 | 7 | 571,242 | 36 | 3,510,758 | 19 | 1,740,702 | 0 | 0 | 0 | 0 | 0 | 0 | 86 | 7,332,707 |
| 50 to 54 | 1 | 44,932 | 2 | 111,238 | 7 | 462,877 | 1 | 80,655 | 3 | 223,139 | 6 | 566,827 | 1 | 74,473 | 0 | 0 | 0 | 0 | 21 | 1,564,141 |
| 55 to 59 | 0 | 0 | 0 | 0 | 2 | 83,796 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 83,796 |
| 60 to 64 | 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 |
| 70 \& up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 111 | 4,605,271 | 108 | 6,596,034 | 106 | 7,823,313 | 31 | 2,520,832 | 59 | 5,741,365 | 25 | 2,307,529 | 1 | 74,473 | 0 | 0 | 0 | 0 | 441 | 29,668,816 |

TABLE 4
THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE

AS OF JUNE 30, 2012

JUDGES - GROUP D

|  | 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 |  |
| AGE | No. | Salary | No. | Salary |  | Salary |  | Salary |  | Salary |  | Salary |  | Salary |  | Salary |  | Salary | No. | Salary |
| Under 20 | 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 |
| 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 | 1 | 22,210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 22,210 |
| 45 to 49 | 3 | 206,014 | 1 | 117,195 | 1 | 117,667 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 440,876 |
| 50 to 54 | 1 | 32,069 | 2 | 150,429 | 0 | 0 | 1 | 117,195 | 1 | 117,195 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 416,888 |
| 55 to 59 | 1 | 26,936 | 7 | 791,631 | 2 | 187,607 | 2 | 204,352 | 0 | 0 | 1 | 117,195 | 2 | 234,390 | 0 | 0 | 0 | 0 | 15 | 1,562,111 |
| 60 to 64 | 1 | 117,195 | 3 | 176,376 | 2 | 159,230 | 2 | 200,730 | 3 | 304,934 | 4 | 404,036 | 1 | 123,266 | 0 | 0 | 0 | 0 | 16 | 1,485,768 |
| 65 to 69 | 2 | 176,538 | 3 | 230,883 | 0 | 0 | 1 | 117,195 | 0 | 0 | 1 | 123,266 | 2 | 240,461 | 0 | 0 | 0 | 0 | 9 | 888,342 |
| 70 \& up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 9 | 580,961 | 16 | 1,466,515 | 5 | 464,505 | 6 | 639,472 | 4 | 422,129 | 6 | 644,497 | 5 | 598,116 | 0 | 0 | 0 | 0 | 51 | 4,816,196 |

