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# CONDUENT 

February 3, 2017

Board of Trustees
The Police and Firemen's Retirement System
of New Jersey
Trenton, New Jersey

Members of the Board:

The law governing the operation of the Police and Firemen's Retirement System of New Jersey provides for annual actuarial valuations of the System. The results of the July 1, 2016 valuation are submitted in this report, which also includes a comparison with the preceding year's valuation.

The valuation provides information concerning the financial condition of the Plan as of July 1, 2016, and sets forth the basis for determining the recommended annual contribution for the State fiscal year beginning July 1, 2017.

As required under Chapter 255, P.L. 1944, experience studies are performed once in every three year period. The valuation was prepared using the demographic assumptions recommended on the basis of the July 1, 2010 - June 30, 2013 Experience Study and approved by the Board of Trustees at the February 9, 2015 Board meeting. These assumptions will be reviewed in a June 30, 2016 experience study and will remain in effect for valuation purposes until such time as the Board of Trustees adopts revised assumptions.

The Treasurer has recommended a change in the economic assumptions used for the valuation. The rate of investment return has been revised from 7.90\% per annum to $7.65 \%$ per annum. The assumed future salary increases have been reduced by $0.5 \%$ at all ages for both the select and ultimate periods. In addition, the select period was extended from the fiscal year 2021 to the fiscal year 2026. Detailed information with regard to the change in the salary increase assumption is outlined in Appendix B. These assumptions will remain in effect for valuation purposes until such time the Board or Treasurer recommends revised assumptions.

In my opinion, the actuarial assumptions used are appropriate for purposes of the valuation and are reasonably related to the experience of the System and to reasonable long-term expectations. These assumptions were selected in accordance with the applicable Actuarial Standards of Practice published by the Actuarial Standards Board.

The valuation reflects the actual fiscal year 2016 State Pension contribution of $\$ 138,324,000$. In addition, the valuation also reflects the anticipated fiscal year 2017 State Pension contribution of $\$ 193,550,939$. This amount may be subject to change per the requirements of the State's fiscal year 2017 spending plan.

## CONDUENT

Reporting requirements of Statements No. 67 and No. 68 are effective as of June 30, 2014 and June 30, 2015 reporting dates, respectively. These requirements are addressed in separate reports.

The State of New Jersey's Division of Pensions and Benefits reported the individual data for members of the Police and Firemen's Retirement System of New Jersey as of the valuation date for use in the preparation of this report. While we did not verify the data at their source, we did perform tests for internal consistency and reasonableness. The amount of assets in the trust fund taken into account in the valuation was based on statements prepared for us by the Division of Pensions and Benefits. The accuracy of the results presented in this report is dependent on the accuracy of the data.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. Any Statements regarding funded ratios have no specific relevance to any funded position that might be determined in the event a settlement is contemplated. An analysis of the potential range of future results is beyond the scope of this valuation.

Use of this report for any other reason or by anyone other than the Board or staff of the State of New Jersey's Division of Pensions and Benefits may not be appropriate and may result in mistaken conclusions because of failure to understand applicable assumptions, methods, or inapplicability of the report for that purpose. You should ask Conduent to review any statement you wish to make on the results contained in this report. Conduent will accept no liability for any such statement made without prior review by Conduent.

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

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

Respectfully submitted,


Aaron Shapiro, FSA, EA, MAAA
Principal, Consulting Actuary
Conduent

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## Section I - Summary of Key Results

The Police and Firemen's Retirement System of New Jersey was established effective July 1, 1944. Each year an actuarial valuation of the assets and liabilities of the System is made to determine the appropriate level of contributions. This report, prepared as of July 1, 2016, 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 below.

| Valuation Fiscal Year |  | $\begin{gathered} \text { July 1, } 2016 \\ 2018 \end{gathered}$ |  | July 1, 2015 2017 |
| :---: | :---: | :---: | :---: | :---: |
| Number of Active Participants |  |  |  |  |
| - Contributory |  | $\begin{array}{r} 39,389 \\ 1,400 \\ \hline \end{array}$ |  | $\begin{array}{r} 39,052 \\ 1,307 \\ \hline \end{array}$ |
| - Total |  | 40,789 |  | 40,359 |
| Limited Annual Compensation |  |  |  |  |
| - Contributory Participants | \$ | $\begin{array}{r} 3,729,156,464 \\ 99,367,896 \\ \hline \end{array}$ | \$ | $\begin{array}{r} 3,696,334,469 \\ 94,313,880 \\ \hline \end{array}$ |
| - Total Compensation | \$ | 3,828,524,360 | \$ | 3,790,648,349 |
| Unlimited Annual Compensation | \$ | 3,828,784,360 | \$ | 3,790,724,117 |
| Annual Compensation for Contribution Purposes ${ }^{4}$ | \$ | 3,726,807,562 | \$ | 3,695,509,355 |
| Number of Pensioners and Beneficiaries |  | 45,625 |  | 44,252 |
| Total Annual Allowances | \$ | 2,315,888,032 | \$ | 2,209,791,511 |
| Number of Terminated Vested Members |  | 47 |  | 51 |
| Total Annual Allowances | \$ | 971,076 | \$ | 1,028,508 |
| Assets |  |  |  |  |
| Total Present Market Value of Assets ${ }^{1}$ | \$ | 24,115,866,878 | \$ | 25,191,023,757 |
| Total Valuation Assets ${ }^{1}$ | \$ | 26,348,593,227 | \$ | 25,939,616,259 |
| Contribution Amounts |  |  |  |  |
| Recommended Pension Contribution ${ }^{2}$ |  |  |  |  |
| Normal Contribution ${ }^{3}$ | \$ | 396,618,198 | \$ | 402,691,551 |
| Accrued Liability Contribution ${ }^{3}$ |  | 955,612,499 |  | 860,931,185 |
| Total Pension Contribution ${ }^{2}$ | \$ | 1,352,230,697 | \$ | 1,263,622,736 |

1. Includes discounted receivable contributions of $\$ 179,796,506$ as of July 1,2016 and $\$ 128,196,770$ as of July 1, 2015, respectively. The amounts also include the present value of receivable ERI contributions of $\$ 11,404,276$ as of July 1, 2016 and $\$ 12,887,608$ as of July 1 , 2015, respectively. The amounts also include the present value of Chapter 19, P.L. 2009 contribution deferrals of $\$ 151,610,930$ as of July 1, 2016 and of $\$ 159,321,982$ as of July 1, 2015, respectively.
2. The contribution amounts were calculated assuming payment on $7 / 1 / 17$ and $7 / 1 / 16$ respectively. Interest should be added from this date to the actual payment dates.
3. The accrued liability contribution does not include ERI payments and Local employer contributions due to Chapter 19, P.L. 2009 deferrals.
4. The amounts exclude compensation of $\$ 2,348,902$ for 17 contributing active members in 2016 who are age 65 or older and $\$ 825,114$ for 8 contributing active members in 2015 who are age 65 or older.

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

- The Appropriation Act of fiscal year 2016 which reduced the recommended State Pension contribution of $\$ 461,081,051$ to $\$ 138,324,000$. (This amount excludes the premium paid to the Non-Contributory Group Insurance Fund of $\$ 7,930,178$ for the lump sum death benefits.)
- The potential impact of the Appropriations Act of fiscal year 2017 which allows the State Treasurer to reduce the recommended State normal cost and accrued liability contribution for fiscal year 2017 from $\$ 483,877,347$ to $\$ 193,550,939$. Therefore, the fiscal year 2017 recommended State pension contribution of $\$ 483,877,347$ has been reduced to $\$ 193,550,939$ ( $40 \%$ of the recommended employer contribution) and has been recognized as a receivable discounted contribution of \$179,796,506 for purposes of this valuation. (This amount excludes the estimated premium paid to the Non-Contributory Group Insurance Fund of $\$ 8,893,000$ for lump sum death benefits.)
- Chapter 19, P.L. 2009 which provides that the State Treasurer will reduce the normal and accrued liability contributions for Local employers to 50 percent of the amount certified for fiscal year 2009. The additional unfunded liability will be paid by Local employers in level annual payments over a period of 15 years, with the first payment due in the fiscal year ending June 30, 2012. The unfunded liability will be adjusted annually by the rate of return on the actuarial value of assets. The legislation also provides that a Local employer may opt to pay 100 percent of the recommended contribution for fiscal year 2009. Employers making this election will be credited with the full payment. In addition, certain employers who were eligible to defer $50 \%$ of their fiscal year 2009 recommended contributions but instead paid $100 \%$ of the 2009 recommended contributions are permitted to elect to defer $50 \%$ of their recommended 2010 fiscal year contributions. The additional unfunded liability will be paid by Local employers in level annual payments over a period of 15 years, with the first payment due in the fiscal year ending June 30, 2012. The unfunded liability will be adjusted by the rate of return on the actuarial value of assets.
- The unauthorized early retirement incentive programs offered by certain Local employers. The additional liability incurred by the System due to these programs is included as a receivable contribution. Two locations paid off the additional liability during the fiscal year ending June 30, 2016.

There are no other changes to the benefit and contribution provisions since the previous valuation.
As required under Chapter 255, P.L. 1944, experience studies are performed once in every three year period. The valuation was prepared using demographic assumptions recommended on the basis of the July 1, 2010 - June 30, 2013 Experience Study and approved by the Board at the February 9, 2015 Board meeting. These assumptions will be reviewed in a June 30, 2016 experience study and will remain in effect for valuation purposes until such time as the Board of Trustees adopts revised assumptions.

The Treasurer has recommended a change in the economic assumptions used for the valuation. The rate of investment return has been revised from $7.90 \%$ per annum to $7.65 \%$ per annum. The assumed future salary increases have been reduced by $0.5 \%$ at all ages for both the select and ultimate periods. In addition, the select period was extended from the fiscal year 2021 to the fiscal year 2026. Please see Appendix B for more information with regard to the change in the salary increase assumption. As a result of the revised economic assumptions, the accrued liability increased $\$ 50,220,658$ for the State and $\$ 381,998,273$ for the Local Employers while the gross normal cost was reduced by $\$ 2,465,975$ for the State and $\$ 11,832,521$ for the Local Employers. In addition, the recommended contributions decreased $\$ 6,909,000$ for the State and increased $\$ 5,789,000$ for the Local Employers. These assumptions will remain in effect for valuation purposes until such time as the Board or the Treasurer recommends revised economic assumptions.

The valuation reflects future increases in the compensation limits imposed on certain member tiers. For members hired prior to May 22, 2010, the compensation limit for 2016 is $\$ 265,000$ and is assumed to increase by $3.00 \%$ annually. For members hired on or after May 22, 2010, the compensation limit for 2016 is $\$ 118,500$ and is assumed to increase by $4.0 \%$ annually.

Lastly, the employer receivable contribution included in the Market Value of Assets (MVA) and the Actuarial Value of Assets (AVA) has been discounted at the valuation interest rate of $7.65 \%$ from the expected payable date of June 30, 2017 to the valuation date for the State's MVA and AVA and from the expected payable date of April 1, 2017 to the valuation date for the Local's MVA and AVA.

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

The combination of the plan provisions, actuarial assumptions and member and beneficiary data is used to generate the overall recommended level of employer contributions. The recommended contribution schedule is summarized in Sections III (H) and III (I).

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, 2016 and July 1, 2015 is set forth in the following table.

## Table I

Comparative Balance Sheet

|  |  | 2016 | 2015 |
| :---: | :---: | :---: | :---: |
| Assets |  |  |  |
| Actuarial value of assets of Fund | \$ | 26,348,593,227 | \$ 25,939,616,259 |
| Net unfunded accrued liability/(surplus) |  | 11,121,488,023 | 9,782,787,209 |
| Total Assets | \$ | 37,470,081,250 | \$ 35,722,403,468 |
| Accrued Liabilities |  |  |  |
| Present value of benefits to present beneficiaries payable from the Retirement Reserve Fund |  | 24,711,984,333 | \$ 23,025,291,735 |
| Present value of benefits to present active members |  | 12,758,096,917 | 12,697,111,733 |
| Total Accrued Liabilities | \$ | 37,470,081,250 | \$ 35,722,403,468 |

## Section II - Employee Data

The data employed for the valuations were furnished to the actuaries by the Division of Pensions and Benefits. While the actuaries did not verify the data at their source, they did perform tests for internal consistency and reasonableness. The accuracy of the results presented in this report is dependent on the accuracy of the data. The following summarizes and compares the Fund membership as of July 1, 2016 and July 1, 2015 by various categories.

## State Membership

## Active Membership

| Group | 2016 |  |  | 2015 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number ${ }^{3}$ | Annual Compensation | Limited Annual Compensation | Number ${ }^{3}$ | Annual Compensation | Limited Annual Compensation |
| Men | 5,628 | \$ 413,461,128 | \$ 413,461,128 | 5,608 | \$ 422,341,421 | \$ 422,341,421 |
| Women | 1,283 | \$ 94,341,252 | \$ 94,341,252 | 1,275 | \$ 95,746,284 | \$ 95,746,284 |
| Policemen ${ }^{1}$ | 6,866 | \$ 504,788,053 | \$ 504,788,053 | 6,837 | \$ 515,031,110 | \$ 515,031,110 |
| Firemen ${ }^{2}$ | 45 | \$ 3,014,327 | \$ 3,014,327 | 46 | \$ 3,056,595 | \$ 3,056,595 |

1 There are 48 employer locations in 2016 and 49 employer locations in 2015 reporting payroll for policemen.
2 There are 5 employer locations in 2016 and 5 employer locations in 2015 reporting payroll for firemen.
3 There were no members hired on or after May 22, 2010 whose pay exceeded the Social Security wage base.

## Retired Members and Beneficiaries

| Group | 2016 |  | 2015 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number ${ }^{4}$ | Annual Allowances ${ }^{5}$ | Number ${ }^{4}$ | Annual Allowances ${ }^{5}$ |
| Deferred Terminated Vesteds | 8 | \$ 168,912 | 8 | \$ 162,756 |
| Service Retirements | 4,498 | \$ 234,599,718 | 4,353 | \$ 224,873,195 |
| Ordinary Disability Retirements | 732 | \$ 20,143,534 | 735 | \$ 20,087,796 |
| Accidental Disability Retirements | 344 | \$ 15,438,319 | 338 | \$ 15,030,714 |
| Beneficiaries | 772 | \$ 23,569,496 | 726 | \$ 21,949,484 |

4 The number counts exclude 461 Domestic Relations beneficiaries in 2016 and 436 Domestic Relations beneficiaries in 2015.
5 Includes annual allowances paid to Domestic Relations beneficiaries.

## Local Employer

## Active Membership

| Group | 2016 |  |  | 2015 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number ${ }^{3}$ | Annual Compensation | Limited Annual Compensation | Number ${ }^{4}$ | Annual Compensation | Limited Annual Compensation |
| Men | 30,951 | \$ 3,057,605,333 | \$ 3,057,409,941 | 30,606 | \$ 3,014,686,145 | \$ 3,014,610,377 |
| Women | 2,927 | \$ 263,376,647 | \$ 263,312,039 | 2,870 | \$ 257,950,267 | \$ 257,950,267 |
| Policemen ${ }^{1}$ | 27,453 | \$ 2,682,398,988 | \$ 2,682,222,120 | 27,129 | \$ 2,646,342,399 | \$ 2,646,266,631 |
| Firemen ${ }^{2}$ | 6,425 | \$ 638,582,992 | \$ 638,499,860 | 6,347 | \$ 626,294,013 | \$ 626,294,013 |

There are 517 employer locations in 2016 and 516 employer locations in 2015 reporting payroll for policemen.
2 There are 143 employer locations in 2016 and 143 employer locations in 2015 reporting payroll for firemen.
3 There were 11 members hired on or after May 22, 2010 whose pay exceeded the Social Security wage base. In addition, there were 2 members limited by the 401(a)(17) annual compensation limit.
4 There were 3 members hired on or after May 22, 2010 whose pay exceeded the Social Security wage base.

## Retired Members and Beneficiaries

| Group | 2016 |  | 2015 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number ${ }^{5}$ | Annual Allowances ${ }^{6}$ | Number ${ }^{5}$ | Annual Allowances ${ }^{6}$ |
| Deferred Terminated Vesteds | 39 | \$ 802,164 | 43 | \$ 865,752 |
| Service Retirements | 25,476 | \$1,628,463,614 | 24,691 | \$1,549,557,173 |
| Ordinary Disability Retirements | 2,190 | \$ 63,887,074 | 2,166 | \$ 61,972,178 |
| Accidental Disability Retirements | 2,477 | \$ 125,453,166 | 2,401 | \$ 119,268,918 |
| Beneficiaries | 6,522 | \$ 204,333,111 | 6,414 | \$ 197,052,053 |

[^0]Appendix E provides a detailed distribution between groups.
Graphic presentations of the statistical data on membership are shown on the following pages.

