# THE STATE POLICE RETIREMENT SYSTEM OF NEW JERSEY ANNUAL REPORT <br> OF THE ACTUARY <br> PREPARED AS OF JULY 1, 2008 

## buckconsultants <br> an ACS company acs.

March 12, 2009
Board of Trustees
The State Police Retirement System
of New Jersey
Trenton, New Jersey 08625
Members of the Board:
The law governing the operation of the State Police Retirement System of New Jersey provides for annual actuarial valuations of the System. The results of the July 1, 2008 valuation are submitted in this report, which also includes a comparison with the preceding year's valuation.

The valuation shows the financial condition of the Plan as of July 1, 2008 and gives the basis for determining the required annual contribution for the plan year beginning July 1, 2008.

The valuation was prepared using the same actuarial assumptions that were used for the July 1, 2007 actuarial valuation, including an $8.25 \%$ interest rate.

The valuation reflects the potential effect of the Appropriation Act for fiscal year 2009. (The fiscal year 2009 required contribution of $\$ 75,889,699$ has been reduced to $\$ 8,743,000$ and is included as a receivable contribution for this valuation.)

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

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

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

Board of Trustees
March 12, 2009
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The Table of Contents, which follows, highlights the Sections of the Report.
Respectfully submitted,


Janet H. Cranna, F.S.A., E.A., M.A.A.A.
Principal, Consulting Actuary
JHC:hn
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# REPORT ON THE ANNUAL <br> VALUATION OF <br> THE STATE POLICE RETIREMENT SYSTEM <br> OF NEW JERSEY <br> PREPARED AS OF JULY 1, 2008 

## SECTION I - SUMMARY OF KEY RESULTS

The State Police Retirement System of New Jersey became effective July 1, 1965 under terms of Chapter 89 of the Laws of 1965. This report, prepared as of July 1, 2008, presents the results of the annual actuarial valuation of the Fund.

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

| Valuation Date | July 1, 2008 |  | July 1, 2007 |  |
| :---: | :---: | :---: | :---: | :---: |
| Number of Members |  | 2,947 |  | 2,999 |
| Annual Compensation | \$ | 281,087,566 | \$ | 275,301,995 |
| Number of Pensioners and Beneficiaries |  | 2,520 |  | 2,426 |
| Total Annual Allowance | \$ | 124,219,225 | \$ | 114,548,588 |
| Assets |  |  |  |  |
| Market Value of Assets | \$ | 1,976,540,990* | \$ | 2,105,399,764 |
| Valuation Assets | \$ | 2,136,006,509* | \$ | 2,101,672,160 |
| Contribution Amounts |  |  |  |  |
| Normal Contribution Accrued Liability Contribution | \$ | $\begin{aligned} & 53,727,942 \\ & 28,757,070 \end{aligned}$ | \$ | $\begin{aligned} & 52,552,785 \\ & 23,336,914 \end{aligned}$ |
| Total Pension Contribution | \$ | 82,485,012** | \$ | 75,889,699 ${ }^{\text {\# }}$ |
| Non-Contributory Group Insurance Premium | \$ | 1,546,000 | \$ | 1,789,717 |

* Assets include a fiscal year 2009 receivable contribution of $\$ 8,743,000$ instead of the $\$ 75,889,699$ contribution recommended for the July 1, 2007 valuation (potential effect of the Appropriation Act for fiscal year 2009).
** The required contribution could be subject to reduction in accordance with the provisions of the Appropriation Act for fiscal year 2010.
\# The contribution requirement could be subject to reduction in accordance with the provisions of the Appropriation Act for fiscal year 2009.

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

The valuation also reflects the potential impact of the Appropriation Act for fiscal year 2009, which allows the State Treasurer to reduce the State normal and accrued liability contributions for fiscal year 2009 of $\$ 75,889,699$ to $\$ 8,743,000$. (This amount excludes the estimated premium paid to the Non-Contributory Insurance Fund of $\$ 1,789,717$ for the lump sum death benefit during active service.) Accordingly, a fiscal year 2009 State appropriation receivable of only $\$ 8,743,000$ was recognized for purposes of this valuation.

There were no other changes from the provisions and funding policy used in the previous valuation.

The actuarial assumptions and methods used for valuing the Fund are summarized in Appendix B. There were no changes in actuarial assumptions and methods since the previous valuation.

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

The valuation generates a balance sheet which summarizes in some detail the total present and prospective assets and liabilities of the Fund. A summary comparison of the balance sheets as of July 1, 2007 and July 1, 2008 is set forth in the following table. The allocation of assets among the various investment alternatives is shown in graphic form on page 5 .

## TABLE I

## COMPARATIVE BALANCE SHEET

|  |  | 2008 |  | 2007 |
| :---: | :---: | :---: | :---: | :---: |
| Actuarial Value of assets of Fund |  | 2,136,006,509 | \$ | 2,101,672,160 |
| Unfunded accrued liability/(surplus) |  | 473,158,360 |  | 383,977,070 |
| Total Assets | \$ | 2,609,164,869 | \$ | 2,485,649,230 |
| LIABILITIES |  |  |  |  |
| Present value of benefits to present beneficiaries payable from the Retirement Reserve Fund | \$ | 1,492,340,059 | \$ | 1,399,050,008 |
| Present value of benefits to present active members |  | 1,116,824,810 |  | 1,086,599,222 |
| Total Liabilities | \$ | 2,609,164,869 | \$ | 2,485,649,230 |

## THE STATE POLICE RETIREMENT SYSTEM OF NEW JERSEY

## ASSET ALLOCATION <br> MARKET VALUE



## SECTION II - EMPLOYEE DATA

The data employed for the valuations were furnished to the actuary by the Division of Pensions and Benefits. The following summarizes and compares the Fund membership as of July 1, 2007 and July 1, 2008 by various categories.

## ACTIVE MEMBERSHIP

| Group | 2008 |  | 2007 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual <br> Compensation | Number | Annual <br> Compensation |
|  | 2,835 | $\$$ | $270,854,061$ | 2,890 |
|  | 112 | $\$$ | $10,233,505$ | 109 |

## RETIRED MEMBERS AND BENEFICIARIES

| Group | 2008 |  | 2007 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Allowances | Number | Annual Allowances |
| Service Retirements | 1,928 | \$ 104,362,026 | 1,841 | \$ 95,663,739 |
| Ordinary Disability Retirements | 120 | \$ 3,508,525 | 126 | \$ 3,570,660 |
| Accidental Disability Retirements | 111 | \$ 5,388,069 | 107 | \$ 4,814,390 |
| Beneficiaries of Deceased Pensioners | 293 | \$ 8,585,041 | 280 | \$ 8,085,515 |
| Beneficiaries of Deceased Active Employees | 68 | \$ 2,375,564 | 72 | \$ 2,414,284 |

Appendix C provides a detailed distribution between groups.

