THE STATE POLICE RETIREMENT SYSTEM OF NEW JERSEY
ANNUAL REPORT
OF THE ACTUARY PREPARED AS OF JULY 1, 2002

March 12, 2003
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, 2002 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, 2002 and gives the basis for determining the required annual contribution for the plan year beginning July 1, 2002.

The valuation was prepared on the basis of the same assumptions as were employed for the previous valuation which include an interest rate of $8.75 \%$ per year. In addition, the valuation reflects the provisions of Chapter 350, P.L. 2001 which increased the compensation base used for determining accidental death benefits payable to surviving spouses and children.

The Table of Contents, which follows, highlights the Sections of the Report.
Respectfully submitted,
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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, 2002 

## 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, 2002, 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, 2002 |  | July 1, 2001 |  |
| :---: | :---: | :---: | :---: | :---: |
| Number of Members |  | 2,793 |  | 2,675 |
| Annual Compensation | \$ | 215,161,126 | \$ | 199,727,203 |
| Number of Pensioners and Beneficiaries |  | 1,969 |  | 1,906 |
| Total Annual Allowance | \$ | 75,314,289 | \$ | 69,952,007 |
| Assets |  |  |  |  |
| Total Present Market Value of Assets | \$ | 1,565,301,249 | \$ | 1,761,657,628 |
| Total Valuation Assets | \$ | 1,853,684,177 | \$ | 1,829,414,353 |
| Contribution Amounts |  |  |  |  |
| Normal Contribution | \$ | 0* | \$ | 0* |
| Accrued Liability Contribution |  | 0 |  | 0 |
| Total Contribution | \$ | 0 | \$ | 0 |

* Required contributions have been reduced by a portion of excess assets (See Section III G).

The major benefit and contribution provisions of the statute as reflected in the valuation are summarized in Appendix A. In particular, the valuation reflects the provisions of Chapter 350, P.L. 2001 which increased the compensation base used for the determination of the accidental death benefit for spouses and children. There were no other changes from the provisions 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 G.

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, 2001 and July 1, 2002 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


# 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, 2001 and July 1, 2002 by various categories.

## ACTIVE MEMBERSHIP

|  | 2002 |  | 2001 |  |
| :--- | :---: | :---: | :---: | :---: |
| Group | Number | Annual <br> Compensation | Number | Annual <br> Compensation |
| Men | 2,696 | $\$ 207,875,656$ | 2,583 | $\$$ |
| $193,076,929$ |  |  |  |  |
| Women | 97 | $\$ 7,285,470$ | 92 | $\$ 8,650,274$ |

## RETIRED MEMBERS AND BENEFICIARIES

| Group | 2002 |  |  | 2001 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Annual Allowances |  | Number | Annual Allowances |  |
| Service Retirements | 1,486 | \$ | 62,798,563 | 1,451 | \$ | 59,219,991 |
| Ordinary Disability Retirements | 83 | \$ | 1,900,616 | 80 | \$ | 1,700,414 |
| Accidental Disability Retirements | 76 | \$ | 2,680,069 | 69 | \$ | 2,192,649 |
| Beneficiaries of Deceased Pensioners | 241 | \$ | 5,740,750 | 223 | \$ | 5,042,785 |
| Beneficiaries of Deceased Active Employees | 83 | \$ | 2,194,292 | 83 | \$ | 1,796,168 |

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



## THE STATE POLICE RETIREMENT SYSTEM OF NEW JERSEY

## SUMMARY OF RETIRED PARTICIPATION




ANNUAL ALLOWANCES

## SECTION III - ASSETS, LIABILITIES AND CONTRIBUTIONS

## A. Market Value of Assets as of June 30, 2002

1. Assets

| a. | Cash | $\$$ | 20,780 |
| :--- | :--- | ---: | ---: |
| b. | Investment Holdings |  | $1,529,600,374$ |
| c. | Accrued Interest on Investments | $6,738,863$ |  |
| d. | Employers' Contributions Receivable | 0 |  |
| e. | Members' Contributions Receivable | 934,009 |  |
| f. | Loans Receivable |  | $32,160,087$ |
| g. | Dividends Receivable |  | $2,672,280$ |
| h. | Accounts Receivable - Other | 30,203 |  |
| i. | Total | $\$ 1,572,156,596$ |  |

2. Liabilities
a. Pension Payroll Payable

| \$ | $6,360,467$ |
| :--- | ---: |
|  | 494,880 |
| $\$$ | $6,855,347$ |

3. $\quad$ Market Value of Assets as of June 30, 2002: 1(i) - 2(c)
\$ 1,565,301,249
B. Reconciliation of Market Value of Assets from June 30, 2001 to June 30, 2002
4. Market Value of Assets as of June 30, 2001
\$ 1,761,657,628
5. Increases

| a. | Members' Contributions | $\$$ | $13,613,597$ |
| :--- | :--- | ---: | ---: |
| b. | State Appropriations | 0 |  |
| c. | Transfer from Other Systems | 534,467 |  |
| d. | Other | 89 |  |
| e. | Investment Income |  | $(135,318,583)$ |
| f. | Total | $\$(121,170,430)$ |  |