The Police and Firemen's Retirement System of New Jersey
Summary of Active Membership
(Total System)


Women


The Police and Firemen's Retirement System of New Jersey
Summary of Retired Participation
(Total System)


- Vested Deferreds
- Beneficiaries of Deceased Active Employees
- Beneficiaries of Deceased Pensioners
- Disability Retirements
- Service Retirements



## Section III - Assets, Liabilities and Contributions

A. Market Value of Assets as of June 30, 2016

1. Assets

| a. | Cash | \$ | 1,609,548 |
| :---: | :---: | :---: | :---: |
| b. | Securities Lending Collateral |  | 392,745,430 |
| c. | Investment Holdings |  | 21,802,195,889 |
| d. | Accrued Interest on Investments |  | 3,304,248 |
| e. | Loans Receivable |  | 317,847,189 |
| f. | Employers' Contributions Receivable - Chapter 19 |  | 129,299,915 |
| g. | Employers' Contributions Receivable - Local |  | 811,867,970 |
| h. | Employers' Contribution Receivable - Local - ERI |  | 12,887,608 |
| i. | Employers' Contribution Receivable - NCGI - State |  | 1,574,085 |
| j. | Employers' Contribution Receivable - NCGI - Local |  | 35,500,000 |
| k. | Interest Receivable on Loans |  | 3,629,317 |
| $l$. | Members' Contributions Receivable |  | 49,897,205 |
| m. | New Jersey Mortgage Receivable |  | 1,016,124,596 |
| n . | Employers' Contributions Receivable - Delayed Enrollments |  | 181,468 |
| 0. | Employers' Contributions Receivable - Delayed Appropriations |  | 1,038,214 |
| p. | Securities Sold In Transit |  | 0 |
| q. | Accounts Receivable - Other |  | 3,478,523 |
| r. | Total | \$ | 24,583,181,205 |

2. Liabilities

| a. Pension Payroll Payable | $\$$ | $147,329,197$ |
| :--- | ---: | ---: |
| b. Pension Adjustment Payroll Payable | $17,399,993$ |  |
| c. Withholdings Payable | $28,406,833$ |  |
| d. Death Benefits Payable |  | $5,884,168$ |
| e. Securities Lending Collateral and Rebates Payable |  | $5,450,198$ |
| f. Accounts Payable - Other | $1,712,001$ |  |
| g. Administrative Expenses Payable |  |  |
| h. Total Liabilities | $\$ 98,454,541$ |  |

3. Preliminary Market Value of Assets as of June 30, 2016: 1(r) - 2(h)
\$ 23,984,726,664
4. Discounted State Receivable Contributions $179,796,506^{1}$
5. Adjustment to June 30, 2016 Financial Report due to Local employer deferred contributions under Chapter 19, P.L. 2009 22,311,015
6. Adjustment to June 30, 2016 Financial Report to reflect actuarial present value of receivable ERI contributions as of June 30, 2016
\$
$(1,483,332)$
7. Adjustment to June 30, 2016 Financial Report for assets held in the Non-Contributory Group Insurance Premium Fund
$\$ \quad(27,544,768)$
8. Adjustment to June 30, 2016 Financial Report due to discounted fiscal year 2017 Local Employers receivable contributions
\$
$(41,939,207)$
9. $\quad$ Market Value of Assets as of June 30, 2016
$=3 .+4 .+5 .+6 .+7 .+8$.
\$ 24,115,866,878
1 Reflects the State's fiscal year 2017 anticipated contribution of $\$ 193,550,939$ discounted one year. This amount may be subject to change per the requirements of the State's fiscal year 2017 spending plan.
B. Reconciliation of Market Value of Assets from June 30, 2015 to June 30, 2016


[^1] requirements of the State's fiscal year 2017 spending plan.
C. Summary of Market Value of Assets by Source

1. Reserve for Employers' Contributions
\$ $\quad(3,470,721,761)$
2. Reserve for Members' Contributions 3,614,531,970
3. Reserve for Retirement Fund 23,813,371,687
4. Reserve for Special Reserve Fund
5. Discounted State Receivable Contributions 179,796,506
6. Adjustment to the Chapter 19, P.L. 2009 Local deferred contributions

22,311,015
7. Adjustment to the receivable Local ERI contributions
8. Adjustment to June 30, 2016 Financial Report for discounted fiscal year 2017 Local Employers receivable contributions
$(1,483,332)$
9. Total Market Value of Assets as of June 30, 2016
\$ 24,115,866,878

## Development of Actuarial Value of Assets as of July 1, 2016

|  | State | Local Employers | Total |
| :---: | :---: | :---: | :---: |
| 1. Actuarial Value of Assets as of June 30, 2015 (without State receivable contribution) | \$ 1,933,101,976 | \$23,767,317,583 | \$25,700,419,559 |
| 2. Net Cash Flow excluding Investment Income and Present Value of Remaining ERI Contributions | $(177,603,360)$ | (796,962,087) | $(974,565,447)$ |
| 3. Additional Employer Contributions Paid to Satisfy Remaining ERI Obligations | 0 | 0 | 0 |
| 4. Investment Income at Actuarially Assumed Rate of 7.90\% | 142,316,375 | 1,765,276,590 | 1,907,592,965 |
| 5. Expected Actuarial Value of Assets as of June 30, $2016=1 .+2 .+3 .+4$. | \$1,897,814,991 | \$24,735,632,086 | \$26,633,447,077 |
| 6. Mark-up percentag | 20.0\% | 20.0\% |  |
| 7. Mark-up to Reflect Growth in Preliminary Market Value of Assets (without receivable contribution) | $(70,568,860)$ | $(487,612,727)$ | $(558,181,587)$ |
| 8. Discounted | 101,201,273 | 78,595,233 | 179,796,506 |
| 9. Present Value of Local Employer Contribution Deferral under the Provisions of Chapter 19, P.L. 2009 | N/A | 151,610,930 | 151,610,930 |
| 10. Present Value of Receivable ERI Contributions as of June 30, 2016 | N/A | 11,404,276 | 11,404,276 |
| 11. Adjustment to June 30, 2016 Financial Report discounted fiscal year 2017 Local Employers receivable contributions | N/A | $(41,939,207)$ | $(41,939,207)$ |
| 12. Adjustment for Assets Held in the Non-Contributory Group Insurance Premium Fund | 0 | $(27,544,768)$ | $(27,544,768)$ |
| 13. Actuarial Value of Assets as of June 30, 2016 $\text { = 5. + 7. + 8. + 9. + } 10+11 .+12 .$ | \$1,928,447,404 | \$ 24,420,145,823 | \$ 26,348,593,227 |


| Assets |  |  |  |
| :---: | :---: | :---: | :---: |
|  | State | Local Employers | Total |
| Present assets of System creditable to: Retirement Reserve Fund: Credited to fund Add (deduct) reserve transferable from (to) Reserve for Employers' Contributions Fund | $\begin{aligned} & \$ 3,048,150,235 \\ & \begin{array}{r} \text { 217,894,423 } \end{array} \\ & \hline \$ 3,266,044,658 \end{aligned}$ | $\$ 20,765,221,452$ <br>  <br> \$ $21,4450,718,2239,675^{2}$ | \$ 23,813,371,687 $\begin{array}{r} 898,612,646 \\ \$ 24,711,984,333 \end{array}$ |
| Annuity Savings Fund: Credited to Fund | \$ 406,884,696 | \$ 3,207,647,274 | \$ 3,614,531,970 |
| Reserve for Employers' Contributions Fund: Credited to Fund Add (deduct) excess interest earnings transferable from (to) Special Reserve Fund <br> Add (deduct) reserve transferable from (to) Retirement Reserve Fund | \$ $(1,526,587,527)$ 0 $(217,894,423)$ | $\$$ $447,277,097$ <br>  0 <br>  $(680,718,223)$ <br> $\$$ $(233,441,126)$ | $\$(1,079,310,430)$ 0 $\frac{(898,612,646)}{}{ }^{1}$ $\$(1,977,923,076)$ |
| Total Present Assets | \$ 1,928,447,404 | \$ 24,420,145,823 | \$ 26,348,593,227 |
| Present value of prospective accrued liability contributions payable by the State and Local employers to the Reserve for Employers' Contributions Fund for basic allowances | \$ 2,748,194,636 | \$ 8,373,293,387 | \$ 11,121,488,023 |
| Total Assets | \$ 4,676,642,040 | \$ 32,793,439,210 | \$ 37,470,081,250 |

[^2]E.1. Summary of Actuarial Accrued Liability as of July 1, 2016

|  | State | Local Employers | Total |
| :---: | :---: | :---: | :---: |
| 1. Retirees and Beneficiaries |  |  |  |
| a. Service Retirement | \$ 2,583,126,314 | \$ 17,218, $738,869^{1}$ | \$ 19,801,865,183 |
| b. Disability Retirement | 399,260,835 | 2,152,216,743 | 2,551,477,578 |
| c. Beneficiaries | 283,657,509 | 2,074,984,063 | 2,358,641,572 |
| d. Total | \$ 3,266,044,658 | \$ 21,445,939,675 | \$ 24,711,984,333 |
| 2. Terminated Vested Members | \$ 1,510,756 | \$ 7,541,180 | \$ 9,051,936 |
| 3. Active Participants |  |  |  |
| a. Service Retirement | \$ 1,232,139,993 | \$ 10,218,480,762 | \$ 11,450,620,755 |
| b. Vested Retirement | 9,350,274 | 50,127,524 | 59,477,798 |
| c. Ordinary Disability | 69,196,578 | 449,572,921 | 518,769,499 |
| d. Accidental Disability | 71,277,182 | 448,810,700 | 520,087,882 |
| e. Ordinary Death | 23,201,666 | 151,521,717 | 174,723,383 |
| f. Accidental Death | 2,261,132 | 14,235,914 | 16,497,046 |
| g. Withdrawal of Contributions | 1,659,801 | 7,208,817 | 8,868,618 |
| h. Total | \$ 1,409,086,626 | \$ 11,339,958,355 | \$ 12,749,044,981 |
| 4. Total Actuarial Accrued Liability $=1(\mathrm{~d})+2+3(\mathrm{~h})$ | \$ 4,676,642,040 | \$ 32,793,439,210 | \$ 37,470,081,250 |

1 Includes the present value of ERI contributions of \$11,404,276.

## E.2. Summary of Active Member Actuarial Accrued Liability \& Normal Cost

State

| Employee <br> Type | Number of <br> Members | Total Appropriation <br> Salary | Actuarial <br> Accrued Liability | Gross Pension <br> Normal Cost |
| :--- | ---: | ---: | ---: | ---: |
| Tier 1 | 5,033 | $393,981,196$ | $1,357,348,456$ | $76,624,686$ |
| Tier 2 | 245 | $15,248,804$ | $14,931,049$ | $2,597,549$ |
| Tier 3 | 1,633 | $76,241,643$ | $36,807,121$ | $13,451,642$ |
| Total | 6,911 | $485,471,643$ | $1,409,086,626$ | $92,673,877$ |

## Local Employers

| Employee <br> Type | Number of <br> Members | Total Appropriation <br> Salary | Actuarial <br> Accrued Liability | Gross Pension <br> Normal Cost |
| :--- | ---: | ---: | ---: | ---: |
| Tier 1 | 26,883 | $2,856,812,491$ | $11,112,893,027$ | $566,811,532$ |
| Tier 2 | 504 | $36,779,572$ | $39,062,244$ | $6,321,048$ |
| Tier 3 | 6,491 | $347,743,856$ | $188,003,084$ | $60,427,905$ |
| Total | 33,878 | $3,241,335,919$ | $11,339,958,355$ | $633,560,485$ |

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F. Summary of Unfunded Accrued Liabilityl(Surplus) and Required Contribution

|  |  | July 1, 2016 |  |  | July 1, 2015 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I. | Development of Unfunded Accrued Liabilityl(Surplus) | State | Local Employers ${ }^{1}$ | Total | State | Local Employers ${ }^{1}$ | Total |
| 1. | Present Value of Benefits | \$4,676,642,040 | \$ 32,793,439,210 | \$ 37,470,081,250 | \$ 4,516,438,165 | \$ 31,205,965,303 | \$35,722,403,468 |
| 2. | Actuarial Value of Assets | 1,928,447,404 | 24,420,145,823 | 26,348,593,227 | 2,004,579,109 | 23,935,037,150 | 25,939,616,259 |
| 3. | Unfunded Accrued Liability/(Surplus): |  |  |  |  |  |  |
|  | (a) Basic Unfunded Accrued Liability/(Surplus) Excluding Chapters 204, 247, 428, 109 and 511 | \$ 2,625,742,022 | \$ 6,662,516,261 | \$ 9,228,258,283 | \$ 2,399,379,512 | \$5,691,093,367 | \$ 8,090,472,879 |
|  | (b) Chapter 204 | 597,504 | 5,777,550 | 6,375,054 | 578,393 | 5,969,449 | 6,547,842 |
|  | (c) Chapter 247 | 0 | 131,146,618 | 131,146,618 | 0 | 127,886,511 | 127,886,511 |
|  | (d) Chapter $428{ }^{2}$ | 121,855,110 | 669,777,119 | 791,632,229 | 111,901,151 | 609,078,762 | 720,979,913 |
|  | (e) Chapter 109 | 0 | 580,996,007 | 580,996,007 | 0 | 534,773,904 | 534,773,904 |
|  | (f) Chapter 511 | 0 | 323,079,832 | 323,079,832 | 0 | 302,126,160 | 302,126,160 |
|  | (g) Gross Unfunded Accrued Liability/(Surplus) $=(\mathrm{a})+(\mathrm{b})+(\mathrm{c})+(\mathrm{d})+(\mathrm{e})+(\mathrm{f})$ | \$ 2,748,194,636 | \$8,373,293,387 | \$ 11,121,488,023 | \$ 2,511,859,056 | \$7,270,928,153 | \$ 9,782,787,209 |
| 4. | Net adjustment to Gross Unfunded Accrued Liability to account for phase-in of State paid Local Obligations: |  |  |  |  |  |  |
|  | (a) Chapter 247 | \$ 106,993,286 | \$ (106,993,286) | \$ 0 | \$ 101,048,132 | \$ (101,048,132) | \$ 0 |
|  | (b) Chapter $428{ }^{2}$ | 533,196,565 | $(533,196,565)$ | 0 | 492,264,452 | $(492,264,452)$ | 0 |
|  | (c) Chapter 109 | 580,996,007 | $(580,996,007)$ | 0 | 534,773,904 | $(534,773,904)$ | 0 |
|  | (d) Chapter 511 | 323,079,832 | (323,079,832) | 0 | 302,126,160 | $(302,126,160)$ | 0 |
|  | (e) Total Adjustments $=(\mathrm{a})+(\mathrm{b})+(\mathrm{c})+(\mathrm{d})$ | \$1,544,265,690 | \$(1,544,265,690) | \$ 0 | \$1,430,212,648 | \$(1,430,212,648) | \$ 0 |
| 5. | Net Unfunded Accrued Liability/(Surplus) $=3(\mathrm{~g})+4(\mathrm{e})$ | \$ 4,292,460,326 | \$ 6,829,027,697 | \$ 11,121,488,023 | \$3,942,071,704 | \$ 5,840,715,505 | \$ 9,782,787,209 |

1 Excludes unfunded accrued liability amounts due to Local ERI programs and Chapter 19, P.L. 2009 Local employer deferrals. The Local unfunded accrued liability amounts due to ERI programs are presented in Appendices F and G and the Chapter 19, P.L. 2009 Local employer deferrals are summarized in Appendix H.
2 The Chapter 428 unfunded accrued liability amounts include the unfunded accrued liability amounts due to Chapters 86 and 318.

| II. | Development of Unfunded Accrued Liability Contribution Amount | July 1, 2016 |  |  |  |  |  | July 1, 2015 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | State |  | Local Employers ${ }^{1}$ |  | Total |  | State |  | Local Employers ${ }^{1}$ |  | Total |
| 1. | Accrued Liability Contribution due to: <br> (a) Basic Unfunded Accrued Liability <br> (b) Chapter 204 <br> (c) Chapter 247 <br> (d) Chapter $428^{2}$ <br> (e) Chapter 109 <br> (f) Chapter 511 <br> (g) Gross Unfunded Accrued Liability Contribution $=(\mathrm{a})+(\mathrm{b})+(\mathrm{c})+(\mathrm{d})+(\mathrm{e})+(\mathrm{f})$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | \$ | 209,549,104 | \$ | 531,706,580 | \$ | 741,255,684 | \$ | 195,665,504 | \$ | 464,099,425 | \$ | 659,764,929 |
|  |  |  | 61,311 |  | 592,844 |  | 654,155 |  | 58,375 |  | 602,473 |  | 660,848 |
|  |  |  | 0 |  | 10,466,244 |  | 10,466,244 |  | 0 |  | 10,428,937 |  | 10,428,937 |
|  |  |  | 9,724,729 |  | 53,452,012 |  | 63,176,741 |  | 9,125,358 |  | 49,669,384 |  | 58,794,742 |
|  |  |  | 0 |  | 46,366,776 |  | 46,366,776 |  | 0 |  | 43,609,944 |  | 43,609,944 |
|  |  |  | 0 |  | 25,783,603 |  | 25,783,603 |  | 0 |  | 24,637,898 |  | 24,637,898 |
|  |  |  | 219,335,144 | \$ | 668,368,059 | \$ | 887,703,203 | \$ | 204,849,237 | \$ | 593,048,061 | \$ | 797,897,298 |
| 2. | Net adjustment to Gross Unfunded Accrued Liability Contribution due to State paid Local Obligations: |  |  |  |  |  |  |  |  |  |  |  |  |
|  | (a) Chapter 247 | \$ | 10,466,244 | \$ | $(10,466,244)$ | \$ | 0 | \$ | 10,428,937 | \$ | $(10,428,937)$ | \$ | 0 |
|  | (b) Chapter $428{ }^{2}$ |  | 53,452,012 |  | $(53,452,012)$ |  | 0 |  | 49,669,384 |  | $(49,669,384)$ |  | 0 |
|  | (c) Chapter 109 |  | 46,366,776 |  | $(46,366,776)$ |  | 0 |  | 43,609,944 |  | $(43,609,944)$ |  | 0 |
|  | (d) Chapter 511 |  | 25,783,603 |  | $(25,783,603)$ |  | 0 |  | 24,637,898 |  | $(24,637,898)$ |  | 0 |
|  | (e) Total Adjustment $=(\mathrm{a})+(\mathrm{b})+(\mathrm{c})+(\mathrm{d})$ | \$ | 136,068,635 | \$ | $(136,068,635)$ | \$ | 0 | \$ | 128,346,163 | \$ | $(128,346,163)$ | \$ | 0 |
| 3. | Accrued Liability Contribution as of the Valuation Date $=1(\mathrm{~g})+2(\mathrm{e})$ | \$ | 355,403,779 | \$ | 532,299,424 | \$ | 887,703,203 | \$ | 333,195,400 | \$ | 464,701,898 | \$ | 797,897,298 |
| 4. | Interest to reflect 1 Year Delay in Payment |  | 27,188,389 |  | 40,720,906 |  | 67,909,295 |  | 26,322,437 |  | 36,711,450 |  | 63,033,887 |
| 5. | Accrued Liability Contribution as of July 1, 2017 | \$ | 382,592,168 | \$ | 573,020,330 | \$ | 955,612,498 | \$ | 359,517,837 | \$ | 501,413,348 | \$ | 860,931,185 |

 employer payments towards deferrals are summarized in Appendix H .
2 The Chapter 428 unfunded accrued liability contribution amounts include the unfunded accrued liability contribution amounts due Chapters 86 and 318.
G. Development of Normal Cost as of July 1, 2017

|  |  | State |  | Local Employers |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Service Retirement | \$ | 73,734,058 | \$ | 528,811,300 | \$ | 602,545,358 |
| 2. Ordinary Disability Retirement |  | 5,126,082 |  | 29,039,326 |  | 34,165,408 |
| 3. Accidental Disability Retirement |  | 8,011,838 |  | 43,627,437 |  | 51,639,275 |
| 4. Ordinary Death Benefits |  | 827,149 |  | 4,220,189 |  | 5,047,338 |
| 5. Accidental Death Benefits |  | 208,153 |  | 1,117,485 |  | 1,325,638 |
| 6. Vested Termination Retirement |  | 850,147 |  | 4,452,458 |  | 5,302,605 |
| 7. Return of Members' Contributions Upon Withdrawal |  | 917,778 |  | 4,241,865 |  | 5,159,643 |
| 8. Portion Attributable to Chapter 428 |  | 2,998,672 |  | 18,050,425 |  | 21,049,097 |
| 9. Total (without Non-Contributory Group Insurance Premium) <br> 10. Expected Employee Contributions ${ }^{1}$ | \$ | $\begin{gathered} 92,673,877 \\ (47,072,855) \end{gathered}$ | \$ | $\begin{gathered} 633,560,485 \\ (310,728,439) \end{gathered}$ | \$ | $\begin{gathered} 726,234,362 \\ (357,801,294) \end{gathered}$ |
| 11. Portion of Local Normal Cost Payable by the State due to: |  |  |  |  |  |  |
| (a) Chapter 511 | \$ | 12,331,372 | \$ | $(12,331,372)$ | \$ | 0 |
| (b) Chapter 247 |  | 137,493 |  | $(137,493)$ |  | 0 |
| (c) Chapter 109 |  | 35,654,695 |  | $(35,654,695)$ |  | 0 |
| (d) Chapter 428 |  | 18,050,425 |  | $(18,050,425)$ |  | 0 |
| (e) Total | \$ | 66,173,985 | \$ | $(66,173,985)$ | \$ | 0 |
| 12. Preliminary Pension Normal Cost as of July 1, $2016=9+10+11(\mathrm{e})$ | \$ | 111,775,007 | \$ | 256,658,061 | \$ | 368,433,068 |
| 13. Interest to Reflect a 1 Year Delay in Payment to July 1, 2017 |  | 8,550,788 |  | 19,634,342 |  | 28,185,130 |
| 14. Net Pension Normal Cost as of July 1, 2017 $=12+13$ | \$ | 120,325,795 | \$ | 276,292,403 | \$ | 396,618,198 |
| 15. Non-Contributory Group Insurance Fund Premium (one-year term cost) | \$ | 8,893,000 | \$ | 35,809,000 | \$ | 44,702,000 |