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

## THE STATE POLICE RETIREMENT SYSTEM OF NEW JERSEY

## SUMMARY OF ACTIVE PARTICIPATION





## SECTION III - ASSETS, LIABILITIES AND CONTRIBUTIONS

## A. Market Value of Assets as of June 30, 2008

1. Assets

| a. | Cash | $\$$ | 221,398 |
| :--- | :--- | ---: | ---: |
| b. | Securities Lending Collateral |  | $316,979,452$ |
| c. | Investment Holdings | $1,931,558,968$ |  |
| d. | Interest Receivable on Investments | $14,441,743$ |  |
| e. | Employer Contribution Receivable - NCGI | 72,876 |  |
| f. | Members’ Contributions Receivable |  | $1,175,562$ |
| g. | Accounts Receivable | 55,436 |  |
| h. | Dividends Receivable | $4,571,710$ |  |
| i. | Loans Receivable |  | $26,146,120$ |
| j. | Interest Receivable - Member Loans |  | 41,352 |
| k. | Total | $\$$ | $2,295,264,617$ |

2. Liabilities

| a. | Pension Payroll Payable | $\$$ | $7,024,225$ |
| :--- | :--- | ---: | ---: |
| b. | Pension Adjustment Payroll Payable |  | $1,709,690$ |
| c. | Withholdings Payable | $1,659,215$ |  |
| d. | Securities Lending Collateral and Rebates Payable |  | $316,979,452$ |
| e. | Accounts Payable - Other | 4,662 |  |
| f. | Administrative Expense Payable | 16,507 |  |
| g. | Death Benefits Payable |  | 72,876 |
| h. | Total | $\$$ | $327,466,627$ |

3. Preliminary Market Value of Assets
as of June 30, 2008: 1(k) - 2(h)
\$ 1,967,797,990
4. State Appropriations Receivable
5. Market Value of Assets as of June 30, 2008: 3. + 4.
$8,743,000^{*}$
$\$ 1,976,540,990^{* *}$

* The fiscal year 2009 required contribution of $\$ 75,889,699$ has been reduced to $\$ 8,743,000$ to reflect the potential impact of the Appropriation Act for fiscal year 2009.
** Excludes assets held in the Non-Contributory Group Insurance Fund.


## B. Reconciliation of Market Value of Assets: June 30, 2007 to June 30, 2008

1. Market Value of Assets as of June 30, 2007
2. Increases
a. Pension Contributions

Members' Contributions
Transfer from Other Systems
b. Employers' Contributions

State Appropriations
Non-Contributory Group Insurance
Transfer from Other Systems
Administrative Fee Loans
c. Income

Per Statement
d. Total
3. Decreases
a. Benefits Provided by Members

Withdrawals - Members' Contributions
Regular
\$ 195,776
Transfer
Adjustment - Member Account Loans - State
b. Benefits Provided by Employers and Members

Retirement Allowances
c. Benefits Provided by Employers

Benefit Expense - Pension Adjustment 19,922,390
Administrative Expense
Miscellaneous Expense
NCGI Premium Expense
d. Total
3. Preliminary Market Value of Assets
as of June 30, 2008: 1. + 2.(d) - 3.(d)
5. State Appropriations Receivable
6. Market Value of Assets as of June 30, 2008:
4. +5 .
\$ 2,069,260,914*
\$ 18,223,352
82,893
34,918,000
1,525,502
61,816
1,464
(34,109,753)
\$ 20,703,274

0
363
99,990,185
Benefit Expense - Pension Adjustment

* The June 30, 2007 Market Value of Assets amount has been revised from \$2,070,481,764 to \$2,069,260,914 to reflect the adjustment made to the June 30, 2007 Financial Report after the completion of the July 1, 2007 actuarial valuation.
** The fiscal year 2009 required contribution of $\$ 75,889,699$ has been reduced to $\$ 8,743,000$ to reflect the potential impact of the Appropriation Act for fiscal year 2009.
\# Excludes assets held in the Non-Contributory Group Insurance Fund.


## C. Development of Actuarial Value of Assets as of July 1, 2008

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

1. Actuarial Value of Assets as of July 1, 2007
\$ 2,066,754,160
2. Net Cash Flow (excluding investment income)
(67,353,171)
3. Expected Investment Income at $8.25 \%$
a. Interest on assets as of July 1, 2007
\$ 170,507,218
b. Interest on Net Cash Flow
c. Total
$\begin{array}{r}\text { \$ } \quad 167,7788,318) \\ \hline\end{array}$
4. Expected Actuarial Value of Assets as of July 1, 2008:
5.     + 2.             + 3.(c)
1. $20 \%$ of Difference from Preliminary Market Value of Assets
2. Receivable Employer Contributions
3. Actuarial Value of Assets as of July 1, $2008=4 .+5 .+6$.
\$ 2,167,129,889
$(39,866,380)$
8,743,000*
\$ 2,136,006,509**
[^0]
## D. Present Value of Projected Benefits as of July 1, 2008

1. Retirees and Beneficiaries
a. Service Retirements
\$ 1,252,504,636
b. Disability Retirements
c. Beneficiaries 121,585,348 97,403,432
d. Death Benefits
e. Total

20,846,643
\$ 1,492,340,059
2. Terminated Vested Members
\$ 0
3. Contributing Active Participants
a. Service Retirement
\$ 1,023,956,424
b. Ordinary Disability
26,189,572
c. Accidental Disability

24,486,118
d. Ordinary Death $10,806,163$
e. Accidental Death 10,193,946
f. Vested Termination 1,367,588
g. Withdrawal Benefits 233,774
h. Lump Sum Death Benefits* 9,585,580
i. Total
4. Non-Contributing Active Participants
\$ 10,005,645
5. Total Present Value of Benefits $=1 .(\mathrm{e})+2 .+3 .(\mathrm{i})+4 . \quad \$ 2,609,164,869$
*Excludes lump sum death benefits payable during active service.
E. Development of Normal Cost as of July 1, 2008

| 1. | Service Retirement | \$ | $59,388,366$ |
| :--- | :--- | ---: | ---: |
| 2. | Ordinary Disability |  | $2,575,425$ |
| 3. | Accidental Disability | $2,361,619$ |  |
| 4. | Ordinary Death | 990,084 |  |
| 5. | Accidental Death | $1,137,323$ |  |
| 6. | Vested Termination | 161,165 |  |
| 7. | Withdrawal Benefits | 56,176 |  |
| 8. | Lump Sum Death Benefits* |  | 623,089 |
| 9. | Total Pension Normal Cost* $^{*}=1 .+2 .+3 .+4 .+5 .+6 .+7 .+8$. | $\$$ | $67,293,247$ |

*Excludes Non-Contributory Group Insurance Premium (term cost for lump sum death benefits payable during active service.)

## F. Development of State Contributions

1. Present Value of Benefits \$ 2,609,164,869
2. Actuarial Value of Assets 2,136,006,509
3. Unfunded Actuarial Accrued Liability/(Surplus) = 1. - . \$ 473,158,360
4. Amortization Period
5. Amortization of Unfunded Actuarial Accrued Liability payable July 1, 2009
\$ 28,757,070
6. (a) Gross Normal Cost (excluding Non-Contributory Group Insurance Premium)
\$ 67,293,247
(b) Expected Member Contributions
(c) State Normal Cost = (a) - (b)
(d) State Normal Cost payable July 1, 2009

49,633,203 $=(\mathrm{c}) * 1.0825$
7. Total Required Pension Contribution as of July 1, 2009 = 5. + 6.(d) \$ 82,485,012*
8. Non-Contributory Group Insurance Premium
\$ 1,546,000
*Contribution could be subject to reduction in accordance with the provisions of the Appropriation Act for fiscal year 2010.

The variation in liabilities and contributions reflects the System's actual experience during the year. The System experienced a net actuarial loss during the year that ended June 30, 2008.

The loss is primarily due to an actual return on System assets less than expected. For valuation purposes, an 8.25\% per annum rate of return was assumed. The actual return on the Fund's actuarial value of assets was approximately $6.29 \%$ for the period from July 1, 2007 through June 30, 2008. There was also an offsetting gain due to experience among active and retired members.