3. Decreases

| a. | Withdrawal of Members | $\$$ | 106,839 |
| :--- | :--- | ---: | ---: |
| b. | NCGI Premium Expense |  | $1,420,692$ |
| c. | Administrative Expenses | 253,999 |  |
| d. | Benefit Payments | $60,822,507$ |  |
| e. | COLA Benefit Payments |  | $12,565,413$ |
| f. | Transfer Withdrawal Employer Benefit | 12,349 |  |
| g. | Adjustment - Members' Account Expense - Loans | 4,150 |  |
|  | Total | $\$$ | $75,185,949$ |

4. Market Value of Assets as of June 30, 2002
$=1 .+2 .(f)-3$.(h)
\$ 1,565,301,249

## C. Development of Actuarial Value of Assets as of July 1, 2002

Chapter 115 P.L. 1997 revalued the actuarial value of plan assets to market for the July 1, 1996 valuation. Beginning with the July 1, 1997 valuation, the five-year average market value with write up was used. 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, 2001 \$ 1,829,414,353
2. Net Cash Flow (excluding investment income)
3. Expected Investment Income at $8.75 \%$
a. Interest on assets as of July 1, 2001
\$ 160,073,756
b. Interest on Net Cash Flow
c. Total\$
4. Expected Actuarial Value of Assets as of July 1, 2002:
5. $+2 .+3$ (c)
6. $20 \%$ of Difference from Market Value of Assets
7. Receivable Employer Contributions
8. Actuarial Value of Assets as of July 1, $2002=4 .+5 .+6$.

## D. Present Value of Projected Benefits as of July 1, 2002

1. Retirees and Beneficiaries

| a. | Service Retirements | \$ | $769,700,994$ |
| :--- | :--- | ---: | ---: |
| b. | Disability Retirements |  | $62,872,512$ |
| c. | Beneficiaries | $73,448,127$ |  |
| d. | Death Benefits | $\mathbf{1 1 , 1 7 3 , 7 1 8}$ |  |
| e. | Total | $\mathbf{\$}$ | $917,195,351$ |

2. Terminated Vested Members
3. Contributing Active Participants

| a. | Service Retirement | $\$$ | $751,949,895$ |
| :--- | :--- | ---: | ---: |
| b. | Ordinary Disability | $18,202,573$ |  |
| c. | Accidental Disability | $15,177,732$ |  |
| d. | Ordinary Death |  | $13,408,281$ |
| e. | Accidental Death | $8,009,445$ |  |
| f. | Vested Termination | $3,681,949$ |  |
| g. | Withdrawal Benefits | 233,175 |  |
| h. | Lump Sum Death Benefits* |  | $7,226,861$ |
| i. | Total | $\$$ | $817,889,911$ |
| Non-Contributing Active Participants | $\$$ | $4,342,477$ |  |
|  |  |  |  |
| Total Present Value of Benefits = 1.(e) + 2. + 3.(i) +4. | $\$$ | $1,739,427,739$ |  |

5. Total Present Value of Benefits $=1 .(\mathrm{e})+2 .+3 .(\mathrm{i})+4$.
\$ 1,739,427,739
*Excludes lump sum death benefits payable during active service.

## E. Development of Excess Valuation Assets

Chapter 115, P.L. 1997 prescribes a procedure for determining the value of excess valuation assets. This law provides for a reduction in the normal contributions for the valuation periods ending June 30, 1996 and June 30, 1997 to the extent possible by the excess valuation assets and permitted the State Treasurer to reduce the normal contribution payable by the State for valuations after June 30, 1997 up to a specified portion of excess valuation assets. The development of excess valuation assets is developed below:

1. Valuation Assets
2. Actuarial Accrued Liability
3. Excess Valuation Assets $=1 .-2$.
F. Development of Normal Cost as of July 1, 2002
4. Service Retirement
5. Ordinary Disability
6. Accidental Disability
7. Ordinary Death
8. Accidental Death
9. Vested Termination
10. Withdrawal Benefits
11. Lump Sum Death Benefits*
12. Term Cost for Lump Sum Death Benefit During Active Service
\$ 43,876,754
13. Total
*Excludes lump sum death benefits payable during active service.

## G. Development of State Contributions

1. Present Value of Benefits
2. Actuarial Value of Assets
3. Unfunded Actuarial Accrued

Liability/(Surplus) $=1 .-2$.
4. Amortization Period
5. Amortization of Unfunded Actuarial

Accrued Liability payable July 1, 2003
6. (a) Gross Normal Cost
(b) Expected Member Contributions
(c) State Normal Cost = (a) - (b)
(d) State Normal Cost payable July 1, 2003 $=(\mathrm{c}) * 1.0875$
(e) Excess Valuation Assets*
(f) State Net Normal Cost payable July 1, 2003 $=(\mathrm{d})-(\mathrm{e})$
7. Total Required Contribution as of July 1, $2003=5$. + 6.(f)
*Excess Valuation Assets are allocated as follows:

1. Excess Valuation Assets (from Section E)
2. Excess Valuation Assets as of July 1, 2003 $=1$. 1.0875
3. Reduction Due to Normal Contribution for the Valuation Period ending June 30, 2002 payable July 1, 2003
4. Net Excess Valuation Assets After Reductions as of July 1, 2003 = 2. - 3.
\$ 1,739,427,739
1,853,684,177
\$ $(114,256,438)$

114,256,438
\$ 124,253,876

83,784,051

## SECTION IV - COMMENTS CONCERNING THE VALUATION

The variation in liabilities and contributions reflects the System's actual experience during the year. The System experienced a net actuarial loss during the year that ended June 30, 2002.