TABLE 5
THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY AGE AND SERVICE

$$
\text { AS OF JUNE 30, } 2012
$$

GENERAL EMPLOYEES - GROUP F

| AGE <br> Under 20 | 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 |
|  | 3 | 54,984 | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 3 | 54,984 |
| 20 to 24 | 179 | 4,564,118 | 3 | 114,138 | 0 |  | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 182 | 4,678,256 |
| 25 to 29 | 371 | 11,737,605 | 96 | 3,997,082 | 2 | 72,898 | 0 | 0 | 0 |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 469 | 15,807,585 |
| 30 to 34 | 315 | 10,568,997 | 248 | 11,081,262 | 52 | 2,581,958 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 615 | 24,232,216 |
| 35 to 39 | 238 | 8,496,908 | 265 | 12,761,669 | 185 | 9,295,970 | 45 | 2,268,611 | 5 | 206,027 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 738 | 33,029,185 |
| 40 to 44 | 235 | 8,512,262 | 248 | 11,937,508 | 216 | 11,019,220 | 148 | 8,009,960 | 99 | 5,306,730 | 3 | 218,730 | 0 | 0 | 0 | 0 | 0 | 0 | 949 | 45,004,409 |
| 45 to 49 | 207 | 7,246,303 | 244 | 11,886,967 | 217 | 11,008,174 | 144 | 7,905,996 | 146 | 8,257,119 | 118 | 582,203 | 11 | 668,972 | 0 | 0 | 0 | 0 | 1,087 | 53,555,734 |
| 50 to 54 | 206 | 7,548,779 | 242 | 11,672,342 | 211 | 10,465,301 | 110 | 6,047,283 | 174 | 9,932,418 | 129 | 7,236,975 | 107 | 5,944,936 | 13 | 702,951 | 0 | 0 | 1,192 | 59,550,986 |
| 55 to 59 | 167 | 6,947,760 | 183 | 8,681,362 | 215 | 10,887,582 | 131 | 6,924,132 | 159 | 8,928,432 | 156 | 9,087,232 | 128 | 8,125,512 | 53 | 3,368,969 | 4 | 271,861 | 1,196 | 63,222,842 |
| 60 to 64 | 78 | 3,186,510 | 110 | 5,119,981 | 134 | 6,755,805 | 79 | 4,266,718 | 85 | 4,955,121 | 89 | 5,389,304 | 77 | 4,784,615 | 63 | 4,227,457 | 23 | 1,483,923 | 738 | 40,169,435 |
| 65 to 69 | 19 | 848,298 | 31 | 1,403,753 | 31 | 1,593,899 | 11 | 627,478 | 17 | 924,747 | 18 | 1,052,578 | 21 | 1,273,004 | 14 | 877,913 | 11 | 819,412 | 173 | 9,421,082 |
| 70 \& up | 5 | 138,734 | 4 | 187,046 | 8 | 301,469 | 4 | 201,841 | 1 | 48,714 | 2 | 125,608 | 2 | 129,353 | 4 | 241,135 | 3 | 242,154 | 33 | 1,616,054 |
| TOTAL | 2,023 | 69,851,257 | 1,674 | 78,843,112 | 1,271 | 63,982,276 | 672 | 36,252,019 | 686 | 38,559,307 | 515 | 29,692,631 | 346 | 20,926,392 | 147 | 9,418,425 | 41 | 2,817,349 | 7,375 | 350,342,768 |