1 Member contributions of $10.0 \%$ of compensation shall reduce the normal cost contribution.

The following chart summarizes the recommended contribution amounts:

 obligations that were not contributed due to the phase-in of contributions through fiscal year 2016
 under Chapters 428, 86 and 318.

The following chart summarizes the rounded contribution rates that are applied to the applicable compensation for each location to produce the required contributions:

|  | July 1, 2016 |  | July 1, 2015 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | State | Local Employers ${ }^{5}$ | State | Local Employers ${ }^{5}$ |
| 1. Normal Contribution Rates: |  |  |  |  |
| a) Basic Allowances | 7.870\% | 8.513\% | 8.084\% | 8.683\% |
| b) Chapter $511^{1}$ | 3.127\% | N/A | 2.989\% | N/A |
| c) Chapter $247^{1}$ |  |  |  |  |
| pay for individuals without past service | N/A | 12.720\% | N/A | 12.300\% |
| for individuals with past service | N/A | 1.760\% | N/A | 2.020\% |
| - Portion of Municipalities \& Local Groups costs payable by the State | 0.030\% | N/A | 0.034\% | N/A |
| d) Chapter $109^{1}$ | 9.090\% | N/A | 8.873\% | N/A |
| e) Chapter $428^{1}$ | 4.667\% | 0.000\% | 5.177\% | 0.000\% |
| 2. Accrued Liability Contribution Rates: ${ }^{4}$ |  |  |  |  |
| a) Basic Allowances | 46.466\% | 17.723\% | 42.711\% | 15.718\% |
| b) Chapter 204 | 2 | 2 | 2 | 2 |
| c) Chapter $247^{1}$ | 2.321\% | N/A | 2.276\% | N/A |
| d) Chapter $428{ }^{1 \& 3}$ | 14.009\% | N/A | 12.834\% | N/A |
| e) Chapter $109^{1}$ | 10.282\% | N/A | 9.519\% | N/A |
| f) Chapter $511^{1}$ | 5.717\% | N/A | 5.378\% | N/A |
| 3. Non-Contributory Group Insurance Premium (one-year term cost) | 1.832\% | 1.105\% | 1.789\% | 1.109\% |

1 Payment for certain costs under Chapters 109, 247, 511 and 428 (Chapter 8) for both Municipalities \& Local Groups and State Locations are made by the State in accordance with the legislation.
2 Costs for locations affected by Chapter 204 are presented in Appendix C.
3 Includes the additional costs due to Chapter 86, P.L. 2001 and Chapter 318, P.L. 2001.
4 The rates shown for Chapters $247,428,109$ and 511 include the rate required to fund the portions of the State-paid Local obligations that were not contributed due to the phase-in of contributions through fiscal year 2016.
5 Does not include ERI and the Chapter 19, P.L. 2009 Local employer payments. The Local ERI payments are presented in Appendices F and G and the Chapter 19, P.L. 2009 Local employer payments towards deferrals are summarized in Appendix H.

## Section IV - Comments Concerning the Valuation

The variation in liabilities and contributions reflects the Fund's actual experience during the year. The Plan realized a net actuarial loss during the past year. This was primarily a result due to the investment return, which was less than that expected (5.35\% on an actuarial value basis, rather than the $7.90 \%$ expected for the period July 1, 2015 to June 30, 2016). There was also a net actuarial loss due to demographic experience.

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

## A. Calculation of Net Actuarial Experience

| 1. | Unfunded Accrued Liability as of July 1, 2015 | \$ | 9,782,787,209 |
| :---: | :---: | :---: | :---: |
| 2. | Normal Cost as of July 1, 2015 |  | 727,480,382 |
| 3. | Interest on (1) and (2) at 7.90\% |  | 830,311,140 |
| 4. | Actual Members' Contributions |  | 388,681,408 |
| 5. | Expected Employer Contribution |  | 1,187,297,447 |
| 6. | Expected interest on Members' contributions at 7.90\% |  | 15,061,112 |
| 7. | Expected Unfunded Accrued Liability as of July 1, 2016 $=(1)+(2)+(3)-(4)-(5)-(6)$ | \$ | 9,749,538,764 |
| 8. | Change in Unfunded Accrued Liability due to revised fiscal year 2017 State contribution | \$ | 269,694,759 |
| 9. | Change in Unfunded Accrued Liability due to Chapter 19 adjustments for actuarial asset loss | \$ | $(3,339,206)$ |
| 10. | Change in Unfunded Liability due to the revised economic assumptions | \$ | 432,218,931 |
| 11. | Change in Unfunded Accrued Liability due to the actual fiscal year 2016 State contribution ${ }^{1}$ | \$ | 315 |
| 12. | Actual Unfunded Accrued Liability as of July 1, 2016 | \$ | 11,121,488,023 |
| 13. | Actuarial (gain)/loss = (12) - (7) - (8) - (9) - (10) - (11) | \$ | 673,374,460 |

[^3]B. Components of Actuarial Experience

1. Investment (Gain)/Loss $\quad \$ \quad 558,181,587$
2. Other net (Gain)/Loss, including changes in employee data

115,192,873
3. Total Actuarial (Gain)/Loss
\$ 673,374,460

## C. Funded Ratios

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

| Actuarial Value of Assets* | June 30, 2016 | June 30, 2015 | Change |
| :--- | :---: | :---: | :---: |
| State | $41.2 \%$ | $44.4 \%$ | $-3.2 \%$ |
| Local Employers | $74.5 \%$ | $76.7 \%$ | $-2.2 \%$ |
| Total System | $70.3 \%$ | $72.6 \%$ | $-2.3 \%$ |
| Market Value of Assets |  |  |  |
| State | $35.2 \%$ | $40.5 \%$ | $-5.3 \%$ |
| Local Employers | $68.5 \%$ | $74.9 \%$ | $-6.4 \%$ |
| Total System | $64.4 \%$ | $70.5 \%$ | $-6.1 \%$ |

* Statutory funded ratio

For purposes of Chapter 78, P.L. 2011, the "target funded ratio" is $78.570 \%$ and $79.285 \%$ for June 30, 2015 and June 30, 2016, respectively. The State's statutory funded ratio is $44.4 \%$ and $41.2 \%$ as of June 30, 2015 and June 30, 2016, respectively. Therefore, the State's statutory funded ratio did not reach the "target funded ratio" as of June 30, 2015 and remained below the "target funded ratio" as of June 30, 2016. The Local employers' statutory funded ratio is $76.7 \%$ and $74.5 \%$ as of June 30, 2015 and June 30, 2016, respectively. Therefore, the Local employers' statutory funded ratio also did not reach the "target funded ratio" as of June 30, 2015 and remained below the "target funded ratio" as of June 302016. However, the Local employer portion of the System did attain the required "target funded ratio" in fiscal year 2012 thus a pension committee has been established for the Local Employer portion of the System.

The funded ratio computed using assets valued on an actuarial value basis provides a different indication of the System's funded position, since the actuarial value smooths the investment (gains)/losses over time. Since July 1, 2000, the System's funded ratio on a market value basis has decreased by 49.8\% ( $77.9 \%$ for State and $45.8 \%$ for Local). This decrease is primarily due to investment losses experienced over the period, contributions of less than the recommended contributions, the increase in benefits under Chapter 428, P.L. 1999, Chapter 86, P.L. 2001 and Chapter 318, P.L. 2001, and the strengthening of actuarial assumptions.

As of June 30, 2016, the total System market value of assets is less than the total actuarial liability attributable to retirees. If the assets contained in the Annuity Savings Fund (ASF) of \$ 3,614,531,970 (\$406,884,696 for State and \$3,207,647,274 for Local) are excluded, the ratio of the remaining market value of assets to the actuarial accrued liability for retirees is $83.0 \%$ ( $37.9 \%$ for State and $89.8 \%$ for Local).

As of June 30, 2016, the ratio of market value of assets to the prior year's benefit payment is 10.6 (5.4 for State and 11.4 for Local). This is an approximate indication of the number of years that the assets can cover benefit payments, excluding future increases in those payments, employer and member contributions, and investment income. The System ratio decreased by 9.4\% (15.6\% for State and 8.1\% for Local) from the previous year's ratio of 11.7 (6.4 for State and 12.4 for Local). If ASF assets are excluded, since they represent accumulated contributions from active and inactive members, the ratio is 9.0 ( 4.1 for State and 9.8 for Local).

The valuation also reflects costs attributable to the following legislation:

Chapter 204, P.L. 1989

The provisions of Chapter 204 allowed employees who were previously excluded on the basis of their titles from PFRS membership to enter the Plan. Employers of such employees are required to contribute any additional contribution necessary to fund any unfunded liability arising from Chapter 204. The valuation reflects the additional accrued liability for three State locations and fifteen Municipality and Local Groups locations with certain employees participating in the Fund under the provisions of this legislation. Appendix C lists all applicable locations and the required contributions.

Chapter 511, P.L. 1991
The provisions of Chapter 511 increased the benefit payable to the surviving spouse of a retiree from $35 \%$ to $50 \%$ of the retiree's average final compensation. This law also raised the minimum annual spouse's benefit from $\$ 1,600$ to $\$ 4,500$ for benefits granted prior to January 14, 1992.

Chapter 511 required that the normal cost and accrued liability contribution attributable to this chapter be separately determined. As a result of Chapter 115, P.L. 1997, the accrued liability contribution attributable to Chapter 511 was eliminated at that time. However, because of the reductions (and anticipated reductions) in the required State contributions for fiscal years 2004 through 2017 due to the various Appropriation Acts and Chapter 1, P.L. 2010, the remaining required contributions that have not been made have been set up as an unfunded accrued liability attributable to Chapter 511. The following summarizes the applicable contribution rates for the current and previous valuations:

| Chapter 511 |  |  |
| :--- | :---: | :---: |
| Contribution Rate | June 30, 2016 | June 30, 2015 |
| Normal Cost | $3.127 \%$ | $2.989 \%$ |
| Accrued Liability | $\frac{5.717}{}$ | $8.844 \%$ |
| Total Rate |  | 8.378 |

Chapter 247, P.L. 1993 and Chapter 201 P.L. 2001
Chapter 247 requires the State to pay the difference between the PFRS normal cost rate and the PERS normal cost rate for certain members who transferred into PFRS as of January 1, 1992 or later. In addition, the law requires the State to pay the "System" unfunded accrued liability contribution for Municipalities and Local Groups that transferred into PFRS on and after January 1, 1992 without past service. The following summarizes the number of active employees affected, the applicable contribution rates, and the Chapter 247 contributions for the current and previous valuations:

| Chapter 247 | June 30, 2016 | June 30, 2015 |
| :---: | :---: | :---: |
| Number of Active Employees | 131 | 184 |
| Contribution Rates: |  |  |
| Normal Cost | 0.030\% | 0.034\% |
| Accrued Liability | 2.321\% | 2.276\% |
| Total Rate | 2.351\% | 2.310\% |
| Contributions: |  |  |
| Normal Cost | \$ 148,011 | \$ 169,923 |
| Accrued Liability | 11,266,912 | 11,252,823 |
| Total Contribution | \$ 11,414,923 | \$ 11,422,746 |

Chapter 201, P.L. 2001 made changes to Chapter 247, P.L. 1993 with respect to the benefits payable to members who transferred from PERS to PFRS as a result of the Chapter 247 legislation. The resulting increase in the unfunded accrued liabilities due to the increased benefits was fully funded by the recognition of additional market value surplus in the determination of the actuarial value of assets in the July 1, 1999 valuation. However, because of the reductions (and anticipated reductions) in the required State contributions for fiscal years 2004 through 2017 due to the various Appropriation Acts and Chapter 1, P.L. 2010, the remaining required contributions which were not paid have been added to the Chapter 247 unfunded accrued liability and will be included in future State contributions.

Chapter 59, P.L. 1999, Chapter 126, P.L. 2000 and Chapter 130, P.L. 2003
Chapter 59, P.L. 1999 authorizes municipalities, counties and other local units of government that enter into agreements to provide governmental services on a joint or consolidated basis, municipalities that join together to establish a new consolidated municipality, or school districts that have merged with one or more other school districts due solely to a municipal consolidation, to offer incentive programs for retirement or termination of employment for employees affected by the consolidation agreements. "County ERI Section 44" of Chapter 126, P.L. 2000 permitted local units to offer early retirement or termination incentives to certain employees of county governing bodies. Chapter 130, P.L. 2003 extended an Early Retirement Incentive Program similar to that offered by the State under Chapter 23, P.L. 2002 to members of Local employer locations. Appendix G lists all applicable locations and summarizes the contribution requirement under Chapter 59, Chapter 126 and Chapter 130.

Chapter 8, P.L. 2000
Chapter 8, P.L. 2000 required that, if valuation assets are insufficient to fund the normal cost and accrued liability costs attributable to Chapter 428, P.L. 1999, the contribution required to fund these costs for the State and other employers shall be paid by the State. For both the July 1, 2015 and July 1, 2016 valuations, valuation assets were not sufficient to fund the costs attributable to Chapter 428. In addition, because of the reductions (and anticipated reductions) in the required State contributions for fiscal years 2004 through 2017 due to the various Appropriation Acts and Chapter 1, P.L. 2010, the remaining required contributions which were not paid have been added to the Chapter 428 unfunded accrued liability and will be included in future State contributions. The following chart summarizes the applicable contribution rates and the Chapter 428 contributions for the current and previous valuations:

| Chapter 428 | June 30, 2016 | June 30, 2015 |
| :--- | :---: | :---: |
| Contribution Rates: |  |  |
| $\quad$ Normal Cost | $4.667 \%$ |  |
| Accrued Liability | $\underline{14.009}$ |  |
| Total Rate | $18.676 \%$ |  |
| Contributions: |  | $\underline{12.834}$ |
| Normal Cost | $\$$ | $22,659,353$ |
| Accrued Liability |  | $\underline{68,009,763}$ |
| Total Contribution | $\$$ | $90,669,116$ |

Chapter 86, P.L. 2001
Chapter 86, P.L. 2001 amended the active death benefits provided to a beneficiary of a member who died in active duty on or after January 1, 1998 and before January 18, 2000. The law required an eligible beneficiary to apply for the increased benefits within 90 days of enactment and return the member's aggregate contributions to the System. The State is liable for all costs to the System attributable to this law, and these costs have been included in the Chapter 428 accrued liability contributions.

Chapter 318, P.L. 2001
Chapter 318, P.L. 2001 amended the active death benefits provided to a beneficiary of a member with 10 or more years of service who died in active service on or after June 1, 1995 and before January 1, 1998 and whose beneficiary had, on May 1, 2001, an appeal of a denial of a benefit related to death in the line of duty pending before the Board of Trustees. The law requires that the appeal be withdrawn or denied and that an eligible beneficiary apply for the increased benefits and return the member's aggregate contributions received. The State is liable for all costs to the System attributable to this law and these costs are also included in the Chapter 428 accrued liability contributions.

Chapter 19, P.L. 2009
Chapter 19, P.L. 2009 provides that the State Treasurer will reduce for Local employers the normal and accrued liability contributions to 50 percent of the amount certified for fiscal years 2009. The additional unfunded liability will be paid by Local employers in level annual payments over a period of 15 years, with the first payment due in the fiscal year ending June 30, 2012. The unfunded liability will be adjusted annually by the rate of return on the actuarial value of assets. The legislation also provides that a Local employer may opt to pay 100 percent of the recommended contribution for fiscal year 2009. Employers making this election will be credited with the full payment. In addition, certain employers who were eligible to defer 50\% of their fiscal year 2009 recommended contributions but instead paid 100\% of the 2009 recommended contributions are permitted to elect to defer 50\% of their recommended 2010 fiscal year contributions. The additional unfunded liability will be paid by Local employers in level annual payments over a period of 15 years, with the first payment due in the fiscal year ending June 30, 2012. The unfunded liability will be adjusted by the rate of return on the actuarial value of assets.