The loss is primarily due to an actual return on Fund assets less than that expected. For valuation purposes, an $8.75 \%$ per annum rate of return was assumed. The actual return on the Fund's actuarial value of assets was approximately $4.74 \%$ for the period from July 1, 2001 through June 30, 2002. There was also a net gain due to experience among the active and the retired participants.

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, 2002

1. Unfunded Accrued Liability/(Surplus) as of July 1, 2001
$\$ \quad(202,782,697)$
2. Gross Normal Cost as of July 1, 2001 46,945,136
3. Interest on (1) and (2) $(13,635,787)$
4. Actual Members’ Contributions Received 13,613,597
5. Employers’ Contributions (including receivable and transfers from other Funds)
6. Interest on Contributions
7. Expected Unfunded Accrued Liability/(Surplus) as of July 1, 2002
$=(1)+(2)+(3)-(4)-(5)-(6)$
8. Increase in Unfunded Liability due to Chapter 350, P.L. 2001
9. Actual Unfunded Accrued Liability as of July 1, 2002
\$
(184,240,390)

4,853,305
$(114,256,438)$
10. $\quad$ Actuarial (Gain)/Loss $=(9)-(7)-(8)$

## B. Components of Actuarial Experience

1. Investment (Gain)/Loss \$ 72,095,732
2. Other (Gain)/Loss, including mortality, changes in employee data
(6,965,085)
3. Total Actuarial (Gain)/Loss
\$ 65,130,647

## 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.

The information required by Statement No. 25 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, 2004:

1. Actuarial Value of Plan Assets as of June 30, 2002
(a) Valuation Assets as of June 30, 2002
(b) Adjustment for Receivable Contributions included in (a)
(c) Valuation Assets as of June 30, 2002 for GASB Disclosure = (a) - (b)
\$ 1,853,684,177
\$ 1,853,684,177
2. Actuarial Accrued Liability as of June 30, 2002
3. Unfunded Actuarial Accrued Liability/(Surplus) as of June 30, 2002= 2. - 1 .
4. Amortization of Unfunded Actuarial Accrued Liability/(Surplus) over 30 years
5. (a) Gross Normal Cost as of June 30, 2002
(b) Expected Members' Contributions
(c) Net Normal Cost as of June 30, 2002
$=$ (a) - (b)
6. Annual Required Contribution as of June 30, 2004
(a) Annual Required Contribution as of June 30, 2002

$$
=4 .+5 .(\mathrm{c})
$$

(b) Interest Adjustment to June 30, 2004
(c) Annual Required Contribution as of June 30, 2004 $=(\mathrm{a})+(\mathrm{b})$

## (B) Development of the Net Pension Obligation (NPO) as of June 30, 2004:

1. Annual Required Contribution as of June 30, 2004
2. Interest on Net Pension Obligation
3. Adjustment to Annual Required Contribution
4. Annual Pension Cost $=1 .+2 .+3$.
5. Expected Employer Contributions for Fiscal Year 2004
6. Net Pension Obligation at June 30, 2003
7. Increase in Net Pension Obligation $=4 .-5$.
8. Net Pension Obligation at June 30, 2004

$$
=6 .+7 .
$$

\$ 37,213,632
\$ 1,739,427,739
\$ $(114,256,438)$
\$ $(5,420,099)$
\$ 50,716,839
$13,503,207$

## (C) Schedule of Funding Progress

| Actuarial Valuation Date | Actuarial Value of Assets <br> (a) | Actuarial <br> Accrued <br> Liability <br> (b) | Unfunded Actuarial Accrued Liability (b-a) | Funded Ratio (a/b) | Covered Payroll (c) | Unfunded Actuarial Accrued Liability as a Percentage of Covered Payroll $\frac{(b-a)}{\text { c }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/30/97 | \$ 1,322,406,703 | \$ 1,272,242,451 | \$ (50,164,252) | 103.9\% | \$ 142,636,260 | (35.2)\% |
| 6/30/98 | \$ 1,458,600,992 | \$ 1,369,277,968 | \$ (89,323,024) | 106.5\% | \$ 167,145,161 | (53.4)\% |
| 6/30/99 | \$ 1,600,165,104 | \$ 1,469,144,146 | \$ (131,020,958) | 108.9\% | \$ 178,203,420 | (73.5)\% |
| 6/30/00 | \$ 1,752,423,441 | \$ 1,512,909,805 | \$ (239,513,636) | 115.8\% | \$ 188,466,237 | (127.1)\% |
| 6/30/01 | \$ 1,829,414,353 | \$ 1,626,631,656 | \$ (202,782,697) | 112.5\% | \$ 199,727,203 | (101.5)\% |
| 6/30/02 | \$ 1,853,684,177 | \$ 1,739,427,739 | \$ $(114,256,438)$ | 106.6\% | \$ 215,161,126 | (53.1)\% |