The following shows the development of the actuarial experience and identifies the major experience components:

## A. Calculation of Actuarial Experience for the Year Ended June 30, 2008

1. Unfunded Accrued Liability/(Surplus) as of July 1, 2007
\$ 383,977,070
2. Gross Normal Cost as of July 1, 2007

65,824,924
3. Interest on (1) and (2) 37,108,665
4. Actual Members' Contributions Received 18,223,352
5. Employers' Contributions (including receivable)

8,743,000
6. Interest on Contributions 751,713
7. Expected Unfunded Accrued Liability/(Surplus) as of July 1, 2008 $=(1)+(2)+(3)-(4)-(5)-(6)$
\$ 459,192,594
8. Actual Unfunded Accrued Liability as of July 1, 2008

473,158,360
9. $\quad$ Actuarial (Gain)/Loss = (8) - (7)
\$ 13,965,766
B. Components of Actuarial Experience

1. Investment (Gain)/Loss
\$ 39,866,380
2. Other (Gain)/Loss, including mortality, cost of living adjustments less than expected, changes in employee data and salary increases greater than expected
$(25,900,614)$
3. Total Actuarial (Gain)/Loss
\$ 13,965,766

## SECTION V - ACCOUNTING INFORMATION

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

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

## (A) Development of the Annual Required Contribution (ARC) as of June 30, 2010:

1. Actuarial Value of Plan Assets as of June 30, 2008
(a) Valuation Assets as of June 30, 2008 2,136,006,509
(b) Adjustment for Receivable Contributions included in (a)

8,743,000
(c) Valuation Assets as of June 30, 2008 for

GASB Disclosure = (a) - (b)
\$ 2,127,263,509
2. Actuarial Accrued Liability as of June 30, 2008
\$ 2,609,164,869
3. Unfunded Actuarial Accrued Liability/(Surplus) as of June 30, $2008=2 .-1$.
\$ 481,901,360
4. Amortization of Unfunded Actuarial Accrued Liability/(Surplus) over 30 years
\$ 27,056,298
5. Normal Cost as of June 30, 2008 (excludes NCGIPF)
\$ 49,633,203
6. Annual Required Contribution as of June 30, 2010
(a) Annual Required Contribution as of June 30, 2008 $=4 .+5$.
\$ 76,689,501
(b) Interest Adjustment to June 30, 2010 13,175,736
(c) Non-Contributory Group Insurance Premium
$1,546,000$
(d) Annual Required Contribution as of June 30, 2010 $=(\mathrm{a})+(\mathrm{b})+(\mathrm{c})$
\$ 91,411,237

## (B) Development of the Net Pension Obligation (NPO) as of June 30, 2010:

1. Annual Required Contribution as of June 30, 2010
\$ 91,411,237
2. Interest on Net Pension Obligation 33,070,077
3. Adjustment to Annual Required Contribution (24,362,362)
4. Annual Pension Cost $=1 .+2 .+3$. \$ 100,118,952
5. Expected Employer Contributions for Fiscal Year 2010
\$ 84,031,012
6. Net Pension Obligation at June 30, 2009 \$ 400,849,414*
7. Increase in Net Pension Obligation = 4. - 5.
\$ 16,087,940
8. Net Pension Obligation at June 30, 2010 $=6 .+7$.
\$ 416,937,354

* The June 30, 2009 Net Pension Obligation amount has been revised from the amount shown in the prior year's report to reflect the adjustment to the fiscal year 2008 employer contribution and fiscal year 2009 receivable employer contribution.
(C) Schedule of Funding Progress

| Actuarial <br> Valuation Date | Actuarial Value of Assets <br> (a) | Actuarial Accrued Liability (b) | Unfunded Actuarial Accrued Liability (b-a) | Funded Ratio (a/b) | Covered <br> Payroll <br> (c) | Unfunded <br> Actuarial <br> Accrued <br> Liability as a <br> Percentage <br> of Covered <br> Payroll <br> (b-a) <br> C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/30/03 | \$ 1,865,079,083 | \$ 1,815,725,256 | \$ (49,353,827) | 102.7\% | \$ 217,448,864 | (22.7)\% |
| 6/30/04 | \$ 1,897,525,210 | \$ 1,949,309,641 | \$ 51,784,431 | 97.3\% | \$ 223,552,154 | 23.2\% |
| 6/30/05 | \$ 1,922,443,732 | \$ 2,075,266,080 | \$ 152,822,348 | 92.6\% | \$ 241,813,372 | 63.2\% |
| 6/30/06 | \$ 1,970,398,511 | \$ 2,319,656,532 | \$ 349,258,021 | 84.9\% | \$ 263,220,592 | 132.7\% |
| 6/30/07 | \$ 2,066,754,160 | \$ 2,485,649,230 | \$ 418,895,070 | 83.1\% | \$ 275,301,995 | 152.2\% |
| 6/30/08 | \$ 2,127,263,509 | \$ 2,609,164,869 | \$ 481,901,360 | 81.5\% | \$ 281,087,566 | 171.4\% |

(D) Schedule of Employer Contributions

| Fiscal Year ${ }^{\varnothing \varnothing}$ | Annual Required <br> Contribution | Employer <br> Contribution | Percentage <br> Contributed |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| 2005 | $\$$ | $37,943,519$ | $\$$ | 187,909 |
| 2006 | $\$$ | $47,196,900$ | $\$$ | $12,941,000$ |
| 2007 | $\$$ | $56,502,006$ | $\$$ | $29,875,748$ |
| 2008 | $\$$ | $78,761,279$ | $\$$ | $36,443,502^{*}$ |

[^1](E) The information presented in the required supplementary schedules were determined as part of the actuarial valuation. Additional information follows:

| Valuation Date | June 30, 2008 |
| :--- | :--- |
| Actuarial Cost Method | Projected Unit Credit |
| Amortization Method | Level Percent, Open |
| Remaining Amortization Period | 30 years |
| Asset Valuation Method | Five-Year Average of Market Value |
| Actuarial Assumptions: |  |
| Investment Rate of Return | $8.25 \%$ |
| Projected Salary Increase | $5.45 \%$ |
| Cost of Living Adjustments | $60 \%$ of the assumed |
|  | CPI increase of 3.0\% |

## SECTION VI - LEVEL OF FUNDING

Although the value of accrued benefits and the funding ratios shown in the previous section are required for the State's financial statements, it is instructive to also look at these values under an alternative approach. For this purpose, we are presenting liabilities determined on a Financial Accounting Standards Board Statement No. 87 Accumulated Benefit Obligation (ABO) basis. This is the same approach as GASB Statement No. 25 except that no assumption is made as to future salary increases.

| FASB 87 ABO Funded Ratios <br> Actuarial present value of accumulated benefits: | June 30, 2008 |  | June 30, 2007 |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
| Vested benefits |  |  |  |  |
| Participants currently receiving payments | \$ | 1,492,340,059 | \$ | 1,399,050,008 |
| Other participants |  | 778,297,610 |  | 692,576,149 |
|  | \$ | 2,270,637,669 | \$ | 2,091,626,157 |
| Non-vested benefits |  | 184,349,163 |  | 248,437,512 |
| Total | \$ | 2,454,986,832 | \$ | 2,340,063,669 |
| Assets at market value | \$ | 1,976,540,990 | \$ | 2,105,399,764 |
| Ratio of assets to total present value |  | 80.5\% |  | 90.0\% |

As in the case of the Governmental Accounting Standard Board Statement No. 25, the actuarial present value of vested and non-vested accrued benefits was based on an interest rate of $8.25 \%$ for both 2008 and 2007.

## APPENDIX A

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

## Eligibility for Membership

All members of the former State Police and Benevolent Fund: full-time commissioned officers, noncommissioned officers or troopers of the Division of State Police. Membership is a condition of employment.

## 1. Definitions

Plan Year
The 12-month period beginning on July 1 and ending on June 30.