TABLE 6

## SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA BY ATTAINED AGE AS OF JUNE 30, 2012

ALL EMPLOYEES

| Age | Service Pensioners |  |  | Disability Pensioners |  |  | Beneficiaries |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Allowance |  | Number |  | nnual <br> wance | Number |  | nual ance |
| 30 and Under | 1 | \$ | 7,592 | 7 | \$ | 64,237 | 37 | \$ | 187,250 |
| 32 | - |  | - | 1 |  | 8,717 | - |  | - |
| 33 | - |  | - | - |  | - | 1 |  | 6,979 |
| 35 | - |  | - | 1 |  | 10,379 | 1 |  | 5,399 |
| 38 | - |  | - | 1 |  | 7,898 | - |  | - |
| 39 | - |  | - | 2 |  | 34,502 | 1 |  | 7,744 |
| 40 | - |  | - | 1 |  | 9,561 | 2 |  | 22,153 |
| 41 | 1 |  | 2,509 | 2 |  | 26,025 | 1 |  | 9,846 |
| 42 | - |  | - | 1 |  | 14,047 | 1 |  | 11,480 |
| 43 | - |  | - | 1 |  | 10,719 | - |  | - |
| 44 | 2 |  | 27,856 | 3 |  | 62,577 | - |  | - |
| 45 | 1 |  | 28,029 | 2 |  | 52,840 | - |  | - |
| 46 | - |  | - | 3 |  | 59,941 | 1 |  | 7,397 |
| 47 | - |  | - | 6 |  | 110,732 | 2 |  | 31,293 |
| 48 | 2 |  | 53,704 | 3 |  | 32,164 | 3 |  | 44,941 |
| 49 | 7 |  | 165,486 | 7 |  | 94,199 | - |  | - |
| 50 | 13 |  | 427,463 | 9 |  | 125,933 | 2 |  | 17,478 |
| 51 | 17 |  | 573,924 | 9 |  | 127,135 | 2 |  | 21,236 |
| 52 | 30 |  | 1,227,466 | 4 |  | 53,278 | 2 |  | 8,047 |
| 53 | 28 |  | 938,496 | 6 |  | 61,619 | 1 |  | 8,815 |
| 54 | 33 |  | 1,366,731 | 7 |  | 84,904 | 7 |  | 86,100 |
| 55 | 52 |  | 1,872,758 | 9 |  | 145,041 | 4 |  | 57,733 |
| 56 | 64 |  | 1,542,088 | 7 |  | 108,928 | 6 |  | 70,085 |
| 57 | 75 |  | 2,347,900 | 13 |  | 143,451 | 8 |  | 80,107 |
| 58 | 97 |  | 2,055,893 | 16 |  | 169,379 | 12 |  | 190,793 |
| 59 | 89 |  | 2,400,800 | 20 |  | 265,776 | 12 |  | 160,945 |
| 60 | 126 |  | 2,782,809 | 22 |  | 207,825 | 5 |  | 64,444 |
| 61 | 142 |  | 3,301,592 | 16 |  | 205,871 | 10 |  | 109,855 |
| 62 | 227 |  | 4,619,708 | 21 |  | 257,390 | 6 |  | 59,641 |
| 63 | 228 |  | 3,926,314 | 23 |  | 288,050 | 9 |  | 64,110 |
| 64 | 278 |  | 4,936,100 | 13 |  | 149,564 | 9 |  | 127,167 |
| 65 | 299 |  | 5,753,124 | 14 |  | 223,504 | 9 |  | 140,361 |
| 66 | 215 |  | 4,016,763 | 13 |  | 150,908 | 9 |  | 103,382 |
| 67 | 212 |  | 3,670,764 | 7 |  | 80,957 | 13 |  | 114,518 |
| 68 | 196 |  | 3,188,244 | 13 |  | 163,463 | 18 |  | 248,277 |
| 69 | 217 |  | 3,897,925 | 13 |  | 124,469 | 18 |  | 222,896 |
| 70 | 188 |  | 3,417,185 | 10 |  | 92,480 | 15 |  | 167,016 |
| 71 | 160 |  | 2,418,390 | 8 |  | 84,828 | 20 |  | 270,115 |
| 72 | 147 |  | 2,238,254 | 9 |  | 136,292 | 16 |  | 126,993 |
| 73 | 135 |  | 1,949,527 | 4 |  | 35,663 | 19 |  | 178,109 |
| 74 | 112 |  | 1,650,794 | 10 |  | 119,493 | 10 |  | 125,272 |
| 75 | 116 |  | 1,770,256 | 7 |  | 55,469 | 11 |  | 124,056 |
| 76 | 135 |  | 2,040,967 | 4 |  | 30,235 | 18 |  | 215,236 |

TABLE 6, continued

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA
BY ATTAINED AGE AS OF JUNE 30, 2012