Chapter 1, P.L. 2010
Chapter 1, P.L. 2010 amended the definition of Compensation and Final Compensation for members hired on or after May 22, 2010. Compensation for such members is to be limited to the annual maximum wage contribution base for Social Security pursuant to the Federal Insurance Contribution Act. In addition, Final Compensation has been changed to the average annual compensation of a member for the three fiscal years providing the largest benefit.

Chapter 78, P.L. 2011
Chapter 78, P.L. 2011 increases member contributions from $8.5 \%$ to $10.0 \%$ of compensation. In addition, Chapter 78, P.L. 2011 suspends cost of living adjustments for all current and future retirees and beneficiaries until reactivated as permitted by law; however, Chapter 78, P.L. 2011 does not reduce the benefits for cost of living adjustments that were made in prior years. In addition, for members hired after June 28, 2011 the special retirement benefit is changed to $60 \%$ of final compensation at 25 years of service plus $1 \%$ of final compensation for each year of service over 25 years. The maximum retirement benefit is $65 \%$ of final compensation. Beginning with the July 1, 2010 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars, it will amortize the unfunded accrued liability over an open 30 year period. Beginning with the July 1, 2018 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars it will amortize the unfunded accrued liability over a closed 30 year period (i.e., for each subsequent actuarial valuation, the amortization period will decrease by one year.) Beginning with the July 1, 2028 actuarial valuation when the remaining amortization period reaches 20 years, any increase or
decrease in the unfunded accrued liability as a result of actuarial losses or gains for subsequent valuation years shall serve to increase or decrease, respectively, the amortization period for the unfunded accrued liability, unless an increase in the amortization period will cause it to exceed 20 years. If an increase in the amortization period as a result of actuarial losses for a valuation year would exceed 20 years, the accrued liability contribution shall be computed for that valuation year using a 20 year amortization period.

State

|  |  |  |  | Funded Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Actuarial Valuation Date | Market Value of Assets ${ }^{1}$ <br> (a) | Actuarial Value of Assets ${ }^{1}$ <br> (b) | Actuarial Accrued Liability <br> (c) | Market Value (a)/(c) | Actuarial Value (b)/(c) |
| 7/1/2016 | \$ 1,646,171,965 | \$ 1,928,447,404 | \$4,676,642,040 | 35.2\% | 41.2\% |
| 7/1/2015 | \$ 1,831,003,301 | \$ 2,004,579,109 | \$4,516,438,165 | 40.5\% | 44.4\% |
| 7/1/2014 | \$ 1,950,490,493 | \$ 2,062,185,965 | \$4,365,609,664 | 44.7\% | 47.2\% |
| 7/1/2013 | \$ 1,896,198,371 | \$ 2,127,491,585 | \$4,188,523,037 | 45.3\% | 50.8\% |
| 7/1/2012 | \$ 1,829,418,795 | \$ 2,137,727,566 | \$4,026,954,882 | 45.4\% | 53.1\% |
| 7/1/2011 | \$ 1,944,214,316 | \$ 2,173,255,647 | \$3,926,525,679 | 49.5\% | 55.3\% |
| 7/1/2010 | \$ 1,771,575,807 | \$ 2,190,654,958 | \$3,672,361,258 | 48.2\% | 59.7\% |
| 7/1/2009 | \$ 1,742,699,083 | \$ 2,268,272,056 | \$3,993,259,480 | 43.6\% | 56.8\% |
| 7/1/2008 | \$ 2,131,625,019 | \$ 2,343,170,793 | \$3,749,118,910 | 56.9\% | 62.5\% |
| 7/1/2007 | \$ 2,312,336,064 | \$ 2,368,209,888 | \$3,426,631,813 | 67.5\% | 69.1\% |

Local Employers

|  |  |  |  | Funded Ratio |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Actuarial Valuation Date | Market Value of Assets ${ }^{1}$ <br> (a) | Actuarial Value of Assets ${ }^{1}$ (b) | Actuarial Accrued Liability (c) | Market Value (a)/(c) | Actuarial Value (b)/(c) |
| 7/1/2016 | \$22,469,694,913 | \$24,420,145,823 | \$32,793,439,210 | 68.5\% | 74.5\% |
| 7/1/2015 | \$23,360,020,456 | \$23,935,037,150 | \$31,205,965,303 | 74.9\% | 76.7\% |
| 7/1/2014 | \$23,143,934,984 | \$23,066,498,788 | \$30,239,286,907 | 76.5\% | 76.3\% |
| 7/1/2013 | \$20,734,802,380 | \$22,170,221,173 | \$28,811,698,272 | 72.0\% | 76.9\% |
| 7/1/2012 | \$19,296,197,115 | \$21,549,327,079 | \$27,705,168,437 | 69.6\% | 77.8\% |
| 7/1/2011 | \$19,405,816,249 | \$21,051,681,692 | \$26,978,632,188 | 71.9\% | 78.0\% |
| 7/1/2010 | \$17,108,014,883 | \$20,367,865,987 | \$25,601,998,126 | 66.8\% | 79.6\% |
| 7/1/2009 | \$16,283,683,457 | \$20,669,565,701 | \$28,448,841,765 | 57.2\% | 72.7\% |
| 7/1/2008 | \$18,907,241,962 | \$20,404,804,535 | \$26,871,106,532 | 70.4\% | 75.9\% |
| 7/1/2007 | \$19,484,653,383 | \$19,575,249,807 | \$24,562,195,443 | 79.3\% | 79.7\% |

[^4]
## E. Schedule of Employer Pension Contributions ${ }^{1}$

State

| Fiscal Year Ending June 30 | Actuarially Determined Contribution ${ }^{3}$ <br> (a) | Actual Pension Contribution <br> (b) | Contribution Deficiency <br> (a) - (b) | Percentage of Contribution Made |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Annual $\text { (b) } /(\mathrm{a})$ | Five-Year Average |
| 2017 | \$ 483,877,347 | \$ 193,550,939 | \$ 290,326,408 | 40.0\% | 32.4\% |
| 2016 | \$ 461,081,051 | \$ 138,324,000 | \$ 322,757,051 | 30.0\% | 27.2\% |
| 2015 | \$ 414,316,953 | \$ 139,297,000 | \$ 275,019,953 | 33.6\% | 21.2\% |
| 2014 | \$ 389,689,529 | \$ 115,623,000 | \$ 274,066,529 | 29.7\% | 14.5\% |
| 2013 | \$ 393,637,547 | \$ 112,468,000 | \$ 281,169,547 | 28.6\% | 9.5\% |
| 2012 | \$ 375,234,766 | \$ 53,606,000 | \$321,628,766 | 14.3\% | 14.1\% |
| 2011 | \$ 339,480,900 | \$ 0 | \$ 339,480,900 | 0.0\% | 22.7\% |
| 2010 | \$ 299,131,628 | \$ 0 | \$ 299,131,628 | 0.0\% | 29.6\% |
| 2009 | \$ 271,788,383 | \$ 13,038,000 | \$ 258,750,383 | 4.8\% |  |
| 2008 | \$ 248,313,283 | \$ 128,032,000 | \$ 120,281,283 | 51.6\% |  |

Local Employers

| Fiscal Year Ending June 30 | Actuarially Determined Contribution ${ }^{3}$ <br> (a) | Actual Pension Contribution <br> (b) | Contribution Deficiency <br> (a) - (b) | Percentage of Contribution Made |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Annual (b)/(a) | Five-Year Average |
| 2017 | \$807,438,390 | \$807,438,390 | \$ 0 | 100.0\% | 100.0\% |
| 2016 | \$804,063,662 | \$804,063,662 | \$ 0 | 100.0\% | 100.0\% |
| 2015 | \$ 760,533,458 | \$ 760,533,458 | \$ 0 | 100.0\% | 100.0\% |
| 2014 | \$ 726,928,577 | \$ 726,928,577 | \$ 0 | 100.0\% | 100.0\% |
| 2013 | \$776,511,374 | \$776,511,374 | \$ 0 | 100.0\% | 94.9\% |
| 2012 | \$ 762,531,584 | \$ 762,531,584 | \$ 0 | 100.0\% | 94.9\% |
| 2011 | \$857,072,909 | \$857,072,909 | \$ 0 | 100.0\% | 90.9\% |
| 2010 | \$ 718,078,464 | \$ 717,576,451 ${ }^{2}$ | \$ 502,013 | 99.9\% | 83.0\% |
| 2009 | \$671,753,023 | \$ 500,500,162 ${ }^{2}$ | \$ 171,252,861 | 74.5\% |  |
| 2008 | \$613,536,348 | \$613,536,348 | \$ 0 | 100.0\% |  |

${ }^{1}$ Excludes contribution for the NCGIPF.
${ }^{2}$ Reflects contribution reductions due to Chapter 19, P.L. 2009.
${ }^{3}$ The information in the above tables has been taken directly from the final valuation reports for each plan year and does not reflect subsequent changes in the actual employer contribution amounts from the reported receivable contribution after the valuation reports were issued.

## Section V - 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 ASC715 (formerly Statement No. 87) Accumulated Benefit Obligation (ABO) basis. This is the same approach as was used under GASB Statement No. 5 except that no assumption is made as to future salary increases and assets are at market value with receivables.

## ASC 715 ABO Funded Ratios

## Valuation Date: June 30, 2016



| Valuation Date: June 30, 2015 |  |  |  |
| :---: | :---: | :---: | :---: |
| Actuarial present value of accumulated benefits: <br> Vested benefits Participants currently receiving payments Other participants | State $\begin{array}{rr} \$ & 3,068,942,554 \\ 817,871,476 \\ \hline \$ & 3,886,814,030 \end{array}$ | Local Employers $\begin{array}{r} \$ 19,956,349,181 \\ \hline \$ 27,412,451,720 \\ \hline \$ 268,800,901 \end{array}$ | Total $\begin{array}{r} \$ 23,025,291,735 \\ 8,230,323,196 \\ \hline \$ 31,255,614,931 \end{array}$ |
| Non-vested benefits Total | $\begin{array}{r} 403,101,939 \\ \hline \$ 4,289,915,969 \end{array}$ | $\frac{2,370,268,742}{\$ 29,739,069,643}$ | $\$ \frac{2,773,370,681}{34,028,985,612}$ |
| Assets at market value ${ }^{1}$ | \$ 1,759,526,168 | \$ 23,171,460,647 | \$ 24,930,986,815 |
| Ratio of assets to total present value | 41.0\% | 77.9\% | 73.3\% |

1. Assets at market value do not include any receivable contribution for the State.

As in the case of the Governmental Accounting Standard Board Statement No. 5, the actuarial present value of vested and non-vested accrued benefits was based on an interest rate of $7.90 \%$ for 2015 and 7.65\% in 2016.

## Appendix A

## Brief Summary of the Benefit and <br> Contribution Provisions as Interpreted <br> For Valuation Purposes

## Eligibility for Membership

Enrollment is restricted to eligible policemen and firemen who are permanent and full-time and who pass the physical and mental fitness requirements. The maximum enrollment age is 35 .

## 1. Definitions

## Plan Year

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

## Credited Service

A year of service is credited for each year an employee is a Member of the Retirement System plus service, if any, covered by a prior service liability.

## Average Final Compensation (AFC)

The average annual compensation for the three consecutive years of Service immediately preceding retirement or the highest three consecutive fiscal years of Membership Service.

## Compensation

Base salary upon which contributions by a Member to the Annuity Savings Fund were based in the last year of Service. For Accidental Death, benefits are computed at the annual rate of salary. In accordance with Chapter 1, P.L. 2010, for members hired on or after May 22, 2010 Compensation cannot exceed the annual maximum wage contribution base for Social Security pursuant to the Federal Insurance Contribution Act.

## Final Compensation (FC)

Annual compensation received by the member in the last 12 months of Credited Service preceding his retirement. In accordance with Chapter 1, P.L. 2010, for members hired on or after May 22, 2010, FC means the average annual compensation for the three fiscal years of membership providing the largest benefit.

## Accumulated Deductions

The sum of all amounts deducted from the compensation of a Member or contributed by him or on his behalf without interest.

## 2. Benefits

## Service Retirement

Eligibility means age 55 or 20 years of credited service for an employee who was a member of the Retirement System as of January 18, 2000 and age 55 for an employee who became a member of the Retirement System after January 18, 2000; mandatory at age 65 (except that a member hired prior to January 1, 1987 may remain a member of the Retirement System until the member attains the earlier of age 68 or 25 years of creditable service). Benefit is an annual retirement allowance equal to a member annuity plus an employer pension which together equals the greater of:
i. 1/60th of FC for each year of Credited Service; or
ii. $\quad 2 \%$ of FC multiplied by years of Credited Service up to 30 plus $1 \%$ of FC multiplied by years of Service over 30. (Prior to January 18, 2000, this benefit was based on AFC rather than FC. However, Policy Memorandum 4-2000, which interpreted the provisions of Chapter 428, P.L. 1999, authorized the change in the salary basis).
iii. $50 \%$ of FC if the member has 20 or more years of Credited Service.

Chapter 428 also requires that, in addition to the $50 \%$ of FC benefit, any member as of January 18, 2000 who will have 20 or more years of Credited Service and is required to retire upon attaining age 65 (except that a member hired prior to January 1, 1987 may remain a member of the System until the member attains the earlier of age 68 or 25 years of creditable service), shall receive an additional benefit equal to $3 \%$ of FC for each year of Credited Service over 20 years but not over 25 years.

## Special Retirement

After completion of 25 years of Credited Service. The annual retirement benefit is equal to a member annuity plus an employer pension which together equal 65\% of FC plus 1\% of FC for each year of Credited Service over 25. Effective for members hired after June 28, 2011, the annual retirement benefit is equal to a member annuity plus an employer pension which together equal $60 \%$ of FC plus $1 \%$ of FC for each year of Credited Service over 25. There is a maximum benefit of $70 \%$ of FC ( $65 \%$ of FC for members hired after June 28, 2011) except for those members with 30 or more years of Credited Service on June 30, 1979.

## Vested Termination

A. Eligible upon termination of service prior to age 55 and prior to 10 years of Credited Service. The benefit equals a refund of Accumulated Deductions less any outstanding loans.
B. Eligible upon termination of service prior to age 55 and after 10 years of Credited Service (but less than 20 years of Credited Service if a member on or prior to January 18, 2000 or less than 25 years of service if a member after January 18, 2000). The benefit is a deferred retirement benefit, commencing at age 55, equal to a member annuity plus an employer pension which together provide a retirement allowance equal to $2 \%$ of FC multiplied by years of Credited Service up to 30 plus 1\% of FC multiplied by years of Credited Service over 30.

## Death Benefits

## Ordinary Death Benefit - Lump Sum

1. If a member dies prior to retirement, the benefit payable is as follows:

A lump sum amount equal to $3-1 / 2$ times FC payable to the member's beneficiary.
2. After retirement but prior to age 55 , the benefit is as follows:
i. For death while a Disabled Retiree the benefit is equal to 3-1/2 times Compensation.
ii. For death while a Deferred Retiree the benefit is equal to his Accumulated Deductions.
iii. For death while a Retiree who has completed 20 years of Credited Service, the benefit is equal to $1 / 2$ times $F$.
3. After retirement and after age 55 , the benefit payable is equal to $1 / 2$ times Compensation. (Note: If a Member is not disabled, 10 years of Credited Service is required for Members enrolling after July 1, 1971.)

## Ordinary Death Benefit - Survivor Annuity

1. If a member dies prior to retirement, the benefit payable to a widow (widower) is equal to $50 \%$ of FC ( $20 \%$ of FC payable to one child, $35 \%$ of FC payable to two children or $50 \%$ of FC payable to three or more children if there is no surviving widow or widower or if the widow or widower dies or remarries or $25 \%$ of FC payable to one parent or $40 \%$ of FC payable to two parents if no surviving widow, widower or child. If no widow, widower, child or parent, the benefit payable to a beneficiary is the aggregate Accumulated Contributions at the time of death).
2. For any member who retired after December 18, 1967, the benefit payable to a widow (widower) is equal to $50 \%$ of FC plus $15 \%$ of FC for one child and $25 \%$ of FC for two or more children.

If no spouse, or spouse remarries, the benefit is equal to $20 \%$ of FC for one child, $35 \%$ for two children, and $50 \%$ for three or more children.

There is also a minimum benefit payable to widows (widowers) of \$4,500 a year.
3. For any member who retired with an Accidental Disability Benefit, the benefit payable is equal to $\$ 4,500$ a year to the widow (widower). If there is no widow (widower) the benefit payable is $\$ 600$ a year for 1 child, $\$ 960$ a year for 2 children, and $\$ 1,500$ a year for 3 or more children. The benefit for children is payable until age 18.

## Accidental Death Benefit

A death while active resulting from injuries received from an accident during performance of duty is eligible for a lump sum equal to the Accumulated Deductions plus 3-1/2 times Compensation plus an annuity benefit payable is as follows:
i. The benefit to a widow or widower is equal to $70 \%$ of Compensation.
ii. The benefit, when there is no spouse, or spouse is remarried, is equal to $20 \%$ of Compensation for one child, $35 \%$ for two children, $50 \%$ for three or more children. The benefit is payable while the children are under age 18, or until age 24 if they are full-time students, or it is payable for life if they are disabled.
iii. The benefit, when there is no spouse or children, is equal to $25 \%$ of Compensation for one parent and $40 \%$ for two parents.
iv. The benefit, when there is no relation as stated above, is equal to the Accumulated Deductions and is payable to a beneficiary or to the Member's estate. This is also the minimum benefit payable under i., ii. and iii.

## Disability Benefits

## Ordinary Disability Retirement

A Member is eligible for Ordinary Disability Retirement if he (she) has 4 years of Service and is totally and permanently incapacitated from the performance of usual or available duties. The benefit is equal to the greater of:
i $\quad 1-1 / 2 \%$ of FC times the number of years of Credited Service; or
ii. $40 \%$ of FC .

In addition, a member who has at least 20 years but less than 25 years of Credited Service and who is required to retire upon application by the employer on and after January 18, 2000 shall receive a benefit equal to a member annuity plus an employer pension which together provide a total retirement allowance equal to $50 \%$ of FC plus $3 \%$ of FC multiplied by the number of years of Credited Service over 20 but not over 25.