## (D) Schedule of Employer Contributions

| Fiscal Year | Annual Required <br> Contribution | Employer <br> Contribution | Percentage <br> Contributed |
| :---: | :---: | :---: | :---: |
| 1999 | $\$$ | $33,116,255$ | $\$$ |
| 0 |  |  |  |
| 2000 | $\$$ | $33,598,843$ | $\$$ |
| $0.0 \%$ |  |  |  |
| 2001 | $\$$ | $35,341,259$ | $\$$ |
| 0 | 0 | $0.0 \%$ |  |
| 2002 | $\$$ | $24,990,652$ | $\$$ |
| 2003 | $\$$ | $29,449,164$ | $\$$ |
| 2004 | $\$$ | $37,600,821$ | $\$$ |

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

Valuation Date
Actuarial Cost Method
Amortization Method
Remaining Amortization Period
Asset Valuation Method
Actuarial Assumptions: Investment Rate of Return
Projected Salary Increase
Cost of Living Adjustments

June 30, 2002
Projected Unit Credit
Level Dollar, closed
30 years
Five Year Average of Market Value
8.75\%
5.95\%
$60 \%$ of the maximum of the
CPI increase and 4.0\%

## 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 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Actuarial present value of accumulated benefits: |  |  |  |  |
|  |  |  |  |  |
| Vested benefits |  |  |  |  |
| Participants currently $\$$ $917,195,351$ $\$$ |  |  |  |  |
| Other participants |  | 424,950,307 |  | 371,481,371 |
|  | \$ | 1,342,145,658 | \$ | 1,227,607,667 |
| Non-vested benefits |  | 397,529,673 |  | 375,171,557 |
| Total | \$ | 1,739,675,331 | \$ | 1,602,779,224 |
| Assets at market value | \$ | 1,565,301,249 | \$ | 1,761,657,628 |
| Ratio of Assets to Total Present Value |  | 90.0\% |  | 109.9\% |

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 $8.75 \%$ for both 2001 and 2002.

## 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
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 Benefits
Before Retirement
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 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. 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 or remarriage. If there is no surviving spouse, or upon death or remarriage, 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.

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 $4 \%$ per annum.

## APPENDIX B OUTLINE OF ACTUARIAL ASSUMPTIONS AND METHODS

VALUATION INTEREST RATE: $8.75 \%$ per annum, compounded annually.
COLA: $4.0 \%$ per annum, compounded annually. The COLA is $60 \%$ of the cumulative increase.
SALARY INCREASES: Salaries are assumed to increase by $5.95 \%$ per year.
TERMINATION: Withdrawal rates vary by length of service. Illustrative rates are shown below:

|  | Lives per Thousand <br> Age |  |
| :---: | :---: | :---: |
| 25 | $\underline{5 \text { Years of Service }}$Less Than | Five to Nineteen <br> Years of Service |
| 30 | 8.3 | 4.0 |
| 35 | 11.0 | 4.0 |
| 40 | 11.0 | 4.0 |
| 45 | 11.0 | 4.0 |
| 50 | 11.0 | 4.0 |
| 11.0 | 4.0 |  |

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

| Age | Annual Rates of * |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Ordinary Death | Accidental Death | Ordinary <br> Disability | Accidental |
| 25 | 0.6 | 0.4 | 0.6 | 0.3 |
| 30 | 0.7 | 0.5 | 0.9 | 0.4 |
| 35 | 1.0 | 0.5 | 1.2 | 0.5 |
| 40 | 1.4 | 0.5 | 1.8 | 0.7 |
| 45 | 1.8 | 0.6 | 3.1 | 1.3 |
| 50 | 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 or number of children assumptions are individually explicit but they 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).

HEALTH INSURANCE BENEFITS: Retiree Health Insurance benefits are funded by the State on a pay-as-you-go basis and are not included in the actuarial valuation.

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

Retired Members

| Age | Males | Females |
| :---: | ---: | :---: |
| 55 | 6.1 | 2.5 |
| 60 | 9.2 | 4.2 |
| 65 | 15.6 | 7.1 |
| 70 | 27.5 | 12.4 |
| 75 | 44.6 | 24.0 |
| 80 | 74.1 | 42.9 |
| 85 | 114.8 | 69.9 |
| 90 | 166.3 | 111.8 |

Deceased Members

| Males | Females |  | and Females |
| ---: | :---: | :---: | :---: |
| 6.1 | 2.5 | 9.6 |  |
| 9.2 | 4.2 | 13.6 |  |
| 15.6 | 7.1 | 19.8 |  |
| 27.5 | 12.4 | 29.5 |  |
| 44.6 | 28.8 | 44.5 |  |
| 74.1 | 51.5 | 67.3 |  |
| 114.8 | 83.9 | 101.1 |  |
| 166.3 | 134.1 | 149.4 |  |