ALL EMPLOYEES

| Age | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Allowance | Number | Annual Allowance | Number | Annual Allowance |
| 77 | 109 | 1,786,022 | 4 | 34,014 | 21 | 188,668 |
| 78 | 101 | 1,493,128 | 2 | 39,928 | 10 | 71,921 |
| 79 | 112 | 1,463,330 | 4 | 23,896 | 14 | 159,924 |
| 80 | 80 | 911,108 | 3 | 34,181 | 14 | 147,664 |
| 81 | 94 | 1,149,248 | 2 | 10,296 | 19 | 249,796 |
| 82 | 83 | 1,035,020 | 3 | 26,245 | 18 | 197,257 |
| 83 | 64 | 815,554 | 2 | 21,174 | 16 | 120,982 |
| 84 | 52 | 666,974 | 4 | 44,750 | 21 | 196,545 |
| 85 | 54 | 642,237 | 2 | 23,213 | 5 | 31,741 |
| 86 | 55 | 644,618 | 1 | 8,017 | 13 | 134,832 |
| 87 | 40 | 419,160 | - | - | 12 | 122,126 |
| 88 | 36 | 325,592 | 2 | 28,233 | 10 | 52,998 |
| 89 | 36 | 343,078 | 2 | 25,298 | 7 | 87,727 |
| 90 | 21 | 195,255 | 1 | 8,883 | 3 | 43,416 |
| 91 | 24 | 218,948 | 1 | 14,218 | 12 | 117,958 |
| 92 | 25 | 191,791 | - | - | 6 | 49,523 |
| 93 | 15 | 156,460 | 1 | 9,815 | 6 | 60,408 |
| 94 | 7 | 83,828 | 1 | 9,626 | 3 | 29,375 |
| 95 | 7 | 57,253 | - | - | 2 | 46,953 |
| 96 | 7 | 51,895 | - | - | 2 | 22,984 |
| 97 | 2 | 48,319 | - | - | 1 | 4,355 |
| 98 | 2 | 8,949 | 1 | 15,943 | 2 | 18,091 |
| 100 | 3 | 19,325 | - | - | - |  |
| 101 | 0 | - | - | - | 1 | 21,928 |
| 102 | 1 | 18,591 | - | - | - | - |
| 105 | 1 | 4,934 | - | - | - | - |
| 109 | 0 | - | - | - | 1 | 2,219 |
| Total | 4,676 | 83,368,028 | 384 | 4,668,173 | 540 | 5,676,660 |

TABLE 7

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA
BY ATTAINED AGE AS OF JUNE 30, 2012

GENERAL EMPLOYEES - GROUP A

|  | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  | Annual | Annual |  |  |
| Age | Number | Annual Allowance | Number | Allowance | Number | Allowance |  |
| 30 and Under | - | $\$$ | - | - | $\$$ | - | - |

TABLE 7, continued

## SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA BY ATTAINED AGE AS OF JUNE 30, 2012

GENERAL EMPLOYEES - GROUP A

|  | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Number | Annual Allowance | Number | Annual Allowance | Number | Annual Allowance |
| 100 | 3 | 19,325 | - | - | - | - |
| 101 | - | - | - | - | 1 | 21,928 |
| 102 | 1 | 18,591 | - | - | - | - |
| 105 | 1 | 4,934 | - | - | - | - |
| 109 | - | - | - | - | 1 | 2,219 |
| Total | 200 | 3,620,133 | 28 | 353,463 | 69 | 688,110 |

TABLE 8

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA BY ATTAINED AGE AS OF JUNE 30, 2012

STATE POLICE AND MOTOR VEHICLE INSPECTORS - GROUP B

| Age | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual <br> Allowance | Number | Annual <br> Allowance | Number |  | nnual <br> wance |
| 41 | - | \$ | - | \$ | 1 | \$ | 18,797 |
| 58 | 1 | 9,121 | - | - | - |  | - |
| 61 | 1 | 4,642 | - | - | - |  | - |
| 63 | - | - | 1 | 19,544 | - |  | - |
| 65 | 1 | 35,738 | - | - | - |  | - |
| 66 | 2 | 61,819 | - | - | - |  | - |
| 67 | 1 | 24,572 | - | - | - |  | - |
| 68 | - | - | 1 | 20,400 | - |  | - |
| 69 | 2 | 32,559 | - | - | - |  | - |
| 70 | 2 | 60,642 | - | - | - |  | - |
| Total | 10 | 229,093 | 2 | 39,944 | 1 |  | 18,797 |

TABLE 9

SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA
BY ATTAINED AGE AS OF JUNE 30, 2012