## Accidental Disability Retirement

A Member is eligible upon total and permanent incapacitation from the performance of usual or available duties as a result of injury during the performance of regular duties. The benefit payable is equal to a Member annuity plus an employer pension which together equals $2 / 3$ of the Compensation at date of injury.

Special Disability Retirement
A member is eligible for Special Disability Retirement if he (she) has 5 years of Credited Service, is under age 55, and has received a heart transplant. The benefit payable is equal to a Member annuity plus an employer pension which together equals $50 \%$ of FC .
3. Member Contributions

Each Member contributes 10.0\% of Compensation effective October 2011.

## Appendix B

## Outline of Actuarial Assumptions and Method

## Valuation Interest Rate

7.65\% per annum, compounded annually.

## COLA

No future COLA is assumed.

## Compensation Limit Increase

401(a)(17) Limit - 3.00\% per annum, Social Security Wage Base - 4.00\% per annum

## Separations From Service and Salary Increases

Representative values of the assumed annual rates of separation and annual rates of salary increases are as follows:

Annual Rates of

| Age | Select Withdrawal |  |  |  |  | Ultimate Withdrawal <br> After 9 Years |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Up to the |  |  |  |  |  |
|  | 1st Year | 2nd Year | 3rd Year | 4th Year | 5 to 9 Years |  |
| 25 | 6.90\% | 2.03\% | 1.18\% | 0.60\% | 0.35\% | 0.00\% |
| 30 | 9.30 | 2.75 | 1.76 | 1.31 | 0.60 | 0.24 |
| 35 | 9.80 | 3.17 | 1.76 | 1.57 | 0.77 | 0.24 |
| 40 | 13.70 | 2.25 | 1.85 | 1.74 | 0.67 | 0.27 |
| 45 | 3.50 | 2.25 | 1.85 | 2.32 | 1.35 | 0.28 |
| 50 | 0.00 | 2.25 | 1.85 | 2.00 | 1.60 | 0.30 |
| 55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## Annual Rates of

Death

| Age | Ordinary |  | Accidental | Disability |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male* | Female* |  | Ordinary | Accidental |
| 25 | .035\% | .019\% | .006\% | .045\% | .029\% |
| 30 | . 041 | . 025 | . 006 | . 147 | . 278 |
| 35 | . 072 | . 045 | . 008 | . 265 | . 393 |
| 40 | . 100 | . 065 | . 008 | . 362 | . 423 |
| 45 | . 138 | . 103 | . 009 | . 394 | . 396 |
| 50 | . 195 | . 156 | . 009 | . 449 | . 179 |
| 55 | . 282 | . 233 | . 014 | . 554 | . 161 |
| 60 | . 435 | . 335 | . 013 | 1.024 | . 161 |
| 64 | . 593 | . 445 | . 008 | 1.680 | . 161 |
| 65 |  |  |  |  |  |
| and | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

over

* RP2000 Employee Pre-Retirement mortality tables projected thirteen-years using Projection Scale BB and then projected on a generational basis using the Buck Modified 2014 Projection Scales. The above tables are representative for the 2016 valuation.

| Age | Service Retirements Length of Service |  |  |  | Salary Increases Effective July 1, 2016 |  | Salary Increases Effective July 1, 2015 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Less Than 21 Years* | 21 to 24 Years | 25 Year | 26 or More Years | $\begin{gathered} \text { FY2016 to } \\ \text { FY2026 } \end{gathered}$ | $\begin{aligned} & \text { FY2026 } \\ & \text { and } \\ & \text { thereafter } \end{aligned}$ | $\begin{aligned} & \text { FY2012 to } \\ & \text { FY2022 } \end{aligned}$ | $\begin{aligned} & \text { FY2022 } \\ & \text { and } \\ & \text { thereafter } \end{aligned}$ |
| 25 |  |  |  |  | 8.98\% | 9.98\% | 9.48\% | 10.48\% |
| 30 |  |  |  |  | 5.97 | 6.97 | 6.47 | 7.47 |
| 35 |  |  |  |  | 4.17 | 5.17 | 4.67 | 5.67 |
| 40 | 4.00\% | 0.60\% | 45.57\% | 15.40\% | 3.33 | 4.33 | 3.83 | 4.83 |
| 45 | 4.00 | 0.60 | 54.83 | 15.40 | 2.90 | 3.90 | 3.40 | 4.40 |
| 50 | 4.30 | 0.60 | 57.62 | 18.48 | 2.75 | 3.75 | 3.25 | 4.25 |
| 55 | 6.00 | 0.00 | 64.94 | 24.47 | 2.60 | 3.60 | 3.10 | 4.10 |
| 60 | 3.20 | 0.00 | 77.49 | 27.34 | 2.35 | 3.35 | 2.85 | 3.85 |
| 64 | 37.50 | 0.00 | 85.24 | 51.03 | 2.10 | 3.10 | 2.60 | 3.60 |
| 65 |  |  |  |  |  |  |  |  |
| and | 100.00 | 100.00 | 100.00 | 100.00 |  |  |  |  |
| over |  |  |  |  |  |  |  |  |

* Retirement assumption prior to age 55 is for any member as of January 18, 2000 upon completion of 20 years of service.


## Deaths After Retirement

RP-2000 Combined Healthy Mortality Tables projected one year using Projection Scale AA and three years using the Buck Modified 2014 Projection Scales is the base table as of the 2016 measurement date for male service retirements and will be further projected on a generational basis using the Buck Modified 2014 Projection Scales. RP-2000 Combined Healthy Mortality Tables projected thirteen-years using Projection Scale BB and then three years projected using the Buck Modified 2014 Projection Scales is the base table as of the 2016 measurement date for female service retirements and beneficiaries and will be further projected on a generational basis using the Buck Modified 2014 Projection Scales. Special mortality tables are used for the period after disability retirement. The following representative values of the assumed annual rates of mortality are effective 2016:

| Age | Service Retirements |  | Beneficiaries |  | Age | Disability Retirements |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Women | Men | Women |  |  |
| 55 | 0.344\% | 0.250\% | 0.337\% | 0.250\% | 35 | 0.598\% |
| 60 | 0.649 | 0.431 | 0.602 | 0.431 | 40 | 0.634 |
| 65 | 1.221 | 0.794 | 1.059 | 0.794 | 45 | 0.803 |
| 70 | 2.098 | 1.362 | 1.750 | 1.362 | 50 | 1.058 |
| 75 | 3.551 | 2.290 | 2.959 | 2.290 | 55 | 1.210 |
| 80 | 6.055 | 3.741 | 5.026 | 3.741 | 60 | 1.426 |
| 85 | 10.464 | 6.306 | 8.658 | 6.306 | 65 | 1.949 |

## Marriage

Husbands are assumed to be 3 years older than wives. Among the active population, $90 \%$ of participants are assumed married. No children are assumed.

## Valuation Method

Projected Unit Credit Method. This method essentially funds the System's benefits accrued to the valuation date. Experience gains and losses are recognized in future accrued liability contributions. In accordance with Chapter 78, P.L. 2011, beginning with the July 1, 2010 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars, it will amortize the unfunded accrued liability over an open 30 year period. Beginning with the July 1, 2018 actuarial valuation, the accrued liability contribution shall be computed so that if the contribution is paid annually in level dollars it will amortize the unfunded accrued liability over a closed 30 year period (i.e., for each subsequent valuation, the amortization period shall decrease by one year.) Beginning with the July 1, 2028 actuarial valuation, when the remaining amortization period reaches 20 years, any increase or decrease in the unfunded accrued liability as a result of actuarial losses or gains for subsequent valuation years shall serve to increase or decrease, respectively, the amortization period for the unfunded accrued liability, unless an increase in the amortization period will cause it to exceed 20 years. If an increase in the amortization period as a result of actuarial losses for a valuation year would exceed 20 years, the accrued liability contribution shall be computed for the valuation year using a 20 year amortization period.

## Receivable Contributions

State contributions expected to be paid the June $30^{\text {th }}$ following the valuation date are discounted by the valuation interest rate of $7.65 \%$ to the valuation date.

Local contributions expected to be paid the April $1^{\text {st }}$, following the valuation are discounted by the valuation interest rate of $7.65 \%$ to the valuation date.

## Asset Valuation Method

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

## Summary of Changes from the July 1, 2015 Valuation

The rate of investment return has been revised from $7.90 \%$ per annum to $7.65 \%$ per annum. The assumed future salary increases have been reduced by $0.5 \%$ at all ages for both the select and ultimate periods. In addition, the select period was extended from the fiscal year 2021 to the fiscal year 2026. The impact of these assumption changes is shown in Section IV.A.

## Appendix C

Additional Contribution Schedules
A. Additional Accrued Liability Contribution Schedule Due to Chapter 204, P.L. 1989

|  | July 1. 2016 Valuation |  | July 1. 2015 Valuation |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Fiscal Year 2018 Payment* |  | Fiscal Year 2017 Payment* |  |
|  | Recommended | Years Remaining | Recommended | Years Remaining |
| State Locations <br> - Location \#00053:Juv. Jus. Comm/Community Prog. <br> - Location \#00323:Dept. Div. of Human Resources <br> - Location \#00498:Rutgers Biomedical and Health Sciences Total | $\$$ 1,897 <br>  60,917 <br> 3,187  <br> $\$$ 66,001 | $\begin{aligned} & 16 \\ & 16 \\ & 16 \end{aligned}$ | $\$$ 1,810 <br>  58,135 <br>  3,041 <br> $\$$ 62,987 | $\begin{aligned} & 17 \\ & 17 \\ & 17 \end{aligned}$ |
| Municipalities \& Local Groups |  |  |  |  |
| - Location \#21202: Camden City | \$ 92,906 | 16 | \$ 94,634 | 17 |
| - Location \#39300: Belmar Borough | 12,428 | 16 | 12,660 | 17 |
| - Location \#46800: Roxbury Township | 23,520 | 16 | 23,957 | 17 |
| - Location \#49700: West Windsor Township | 34,886 | 16 | 35,535 | 17 |
| - Location \#57700: Sea Isle City | 6,312 | 16 | 6,430 | 17 |
| - Location \#62400: NJ Institute of Technology | 100,650 | 16 | 102,522 | 17 |
| - Location \#62500: Brookdale Community College | 109,369 | 16 | 111,404 | 17 |
| - Location \#62700: Essex County College | 32,869 | 16 | 33,480 | 17 |
| - Location \#75000: Lakewood Twp Fire District \#1 | 17,455 | 16 | 17,779 | 17 |
| - Location \#75700: Middlesex County College | 121,571 | 16 | 123,833 | 17 |
| - Location \#76200: Lower Camden Regional High School - District 1 | 2,624 | 16 | 2,673 | 17 |
| - Location \#77500: Hopewell Twp Fire District \#1 | 10,817 | 16 | 11,018 | 17 |
| - Location \#78600: South Jersey Transit Authority | 53,091 | 16 | 54,078 | 17 |
| - Location \#78700: Washington Township Board of Fire Comm | 18,571 | 16 | 18,916 | 17 |
| - Location \#79600: Upper Freehold Twp Total | $\begin{array}{r} 1,128 \\ \hline \$ 638,197 \end{array}$ | 16 | $\begin{array}{r} 1,149 \\ \$ 650,068 \end{array}$ | 17 |

* Dollar amounts include one year of interest at 7.90\% for fiscal year 2017 and $7.65 \%$ for fiscal year 2018.
B. Summary of Fiscal Year 2018 Contributions For State College Locations

| Location | Location Name | Number of Members | 2016 <br> Appropriation Payroll | Normal Cost | Accrued <br> Liability Contribution | Total <br> Fiscal Year 2018 <br> Pension Contribution | Non-Contributory Group Insurance Premium Fund |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 00410 | Rowan University | 29 | \$ 2,007,925 | \$ 497,664 | \$ 1,582,145 | \$ 2,079,809 | \$ 36,785 |
| 00412 | Kean University | 13 | 951,472 | 235,822 | 749,712 | 985,534 | 17,431 |
| 00413 | William Paterson University of NJ | 22 | 1,510,315 | 374,332 | 1,190,053 | 1,564,385 | 27,669 |
| 00414 | Montclair State University | 35 | 2,557,838 | 633,960 | 2,015,448 | 2,649,408 | 46,860 |
| 00415 | The College of NJ | 10 | 725,769 | 179,882 | 571,870 | 751,752 | 13,296 |
| 00421 | Richard Stockton College of NJ | 17 | 1,057,163 | 262,018 | 832,992 | 1,095,010 | 19,367 |
| 00497 | Rutgers Biomedical and Health Sciences | 37 | 2,716,119 | 673,190 | 2,140,166 | 2,813,356 | 49,759 |
| 00498 | Rutgers Biomedical and Health Sciences | 17 | 1,252,562 | 310,447 | 990,143 | 1,300,590 | 22,947 |
| 62400 | NJ Institute of Technology | 31 | 2,282,548 | 565,730 | 1,899,183 | 2,464,913 | 41,816 |
| 90011 | Rutgers University | 70 | 5,056,304 | 1,253,205 | 3,984,115 | 5,237,320 | 92,631 |
| Total |  | 281 | \$ 20,118,015 | \$4,986,250 | \$ 15,955,827 | \$ 20,942,077 | \$ 368,561 |

## Appendix D

## Additional Census Data Statistics

In response to prior requests from the Board of Trustees, we have performed additional calculations and constructed additional exhibits based on the July 1, 2016 valuation data.

Age Breakdown

1. Average Age at Retirement - split by Special/Service Retirements

The exhibit on page 43 provides information split between Police and Firemen and by type of retirement. The average age at retirement is $53.4,52.7$ and 55.0 for service, special, and deferred retirement, respectively.
2. Average Age at Entry

The average age at entry for Contributing active participants at July 1, 2016 is 26.4. The average age at entry for Non-Contributing active participants at July 1, 2016 is 31.4. The average age at entry for all actives at July 1, 2016 is 26.6.
3. \& 4. Average Age at Death for Active participants and Retired participants.

We have assumed that all deaths between July 1, 2015 and June 30, 2016 occurred at the middle of the plan year; January 1, 2016. Based on this assumption, the average age at death for the various groups is as follows:

| Active Contributing members at July 1, 2015 | 48.0 |
| :--- | :--- |
| Active Non-Contributing members at July 1, 2015 | 48.2 |
| Retired at July 1, 2015 | 77.5 |
| Disabled at July 1, 2015 | 69.5 |
| Beneficiary at July 1, 2015 | 83.7 |
| Terminated Vested at July 1, 2015 | N/A |

5. \& 6. Average Age at Retirement for those who retired under ordinary and accidental disability.

Specific information by category is contained on page 44. The average age at retirement is 42.4 and 40.4 for ordinary and accidental disability, respectively.

1. Police/Firemen split for Active and Retirees

The Police/Firemen split summarized below for plan members can be found in Appendix E of this report.

|  | Policemen | Firemen | Unknown | Total |
| :--- | ---: | ---: | ---: | ---: |
| Active Contributing Members |  |  |  |  |
| Active Non-Contributing Members | 33,037 | 6,352 | 0 | 39,389 |
| Vested Terminated Participants | 1,282 | 118 | 0 | 1,400 |
| Retired Participants | 44 | 3 | 47 |  |
| Disabled Retired Participants | 24,043 | 5,294 | 637 | 29,974 |
| Beneficiaries | 5,119 | 480 | 5,743 |  |
| Total | $\underline{4,023}$ | $\underline{1,173}$ | $\underline{2,098}$ | $\underline{7,294}$ |

## Breakdown of Retired Members and Beneficiaries

1-6. Number of members receiving various benefits.
This information is included in Appendix E of this report and is summarized as follows:

|  | Number of Members |
| :--- | ---: |
| Receiving Special Retirement Benefits | 27,665 |
| Receiving Service Retirement Benefits | 2,124 |
| Receiving Deferred Retirement Benefits | 185 |
| Receiving Ordinary Disability Benefits | 2,922 |
| Receiving Accidental Disability Benefits | 2,821 |

7. Members who died as a result of Accidental Death

We did not receive any information that indicates cause of death for deceased members.
8.-10. Number of Widows, Children, and Other Dependents

This information is included in Tables 9 and 10 of Appendix E of this report and is summarized as follows:

|  | Number |
| :--- | ---: |
| Widows/Widowers | 6,966 |
| Children | 327 |
| Other Dependents | $\frac{1}{7,294}$ |

13. The Number of Beneficiaries and Children receiving benefits due to the accidental death of a member is 103 (99 Beneficiaries, 3 Children and 1 other dependent). We have no information to perform a further S.H.B.P./Local Health Benefits split.

## Breakdown of Costs

The information contained in this section, "Breakdown of Costs", has been calculated in a manner consistent with that shown in prior reports

1. Cost per member for Insurance.

Dividing the total death benefit cost of \$44,702,000 (\$8,893,000 for State location and $\$ 35,809,000$ for Local groups) by the number of active contributing members of 39,389 gives the total cost per member for insurance $\$ 1,134.89$.
2. Cost per member for Administration

Dividing the Administrative cost per member $=\$ 4,783,590 / 83,847$ members $=\$ 57.05$.
3.\&4. The normal contribution rates for State Locations and Municipalities and Local Groups are summarized in Section III(I) of this report.
5.\&6. The Accrued Liability rates for State Locations and Municipalities and Local Groups are also summarized in Section III(I) of this report.

## Breakdown of Purchases

We do not receive information on the active data file regarding service purchases.

## Breakdown of Inactive Members

To demonstrate the effect that inactive participants have on costs, we have split the liabilities attributable to beneficiaries used to calculate the Accrued Liability into specific categories. The information summarized below can be found in Section III.E. 1 of this report.

|  | Actuarial Accrued Liability | Percentage of Total Accrued Liability |
| :---: | :---: | :---: |
| Service/Special Retirements | \$ 19,801,865,183 | 52.85\% |
| Disableds | 2,551,477,578 | 6.81\% |
| Beneficiaries | 2,358,641,572 | 6.29\% |
| Deferred Terminated Vesteds | 9,051,936 | 0.02\% |
| Total | \$ 24,721,036,269 | 65.97\% |

The percentage shown on the right is the percent attributable to each inactive piece of the total Accrued Liability of $\$ 37,470,081,250$.