Service

Credited Service

Compensation

Final Compensation

Aggregate Contributions

Adjusted Final Compensation
The amount of final compensation or final compensation as adjusted, as the case may be, increased by the same percentage increase which is applied in any adjustments of the compensation schedule of active members after the member's death and before the date on which the deceased member of the retirement system would have accrued 25 years of service under an assumption of continuous service, at which time that amount will become fixed. Adjustments to final compensation or adjusted final compensation
shall take effect at the same time as any adjustments in the compensation schedule of active members.

## 2. Benefits

Service Retirement

Vested Termination

Death Benefits
Before Retirement

Mandatory retirement at age 55. Voluntary retirement prior to age 55 with 20 years of credited service. Benefit is an annual retirement allowance equal to the greater of (a), (b), or (c), as follows:
(a) $50 \%$ of final compensation;
(b) For members retiring with 25 or more years of service, $65 \%$ of final compensation, plus $1 \%$ for each year of service in excess of 25 years, to a maximum of $70 \%$ of final compensation.
(c) For members as of August 29, 1985 who would not have 20 years of service by age 55 , benefit as defined in (a) above. For members as of August 29, 1985 who would have 20 years of service but would not have 25 years of service at age 55 , benefit as defined in (a) above plus $3 \%$ for each year of service in excess of 20 years.

Termination of service prior to age 55. Benefit for 10 to 20 years of Service - Refund of aggregate contributions, or a deferred life annuity beginning at age 55 equal to $2 \%$ of final compensation for each year of service up to 20 years.

Death of an active member of the plan. Benefit is equal to:
(a) Lump sum payment equal to $3-1 / 2$ times final compensation, plus
(b) Spousal life annuity of $50 \%$ of final compensation payable until spouse's death. If there is no surviving spouse, or upon death or remarriage, a total of $20 \%, 35 \%$ or $50 \%$ of final compensation payable to one, two or three dependent children. If there is no surviving spouse (or dependent children), $25 \%$ or $40 \%$ of final compensation to one or two dependent parents.

Minimum benefit: Aggregate contributions.

After Retirement

Accidental Death

Ordinary Disability Retirement

Death of a retired member of the plan. The benefit is equal to:
(a) Lump sum of $50 \%$ of final compensation, plus
(b) Spousal life annuity of $50 \%$ of final compensation payable until spouse's death or remarriage. If there is no surviving spouse, or upon death or remarriage, a total of $20 \%, 35 \%$ or $50 \%$ of final compensation payable to one, two or three dependent children, respectively.

Death of an active member of the plan resulting during performance of duties. Benefit is equal to:
(a) Lump sum payment equal to $3-1 / 2$ times final compensation, plus
(b) Spousal life annuity of $70 \%$ of adjusted final compensation payable until spouse's death. If there is no surviving spouse, or upon death of the surviving spouse, a total of $20 \%, 35 \%$ or $50 \%$ of adjusted final compensation payable to one, two or three dependent children. If there is no surviving spouse or dependent children, $25 \%$ or $40 \%$ of final compensation to one or two dependent parents.

Mentally or physically incapacitated for the performance of his usual duty and of any other available duty in the Division of State Police and such incapacity is likely to be permanent.
(a) The benefit for members with less than four years of service is a refund of the member's aggregate contributions.
(b) For members with at least four years of service, the benefit is an immediate life annuity equal to $40 \%$ of final compensation plus $1-1 / 2 \%$ of final compensation for years of creditable service in excess of 26-2/3.
(c) For members who are forced to retire with 20 but less than 25 years of service, the benefit is $50 \%$ of the member's final compensation plus $3 \%$ of final compensation for each year of service in excess of 20 years, to a maximum of $65 \%$ of final compensation.

For death following disability retirement, a lump sum equal to 3 $1 / 2$ times final compensation if death occurs prior to age 55 or $1 / 2$ of final compensation after age 55.

Accidental Disability
Retirement

Loan Provision
Totally and permanently disabled as a direct result of a traumatic event occurring during and as a result of his regular or assigned duties. Benefit is an immediate life annuity equal to $2 / 3$ of final compensation. Upon death after disability retirement, lump sum benefit of 3-1/2 times final compensation if death occurs before 55 and $1 / 2$ times final compensation if death occurs after 55.

Eligible if an active member of the State Police Retirement System with at least 3 years of contributory service. If eligible, a member may borrow an amount which is greater than $\$ 50$, but not more than $50 \%$ of aggregate contributions. The loan accrues interest at a rate set by the State Treasurer, which is based on a commercially reasonable rate as required by the Internal Revenue Code. An administrative fee may be charged for the loan.

## APPENDIX B

## OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

VALUATION INTEREST RATE: $8.25 \%$ per annum, compounded annually.
COLA: The COLA is $60 \%$ of the assumed CPI increase. CPI is assumed to increase at $3.0 \%$ per annum, compounded annually.

SALARY INCREASES: Salaries are assumed to increase by $5.45 \%$ per year.
TERMINATION: Withdrawal rates vary by length of service. Illustrative rates are shown below:
Lives per Thousand

| Age | Less Than <br> 25 | Five to Nineteen <br> Years of Service |
| :---: | :---: | :---: |
| 30 | 8.3 | 0.0 |
| 35 | 5.0 | 4.0 |
| 40 | 8.3 | 1.0 |
| 45 | 0.0 | 1.5 |
| 50 | 0.0 | 2.0 |
|  | 0.0 | 0.0 |

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

| Age | Ordinary <br> Death | Annual Rates of $*$ <br> Accidental <br> Death | Ordinary <br> Disability | Accidental <br> Disability |
| :---: | :---: | :---: | :---: | :---: |
| 35 | 0.0 | 0.4 | 0.6 | 0.3 |
| 35 | 0.7 | 0.5 | 0.9 | 0.4 |
| 40 | 0.5 | 0.5 | 2.4 | 1.5 |
| 45 | 0.8 | 0.5 | 2.5 | 1.6 |
| 50 | 1.0 | 0.6 | 3.1 | 1.7 |
|  | 2.5 | 0.9 | 5.4 | 2.2 |

*Per one thousand lives.
MARRIAGE: Husbands are assumed to be 3 years older than wives. Among the active population, 83.3\% of participants are assumed married. No children are assumed. Neither the percentage married nor number of children assumption is individually explicit but are considered as a single combined assumption.

VALUATION METHOD: Projected Unit Credit Method. This method essentially funds the System’s benefits accrued to the valuation date. Experience gains and losses are recognized in future accrued liability contributions.

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

DEATHS AFTER RETIREMENT: For Healthy Inactive Mortality the 1983 Group Annuity Mortality Table for males and females is used. Illustrative rates of mortality for retired members are shown below:

## Lives Per Thousand

## Beneficiaries of

 Deceased Members| Age | Males* | Females | Males | Females | Disabled Males and Females |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 55 | 4.9 | 2.5 | 6.1 | 2.5 | 9.6 |
| 60 | 7.3 | 4.2 | 9.2 | 4.2 | 13.6 |
| 65 | 12.5 | 7.1 | 15.6 | 7.1 | 19.8 |
| 70 | 22.0 | 12.4 | 27.5 | 12.4 | 29.6 |
| 75 | 35.7 | 24.0 | 44.6 | 28.8 | 44.5 |
| 80 | 59.3 | 43.0 | 74.1 | 51.5 | 67.3 |
| 85 | 91.9 | 69.9 | 114.8 | 83.9 | 101.1 |
| 90 | 133.1 | 111.8 | 166.3 | 134.1 | 149.4 |

*80.0\% of 1983 GAM male rates are used.