RATES OF RETIREMENT: Rates of retirement vary by length of service and age (if more than 25 years of service) with $100 \%$ of those remaining at age 55 retiring at age 55 . The rates are shown below:

Service
20
21
22
23
24
25
greater than 25:
$\begin{array}{lr}\text { (a) through age } 47 & 5 \\ \text { (b) ages 48-52 } & 15 \\ \text { (c) ages 53-54 } & 22\end{array}$

## APPENDIX C

## TABULATIONS USED AS A BASIS FOR THE 2002 VALUATION

The following tables give a reconciliation of data from July 1, 2001 to June 30, 2002. Tables are also given showing active member number and salaries by age and length of service as of July 1, 2002 and showing the number and retirement allowances of beneficiaries classified by age as of July 1, 2002.

TABLE 1
RECONCILIATION OF DATA FROM JULY 1, 2001 TO JUNE 30, 2002

|  | Actives |  | Deferred Vested | Retirees |  |  |  | Beneficiaries | Dependents | Domestic Relations Beneficiaries |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Contrib. | Noncontrib. |  | Servic e | Special | Deferred | Disabled |  |  | Retirees | Disabilities |  |
| Members as of July 1, 2001 | 2,649 | 26 | 0 | 507 | 897 | 1 | 130 | 298 | 8 | 46 | 19 | 4,581 |
| Changed to Contributing | 3 | (3) |  |  |  |  |  |  |  |  |  |  |
| Changed to Noncontributing | (6) | 6 |  |  |  |  |  |  |  |  |  |  |
| Terminated Vested |  |  |  |  |  |  |  |  |  |  |  |  |
| Terminated Non-Vested | (5) | (1) |  |  |  |  |  |  |  |  |  | (6) |
| Service Retirement | (6) |  |  | 6 |  |  |  |  |  |  |  |  |
| Special Retirement | (49) |  |  |  | 49 |  |  |  |  |  |  |  |
| New Disabled | (14) | (1) |  |  |  |  | 15 |  |  |  |  |  |
| New Death | (3) |  |  | (19) | (11) |  | (3) | (9) |  |  |  | (45) |
| Payments Began |  |  |  |  |  |  |  |  |  | 15 |  | 15 |
| Payments Ceased |  |  |  |  |  |  |  |  | (1) | (5) | (2) | (8) |
| New Actives | 196 | 1 |  |  |  |  |  |  |  |  |  | 197 |
| Rehires |  |  |  |  |  |  |  |  |  |  |  |  |
| New Beneficiaries |  |  |  |  |  |  |  | 28 |  |  |  | 28 |
| Data Corrections |  |  |  |  |  |  |  |  |  |  |  |  |
| Members as of June 30, 2002 | 2,765 | 28 | 0 | 494 | 935 | 1 | 142 | 317 | 7 | 56 | 17 | 4,762 |