All Healthy Retirees as of July 1, 2016

| Sex | Police or <br> Firemen | Type of <br> Retirement | Counts | Average <br> Years of <br> Service | Average <br> Age at <br> Retirement | Average <br> Annual <br> Benefit | Average <br> Current <br> Age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Police | Service | 1,577 |  | 21.6 | 53.3 | $\$ 43,160$ |
| M | Police | Special | 20,928 | 27.2 | 52.3 | 63,120 | 61.5 |
| M | Police | Deferred | 117 | 15.1 | 55.0 | 13,274 | 69.6 |
| M | Firemen | Service | 151 | 26.9 | 56.3 | 56,378 | 66.1 |
| M | Firemen | Special | 5,087 | 28.4 | 54.2 | 64,385 | 67.6 |
| M | Firemen | Deferred | 47 | 15.6 | 55.0 | 10,597 | 72.1 |
| M | Unknown | Service | 110 | 26.4 | 53.7 | 24,275 | 91.8 |
| M | Unknown | Special | 520 | 27.4 | 53.8 | 30,301 | 87.3 |
| M | Unknown | Deferred | 6 | 17.9 | 55.0 | 9,119 | 86.2 |
| F | Police | Service | 285 | 19.8 | 52.4 | 38,543 | 60.8 |
| F | Police | Special | 1,121 | 25.8 | 52.3 | 62,108 | 58.9 |
| F | Police | Deferred | 15 | 14.5 | 54.5 | 18,713 | 60.2 |
| F | Firemen | Special | 9 | 26.7 | 56.3 | 65,088 | 62.3 |
| F | Unknown | Service | 1 | 25.0 | 56.0 | 19,031 | 96.0 |

New Healthy Retirees as of July 1, 2016

| Sex | Police or <br> Firemen | Type of <br> Retirement | Counts | Average <br> Years of <br> Service | Average <br> Age at <br> Retirement | Average <br> Annual <br> Benefit | Average <br> Current <br> Age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Police | Service | 105 |  |  |  |  |
| M | Police | Special | 1,044 | 22.2 | 51.8 | $\$ 50,055$ | 52.4 |
| M | Police | Deferred | 3 | 26.7 | 51.7 | 75,554 | 52.3 |
| M | Firemen | Service | 5 | 17.1 | 55.0 | 19,934 | 56.0 |
| M | Firemen | Special | 205 | 25.5 | 56.4 | 66,463 | 57.0 |
| M | Firemen | Deferred | 2 | 27.5 | 53.7 | 82,962 | 54.3 |
| F | Police | Service | 24 | 11.0 | 55.0 | 11,903 | 55.0 |
| F | Police | Special | 105 | 21.9 | 49.1 | 48,907 | 49.9 |
| F | Police | Deferred | 1 | 26.1 | 52.2 | 70,922 | 52.7 |
| F | Firemen | Special | 2 | 15.6 | 55.0 | 15,630 | 55.0 |
|  |  |  | 25.1 | 58.0 | 69,702 | 58.0 |  |

## Additional Information Provided For Items 5. \& 6. on Page 40

All Disabilities as of July 1, 2016

| Sex | Police or <br> Firemen | Type of <br> Retirement | Counts | Average <br> Years of <br> Service | Average <br> Age at <br> Retirement | Average <br> Annual <br> Benefit | Average <br> Current <br> Age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Police | Ordinary | 2,071 | 13.7 | 42.3 | $\$ 27,907$ | 57.4 |
| M | Police | Accidental | 2,268 | 13.4 | 40.2 | 49,852 | 53.7 |
| M | Firemen | Ordinary | 277 | 14.3 | 42.7 | 28,327 | 59.5 |
| M | Firemen | Accidental | 197 | 15.2 | 42.8 | 50,697 | 57.9 |
| M | Unknown | Ordinary | 50 | 13.3 | 41.3 | 13,738 | 79.9 |
| M | Unknown | Accidental | 93 | 12.7 | 39.8 | 21,222 | 83.2 |
| F | Police | Ordinary | 517 | 12.8 | 42.7 | 29,262 | 53.6 |
| F | Police | Accidental | 263 | 11.9 | 39.3 | 51,020 | 48.9 |
| F | Firemen | Ordinary | 6 | 10.7 | 36.3 | 27,864 | 42.8 |
| F | Unknown | Ordinary | 1 | 17.3 | 54.0 | 14,424 | 85.0 |

## New Disabilities as of July 1, 2016

| Sex | Police or <br> Firemen | Type of <br> Retirement | Counts | Average <br> Years of <br> Service | Average <br> Age at <br> Retirement | Average <br> Annual <br> Benefit | Average <br> Current <br> Age |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | Police | Ordinary | 62 | 15.0 | 42.7 | $\$ 40,140$ | 43.9 |
| M | Police | Accidental | 91 | 16.5 | 42.8 | 68,780 | 43.6 |
| M | Firemen | Ordinary | 13 | 17.4 | 47.5 | 41,502 | 48.1 |
| M | Firemen | Accidental | 3 | 14.2 | 45.0 | 65,990 | 46.0 |
| F | Police | Ordinary | 27 | 12.9 | 41.7 | 31,950 | 42.9 |
| F | Police | Accidental | 7 | 12.4 | 39.9 | 53,663 | 41.3 |
| F | Firemen | Ordinary | 1 | 10.8 | 40.0 | 34,486 | 40.0 |

Reconciliation of Census Data

The following chart presents a reconciliation of census data from July 1, 2015 to June 30, 2016:

|  | Actives |  | Deferred Vested | Retirees |  |  |  | Beneficiaries | Dependents | Domestic Relations Beneficiaries | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Contrib. | Noncontrib. |  | Service | Special | Deferred | Disabled |  |  |  |  |
| Members as of July 1, 2015 | 39,052 | 1,307 | 51 | 2,057 | 26,801 | 186 | 5,640 | 6,803 | 337 | 2,428 | 84,662 |
| Status Change |  |  |  |  |  |  |  |  |  |  |  |
| To Contributing | 252 | (252) |  |  |  |  |  |  |  |  | 0 |
| To Noncontributing | (535) | 535 |  |  |  |  |  |  |  |  | 0 |
| Terminated Vested | (1) | (1) | 2 |  |  |  |  |  |  |  | 0 |
| Terminated Non-Vested | (81) | (135) |  |  |  |  |  |  |  |  | (216) |
| Service Retirement | (118) | (18) |  | 136 |  |  |  |  |  |  | 0 |
| Special Retirement | $(1,349)$ | (7) |  |  | 1,356 |  |  |  |  |  | 0 |
| Deferred Vesteds Now Payable |  |  | (6) |  |  | 6 |  |  |  |  | 0 |
| New Disabled | (139) | (67) |  |  |  |  | 206 |  |  |  | 0 |
| New Death | (24) | (13) |  | (65) | (501) | (7) | (106) | (283) | (1) | (2) | $(1,002)$ |
| Payments Began |  |  |  |  |  |  |  |  |  | 307 | 307 |
| Payments Ceased |  |  |  |  |  |  |  |  | (41) | (119) | (160) |
| New Actives | 2,332 | 51 |  |  |  |  |  |  |  |  | 2,383 |
| Rehires |  |  |  |  |  |  |  |  |  |  | 0 |
| New Beneficiaries |  |  |  |  |  |  |  | 446 | 33 |  | 479 |
| Data Corrections |  |  |  | (4) | 9 |  | 3 |  |  |  | 8 |
| Members as of June 30, 2016 | 39,389 | 1,400 | 47 | 2,124 | 27,665 | 185 | 5,743 | 6,966 | 328 | 2,614 | 86,461 |

Active Member Fifth Age and Service Distribution
The following charts present distributions of active members by age and service
State Locations And Municipalities And Local Groups ${ }^{1}$

| Age | Service | 1 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 and Above | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Number Salary | $\begin{array}{r} 307 \\ 13,405,772 \\ \hline \end{array}$ | $\begin{array}{r} 2 \\ 98,377 \\ \hline \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 309 \\ 13,504,149 \\ \hline \end{array}$ |
| 25 | Number Salary | $\begin{array}{r} 2,818 \\ 138,107,393 \end{array}$ | $\begin{array}{r} 760 \\ 48,393,099 \end{array}$ | $\begin{array}{r} 17 \\ 1,282,308 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 3,595 \\ 187,782,800 \end{array}$ |
| 30 | Number Salary | $\begin{array}{r} 1,952 \\ 99,675,745 \end{array}$ | $\begin{array}{r} 2,753 \\ 202,219,927 \end{array}$ | $\begin{array}{r} 1,587 \\ 141,343,694 \end{array}$ | $\begin{array}{r} 50 \\ 4,879,570 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 6,342 \\ 448,118,936 \end{array}$ |
| 35 | Number Salary | $\begin{array}{r} 708 \\ 36,667,957 \end{array}$ | $\begin{array}{r} 1,413 \\ 107,512,147 \\ \hline \end{array}$ | $\begin{array}{r} 3,601 \\ 342,564,235 \end{array}$ | $\begin{array}{r} 1,631 \\ 168,844,308 \\ \hline \end{array}$ | $\begin{array}{r} 27 \\ 2,864,581 \\ \hline \end{array}$ |  |  |  |  | $\begin{array}{r} 7,380 \\ 658,453,228 \\ \hline \end{array}$ |
| 40 | Number Salary | $\begin{array}{r} 134 \\ 7,368,208 \end{array}$ | $\begin{array}{r} 522 \\ 40,523,028 \end{array}$ | $\begin{array}{r} 1,923 \\ 182,257,175 \end{array}$ | $\begin{array}{r} 3,485 \\ 367,815,680 \end{array}$ | $\begin{array}{r} 1,275 \\ 146,415,834 \end{array}$ | $\begin{array}{r} 33 \\ 3,649,986 \end{array}$ |  |  |  | $\begin{array}{r} 7,372 \\ 748,029,911 \end{array}$ |
| 45 | Number Salary | $\begin{array}{r} 6 \\ 246,199 \end{array}$ | $\begin{array}{r} 82 \\ 6,643,417 \end{array}$ | $\begin{array}{r} 1,026 \\ 95,028,170 \end{array}$ | $\begin{array}{r} 2,484 \\ 254,296,888 \\ \hline \end{array}$ | $\begin{array}{r} 3,754 \\ 431,259,305 \\ \hline \end{array}$ | $\begin{array}{r} 1,112 \\ 137,467,982 \end{array}$ | $\begin{array}{r} 18 \\ 2,497,396 \end{array}$ |  |  | $\begin{array}{r} 8,482 \\ 927,439,357 \\ \hline \end{array}$ |
| 50 | Number Salary | $\begin{array}{r} 8 \\ 247,997 \end{array}$ | 6 251,637 | $\begin{array}{r} 144 \\ 11,930,217 \end{array}$ | $\begin{array}{r} 883 \\ 88,459,583 \end{array}$ | $\begin{array}{r} 1,846 \\ 205,589,632 \end{array}$ | $\begin{array}{r} 1,483 \\ 184,305,378 \end{array}$ | $\begin{array}{r} 384 \\ 53,327,950 \end{array}$ | $\begin{array}{r} 3 \\ 428,448 \end{array}$ |  | $\begin{array}{r} 4,757 \\ 544,540,842 \end{array}$ |
| 55 | Number Salary |  | $\begin{array}{r} 5 \\ 395,828 \end{array}$ | $\begin{array}{r} 35 \\ 2,012,562 \end{array}$ | $\begin{array}{r} 119 \\ 11,098,541 \end{array}$ | $\begin{array}{r} 632 \\ 68,676,361 \end{array}$ | $\begin{array}{r} 558 \\ 66,178,400 \end{array}$ | $\begin{array}{r} 386 \\ 53,423,092 \end{array}$ | $\begin{array}{r} 129 \\ 18,881,209 \end{array}$ | $\begin{array}{r} 1 \\ 94,204 \end{array}$ | $\begin{array}{r} 1,865 \\ 220,760,197 \end{array}$ |
| 60 | Number Salary | $\begin{array}{r} 3 \\ 251,445 \end{array}$ | $\begin{array}{r} 4 \\ 151,948 \end{array}$ | $\begin{array}{r} 12 \\ 577,631 \end{array}$ | $\begin{array}{r} 15 \\ 1,117,136 \end{array}$ | $\begin{array}{r} 144 \\ 14,264,678 \end{array}$ | $\begin{array}{r} 163 \\ 18,277,865 \end{array}$ | $\begin{array}{r} 94 \\ 12,029,326 \end{array}$ | $\begin{array}{r} 116 \\ 17,985,589 \end{array}$ | $\begin{array}{r} 30 \\ 4,786,697 \end{array}$ | $\begin{array}{r} 581 \\ 69,442,315 \end{array}$ |
| 63 | Number Salary | $\begin{array}{r} 1 \\ 17,735 \end{array}$ | 3 105,692 | 8 8 | 9 400,410 | 30 $2,264,564$ | 13 $1,362,120$ | 1,140,586 | 15 $2,133,284$ | $\begin{array}{r} 16 \\ 2,696,002 \end{array}$ | $\begin{array}{r} 106 \\ 10,452,625 \end{array}$ |
| Total | Number Salary | $\begin{array}{r} 5,937 \\ 295,988,451 \end{array}$ | $\begin{array}{r} 5,550 \\ 406,295,100 \end{array}$ | $\begin{array}{r} 8,353 \\ 777,328,224 \end{array}$ | $\begin{array}{r} 8,676 \\ 896,912,116 \end{array}$ | $\begin{array}{r} 7,708 \\ 871,334,955 \end{array}$ | $\begin{array}{r} 3,362 \\ 411,241,731 \end{array}$ | r 893 | $\begin{array}{r} 263 \\ 39,428,530 \end{array}$ | $\begin{array}{r} 47 \\ 7,576,903 \end{array}$ | $\begin{array}{r} 40,789 \\ 3,828,524,360 \end{array}$ |
| ${ }^{1}$ Based on limited annual compensation. |  |  |  |  |  |  |  |  |  |  |  |

Average Age: 40.3 Years
Average Service: 13.7 Years
Average Salary: \$93,862
Number Vested: 27,716
Number Non Vested: 13,073

State Locations ${ }^{1}$

| Age | Service | 1 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 and <br> Above | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Number Salary | $\begin{array}{r} 103 \\ 4,316,396 \end{array}$ | $\begin{array}{r} 1 \\ 56,229 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 104 \\ 4,372,625 \\ \hline \end{array}$ |
| 25 | Number Salary | $\begin{array}{r} 581 \\ 25,711,493 \end{array}$ | $\begin{array}{r} 186 \\ 10,911,453 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 767 \\ 36,622,946 \end{array}$ |
| 30 | Number Salary | $\begin{array}{r} 354 \\ 16,400,610 \end{array}$ | $\begin{array}{r} 511 \\ 32,428,742 \end{array}$ | $\begin{array}{r} 182 \\ 12,747,987 \end{array}$ | $\begin{array}{r} 3 \\ 204,926 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 1,050 \\ 61,782,265 \end{array}$ |
| 35 | Number Salary | $\begin{array}{r} 141 \\ 6,608,026 \end{array}$ | $\begin{array}{r} 331 \\ 21,855,298 \end{array}$ | $\begin{array}{r} 505 \\ 37,863,593 \end{array}$ | $\begin{array}{r} 242 \\ 19,825,598 \end{array}$ | $\begin{array}{r} 3 \\ 244,505 \end{array}$ |  |  |  |  | $\begin{array}{r} 1,222 \\ 86,397,020 \end{array}$ |
| 40 | Number Salary | $\begin{array}{r} 28 \\ 1,368,350 \end{array}$ | $\begin{array}{r} 123 \\ 8,265,497 \end{array}$ | $\begin{array}{r} 384 \\ 29,632,327 \end{array}$ | $\begin{array}{r} 646 \\ 55,508,782 \end{array}$ | $\begin{array}{r} 168 \\ 15,074,261 \end{array}$ | $\begin{array}{r} 7 \\ 636,594 \end{array}$ |  |  |  | $\begin{array}{r} 1,356 \\ 110,485,811 \\ \hline \end{array}$ |
| 45 | Number Salary | $\begin{array}{r} 1 \\ 50,105 \end{array}$ | $\begin{array}{r} 18 \\ 1,283,915 \end{array}$ | $\begin{array}{r} 220 \\ 17,012,138 \end{array}$ | $\begin{array}{r} 540 \\ 46,026,340 \end{array}$ | $\begin{array}{r} 505 \\ 45,922,472 \end{array}$ | $\begin{array}{r} 106 \\ 9,662,851 \end{array}$ | $\begin{array}{r} 2 \\ 208,980 \end{array}$ |  |  | $\begin{array}{r} 1,392 \\ 120,166,801 \\ \hline \end{array}$ |
| 50 | Number Salary | $\begin{array}{r} 3 \\ 96,951 \end{array}$ |  | 41 $2,926,247$ | 230 $19,614,728$ | $\begin{array}{r} 287 \\ 25,516,113 \end{array}$ | $\begin{array}{r} 137 \\ 12,489,187 \end{array}$ | $\begin{array}{r} 13 \\ 1,214,895 \end{array}$ |  |  | $\begin{array}{r} 712 \\ 61,896,790 \end{array}$ |
| 55 | Number Salary |  |  |  | $\begin{array}{r} 18 \\ 1,361,853 \end{array}$ | $\begin{array}{r} 88 \\ 7,816,197 \end{array}$ | $\begin{array}{r} 61 \\ 5,420,955 \end{array}$ | $\begin{array}{r} 20 \\ 1,774,030 \end{array}$ | $\begin{array}{r} 4 \\ 454,432 \end{array}$ |  | $\begin{array}{r} 197 \\ 17,175,345 \end{array}$ |
| 60 | Number Salary | $\begin{array}{r} 1 \\ 15,489 \end{array}$ |  | 4 4 | 7 488,216 | 40 $3,353,534$ | 36 $3,123,691$ | 4 344,328 | 1 133,004 | $\begin{array}{r} 1 \\ 124,077 \end{array}$ | $\begin{array}{r} 94 \\ 7,789,302 \end{array}$ |
| 63 | Number Salary | $\begin{array}{r} 1 \\ 17,735 \end{array}$ |  | $\begin{array}{r} 4 \\ 208,288 \end{array}$ | $\begin{array}{r} 1 \\ 68,724 \end{array}$ | $\begin{array}{r} 10 \\ 735,698 \end{array}$ | $\begin{array}{r} 1 \\ 83,030 \end{array}$ |  |  |  | $\begin{array}{r} 17 \\ 1,113,475 \end{array}$ |
| Total | Number Salary | $\begin{array}{r} 1,213 \\ 54,585,155 \\ \hline \end{array}$ | $\begin{array}{r} 1,171 \\ 74,839,803 \end{array}$ | $\begin{array}{r} 1,346 \\ 100,945,421 \\ \hline \end{array}$ | $\begin{array}{r} 1,687 \\ 143,099,167 \\ \hline \end{array}$ | $\begin{array}{r} 1,101 \\ 98,662,780 \end{array}$ | 348 $31,416,308$ | 39 $3,542,233$ | 5 587,436 | $\begin{array}{r} 1 \\ 124,077 \end{array}$ | $\begin{array}{r} 6,911 \\ 507,802,380 \\ \hline \end{array}$ |

Average Age: 39.44 Years
Average Service: 12.1 Years
Average Salary: \$73,477
Number Vested: 4,279
Number Non Vested: 2,632
There are 50 State employer locations who have reported payroll for the July 1, 2016 valuation.