RATES OF RETIREMENT: Rates of retirement vary by length of service and age (if more than 24 years of service) with $100 \%$ of those remaining at age 55 retiring at age 55 . The rates are shown below:

| Service | Lives Per 100 |
| :---: | :---: |
| 20 | 2.0 |
| 21 | 0.5 |
| 22 | 0.0 |
| 23 | 0.0 |
| 24 | 0.0 |
| 25 | 30.0 |

Greater than 25 :
(a) through age 42
5.0
(b) ages 43-47
25.0
(c) ages 48-53
30.0
(d) age 54
55.0

## APPENDIX C

## TABULATIONS USED AS A BASIS FOR THE 2008 VALUATION

The following tables give a reconciliation of data from July 1, 2007 to June 30, 2008. Tables are also given showing active member number and salaries by age and length of service as of July 1, 2008 and showing the number and retirement allowances of beneficiaries classified by age as of July 1, 2008.

TABLE 1

RECONCILIATION OF DATA FROM JULY 1, 2007 TO JUNE 30, 2008

|  | Actives |  | Deferred <br> Vested | Retirees |  |  |  | Beneficiaries | Dependents | Domestic Relations Beneficiaries |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Contrib. | Noncontrib. |  | Service | Special | Deferred | Disabled |  |  | Retirees | Disabilities |  |
| Members as of July 1, 2007 | 2,957 | 42 | 0 | 442 | 1,304 | 4 | 209 | 346 | 6 | 91 | 24 | 5,425 |
| Changed to Contributing |  | (1) |  |  |  |  |  |  |  |  |  |  |
| Changed to Noncontributing | (8) | 8 |  |  |  |  |  |  |  |  |  |  |
| Terminated Vested |  | (2) |  |  |  |  |  |  |  |  |  | (2) |
| Terminated Non-Vested |  | (3) |  |  |  |  |  |  |  |  |  | (3) |
| Service Retirement | (3) |  |  | 3 |  |  |  |  |  |  |  |  |
| Special Retirement | (105) |  |  |  | 105 |  |  |  |  |  |  |  |
| New Disabled |  | (1) |  |  |  |  | 9 |  |  |  |  |  |
| New Death |  |  |  | (13) | (9) |  | (6) | (20) |  |  |  | (48) |
| Payments Began |  |  |  |  |  |  |  |  | 1 | 7 |  | 8 |
| Payments Ceased |  |  |  |  |  |  |  |  | (1) |  |  | (1) |
| New Actives | 69 | 1 |  |  |  |  |  |  |  | (6) | (6) | 58 |
| Rehires |  |  |  |  |  |  |  |  |  |  |  |  |
| New Beneficiaries |  |  |  |  |  |  |  | 29 |  |  |  | 29 |
| Data Corrections |  |  |  | 1 | (1) |  | 1 |  |  |  |  | 1 |
| Members as of June 30, 2008 | 2,903 | 44 | 0 | 433 | 1,399 | 4 | 213 | 355 | 6 | 92 | 18 | 5,467 |

TABLE 2

DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND SERVICE

| AGE | SERVICE | 1 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Number Salary |  |  |  |  |  |  |  |  |  |
| 25 | Number Salary | $\begin{array}{r} 162 \\ 11,299,550 \end{array}$ | $\begin{array}{r} 81 \\ 5,999,287 \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 243 \\ 17,298,837 \end{array}$ |
| 30 | Number Salary | $\begin{array}{r} \hline 151 \\ 10,584,978 \\ \hline \end{array}$ | $\begin{array}{r} \hline 389 \\ 30,538,791 \\ \hline \end{array}$ | $\begin{array}{r} 21 \\ 1,775,403 \\ \hline \end{array}$ | 1 71,775 |  |  |  |  | $\begin{array}{r} \hline 562 \\ 42,970,947 \\ \hline \end{array}$ |
| 35 | Number Salary | $\begin{array}{r} 46 \\ 3,192,464 \\ \hline \end{array}$ | $\begin{array}{r} \hline 210 \\ 17,028,112 \\ \hline \end{array}$ | $\begin{array}{r} 214 \\ 20,931,363 \\ \hline \end{array}$ | $\begin{array}{r} 43 \\ 4,435,101 \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} \hline 513 \\ 45,587,040 \\ \hline \end{array}$ |
| 40 | Number Salary | $\begin{array}{r} 2 \\ 119,095 \\ \hline \end{array}$ | $\begin{array}{r} 58 \\ 4,787,814 \end{array}$ | $\begin{array}{r} 116 \\ 11,643,864 \\ \hline \end{array}$ | $\begin{array}{r} 189 \\ 19,488,734 \\ \hline \end{array}$ | $\begin{array}{r} 202 \\ 21,604,318 \end{array}$ | $\begin{array}{r} 3 \\ 338,700 \end{array}$ |  |  | $\begin{array}{r} 570 \\ 57,982,525 \end{array}$ |
| 45 | Number Salary |  | $\begin{array}{r} 1 \\ 88,662 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ 2,109,562 \\ \hline \end{array}$ | $\begin{array}{r} 61 \\ 6,298,852 \\ \hline \end{array}$ | $\begin{array}{r} 495 \\ 53,642,557 \\ \hline \end{array}$ | $\begin{array}{r} 143 \\ 16,567,495 \\ \hline \end{array}$ |  |  | $\begin{array}{r} \hline 722 \\ 78,707,128 \\ \hline \end{array}$ |
| 50 and over | Number Salary |  |  | $\begin{array}{r} 1 \\ 69,818 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ 474,942 \end{array}$ | $\begin{array}{r} 113 \\ 12,071,101 \\ \hline \end{array}$ | $\begin{array}{r} 166 \\ 19,619,507 \\ \hline \end{array}$ | $\begin{array}{r} 51 \\ 6,170,523 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ 135,198 \end{array}$ | $\begin{array}{r} 337 \\ 38,541,089 \\ \hline \end{array}$ |
| TOTAL | Number Salary | $\begin{array}{r} 361 \\ 25,196,087 \end{array}$ | $\begin{array}{r} 739 \\ 58,442,666 \\ \hline \end{array}$ | $\begin{array}{r} 374 \\ 36,530,010 \end{array}$ | $\begin{array}{r} 299 \\ 30,769,404 \\ \hline \end{array}$ | $\begin{array}{r} 810 \\ 87,317,976 \end{array}$ | $\begin{array}{r} 312 \\ 36,525,702 \\ \hline \end{array}$ | $\begin{array}{r} 51 \\ 6,170,523 \end{array}$ | 1 135,198 | $\begin{array}{r} 2,947 \\ 281,087,566 \\ \hline \end{array}$ |