LAW ENFORCEMENT PERSONNEL - GROUP C

| Age | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Allowance | Number | Annual Allowance | Number | Annual Allowance |
| 30 and Under | 1 | \$ 7,592 | 7 | \$ 64,237 | 6 | \$ 47,446 |
| 39 | - | - | 1 | 29,181 | - | - |
| 40 | - | - | - | - | 1 | 11,482 |
| 41 | 1 | 2,509 | - | - | - | - |
| 44 | - | - | 1 | 37,174 | - | - |
| 45 | - | - | 1 | 42,371 | - | - |
| 46 | - | - | 1 | 40,367 | - | - |
| 47 | - | - | 1 | 46,212 | - | - |
| 48 | - | - | 1 | 15,135 | 1 | 22,171 |
| 49 | - | - | 1 | 24,561 | - | - |
| 50 | 5 | 235,381 | - | - | - | - |
| 51 | 5 | 277,534 | 1 | 52,170 | - | - |
| 52 | 16 | 895,066 | - | - | - | - |
| 53 | 8 | 402,157 | - | - | - | - |
| 54 | 14 | 833,944 | 1 | 34,729 | 1 | 19,252 |
| 55 | 16 | 962,505 | 1 | 42,913 | 1 | 26,480 |
| 56 | 14 | 622,996 | 1 | 36,161 | 1 | 33,778 |
| 57 | 17 | 981,307 | - | - | 1 | 21,375 |
| 58 | 7 | 374,787 | - | - | 1 | 29,327 |
| 59 | 13 | 753,582 | 2 | 69,523 | 2 | 40,468 |
| 60 | 8 | 437,110 | - | - | 1 | 11,088 |
| 61 | 5 | 267,296 | - | - | 1 | 28,615 |
| 62 | 14 | 562,084 | 1 | 33,141 | - | - |
| 63 | 4 | 134,307 | 1 | 29,128 | - | - |
| 64 | 9 | 321,694 | 1 | 41,945 | - | - |
| 65 | 13 | 555,225 | 2 | 76,230 | 2 | 41,659 |
| 66 | 11 | 422,897 | 1 | 40,368 | - | - |
| 67 | 1 | 25,853 | 1 | 32,477 | - | - |
| 68 | 5 | 179,197 | 1 | 31,140 | 3 | 80,485 |
| 69 | 10 | 439,849 | - | - | 1 | 38,050 |
| 70 | 8 | 333,695 | - | - | 1 | 26,753 |
| 71 | 5 | 178,433 | - | - | 4 | 120,684 |
| 72 | 4 | 165,840 | 2 | 59,772 | 1 | 19,491 |
| 73 | 3 | 124,936 | 1 | 19,167 | 1 | 32,728 |
| 74 | 4 | 173,642 | 1 | 26,961 | 2 | 34,366 |
| 75 | 3 | 140,699 | - | - | 1 | 17,697 |
| 76 | 2 | 70,143 | - | - | 1 | 28,236 |
| 77 | 4 | 184,639 | - | - | 2 | 47,919 |
| 78 | 3 | 108,782 | 1 | 31,745 | - | - |
| 79 | 4 | 149,136 | - | - | 4 | 101,604 |
| 80 | 3 | 101,404 | - | - | 1 | 27,872 |
| 81 | 5 | 160,573 | - | - | 6 | 112,631 |
| 82 | 3 | 131,969 | - | - | 3 | 63,591 |
| 83 | 5 | 191,233 | - | - | 2 | 47,741 |
| 84 | - | - | - | - | 3 | 52,762 |
| 85 | 2 | 62,146 | - | - | - | - |
| 86 | 2 | 67,191 | - | - | 2 | 42,530 |
| 87 | - | - | - | - | 3 | 59,683 |
| 89 | - | - | - | - | 1 | 15,913 |
| 91 | 2 | 46,568 | - | - | 1 | 21,682 |
| 92 |  |  |  |  |  |  |
| 93 | - | - | - | - | 1 | 8,517 |
| 96 | - | - | - | - | 1 | 16,924 |
| Total | 259 | 12,085,901 | 33 | 956,808 | 65 | 1,369,784 |