TABLE 2
DISTRIBUTION OF ACTIVE MEMBERS BY AGE AND SERVICE

| AGE | SERVICE | 1 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | TOTAL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Number Salary | $\begin{array}{r} 9 \\ 478,024 \\ \hline \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 9 \\ 478,024 \\ \hline \end{array}$ |
| 25 | Number Salary | $\begin{array}{r} 176 \\ 9,450,439 \\ \hline \end{array}$ | $\begin{array}{r} 18 \\ 1,106,870 \\ \hline \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 194 \\ 10,557,309 \\ \hline \end{array}$ |
| 30 | Number Salary | $\begin{array}{r} 125 \\ 6,737,434 \\ \hline \end{array}$ | $\begin{array}{r} 305 \\ 20,338,539 \\ \hline \end{array}$ | $\begin{array}{r} 10 \\ 668,552 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ 67,756 \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 441 \\ 27,812,281 \\ \hline \end{array}$ |
| 35 | Number Salary | $\begin{array}{r} 32 \\ 1,732,291 \\ \hline \end{array}$ | $\begin{array}{r} 181 \\ 12,653,219 \\ \hline \end{array}$ | $\begin{array}{r} 81 \\ 6,069,709 \end{array}$ | $\begin{array}{r} 345 \\ 27,459,474 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ 162,891 \end{array}$ |  |  |  | $\begin{array}{r} 641 \\ 48,077,584 \\ \hline \end{array}$ |
| 40 | Number Salary | $\begin{array}{r} 1 \\ 30,615 \\ \hline \end{array}$ | $\begin{array}{r} 26 \\ 1,875,392 \end{array}$ | $\begin{array}{r} 31 \\ 2,344,310 \\ \hline \end{array}$ | $\begin{array}{r} 514 \\ 41,377,634 \\ \hline \end{array}$ | $\begin{array}{r} 157 \\ 13,457,911 \\ \hline \end{array}$ | $\begin{array}{r} 1 \\ 67,756 \\ \hline \end{array}$ |  |  | $\begin{array}{r} 730 \\ 59,153,618 \\ \hline \end{array}$ |
| 45 | Number Salary |  | $\begin{array}{r} 1 \\ 74,933 \\ \hline \end{array}$ | $\begin{array}{r} 3 \\ 179,177 \\ \hline \end{array}$ | $\begin{array}{r} 103 \\ 8,389,096 \end{array}$ | $\begin{array}{r} 251 \\ 21,838,456 \\ \hline \end{array}$ | $\begin{array}{r} 111 \\ 10,199,629 \end{array}$ |  |  | $\begin{array}{r} 469 \\ 40,681,291 \\ \hline \end{array}$ |
| 50 | Number <br> Salary |  |  | $\begin{array}{r} 1 \\ 35,105 \\ \hline \end{array}$ | $\begin{array}{r} 9 \\ 634,441 \\ \hline \end{array}$ | $\begin{array}{r} 45 \\ 3,801,426 \\ \hline \end{array}$ | $\begin{array}{r} 144 \\ 13,417,458 \\ \hline \end{array}$ | $\begin{array}{r} 43 \\ 4,310,504 \\ \hline \end{array}$ |  | $\begin{array}{r} 242 \\ 22,198,934 \\ \hline \end{array}$ |
| 55 | Number <br> Salary |  |  |  | $\begin{array}{r} 1 \\ 67,756 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ 563,684 \\ \hline \end{array}$ | $\begin{array}{r} 28 \\ 2,503,521 \\ \hline \end{array}$ | $\begin{array}{r} 29 \\ 32,883,640 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ 183,484 \\ \hline \end{array}$ | $\begin{array}{r} 67 \\ 36,202,085 \\ \hline \end{array}$ |
| TOTAL | Number Salary | $\begin{array}{r} 343 \\ 18,428,803 \\ \hline \end{array}$ | $\begin{array}{r} 531 \\ 36,048,953 \\ \hline \end{array}$ | $\begin{array}{r} 126 \\ 9,296,853 \\ \hline \end{array}$ | $\begin{array}{r} 973 \\ 77,996,157 \\ \hline \end{array}$ | $\begin{array}{\|r} 462 \\ 39,824,368 \\ \hline \end{array}$ | $\begin{array}{r} 284 \\ 26,188,364 \\ \hline \end{array}$ | $\begin{array}{r} 72 \\ 37,194,144 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ 183,484 \end{array}$ | $\begin{array}{r} 2,793 \\ 215,161,126 \end{array}$ |

TABLE 3

## THE NUMBER AND ANNUAL COMPENSATION OF <br> ACTIVE MEMBERS DISTRIBUTED BY AGE <br> AS OF JULY 1, 2002

MEN

| AGE | NUMBER |  | AMOUNT | NUMBER |  | AMOUNT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22 | 2 | \$ | 105,758 |  |  |  |
| 23 | 16 |  | 848,176 | 1 | \$ | 52,879 |
| 24 | 35 |  | 1,863,445 | 1 |  | 54,993 |
| 25 | 36 |  | 1,929,008 | 1 |  | 54,993 |
| 26 | 35 |  | 1,901,549 | 1 |  | 54,993 |
| 27 | 54 |  | 2,984,831 | 1 |  | 63,501 |
| 28 | 52 |  | 2,953,427 | 3 |  | 169,259 |
| 29 | 63 |  | 3,675,301 | 2 |  | 120,609 |
| 30 | 80 |  | 4,907,726 | 2 |  | 122,749 |
| 31 | 89 |  | 5,701,005 | 7 |  | 459,569 |
| 32 | 101 |  | 6,673,208 | 7 |  | 450,278 |
| 33 | 86 |  | 5,815,397 | 2 |  | 120,609 |
| 34 | 88 |  | 6,127,331 | 2 |  | 118,495 |
| 35 | 104 |  | 7,540,886 | 5 |  | 338,856 |
| 36 | 146 |  | 11,099,297 | 4 |  | 286,371 |
| 37 | 159 |  | 12,522,905 | 7 |  | 514,902 |
| 38 | 192 |  | 15,175,538 | 5 |  | 388,891 |
| 39 | 175 |  | 13,965,610 | 9 |  | 712,480 |
| 40 | 147 |  | 11,951,812 | 6 |  | 467,191 |
| 41 | 129 |  | 10,547,021 | 6 |  | 492,717 |
| 42 | 82 |  | 6,699,660 | 4 |  | 342,355 |
| 43 | 115 |  | 9,663,562 | 5 |  | 445,501 |
| 44 | 95 |  | 8,077,846 | 1 |  | 91,455 |
| 45 | 101 |  | 8,711,082 | 6 |  | 554,470 |
| 46 | 94 |  | 8,220,978 | 2 |  | 196,873 |
| 47 | 66 |  | 5,796,072 | 3 |  | 250,979 |
| 48 | 83 |  | 7,485,823 | 3 |  | 276,895 |
| 49 | 46 |  | 4,176,929 |  |  |  |
| 50 | 55 |  | 5,155,025 |  |  |  |
| 51 | 53 |  | 4,669,280 |  |  |  |
| 52 | 36 |  | 3,408,722 |  |  |  |
| 53 | 35 |  | 3,330,891 | 1 |  | 82,607 |
| 54 | 26 |  | 2,293,077 |  |  |  |
| 55 | 19 |  | 1,827,606 |  |  |  |
| 57 | 1 |  | 69,870 |  |  |  |
| TOTAL | 2,696 | \$ | 207,875,656 | 97 | \$ | 7,285,470 |

Of the 2,793 active members included in the June 30, 2002 valuation data, 1,825 are vested and 968 have not yet completed the vesting service requirement.