TABLE 3

# THE NUMBER AND ANNUAL COMPENSATION OF <br> ACTIVE MEMBERS DISTRIBUTED BY AGE <br> AS OF JUNE 30, 2008 

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER |  | AMOUNT | NUMBER |  | AMOUNT |
| 24 | 6 | \$ | 409,144 |  |  |  |
| 25 | 38 |  | 2,652,175 | 2 | \$ | 132,797 |
| 26 | 55 |  | 3,872,346 | 6 |  | 425,273 |
| 27 | 83 |  | 5,941,194 | 4 |  | 279,035 |
| 28 | 102 |  | 7,476,532 | 2 |  | 146,238 |
| 29 | 111 |  | 8,221,116 | 4 |  | 297,853 |
| 30 | 108 |  | 8,286,083 | 4 |  | 298,610 |
| 31 | 124 |  | 9,510,875 | 7 |  | 527,376 |
| 32 | 88 |  | 6,940,566 | 4 |  | 312,051 |
| 33 | 109 |  | 8,719,053 | 7 |  | 539,800 |
| 34 | 83 |  | 6,934,677 | 5 |  | 420,446 |
| 35 | 84 |  | 7,278,987 | 6 |  | 490,289 |
| 36 | 91 |  | 8,387,357 | 4 |  | 344,311 |
| 37 | 113 |  | 10,439,262 | 8 |  | 727,982 |
| 38 | 109 |  | 10,535,466 | 7 |  | 676,383 |
| 39 | 92 |  | 8,938,298 | 2 |  | 189,747 |
| 40 | 88 |  | 8,782,113 | 2 |  | 183,614 |
| 41 | 100 |  | 10,176,638 | 4 |  | 408,987 |
| 42 | 134 |  | 14,089,447 | 4 |  | 410,240 |
| 43 | 153 |  | 16,431,033 | 6 |  | 664,690 |
| 44 | 182 |  | 19,526,263 | 4 |  | 417,078 |
| 45 | 166 |  | 18,130,646 | 6 |  | 670,562 |
| 46 | 134 |  | 14,708,850 | 4 |  | 482,250 |
| 47 | 113 |  | 12,448,878 | 4 |  | 444,822 |
| 48 | 71 |  | 7,875,450 | 2 |  | 233,386 |
| 49 | 86 |  | 9,751,834 | 2 |  | 256,511 |
| 50 | 53 |  | 6,039,078 |  |  |  |
| 51 | 58 |  | 6,638,467 | 1 |  | 123,819 |
| 52 | 42 |  | 4,836,650 |  |  |  |
| 53 | 25 |  | 2,886,690 | 1 |  | 129,352 |
| 54 | 34 |  | 3,988,895 |  |  |  |
| TOTAL | 2,835 | \$ | 270,854,061 | 112 | \$ | 10,233,505 |

Of the 2,947 active members included in the June 30, 2008 valuation data, 1,692 are vested and 1,255 have not yet completed the vesting service requirement.

TABLE 4

## THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY SERVICE AS OF JUNE 30, 2008

| YEARS OF SERVICE | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  | NUMBER | AMOUNT |  | NUMBER | AMOUNT |  |
| 0 | 2 | \$ | 117,502 |  |  |  |
| 1 | 65 |  | 4,283,779 | 7 | \$ | 464,790 |
| 2 | 91 |  | 6,283,697 | 6 |  | 411,832 |
| 3 | 251 |  | 18,192,901 | 13 |  | 941,137 |
| 4 | 170 |  | 12,630,387 | 4 |  | 297,854 |
| 5 | 112 |  | 8,554,510 | 10 |  | 771,516 |
| 6 | 54 |  | 4,191,159 | 3 |  | 231,456 |
| 7 | 283 |  | 23,884,209 | 13 |  | 1,110,426 |
| 8 | 28 |  | 2,269,163 | 3 |  | 242,965 |
| 9 | 22 |  | 1,798,918 | 1 |  | 101,086 |
| 10 | 125 |  | 12,401,658 | 5 |  | 481,807 |
| 11 | 105 |  | 10,436,061 | 5 |  | 508,377 |
| 12 | 19 |  | 1,734,819 |  |  |  |
| 13 | 153 |  | 15,621,996 | 10 |  | 1,042,226 |
| 14 | 103 |  | 10,636,569 | 5 |  | 528,395 |
| 15 | 87 |  | 8,940,512 |  |  |  |
| 16 | 7 |  | 725,920 |  |  |  |
| 17 | 6 |  | 596,047 |  |  |  |
| 18 | 10 |  | 1,003,389 | 1 |  | 101,086 |
| 19 | 69 |  | 7,234,116 | 2 |  | 214,907 |
| 20 | 197 |  | 20,716,662 | 3 |  | 338,726 |
| 21 | 270 |  | 29,013,897 | 4 |  | 452,705 |
| 22 | 241 |  | 26,680,354 | 7 |  | 808,892 |
| 23 | 110 |  | 12,589,663 | 3 |  | 325,546 |
| 24 | 51 |  | 5,933,192 | 2 |  | 218,744 |
| 25 | 58 |  | 6,836,306 |  |  |  |
| 26 | 69 |  | 8,271,211 | 1 |  | 129,352 |
| 27 | 28 |  | 3,350,072 | 1 |  | 129,352 |
| 28 | 4 |  | 470,610 | 3 |  | 380,330 |
| 29 | 30 |  | 3,677,681 |  |  |  |
| 30 | 10 |  | 1,165,706 |  |  |  |
| 31 | 4 |  | 476,195 |  |  |  |
| 33 | 1 |  | 135,198 |  |  |  |
| TOTAL | 2,835 | \$ | 270,854,061 | 112 | \$ | 10,233,505 |

Of the 2,947 active members included in the June 30, 2008 valuation data, 1,692 are vested and 1,255 have not yet completed the vesting service requirement.

## State Police Retirement System of New Jersey

(Based on the July 1, 2008 Actuarial Valuations)

|  | Service Retirement |  | Special Retirement <br> (25 Years of Service) |  | Ordinary Disability |  | Accidental Disability |  | Survivors |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average Age <br> At Retirement | Average <br> Annual Benefit At Retirement | Average Age <br> At Retirement | Average <br> Annual Benefit At Retirement | Average Age <br> At Retirement | Average <br> Annual Benefit At Retirement | Average Age <br> At Retirement | Average <br> Annual Benefit At Retirement | Average Age <br> At Retirement * | Average <br> Annual Benefit <br> At Retirement |
| All Retirees New Retirees | $\begin{aligned} & 50.6 \\ & 44.3 \end{aligned}$ | $\$$ 23,748 <br> $\$$ 40,193 | $\begin{aligned} & 51.7 \\ & 50.6 \end{aligned}$ | $\$$ 56,304 <br> $\$$ 79,109 | $\begin{aligned} & 40.8 \\ & \text { N/A } \end{aligned}$ | $\begin{array}{rr} \$ & 28,090 \\ & \text { N/A } \end{array}$ | $\begin{aligned} & 39.8 \\ & 35.6 \end{aligned}$ | $\$$ 43,605 <br> $\$$ 51,879 | $\begin{aligned} & 46.7 \\ & 42.9 \end{aligned}$ | \$ 19,501 <br> $\$$ 21,777 |


| All Retirees | All Retirements (excluding Survivors) |  |
| :---: | :---: | :---: |
|  | Average Age At Retirement | Average Annual Benefit At Retirement |
|  | 50.3 | 47,325 |

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

* Calculated as of Member's Date of Retirement

TABLE 6

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED

BY AGE AS OF JUNE 30, 2008
SERVICE RETIREMENTS

## MEN

| AGE | NUMBER |
| :---: | :---: |
| 41 | 1 |
| 42 | 1 |
| 43 | 2 |
| 44 | 1 |
| 45 | 1 |
| 46 | 7 |
| 47 | 11 |
| 48 | 7 |
| 49 | 26 |
| 50 | 38 |
| 51 | 42 |
| 52 | 49 |
| 53 | 38 |
| 54 | 62 |
| 55 | 43 |
| 56 | 61 |
| 57 | 71 |
| 58 | 50 |
| 59 | 70 |
| 60 | 68 |
| 61 | 91 |
| 62 | 98 |
| 63 | 75 |
| 64 | 68 |
| 65 | 94 |
| 66 | 84 |
| 67 | 89 |
| 68 | 58 |
| 69 | 46 |
| 70 | 52 |
| 71 | 31 |
| 72 | 30 |
| 73 | 26 |
| 74 | 17 |
| 75 | 16 |
| 76 | 31 |
| 77 | 36 |
| 78 | 34 |
| 79 | 26 |
| 80 | 37 |
| 81 | 27 |
| 82 | 24 |