TABLE 10

## SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA BY ATTAINED AGE AS OF JUNE 30, 2012

JUDGES - GROUP D

|  | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Number | Annual Allowance | Number | Annual Allowance | Number | Annual Allowance |
| 48 | - | - | - | - | 1 | 10,569 |
| 61 | 1 | 39,132 | - | - | - | - |
| 62 | 2 | 168,505 | - | - | - | - |
| 63 | 1 | 43,762 | - | - | - | - |
| 64 | 1 | 95,247 | - | - | - | - |
| 65 | 2 | 176,053 | - | - | - | - |
| 66 | 2 | 42,189 | - | - | 1 | 25,166 |
| 67 | 1 | 15,826 | - | - | - | - |
| 68 | 1 | 32,543 | - | - | - | - |
| 69 | 4 | 267,315 | - | - | - | - |
| 70 | 3 | 240,104 | - | - | - | - |
| 72 | 1 | 71,349 | - | - | - | - |
| 73 | 1 | 33,470 | - | - | - | - |
| 74 | 1 | 76,381 | - | - | - | - |
| 75 | 3 | 163,031 | - | - | - | - |
| 76 | 2 | 140,823 | - | - | 1 | 31,401 |
| 77 | 1 | 94,405 | - | - | - | - |
| 79 | 2 | 159,215 | - | - | - | - |
| 80 | 2 | 61,719 | - | - | - | - |
| 82 | 1 | 37,841 | - | - | 1 | 27,268 |
| 84 | 3 | 148,942 | - | - | - | - |
| 85 | 2 | 127,595 | - | - | - | - |
| 86 | 1 | 37,625 | - | - | - | - |
| 87 | 2 | 64,673 | - | - | - | - |
| 88 | 1 | 9,489 | - | - | - | - |
| 89 | 1 | 54,608 | - | - | 1 | 45,068 |
| 90 | 2 | 84,089 | - | - | 2 | 36,290 |
| 94 | 1 | 20,966 | - | - | - | - |
| 95 | - | - | - | - | 1 | 37,284 |
| Total | 45 | 2,506,897 | - | - | 8 | 213,046 |

## TABLE 11

## SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA BY ATTAINED AGE AS OF JUNE 30, 2012

GENERAL EMPLOYEES - GROUPS E/F

| Age | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Allowance | Number | Annual Allowance | Number | Annual Allowance |
| 30 and Under | - | \$ | - | \$ | 31 | \$ 139,804 |
| 32 | - | - | 1 | 8,717 | - | - |
| 33 | - | - | - | - | 1 | 6,979 |
| 35 | - | - | 1 | 10,379 | 1 | 5,399 |
| 38 | - | - | 1 | 7,898 | - | - |
| 39 | - | - | 1 | 5,321 | 1 | 7,744 |
| 40 | - | - | 1 | 9,561 | 1 | 10,671 |
| 41 | - | - | 2 | 26,025 | 1 | 9,846 |
| 42 | - | - | 1 | 14,047 | 1 | 11,480 |
| 43 | - | - | 1 | 10,719 | - | - |
| 44 | 2 | 27,856 | 2 | 25,403 | - | - |
| 45 | 1 | 28,029 | 1 | 10,469 | - | - |
| 46 | - | - | 2 | 19,574 | 1 | 7,397 |
| 47 | - | - | 5 | 64,520 | 1 | 12,496 |
| 48 | 2 | 53,704 | 2 | 17,029 | 1 | 12,201 |
| 49 | 7 | 165,486 | 6 | 69,638 | - | - |
| 50 | 8 | 192,082 | 9 | 125,933 | 2 | 17,478 |
| 51 | 12 | 296,390 | 8 | 74,965 | 2 | 21,236 |
| 52 | 14 | 332,400 | 4 | 53,278 | 2 | 8,047 |
| 53 | 20 | 536,339 | 6 | 61,619 | 1 | 8,815 |
| 54 | 19 | 532,787 | 6 | 50,175 | 5 | 60,334 |
| 55 | 36 | 910,253 | 8 | 102,128 | 3 | 31,253 |
| 56 | 50 | 919,092 | 6 | 72,767 | 5 | 36,307 |
| 57 | 56 | 1,288,184 | 12 | 129,871 | 7 | 58,732 |
| 58 | 88 | 1,670,545 | 16 | 169,379 | 11 | 161,466 |
| 59 | 76 | 1,647,218 | 17 | 180,523 | 9 | 111,904 |
| 60 | 115 | 2,260,901 | 21 | 200,908 | 4 | 53,356 |
| 61 | 132 | 2,919,361 | 16 | 205,871 | 9 | 81,240 |
| 62 | 210 | 3,854,031 | 20 | 224,249 | 6 | 59,641 |
| 63 | 219 | 3,652,024 | 20 | 219,686 | 9 | 64,110 |
| 64 | 263 | 4,400,766 | 11 | 100,327 | 8 | 105,413 |
| 65 | 281 | 4,966,769 | 12 | 147,274 | 6 | 63,178 |
| 66 | 194 | 3,326,886 | 11 | 93,546 | 8 | 78,216 |
| 67 | 209 | 3,604,513 | 6 | 48,480 | 11 | 105,489 |
| 68 | 187 | 2,892,094 | 11 | 111,923 | 14 | 153,364 |
| 69 | 200 | 3,117,586 | 13 | 124,469 | 16 | 171,397 |
| 70 | 169 | 2,603,611 | 10 | 92,480 | 12 | 117,321 |
| 71 | 149 | 2,114,773 | 8 | 84,828 | 13 | 113,606 |
| 72 | 139 | 1,946,979 | 7 | 76,520 | 15 | 107,502 |
| 73 | 123 | 1,564,477 | 3 | 16,496 | 18 | 145,381 |
| 74 | 103 | 1,316,491 | 8 | 81,819 | 8 | 90,906 |
| 75 | 103 | 1,333,528 | 5 | 35,934 | 9 | 89,368 |
| 76 | 127 | 1,731,809 | 3 | 20,698 | 16 | 155,599 |