Municipalities And Local Groups ${ }^{1}$

| Age | Service | 1 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 and Above | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Number Salary | $\begin{array}{r} 204 \\ 9,089,376 \end{array}$ | $\begin{array}{r} 1 \\ 42,148 \end{array}$ |  |  |  |  |  |  |  | $\begin{array}{r} 205 \\ 9,131,524 \end{array}$ |
| 25 | Number Salary | $\begin{array}{r} 2,237 \\ 112,395,900 \end{array}$ | $\begin{array}{r} 574 \\ 37,481,646 \end{array}$ | $\begin{array}{r} 17 \\ 1,282,308 \end{array}$ |  |  |  |  |  |  | $\begin{array}{r} 2,828 \\ 151,159,854 \end{array}$ |
| 30 | Number Salary | $\begin{array}{r} 1,598 \\ 83,275,135 \end{array}$ | $\begin{array}{r} 2,242 \\ 169,791,185 \end{array}$ | $\begin{array}{r} 1,405 \\ 128,595,707 \end{array}$ | $\begin{array}{r} 47 \\ 4,674,644 \end{array}$ |  |  |  |  |  | $\begin{array}{r} 5,292 \\ 386,336,671 \end{array}$ |
| 35 | Number Salary | $\begin{array}{r} 567 \\ 30,059,931 \end{array}$ | $\begin{array}{r} 1,082 \\ 85,656,849 \end{array}$ | $\begin{array}{r} 3,096 \\ 304,700,642 \end{array}$ | $\begin{array}{r} 1,389 \\ 149,018,710 \end{array}$ | $\begin{array}{r} 24 \\ 2,620,076 \end{array}$ |  |  |  |  | $\begin{array}{r} 6,158 \\ 572,056,208 \end{array}$ |
| 40 | Number Salary | $\begin{array}{r} 106 \\ 5,999,858 \end{array}$ | $\begin{array}{r} 399 \\ 32,257,531 \end{array}$ | $\begin{array}{r} 1,539 \\ 152,624,848 \end{array}$ | $\begin{array}{r} 2,839 \\ 312,306,898 \end{array}$ | $\begin{array}{r} 1,107 \\ 131,341,573 \end{array}$ | $\begin{array}{r} 26 \\ 3,013,392 \end{array}$ |  |  |  | $\begin{array}{r} 6,016 \\ 637,544,100 \end{array}$ |
| 45 | Number Salary | $\begin{array}{r} 5 \\ 196,094 \end{array}$ | 64 $5,359,502$ | $\begin{array}{r} 806 \\ 78,016,032 \end{array}$ | $\begin{array}{r} 1,944 \\ 208,270,548 \\ \hline \end{array}$ | $\begin{array}{r} 3,249 \\ 385,336,833 \\ \hline \end{array}$ | $\begin{array}{r} 1,006 \\ 127,805,131 \\ \hline \end{array}$ | $\begin{array}{r} 16 \\ 2,288,416 \end{array}$ |  |  | $\begin{array}{r} 7,090 \\ 807,272,556 \\ \hline \end{array}$ |
| 50 | Number Salary | $\begin{array}{r} 5 \\ 151,046 \end{array}$ |  | $\begin{array}{r} 103 \\ 9,003,970 \end{array}$ | $\begin{array}{r} 653 \\ 68,844,855 \end{array}$ | $\begin{array}{r} 1,559 \\ 180,073,519 \end{array}$ | $\begin{array}{r} 1,346 \\ 171,816,191 \end{array}$ | $\begin{array}{r} 371 \\ 52,113,055 \end{array}$ | $\begin{array}{r} 3 \\ 428,448 \end{array}$ |  | $\begin{array}{r} 4,045 \\ 482,644,052 \end{array}$ |
| 55 | Number Salary |  |  |  |  |  |  |  | $\begin{array}{r} 125 \\ 18,426,777 \end{array}$ | $\begin{array}{r} 1 \\ 94,204 \end{array}$ | $\begin{array}{r} 1,668 \\ 203,584,852 \\ \hline \end{array}$ |
| 60 | Number Salary | $\begin{array}{r} 2 \\ 235,956 \end{array}$ | 4 151,948 | 8 370,668 | 8 628,920 | 104 $10,911,144$ | 127 $15,154,174$ | 90 $11,684,998$ | 115 $17,852,585$ | $\begin{array}{r} 29 \\ 4,662,620 \end{array}$ | $\begin{array}{r} 487 \\ 61,653,013 \end{array}$ |
| 63 | Number Salary |  | 3 105,692 | 4 123,944 | 8 331,686 | 20 | 12 $1,279,090$ | 11 $1,140,586$ | 15 $2,133,284$ | 16 $2,696,002$ | 89 $9,339,150$ |
| Total | Number Salary | $\begin{array}{r} 4,724 \\ \mathbf{2 4 1 , 4 0 3 , 2 9 6} \\ \hline \end{array}$ | $\begin{array}{r} 4,379 \\ 331,455,297 \\ \hline \end{array}$ | 7,007 $676,382,803$ | $\begin{array}{r} 6,989 \\ 753,812,949 \\ \hline \end{array}$ | $\begin{array}{r} 6,607 \\ 772,672,175 \\ \hline \end{array}$ | 3,014 $379,825,423$ | 854 $118,876,117$ | $\begin{array}{r} 258 \\ 38,841,094 \end{array}$ | 46 $7,452,826$ | $\begin{array}{r} 33,878 \\ 3,320,721,980 \end{array}$ |

${ }^{1}$ Based on limited annual compensation.
Average Age: 40.5 Years
Average Service: 14.1 Years
Average Salary: \$98,020
Number Vested: 23,437
Number Non Vested: 10,441
There are 586 Local employer locations who have reported payroll for the July 1, 2016 valuation.

Average Age And Average Annual Benefit At Retirement

|  | Service Retirement |  |  | Special Retirement (25 <br> Years of Service) |  |  | Ordinary Disability |  |  | Accidental Disability |  |  | Survivors |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average Age At Retirement |  | rage Benefit rement | Average Age At Retirement |  | erage <br> Benefit irement | Average Age <br> At Retirement |  | rage Benefit rement | Average Age At Retirement |  | rage Benefit rement | Average Age At Retirement * |  | rage Benefit irement |
| State <br> All Retirees <br> New Retirees | $\begin{aligned} & 56.4 \\ & 54.1 \end{aligned}$ | \$ | $\begin{aligned} & 31,132 \\ & 42,931 \end{aligned}$ | $\begin{aligned} & 52.1 \\ & 51.8 \end{aligned}$ |  | $\begin{array}{r} 52,247 \\ 62,226 \\ \hline \end{array}$ | $\begin{array}{r} 45.8 \\ 43.0 \\ \hline \end{array}$ | \$ | $\begin{aligned} & 25,457 \\ & 31,532 \end{aligned}$ | $\begin{aligned} & 40.5 \\ & 44.2 \end{aligned}$ |  | $\begin{aligned} & 42,207 \\ & 55,117 \end{aligned}$ | $\begin{aligned} & 45.4 \\ & 45.8 \end{aligned}$ | \$ | $\begin{aligned} & 30,530 \\ & 27,375 \end{aligned}$ |
| Local <br> All Retirees New Retirees | 52.7 50.8 | \$ | $\begin{aligned} & 41,381 \\ & 55,504 \end{aligned}$ | 52.8 52.1 | \$ | $\begin{aligned} & 60,416 \\ & 82,700 \end{aligned}$ | 41.2 43.0 | \$ | $\begin{aligned} & 26,109 \\ & 42,581 \end{aligned}$ | $\begin{aligned} & 40.3 \\ & 42.4 \end{aligned}$ | \$ | $\begin{aligned} & 46,214 \\ & 71,836 \end{aligned}$ | 47.6 47.2 | \$ | $\begin{aligned} & 23,535 \\ & 29,539 \end{aligned}$ |


|  | All Retirements <br> (excluding Survivors) |  |  |
| :---: | :---: | :---: | ---: |
|  | Average Age At <br> Retirement | Average Annual <br> Benefit At <br> Retirement |  |
| State |  |  |  |
| All Retirees <br> Local | 50.9 | $\$$ | 46,216 |
| All Retirees |  |  |  |

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

* Calculated as of Member's Date of Retirement


## Appendix E

Tabulations Used as a Basis for the 2016 Valuation
The following tables give the distribution of the number and salaries of members by age and length of service as of July 1, 2016. Tables are also given showing the number and retirement allowances of beneficiaries classified by age as of July 1, 2016.

## Table 1

The Number And Annual Compensation Of
Contributing Active Members Distributed By Age
As Of July 1, 2016

## State And Local

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 20 | 2 | \$ | 80,000 | 1 | \$ | 40,000 |
| 21 | 25 |  | 1,171,556 | 5 |  | 233,344 |
| 22 | 82 |  | 3,520,009 | 11 |  | 465,690 |
| 23 | 154 |  | 6,845,986 | 19 |  | 838,837 |
| 24 | 304 |  | 14,533,928 | 42 |  | 1,885,021 |
| 25 | 462 |  | 23,022,410 | 62 |  | 2,979,570 |
| 26 | 659 |  | 33,388,885 | 75 |  | 3,573,274 |
| 27 | 761 |  | 40,485,030 | 85 |  | 4,458,749 |
| 28 | 884 |  | 50,648,260 | 101 |  | 5,558,800 |
| 29 | 1,006 |  | 61,933,253 | 102 |  | 5,949,815 |
| 30 | 1,019 |  | 67,705,598 | 113 |  | 6,914,391 |
| 31 | 1,165 |  | 83,589,179 | 117 |  | 8,238,506 |
| 32 | 1,131 |  | 86,226,868 | 130 |  | 8,840,137 |
| 33 | 1,222 |  | 97,228,893 | 141 |  | 10,704,925 |
| 34 | 1,281 |  | 109,384,009 | 153 |  | 12,096,763 |
| 35 | 1,309 |  | 113,782,853 | 183 |  | 15,363,187 |
| 36 | 1,184 |  | 106,787,508 | 176 |  | 14,985,063 |
| 37 | 1,187 |  | 110,946,616 | 185 |  | 16,380,706 |
| 38 | 1,313 |  | 126,065,069 | 191 |  | 16,697,337 |
| 39 | 1,292 |  | 126,169,633 | 182 |  | 16,200,804 |
| 40 | 1,222 |  | 122,899,118 | 157 |  | 15,037,755 |
| 41 | 1,178 |  | 122,320,677 | 156 |  | 14,436,335 |
| 42 | 1,338 |  | 140,084,552 | 165 |  | 15,945,435 |
| 43 | 1,330 |  | 143,234,004 | 172 |  | 16,882,013 |
| 44 | 1,486 |  | 161,182,030 | 151 |  | 15,119,334 |
| 45 | 1,565 |  | 170,298,410 | 196 |  | 19,360,168 |
| 46 | 1,588 |  | 176,719,302 | 167 |  | 17,177,871 |
| 47 | 1,539 |  | 173,317,863 | 145 |  | 14,495,519 |
| 48 | 1,304 |  | 148,672,484 | 107 |  | 10,683,412 |
| 49 | 1,106 |  | 126,335,167 | 91 |  | 8,861,304 |
| 50 | 940 |  | 110,724,753 | 90 |  | 8,821,960 |
| 51 | 859 |  | 100,873,121 | 77 |  | 7,784,582 |
| 52 | 757 |  | 91,243,090 | 38 |  | 4,174,015 |
| 53 | 550 |  | 64,715,240 | 55 |  | 5,844,716 |
| 54 | 446 |  | 53,298,119 | 31 |  | 3,081,969 |
| 55 | 392 |  | 48,471,744 | 23 |  | 2,399,685 |
| 56 | 332 |  | 41,166,066 | 28 |  | 2,684,157 |
| 57 | 268 |  | 32,136,354 | 19 |  | 1,979,419 |
| 58 | 213 |  | 26,909,641 | 13 |  | 1,357,632 |

Table 1

The Number And Annual Compensation Of
Contributing Active Members Distributed By Age
As Of July 1, 2016

State And Local
(Continued)

| Age | Men |  |  | Women |  |
| :---: | ---: | ---: | ---: | ---: | ---: |
|  | Number | Amount |  | Number | Amount |
| 59 | 147 | $\$$ | $17,975,154$ | 12 | $\$$ |
| 60 | 128 | $16,176,634$ | 6 | $5,230,054$ |  |
| 61 | 102 | $13,145,903$ | 6 | 549,711 |  |
| 62 | 79 | $9,811,105$ | 3 | 620,506 |  |
| 63 | 37 | $4,835,608$ | 4 | 304,822 |  |
| 64 | 52 | $7,183,216$ | 3 | 393,877 |  |
|  |  |  |  | 280,396 |  |
| Total | 35,400 | $\$$ | $3,387,244,898$ | 3,989 | $\$$ |

The 39,389 total active contributing participants included in the July 1, 2016 valuation data consist of 33,037 policemen and 6,352 firemen.

Table 1A
The Number And Annual Compensation Of
Contributing Active Members Distributed By Age
As Of July 1, 2016
State Only

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 20 | 2 | \$ | 80,000 | 1 | \$ | 40,000 |
| 21 | 4 |  | 160,000 | 1 |  | 40,000 |
| 22 | 30 |  | 1,244,637 | 9 |  | 368,958 |
| 23 | 45 |  | 1,923,198 | 10 |  | 431,353 |
| 24 | 83 |  | 3,710,662 | 17 |  | 737,609 |
| 25 | 94 |  | 4,376,564 | 20 |  | 951,438 |
| 26 | 118 |  | 5,415,426 | 23 |  | 1,065,882 |
| 27 | 145 |  | 6,827,478 | 27 |  | 1,384,829 |
| 28 | 170 |  | 8,827,144 | 28 |  | 1,427,104 |
| 29 | 168 |  | 9,183,053 | 32 |  | 1,701,380 |
| 30 | 150 |  | 8,602,442 | 32 |  | 1,757,159 |
| 31 | 156 |  | 9,041,169 | 29 |  | 1,785,410 |
| 32 | 170 |  | 10,409,456 | 44 |  | 2,653,753 |
| 33 | 194 |  | 12,445,638 | 37 |  | 2,292,815 |
| 34 | 182 |  | 11,880,825 | 45 |  | 3,016,493 |
| 35 | 185 |  | 12,463,056 | 51 |  | 3,509,453 |
| 36 | 181 |  | 12,999,444 | 35 |  | 2,499,752 |
| 37 | 175 |  | 12,832,624 | 52 |  | 3,838,876 |
| 38 | 213 |  | 15,939,313 | 47 |  | 3,647,285 |
| 39 | 232 |  | 18,338,737 | 52 |  | 4,041,280 |
| 40 | 199 |  | 16,041,468 | 42 |  | 3,420,613 |
| 41 | 198 |  | 16,384,701 | 49 |  | 3,942,853 |
| 42 | 220 |  | 18,466,582 | 52 |  | 4,273,287 |
| 43 | 208 |  | 17,529,528 | 52 |  | 4,219,981 |
| 44 | 229 |  | 19,471,770 | 36 |  | 3,021,510 |
| 45 | 247 |  | 21,400,432 | 61 |  | 5,095,840 |
| 46 | 241 |  | 20,992,130 | 46 |  | 4,029,431 |
| 47 | 196 |  | 17,341,893 | 55 |  | 4,728,513 |
| 48 | 190 |  | 16,599,548 | 38 |  | 3,274,396 |
| 49 | 150 |  | 13,201,241 | 42 |  | 3,712,240 |
| 50 | 120 |  | 10,505,681 | 28 |  | 2,414,896 |
| 51 | 105 |  | 9,180,371 | 31 |  | 2,717,250 |
| 52 | 88 |  | 7,912,318 | 9 |  | 817,559 |
| 53 | 70 |  | 6,224,960 | 17 |  | 1,526,792 |
| 54 | 52 |  | 4,652,361 | 8 |  | 688,361 |
| 55 | 25 |  | 2,208,192 | 8 |  | 754,009 |
| 56 | 24 |  | 2,094,506 | 9 |  | 796,361 |
| 57 | 33 |  | 2,915,062 | 4 |  | 374,843 |
| 58 | 19 |  | 1,757,527 |  |  |  |

Table 1A

The Number And Annual Compensation Of
Contributing Active Members Distributed By Age
As Of July 1, 2016
State Only
(Continued)

| Age | Men |  |  | Women |  |
| :---: | ---: | ---: | ---: | ---: | ---: |
|  | Number |  | Amount |  | Number |
| 59 | 16 | $\$$ | $1,326,160$ | Amount |  |
| 60 | 13 | $1,183,330$ | 3 | 261,298 |  |
| 61 | 17 | $1,506,523$ | 3 | 255,799 |  |
| 62 | 14 | $1,241,053$ | 3 | 249,090 |  |
| 63 | 5 | 411,492 | 1 | 83,030 |  |
| 64 | 3 | 249,090 | 1 | 124,077 |  |
|  |  |  | 2 | 166,060 |  |
| Total | 5,379 | $\$$ | $397,498,785$ | 1,192 | $\$$ |

The 6,571 total State active contributing participants included in the July 1, 2016 valuation data consist of 6,528 policemen and 43 firemen.