59,796
56,971
53,065
48,468
80,604

516,111
840,852
499,384
1,958,527
2,809,953
3,109,620
3,524,140
2,734,559
4,449,356
3,069,233
4,302,589
4,608,319
3,398,494
4,635,029
4,076,571
5,665,993
5,608,342
4,238,550
3,639,815
5,032,906
4,317,910
4,420,589
2,884,352
2,308,484
2,419,128
1,459,088
1,274,526
1,185,307 806,231
654,427
1,338,177
1,504,194
1,269,186 990,963
1,498,250 872,114 698,762

WOMEN

NUMBER

| 1 | \$ | 10,061 |
| :---: | :---: | :---: |
| 1 |  | 7,244 |
| 1 |  | 36,400 |
| 1 |  | 8,727 |
| 2 |  | 28,917 |
| 4 |  | 130,182 |
| 6 |  | 201,050 |
| 6 |  | 272,775 |
| 4 |  | 151,538 |
| 7 |  | 378,847 |
| 3 |  | 201,053 |
| 5 |  | 167,296 |
| 7 |  | 350,617 |

88,667
55,833
72,833
44,554
139,135
18,000
205,288
166,720
123,347
16,049
9,694
12,000
51,098
73,967
61,949
2,600

24,821
4,872

TABLE 6

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED

BY AGE AS OF JUNE 30, 2008
SERVICE RETIREMENTS
(CONTINUED)

| MEN |  |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER |  | AMOUNT | NUMBER |  | AMOUNT |
| 83 | 17 | \$ | 511,549 |  |  |  |
| 84 | 21 |  | 637,059 |  |  |  |
| 85 | 9 |  | 260,214 |  |  |  |
| 86 | 8 |  | 215,363 |  |  |  |
| 87 | 9 |  | 263,353 |  |  |  |
| 88 | 3 |  | 103,302 |  |  |  |
| 89 | 6 |  | 183,408 |  |  |  |
| 90 | 1 |  | 25,761 |  |  |  |
| 91 | 2 |  | 64,481 |  |  |  |
| 93 | 2 |  | 48,247 |  |  |  |
| TOTAL | 1,817 | \$ | 101,231,674 | 111 | \$ | 3,130,352 |

TABLE 7

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JUNE 30, 2008

BENEFICIARIES OF DECEASED PENSIONERS

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER | AMOUNT |  | NUMBER | AMOUNT |  |
| 44 |  |  |  | 1 | \$ | 15,704 |
| 45 |  |  |  | 1 |  | 47,371 |
| 46 |  |  |  | 1 |  | 45,777 |
| 47 |  |  |  | 4 |  | 23,753 |
| 49 |  |  |  | 4 |  | 123,271 |
| 50 | 1 | \$ | 9,578 | 3 |  | 69,173 |
| 51 |  |  |  | 2 |  | 70,205 |
| 52 |  |  |  | 1 |  | 59,022 |
| 54 |  |  |  | 1 |  | 43,383 |
| 56 |  |  |  | 2 |  | 72,581 |
| 57 |  |  |  | 1 |  | 51,919 |
| 58 |  |  |  | 3 |  | 124,743 |
| 60 |  |  |  | 4 |  | 151,212 |
| 61 | 1 |  | 9,585 | 8 |  | 319,906 |
| 62 |  |  |  | 4 |  | 148,717 |
| 63 |  |  |  | 5 |  | 188,797 |
| 64 |  |  |  | 5 |  | 188,621 |
| 65 |  |  |  | 8 |  | 260,979 |
| 66 | 1 |  | 39,571 | 10 |  | 376,044 |
| 67 |  |  |  | 6 |  | 181,222 |
| 68 |  |  |  | 8 |  | 256,717 |
| 69 |  |  |  | 3 |  | 115,191 |
| 70 |  |  |  | 10 |  | 337,494 |
| 71 |  |  |  | 5 |  | 148,871 |
| 72 |  |  |  | 6 |  | 187,803 |
| 73 |  |  |  | 6 |  | 188,061 |
| 74 |  |  |  | 6 |  | 173,334 |
| 75 |  |  |  | 11 |  | 345,661 |
| 76 |  |  |  | 18 |  | 501,316 |
| 77 |  |  |  | 14 |  | 373,317 |
| 78 |  |  |  | 15 |  | 424,374 |
| 79 |  |  |  | 15 |  | 431,523 |
| 80 |  |  |  | 14 |  | 349,309 |
| 81 |  |  |  | 13 |  | 379,893 |
| 82 |  |  |  | 10 |  | 263,580 |
| 83 |  |  |  | 9 |  | 221,284 |
| 84 |  |  |  | 7 |  | 193,212 |
| 85 |  |  |  | 6 |  | 154,359 |
| 86 |  |  |  | 5 |  | 151,783 |

TABLE 7

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JUNE 30, 2008

BENEFICIARIES OF DECEASED PENSIONERS (CONTINUED)

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER |  | AMOUNT | NUMBER |  | AMOUNT |
| 87 |  |  |  | 5 | \$ | 108,561 |
| 88 |  |  |  | 6 |  | 153,442 |
| 89 |  |  |  | 6 |  | 128,238 |
| 90 |  |  |  | 8 |  | 181,631 |
| 91 |  |  |  | 2 |  | 41,839 |
| 92 |  |  |  | 2 |  | 44,531 |
| 93 |  |  |  | 3 |  | 47,133 |
| 94 |  |  |  | 1 |  | 18,609 |
| 95 |  |  |  | 1 |  | 21,480 |
| 99 |  |  |  | 1 |  | 21,364 |
| TOTAL | 3 | \$ | 58,734 | 290 | \$ | 8,526,307 |

TABLE 8

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED

BY AGE AS OF JUNE 30, 2008

BENEFICIARIES OF DECEASED ACTIVE EMPLOYEES

|  | MEN |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER | AMOUNT | NUMBER |  | AMOUNT |
| 32 |  |  | 1 | \$ | 57,766 |
| 40 |  |  | 1 |  | 41,036 |
| 42 |  |  | 1 |  | 70,744 |
| 43 |  |  | 1 |  | 70,744 |
| 44 |  |  | 1 |  | 36,110 |
| 45 |  |  | 1 |  | 70,744 |
| 46 |  |  | 1 |  | 70,744 |
| 49 |  |  | 1 |  | 62,659 |
| 50 |  |  | 2 |  | 107,563 |
| 53 |  |  | 1 |  | 39,265 |
| 54 |  |  | 1 |  | 44,118 |
| 56 |  |  | 2 |  | 102,906 |
| 57 |  |  | 2 |  | 80,656 |
| 58 |  |  | 1 |  | 53,927 |
| 59 |  |  | 3 |  | 96,780 |
| 61 |  |  | 1 |  | 35,261 |
| 62 |  |  | 1 |  | 48,755 |
| 63 |  |  | 3 |  | 108,893 |
| 64 |  |  | 3 |  | 110,930 |
| 65 |  |  | 3 |  | 140,497 |
| 66 |  |  | 3 |  | 100,956 |
| 67 |  |  | 2 |  | 77,555 |
| 68 |  |  | 2 |  | 60,069 |
| 69 |  |  | 1 |  | 20,945 |
| 70 |  |  | 1 |  | 21,839 |
| 71 |  |  | 1 |  | 39,225 |
| 73 |  |  | 1 |  | 28,041 |
| 74 |  |  | 1 |  | 34,984 |
| 76 |  |  | 2 |  | 45,748 |
| 78 |  |  | 3 |  | 92,782 |
| 79 |  |  | 2 |  | 50,392 |
| 80 |  |  | 1 |  | 37,084 |