TABLE 4
THE NUMBER AND ANNUAL COMPENSATION OF ACTIVE MEMBERS DISTRIBUTED BY SERVICE AS OF JULY 1, 2002


Of the 2,793 active members included in the June 30, 2002 valuation data, 1,825 are vested and 968 have not yet completed the vesting service requirement.

TABLE 5

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2002

SERVICE RETIREMENTS

|  | MEN |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER | AMOUNT | NUMBER |  | MOUNT |
| 44 |  |  | 2 | \$ | 55,454 |
| 45 | 1 | \$ 41,476 |  |  |  |
| 47 |  |  | 1 |  | 18,745 |
| 48 | 6 | 315,296 | 1 |  | 24,925 |
| 49 | 8 | 459,592 | 1 |  | 15,279 |
| 50 | 8 | 437,451 |  |  |  |
| 51 | 20 | 1,059,575 | 2 |  | 9,650 |
| 52 | 16 | 895,136 | 1 |  | 10,323 |
| 53 | 37 | 2,020,571 | 3 |  | 50,325 |
| 54 | 44 | 2,353,338 | 1 |  | 18,000 |
| 55 | 75 | 4,105,336 | 11 |  | 200,000 |
| 56 | 98 | 5,211,207 | 8 |  | 136,832 |
| 57 | 75 | 3,807,443 | 9 |  | 168,169 |
| 58 | 73 | 3,559,717 | 1 |  | 16,049 |
| 59 | 95 | 4,637,315 | 5 |  | 51,149 |
| 60 | 90 | 4,143,745 | 1 |  | 9,954 |
| 61 | 95 | 4,255,809 | 3 |  | 47,447 |
| 62 | 62 | 2,791,295 |  |  |  |
| 63 | 48 | 2,140,138 | 1 |  | 9,626 |
| 64 | 53 | 2,232,285 | 2 |  | 33,930 |
| 65 | 32 | 1,371,031 |  |  |  |
| 66 | 31 | 1,179,101 | 1 |  | 2,600 |
| 67 | 26 | 1,067,587 | 1 |  | 2,400 |
| 68 | 21 | 872,587 | 2 |  | 26,368 |
| 69 | 18 | 662,420 | 1 |  | 4,872 |
| 70 | 32 | 1,244,236 | 1 |  | 21,679 |
| 71 | 41 | 1,532,024 |  |  |  |
| 72 | 38 | 1,233,613 |  |  |  |
| 73 | 36 | 1,189,179 |  |  |  |
| 74 | 49 | 1,770,005 |  |  |  |
| 75 | 36 | 1,032,466 |  |  |  |
| 76 | 32 | 853,983 | 1 |  | 12,708 |
| 77 | 28 | 777,255 |  |  |  |
| 78 | 24 | 633,597 |  |  |  |
| 79 | 15 | 395,920 |  |  |  |
| 80 | 12 | 282,947 |  |  |  |
| 81 | 14 | 380,841 |  |  |  |
| 82 | 6 | 165,291 |  |  |  |
| 83 | 8 | 205,529 |  |  |  |
| 84 | 5 | 115,507 |  |  |  |
| 85 | 6 | 171,789 |  |  |  |
| 86 | 1 | 21,893 |  |  |  |
| 87 | 2 | 42,285 |  |  |  |
| 88 | 1 | 24,419 |  |  |  |
| 89 | 1 | 21,129 |  |  |  |
| 90 | 3 | 58,124 |  |  |  |
| 92 | 2 | 42,977 |  |  |  |
| 96 | 2 | 37,620 |  |  |  |
| TOTAL | 1,426 | \$ 61,852,080 | 60 | \$ | 946,483 |

THE NUMBER AND ANNUAL RETIREMENT
ALLOWANCES OF BENEFICIARIES DISTRIBUTED
BY AGE AS OF JULY 1, 2002
BENEFICIARIES OF DECEASED PENSIONERS

|  |  | MEN |  |  | WOMEN |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| AGE | NUMBER | AMOUNT |  |  |  |  |

# THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED <br> BY AGE AS OF JULY 1, 2002 

## BENEFICIARIES OF DECEASED ACTIVE EMPLOYEES

|  | MEN |  |  |
| :---: | :---: | :---: | ---: |
| AGE |  | WOMEN |  |
|  | NUMBER | AMOUNT | NUMBER | AMOUNT

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF BENEFICIARIES DISTRIBUTED BY AGE AS OF JULY 1, 2002

## CHILDREN OF DECEASED ACTIVE EMPLOYEES

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER | AMOUNT |  | NUMBER | AMOUNT |  |
| 10 |  |  |  | 1 | \$ | 11,497 |
| 12 | 1 | \$ | 13,476 |  |  |  |
| 14 |  |  |  | 1 |  | 11,497 |
| 17 | 1 |  | 13,476 | 1 |  | 11,497 |
| TOTAL | 2 | \$ | 26,952 | 3 | \$ | 34,491 |