TABLE 11, continued

## SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA BY ATTAINED AGE AS OF JUNE 30, 2012

GENERAL EMPLOYEES - GROUPS E/F

|  | Service Pensioners |  | Disability Pensioners |  | Beneficiaries |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Number | Annual <br> Allowance | Number | Annual <br> Allowance | Number | Annual <br> Allowance |
| 77 | 92 | 1,180,776 | 4 | 34,014 | 19 | 140,749 |
| 78 | 93 | 1,275,320 | 1 | 8,183 | 10 | 71,921 |
| 79 | 103 | 1,077,659 | 4 | 23,896 | 10 | 58,320 |
| 80 | 71 | 671,008 | 2 | 16,283 | 11 | 100,336 |
| 81 | 83 | 854,096 | 1 | 4,569 | 9 | 86,850 |
| 82 | 71 | 710,180 | 2 | 9,508 | 10 | 73,269 |
| 83 | 53 | 518,220 | 1 | 4,721 | 11 | 42,407 |
| 84 | 45 | 435,116 | 2 | 11,338 | 15 | 114,984 |
| 85 | 48 | 436,343 | - | - | 3 | 18,868 |
| 86 | 44 | 425,423 | - | - | 4 | 36,001 |
| 87 | 32 | 289,141 | - | - | 6 | 34,967 |
| 88 | 26 | 209,091 | - | - | 6 | 31,942 |
| 89 | 28 | 238,793 | - | - | 5 | 26,746 |
| 90 | 17 | 92,101 | - | - | - | - |
| 91 | 18 | 135,346 | - | - | 3 | 11,606 |
| 92 | 16 | 119,265 | - | - | 4 | 23,299 |
| 93 | 6 | 43,066 | - | - | 1 | 8,250 |
| 94 | - | - | - | - | 1 | 11,732 |
| 95 | 2 | 8,096 | - | - | - | - |
| Total | 4,162 | 64,926,004 | 321 | 3,317,958 | 397 | 3,386,923 |