TABLE 8

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED

BY AGE AS OF JUNE 30, 2008

BENEFICIARIES OF DECEASED ACTIVE EMPLOYEES
(CONTINUED)

|  | MEN |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER | AMOUNT | NUMBER |  | AMOUNT |
| 81 |  |  | 1 | \$ | 23,058 |
| 82 |  |  | 1 |  | 30,844 |
| 83 |  |  | 1 |  | 18,409 |
| 84 |  |  | 3 |  | 72,469 |
| 87 |  |  | 3 |  | 46,213 |
| 88 |  |  | 1 |  | 19,350 |
| 89 |  |  | 1 |  | 16,687 |
| 90 |  |  | 1 |  | 16,925 |
| 92 |  |  | 1 |  | 15,126 |

$\begin{array}{ccccccc}\text { TOTAL } & 0 & \$ & 0 & 64 & \$ & 2,318,799\end{array}$

TABLE 9

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JUNE 30, 2008

CHILDREN OF DECEASED MEMBERS

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER |  | AMOUNT | NUMBER |  | AMOUNT |
| 11 |  |  |  | 1 | \$ | 11,444 |
| 16 |  |  |  | 2 |  | 28,389 |
| 18 | 1 | \$ | 16,932 |  |  |  |
| TOTAL | 1 | \$ | 16,932 | 3 | \$ | 39,833 |

TABLE 10

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED

BY AGE AS OF JUNE 30, 2008
ORDINARY DISABILITY RETIREMENTS

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER |  | AMOUNT | NUMBER |  | AMOUNT |
| 37 |  |  |  | 1 | \$ | 27,538 |
| 39 | 1 | \$ | 29,378 |  |  |  |
| 40 | 3 |  | 68,334 | 1 |  | 15,132 |
| 41 | 2 |  | 70,879 |  |  |  |
| 42 | 6 |  | 195,283 | 1 |  | 11,976 |
| 43 | 4 |  | 108,386 |  |  |  |
| 44 | 7 |  | 208,210 | 2 |  | 52,011 |
| 45 | 5 |  | 206,297 | 4 |  | 114,089 |
| 46 | 4 |  | 123,607 | 3 |  | 68,476 |
| 47 | 4 |  | 127,636 | 4 |  | 85,883 |
| 48 | 1 |  | 35,847 | 1 |  | 17,673 |
| 49 | 4 |  | 163,786 | 2 |  | 62,716 |
| 50 | 4 |  | 171,797 | 1 |  | 8,674 |
| 51 | 1 |  | 30,333 | 1 |  | 49,173 |
| 52 | 3 |  | 88,624 |  |  |  |
| 53 | 1 |  | 54,727 |  |  |  |
| 54 | 2 |  | 107,872 |  |  |  |
| 55 | 2 |  | 80,634 |  |  |  |
| 56 | 3 |  | 137,883 |  |  |  |
| 57 | 2 |  | 27,686 | 1 |  | 8,141 |
| 58 | 1 |  | 25,230 | 1 |  | 20,960 |
| 59 | 1 |  | 48,926 |  |  |  |
| 60 | 2 |  | 27,346 |  |  |  |
| 61 | 4 |  | 126,938 | 1 |  | 31,232 |
| 63 | 3 |  | 81,859 |  |  |  |
| 64 | 3 |  | 101,368 | 1 |  | 13,207 |
| 65 | 1 |  | 22,794 |  |  |  |
| 66 | 3 |  | 71,663 | 1 |  | 7,280 |
| 67 | 2 |  | 37,504 |  |  |  |
| 68 | 5 |  | 115,659 |  |  |  |
| 69 | 2 |  | 72,061 |  |  |  |
| 70 | 3 |  | 54,678 |  |  |  |
| 71 | 1 |  | 18,354 |  |  |  |
| 80 | 1 |  | 17,452 |  |  |  |
| 82 | 1 |  | 17,103 |  |  |  |
| 83 | 2 |  | 38,229 |  |  |  |
| TOTAL | 94 | \$ | 2,914,365 | 26 | \$ | 594,160 |

TABLE 11

THE NUMBER AND ANNUAL RETIREMENT
ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED
BY AGE AS OF JUNE 30, 2008

ACCIDENTAL DISABILITY RETIREMENTS

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER |  | AMOUNT | NUMBER |  | AMOUNT |
| 27 | 1 | \$ | 47,453 |  |  |  |
| 34 | 1 |  | 60,998 |  |  |  |
| 35 | 3 |  | 153,853 |  |  |  |
| 36 | 3 |  | 168,258 |  |  |  |
| 37 | 3 |  | 173,168 |  |  |  |
| 39 | 1 |  | 48,107 |  |  |  |
| 40 | 4 |  | 224,133 |  |  |  |
| 41 | 5 |  | 275,353 | 1 | \$ | 54,862 |
| 42 | 3 |  | 181,477 |  |  |  |
| 43 | 5 |  | 297,312 | 1 |  | 54,971 |
| 44 | 6 |  | 319,237 | 1 |  | 4,784 |
| 45 | 5 |  | 295,087 | 1 |  | 58,771 |
| 46 | 6 |  | 333,889 |  |  |  |
| 47 | 7 |  | 324,557 | 3 |  | 33,087 |
| 48 | 5 |  | 282,813 | 1 |  | 39,368 |
| 49 | 1 |  | 58,271 |  |  |  |
| 50 | 2 |  | 92,890 | 1 |  | 30,040 |
| 51 |  |  |  | 2 |  | 108,062 |
| 52 | 5 |  | 238,114 |  |  |  |
| 53 | 1 |  | 61,496 |  |  |  |
| 54 | 3 |  | 170,741 |  |  |  |
| 56 | 3 |  | 144,506 |  |  |  |
| 58 | 3 |  | 169,991 | 1 |  | 49,705 |
| 61 | 1 |  | 52,558 |  |  |  |
| 62 | 1 |  | 34,730 |  |  |  |
| 63 | 1 |  | 71,496 |  |  |  |
| 64 | 3 |  | 102,338 |  |  |  |
| 65 | 1 |  | 26,848 |  |  |  |
| 66 | 5 |  | 153,731 |  |  |  |
| 67 | 1 |  | 25,399 |  |  |  |
| 68 | 2 |  | 73,729 |  |  |  |
| 69 | 3 |  | 100,464 |  |  |  |
| 70 | 1 |  | 43,440 |  |  |  |
| 71 | 1 |  | 49,092 |  |  |  |
| 77 | 1 |  | 27,656 |  |  |  |
| 83 | 2 |  | 71,235 |  |  |  |
| TOTAL | 99 | \$ | 4,954,418 | 12 | \$ | 433,651 |


[^0]:    * The fiscal year 2009 required contribution of $\$ 75,889,699$ has been reduced to $\$ 8,743,000$ to reflect the potential impact of the Appropriation Act for fiscal year 2009.
    ** Excludes assets held in the Non-Contributory Group Insurance Fund.

[^1]:    * The fiscal year 2008 required contribution of $\$ 70,942,933$ has been reduced to $\$ 36,443,502$ in accordance with the provisions of the Appropriation Act for fiscal year 2008.
    ** The fiscal year 2009 required contribution of $\$ 77,679,416$ has been reduced to $\$ 10,244,000$ in anticipation of the provisions of the Appropriation Act for fiscal year 2009.
    $\varnothing$ The required contribution could be subject to reduction in accordance with the provisions of the Appropriation Act for fiscal year 2010.
    øø The contribution amounts reflect premiums paid to the Non-Contributory Group Insurance Premium Fund.