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2002

ORDINARY DISABILITY RETIREMENTS

MEN

| AGE | NUMBER |  | AMOUNT | NUMBER | AMOUNT |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 33 | 1 | \$ | 27,127 |  |  |  |
| 34 | 2 |  | 43,672 |  |  |  |
| 35 | 1 |  | 30,960 |  |  |  |
| 36 | 1 |  | 30,827 |  |  |  |
| 37 | 4 |  | 98,666 |  |  |  |
| 38 | 1 |  | 13,513 | 1 | \$ | 10,868 |
| 39 | 2 |  | 60,136 | 2 |  | 34,695 |
| 40 | 1 |  | 27,587 |  |  |  |
| 41 | 2 |  | 58,733 | 1 |  | 27,591 |
| 42 |  |  |  | 1 |  | 15,876 |
| 43 | 2 |  | 67,296 | 2 |  | 57,190 |
| 45 | 2 |  | 69,433 |  |  |  |
| 46 | 3 |  | 76,239 | 1 |  | 4,218 |
| 49 | 1 |  | 25,785 |  |  |  |
| 50 | 2 |  | 72,354 |  |  |  |
| 51 | 2 |  | 20,775 | 2 |  | 11,501 |
| 52 | 1 |  | 22,786 | 1 |  | 19,056 |
| 53 | 1 |  | 44,405 |  |  |  |
| 54 | 1 |  | 21,173 |  |  |  |
| 55 | 6 |  | 181,388 | 1 |  | 28,395 |
| 57 | 3 |  | 73,459 |  |  |  |
| 58 | 2 |  | 44,454 | 2 |  | 20,899 |
| 59 | 2 |  | 42,975 |  |  |  |
| 60 | 4 |  | 95,303 | 1 |  | 7,280 |
| 61 | 2 |  | 33,548 |  |  |  |
| 62 | 5 |  | 103,834 |  |  |  |
| 63 | 2 |  | 64,974 |  |  |  |
| 64 | 4 |  | 80,656 |  |  |  |
| 65 | 2 |  | 30,879 |  |  |  |
| 74 | 2 |  | 33,090 |  |  |  |
| 75 | 1 |  | 18,426 |  |  |  |
| 76 | 1 |  | 15,070 |  |  |  |
| 77 | 2 |  | 33,526 |  |  |  |
| TOTAL | 68 | \$ | 1,663,047 | 15 | \$ | 237,569 |

THE NUMBER AND ANNUAL RETIREMENT ALLOWANCES OF RETIRED MEMBERS DISTRIBUTED BY AGE AS OF JULY 1, 2002

## ACCIDENTAL DISABILITY RETIREMENTS

|  | MEN |  |  | WOMEN |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AGE | NUMBER |  | AMOUNT | NUMBER |  | MOUNT |
| 34 | 1 | \$ | 43,836 |  |  |  |
| 35 | 4 |  | 193,825 |  |  |  |
| 37 | 2 |  | 100,869 |  |  |  |
| 38 | 3 |  | 118,269 | 1 | \$ | 4,784 |
| 39 | 1 |  | 46,132 |  |  |  |
| 40 | 4 |  | 197,436 |  |  |  |
| 41 | 5 |  | 182,244 | 3 |  | 30,742 |
| 42 | 2 |  | 79,270 | 1 |  | 35,836 |
| 44 | 2 |  | 84,267 | 1 |  | 27,046 |
| 45 | 1 |  | 47,842 | 1 |  | 50,523 |
| 46 | 4 |  | 166,903 |  |  |  |
| 48 | 2 |  | 97,283 |  |  |  |
| 50 | 3 |  | 130,427 |  |  |  |
| 52 | 2 |  | 94,435 | 1 |  | 45,069 |
| 55 | 1 |  | 42,642 | 1 |  | 2,600 |
| 56 | 2 |  | 39,675 | 2 |  | 16,560 |
| 57 | 2 |  | 96,163 | 1 |  | 17,838 |
| 58 | 3 |  | 92,064 |  |  |  |
| 59 | 1 |  | 23,757 |  |  |  |
| 60 | 5 |  | 136,864 |  |  |  |
| 61 | 1 |  | 22,512 |  |  |  |
| 62 | 2 |  | 66,364 |  |  |  |
| 63 | 3 |  | 89,604 |  |  |  |
| 64 | 1 |  | 39,168 |  |  |  |
| 65 | 1 |  | 44,264 |  |  |  |
| 71 | 1 |  | 24,512 |  |  |  |
| 76 | 1 |  | 35,545 |  |  |  |
| 77 | 2 |  | 62,946 |  |  |  |
| 81 | 1 |  | 28,517 |  |  |  |
| 89 |  |  |  | 1 |  | 21,434 |
| TOTAL | 63 | \$ | 2,427,637 | 13 | \$ | 252,432 |