TABLE 12

## SUMMARY OF RETIRED MEMBER AND BENEFICIARY DATA BY YEAR OF RETIREMENT



## SCHEDULE E

## AMORTIZATION SCHEDULE FOR THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

## AMORTIZATION SCHEDULE <br> FOR THE UNFUNDED ACTUARIAL ACCRUED LIABILITY

| Date | Balance | Amortization <br> Payment <br> (Year Following) |
| :---: | :---: | :---: |
| $6 / 30 / 2012$ | $401,824,745$ | $23,108,413$ |
| $6 / 30 / 2013$ | $403,830,379$ | $24,263,834$ |
| $6 / 30 / 2014$ | $406,825,095$ | $25,477,026$ |
| $6 / 30 / 2015$ | $409,825,826$ | $26,750,877$ |
| $6 / 30 / 2016$ | $413,811,886$ | $28,088,421$ |
| $6 / 30 / 2017$ | $417,793,886$ | $29,492,842$ |
| $6 / 30 / 2018$ | $422,769,039$ | $30,967,484$ |
| $6 / 30 / 2019$ | $426,680,001$ | $32,515,858$ |
| $6 / 30 / 2020$ | $429,365,243$ | $34,141,651$ |
| $6 / 30 / 2021$ | $431,719,638$ | $35,848,734$ |
| $6 / 30 / 2022$ | $432,567,073$ | $37,641,171$ |
| $6 / 30 / 2023$ | $431,694,103$ | $39,523,230$ |
| $6 / 30 / 2024$ | $428,864,872$ | $41,499,392$ |
| $6 / 30 / 2025$ | $423,818,994$ | $43,574,362$ |
| $6 / 30 / 2026$ | $416,269,247$ | $45,753,080$ |
| $6 / 30 / 2027$ | $405,899,053$ | $48,040,734$ |
| $6 / 30 / 2028$ | $393,374,486$ | $50,442,771$ |
| $6 / 30 / 2029$ | $378,335,419$ | $52,964,910$ |
| $6 / 30 / 2030$ | $359,420,696$ | $55,613,156$ |
| $6 / 30 / 2031$ | $336,155,403$ | $58,393,814$ |
| $6 / 30 / 2032$ | $308,015,575$ | $61,313,505$ |
| $6 / 30 / 2033$ | $274,423,472$ | $64,379,180$ |
| $6 / 30 / 2034$ | $234,742,405$ | $67,598,139$ |
| $6 / 30 / 2035$ | $188,271,082$ | $70,978,046$ |
| $6 / 30 / 2036$ | $134,237,433$ | $74,526,948$ |
| $6 / 30 / 2037$ | $71,791,854$ | $78,253,295$ |
| $6 / 30 / 2038$ |  | 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, 2012 actuarial valuation, the recommended contribution for the fiscal year ending June 30, 2013, is $\$ 38,375,238$, which is based on the following:

| Payroll | $\$ 385,525,892$ |
| :--- | :---: |
| Normal rate | $3.96 \%$ |
| Accrued liability contribution | $\$ 23,108,413$ |

The projections for the following two years are as follows:

| Fiscal <br> Year | Projected Payroll |  | Normal Rate* | CONTRIBUTIONS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Normal | Accrued Liability | Total |
| $\begin{aligned} & 2014 \\ & 2015 \end{aligned}$ | \$ | $\begin{aligned} & 402,874,556 \\ & 421,003,911 \end{aligned}$ |  | $\begin{aligned} & 3.96 \% \\ & 3.96 \% \end{aligned}$ | \$ | $\begin{aligned} & 15,953,832 \\ & 16,671,755 \end{aligned}$ | $\begin{aligned} & \$ 24,263,834 \\ & \$ 25,477,026 \end{aligned}$ | $\begin{array}{r} \$ 40,217,666 \\ 42,148,781 \end{array}$ |

*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.


[^0]:    ${ }^{1}$ For 2012, this is further adjusted by $\$ 5,000,000$ to reflect the provisions of Act 63 , Section 473 of the 2011 Legislative Session and by $\$ 5,427,272$ to correct for prior year contribution "true-ups" that were erroneously categorized as expenses.