## Table 1B

The Number And Annual Compensation Of
Contributing Active Members Distributed By Age
As Of July 1, 2016
Local Only

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 21 | 21 | \$ | 1,011,556 | 4 | \$ | 193,344 |
| 22 | 52 |  | 2,275,372 | 2 |  | 96,732 |
| 23 | 109 |  | 4,922,788 | 9 |  | 407,484 |
| 24 | 221 |  | 10,823,266 | 25 |  | 1,147,412 |
| 25 | 368 |  | 18,645,846 | 42 |  | 2,028,132 |
| 26 | 541 |  | 27,973,459 | 52 |  | 2,507,392 |
| 27 | 616 |  | 33,657,552 | 58 |  | 3,073,920 |
| 28 | 714 |  | 41,821,116 | 73 |  | 4,131,696 |
| 29 | 838 |  | 52,750,200 | 70 |  | 4,248,435 |
| 30 | 869 |  | 59,103,156 | 81 |  | 5,157,232 |
| 31 | 1,009 |  | 74,548,010 | 88 |  | 6,453,096 |
| 32 | 961 |  | 75,817,412 | 86 |  | 6,186,384 |
| 33 | 1,028 |  | 84,783,255 | 104 |  | 8,412,110 |
| 34 | 1,099 |  | 97,503,184 | 108 |  | 9,080,270 |
| 35 | 1,124 |  | 101,319,797 | 132 |  | 11,853,734 |
| 36 | 1,003 |  | 93,788,064 | 141 |  | 12,485,311 |
| 37 | 1,012 |  | 98,113,992 | 133 |  | 12,541,830 |
| 38 | 1,100 |  | 110,125,756 | 144 |  | 13,050,052 |
| 39 | 1,060 |  | 107,830,896 | 130 |  | 12,159,524 |
| 40 | 1,023 |  | 106,857,650 | 115 |  | 11,617,142 |
| 41 | 980 |  | 105,935,976 | 107 |  | 10,493,482 |
| 42 | 1,118 |  | 121,617,970 | 113 |  | 11,672,148 |
| 43 | 1,122 |  | 125,704,476 | 120 |  | 12,662,032 |
| 44 | 1,257 |  | 141,710,260 | 115 |  | 12,097,824 |
| 45 | 1,318 |  | 148,897,978 | 135 |  | 14,264,328 |
| 46 | 1,347 |  | 155,727,172 | 121 |  | 13,148,440 |
| 47 | 1,343 |  | 155,975,970 | 90 |  | 9,767,006 |
| 48 | 1,114 |  | 132,072,936 | 69 |  | 7,409,016 |
| 49 | 956 |  | 113,133,926 | 49 |  | 5,149,064 |
| 50 | 820 |  | 100,219,072 | 62 |  | 6,407,064 |
| 51 | 754 |  | 91,692,750 | 46 |  | 5,067,332 |
| 52 | 669 |  | 83,330,772 | 29 |  | 3,356,456 |
| 53 | 480 |  | 58,490,280 | 38 |  | 4,317,924 |
| 54 | 394 |  | 48,645,758 | 23 |  | 2,393,608 |
| 55 | 367 |  | 46,263,552 | 15 |  | 1,645,676 |
| 56 | 308 |  | 39,071,560 | 19 |  | 1,887,796 |
| 57 | 235 |  | 29,221,292 | 15 |  | 1,604,576 |
| 58 | 194 |  | 25,152,114 | 13 |  | 1,357,632 |
| 59 | 131 |  | 16,648,994 | 9 |  | 968,756 |

Table 1B

The Number And Annual Compensation Of
Contributing Active Members Distributed By Age
As Of July 1, 2016
Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 60 | 115 | $\$$ | $14,993,304$ | 3 | $\$$ |  |
| 61 | 85 | $11,639,380$ | 3 | 293,912 |  |  |
| 62 | 65 | $8,570,052$ | 2 | 271,416 |  |  |
| 63 | 32 | $4,424,116$ | 3 | 221,792 |  |  |
| 64 | 49 | $6,934,126$ | 1 | 269,800 |  |  |
|  |  |  |  | 114,336 |  |  |
|  | 30,021 | $\$$ | $2,989,746,113$ | 2,797 | $\$$ |  |
| Total |  |  |  | $253,772,648$ |  |  |

The 32,818 total Local active contributing participants included in the July 1, 2016 valuation data consist of 26,509 policemen and 6,309 firemen.

Table 2
The Number And Annual Compensation Of
Contributing Active Members Distributed By Service
As Of July 1, 2016
State And Local

| Years of Service | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 0 | 298 | \$ | 12,381,540 | 53 | \$ | 2,206,491 |
| 1 | 1,739 |  | 78,678,529 | 200 |  | 9,211,447 |
| 2 | 1,535 |  | 78,467,501 | 204 |  | 10,103,722 |
| 3 | 1,419 |  | 81,729,717 | 172 |  | 9,499,500 |
| 4 | 1,149 |  | 73,340,309 | 111 |  | 6,695,634 |
| 5 | 883 |  | 60,809,914 | 85 |  | 5,605,166 |
| 6 | 577 |  | 41,935,246 | 59 |  | 4,228,401 |
| 7 | 893 |  | 70,761,521 | 120 |  | 9,183,163 |
| 8 | 1,305 |  | 108,200,949 | 159 |  | 11,999,485 |
| 9 | 1,367 |  | 120,879,593 | 182 |  | 14,550,885 |
| 10 | 1,405 |  | 129,992,905 | 202 |  | 17,497,873 |
| 11 | 1,612 |  | 155,048,219 | 234 |  | 20,774,743 |
| 12 | 1,256 |  | 123,198,332 | 162 |  | 14,207,017 |
| 13 | 1,284 |  | 128,200,539 | 245 |  | 22,801,113 |
| 14 | 1,350 |  | 135,681,488 | 244 |  | 23,146,000 |
| 15 | 1,452 |  | 148,010,834 | 186 |  | 17,790,488 |
| 16 | 1,608 |  | 168,474,728 | 192 |  | 19,130,293 |
| 17 | 1,496 |  | 160,505,819 | 155 |  | 15,685,747 |
| 18 | 1,528 |  | 166,071,407 | 170 |  | 17,321,107 |
| 19 | 1,561 |  | 168,418,865 | 145 |  | 14,587,648 |
| 20 | 1,205 |  | 134,031,670 | 138 |  | 14,601,689 |
| 21 | 1,430 |  | 166,630,081 | 148 |  | 15,688,179 |
| 22 | 1,648 |  | 194,266,427 | 113 |  | 12,095,218 |
| 23 | 1,105 |  | 130,119,531 | 89 |  | 9,243,605 |
| 24 | 1,005 |  | 119,767,081 | 76 |  | 7,865,580 |
| 25 | 793 |  | 96,253,716 | 48 |  | 5,141,378 |
| 26 | 559 |  | 69,516,875 | 34 |  | 3,869,508 |
| 27 | 394 |  | 50,982,486 | 21 |  | 2,299,809 |
| 28 | 384 |  | 50,454,518 | 16 |  | 1,854,915 |
| 29 | 297 |  | 39,415,175 | 14 |  | 1,625,164 |
| 30 | 218 |  | 30,232,364 | 4 |  | 477,592 |
| 31 | 178 |  | 25,139,670 | 3 |  | 341,040 |
| 32 | 106 |  | 15,347,302 | 2 |  | 191,404 |
| 33 | 59 |  | 8,365,450 | 1 |  | 112,542 |
| 34 | 58 |  | 8,400,662 | 1 |  | 169,292 |
| 35 | 68 |  | 9,942,059 |  |  |  |
| 36 | 49 |  | 7,319,339 |  |  |  |
| 37 | 58 |  | 9,085,444 |  |  |  |
| 38 | 25 |  | 4,019,020 | 1 |  | 108,728 |
| 39 | 18 |  | 2,833,364 |  |  |  |

Table 2

The Number And Annual Compensation Of
Contributing Active Members Distributed By Service
As Of July 1, 2016
State And Local
(Continued)

| Years of Service | Men |  |  | Women |  |
| :---: | ---: | ---: | ---: | ---: | :---: |
|  | Number | Amount |  | Number |  |
| 40 | 6 | $\$$ | $1,090,072$ |  |  |
| Amount |  |  |  |  |  |
| 41 | 3 | 478,489 |  |  |  |
| 42 | 11 | $1,729,360$ |  |  |  |
| 43 | 5 | 911,832 |  |  |  |
| 46 | 1 | 124,956 |  |  |  |
|  |  |  |  |  |  |
| Total | 35,400 | $\$$ | $3,387,244,898$ | 3,989 |  |

The 39,389 total active contributing participants included in the July 1, 2016 valuation data consist of 33,037 policemen and 6,352 firemen.

Table 2A
The Number And Annual Compensation Of
Contributing Active Members Distributed By Service
As Of July 1, 2016
State Only

| Years of Service | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 0 | 90 | \$ | 3,600,000 | 28 | \$ | 1,141,283 |
| 1 | 361 |  | 15,328,921 | 57 |  | 2,551,423 |
| 2 | 266 |  | 12,384,237 | 74 |  | 3,480,751 |
| 3 | 212 |  | 10,458,444 | 48 |  | 2,392,422 |
| 4 | 239 |  | 13,703,999 | 49 |  | 2,806,206 |
| 5 | 230 |  | 14,471,666 | 41 |  | 2,585,678 |
| 6 | 75 |  | 4,773,910 | 12 |  | 734,843 |
| 7 | 114 |  | 7,690,425 | 23 |  | 1,543,131 |
| 8 | 280 |  | 19,355,683 | 54 |  | 3,787,959 |
| 9 | 190 |  | 13,483,101 | 49 |  | 3,430,413 |
| 10 | 198 |  | 14,654,733 | 51 |  | 3,771,426 |
| 11 | 187 |  | 13,840,871 | 66 |  | 4,912,295 |
| 12 | 208 |  | 16,250,934 | 52 |  | 4,083,195 |
| 13 | 173 |  | 13,838,547 | 67 |  | 5,318,571 |
| 14 | 250 |  | 20,681,494 | 81 |  | 6,687,012 |
| 15 | 294 |  | 24,620,238 | 59 |  | 4,920,616 |
| 16 | 279 |  | 23,856,454 | 52 |  | 4,384,657 |
| 17 | 226 |  | 19,347,713 | 47 |  | 4,177,441 |
| 18 | 276 |  | 24,228,887 | 54 |  | 4,802,591 |
| 19 | 361 |  | 32,522,525 | 56 |  | 4,988,532 |
| 20 | 176 |  | 15,357,434 | 31 |  | 2,815,593 |
| 21 | 117 |  | 10,467,473 | 33 |  | 2,959,503 |
| 22 | 133 |  | 12,017,687 | 27 |  | 2,553,092 |
| 23 | 113 |  | 10,369,547 | 24 |  | 2,248,969 |
| 24 | 131 |  | 11,728,329 | 32 |  | 2,856,260 |
| 25 | 67 |  | 6,050,124 | 13 |  | 1,117,078 |
| 26 | 47 |  | 4,411,965 | 5 |  | 457,720 |
| 27 | 29 |  | 2,653,994 | 3 |  | 244,505 |
| 28 | 13 |  | 1,208,246 | 3 |  | 273,211 |
| 29 | 23 |  | 2,183,359 |  |  |  |
| 30 | 6 |  | 486,596 |  |  |  |
| 31 | 5 |  | 419,066 |  |  |  |
| 32 | 3 |  | 257,640 |  |  |  |
| 33 | 1 |  | 83,030 | 1 |  | 112,542 |
| 35 | 2 |  | 188,921 |  |  |  |
| 36 | 2 |  | 265,511 |  |  |  |
| 37 | 1 |  | 133,004 |  |  |  |
| 41 | 1 |  | 124,077 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 5,379 | \$ | 397,498,785 | 1,192 | \$ | 88,138,918 |

The 6,571 total State active contributing participants included in the July 1, 2016 valuation data consist of 6,528 policemen and 43 firemen.

## Table 2B

The Number And Annual Compensation Of
Contributing Active Members Distributed By Service
As Of July 1, 2016
Local Only

| Years of Service | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 0 | 208 | \$ | 8,781,540 | 25 | \$ | 1,065,208 |
| 1 | 1,378 |  | 63,349,608 | 143 |  | 6,660,024 |
| 2 | 1,269 |  | 66,083,264 | 130 |  | 6,622,971 |
| 3 | 1,207 |  | 71,271,273 | 124 |  | 7,107,078 |
| 4 | 910 |  | 59,636,310 | 62 |  | 3,889,428 |
| 5 | 653 |  | 46,338,248 | 44 |  | 3,019,488 |
| 6 | 502 |  | 37,161,336 | 47 |  | 3,493,558 |
| 7 | 779 |  | 63,071,096 | 97 |  | 7,640,032 |
| 8 | 1,025 |  | 88,845,266 | 105 |  | 8,211,526 |
| 9 | 1,177 |  | 107,396,492 | 133 |  | 11,120,472 |
| 10 | 1,207 |  | 115,338,172 | 151 |  | 13,726,447 |
| 11 | 1,425 |  | 141,207,348 | 168 |  | 15,862,448 |
| 12 | 1,048 |  | 106,947,398 | 110 |  | 10,123,822 |
| 13 | 1,111 |  | 114,361,992 | 178 |  | 17,482,542 |
| 14 | 1,100 |  | 114,999,994 | 163 |  | 16,458,988 |
| 15 | 1,158 |  | 123,390,596 | 127 |  | 12,869,872 |
| 16 | 1,329 |  | 144,618,274 | 140 |  | 14,745,636 |
| 17 | 1,270 |  | 141,158,106 | 108 |  | 11,508,306 |
| 18 | 1,252 |  | 141,842,520 | 116 |  | 12,518,516 |
| 19 | 1,200 |  | 135,896,340 | 89 |  | 9,599,116 |
| 20 | 1,029 |  | 118,674,236 | 107 |  | 11,786,096 |
| 21 | 1,313 |  | 156,162,608 | 115 |  | 12,728,676 |
| 22 | 1,515 |  | 182,248,740 | 86 |  | 9,542,126 |
| 23 | 992 |  | 119,749,984 | 65 |  | 6,994,636 |
| 24 | 874 |  | 108,038,752 | 44 |  | 5,009,320 |
| 25 | 726 |  | 90,203,592 | 35 |  | 4,024,300 |
| 26 | 512 |  | 65,104,910 | 29 |  | 3,411,788 |
| 27 | 365 |  | 48,328,492 | 18 |  | 2,055,304 |
| 28 | 371 |  | 49,246,272 | 13 |  | 1,581,704 |
| 29 | 274 |  | 37,231,816 | 14 |  | 1,625,164 |
| 30 | 212 |  | 29,745,768 | 4 |  | 477,592 |
| 31 | 173 |  | 24,720,604 | 3 |  | 341,040 |
| 32 | 103 |  | 15,089,662 | 2 |  | 191,404 |
| 33 | 58 |  | 8,282,420 |  |  |  |
| 34 | 58 |  | 8,400,662 | 1 |  | 169,292 |
| 35 | 66 |  | 9,753,138 |  |  |  |
| 36 | 47 |  | 7,053,828 |  |  |  |
| 37 | 57 |  | 8,952,440 |  |  |  |
| 38 | 25 |  | 4,019,020 | 1 |  | 108,728 |
| 39 | 18 |  | 2,833,364 |  |  |  |

Table 2B

The Number And Annual Compensation Of
Contributing Active Members Distributed By Service
As Of July 1, 2016
Local Only
(Continued)

| Years of Service | Men |  |  | Women |  |
| :---: | ---: | ---: | ---: | ---: | :---: |
|  | Number | Amount |  | Number |  |
| 40 | 6 | $\$$ | $1,090,072$ |  |  |
| Amount |  |  |  |  |  |
| 41 | 2 | 354,412 |  |  |  |
| 42 | 11 | $1,729,360$ |  |  |  |
| 43 | 5 | 911,832 |  |  |  |
| 46 | 1 | 124,956 |  |  |  |
|  |  |  |  |  |  |
| Total | 30,021 | $\$$ | $2,989,746,113$ | 2,797 |  |

The 32,818 total Local active contributing participants included in the July 1, 2016 valuation data consist of 26,509 policemen and 6,309 firemen.

Table 3

The Number And Annual Compensation Of
Non-Contributing Active Members Distributed By Age
As Of July 1, 2016
State And Local

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 22 | 3 | \$ | 85,739 | 1 | \$ | 40,000 |
| 23 | 4 |  | 103,144 | 2 |  | 79,844 |
| 24 | 9 |  | 402,844 | 3 |  | 100,495 |
| 25 | 25 |  | 1,024,964 | 5 |  | 246,213 |
| 26 | 23 |  | 1,019,219 | 6 |  | 278,290 |
| 27 | 40 |  | 1,772,731 | 3 |  | 136,239 |
| 28 | 42 |  | 2,062,705 | 4 |  | 205,171 |
| 29 | 41 |  | 2,183,166 | 7 |  | 372,727 |
| 30 | 27 |  | 1,436,140 | 6 |  | 314,773 |
| 31 | 38 |  | 1,914,001 | 3 |  | 127,307 |
| 32 | 35 |  | 1,953,841 | 5 |  | 315,316 |
| 33 | 32 |  | 2,077,128 | 2 |  | 92,976 |
| 34 | 41 |  | 2,744,164 | 9 |  | 613,461 |
| 35 | 27 |  | 2,010,725 | 8 |  | 591,646 |
| 36 | 34 |  | 2,455,395 | 10 |  | 763,060 |
| 37 | 36 |  | 2,616,153 | 10 |  | 852,307 |
| 38 | 36 |  | 2,749,897 | 7 |  | 567,310 |
| 39 | 27 |  | 2,330,856 | 8 |  | 589,855 |
| 40 | 29 |  | 2,455,666 | 7 |  | 610,586 |
| 41 | 28 |  | 2,398,008 | 8 |  | 636,184 |
| 42 | 20 |  | 1,496,486 | 12 |  | 973,956 |
| 43 | 33 |  | 2,666,708 | 8 |  | 661,272 |
| 44 | 39 |  | 3,342,980 | 5 |  | 369,015 |
| 45 | 47 |  | 4,102,655 | 6 |  | 586,538 |
| 46 | 48 |  | 4,362,763 | 6 |  | 516,412 |
| 47 | 33 |  | 2,740,874 | 3 |  | 205,398 |
| 48 | 39 |  | 3,595,124 | 8 |  | 591,204 |
| 49 | 40 |  | 3,410,482 | 9 |  | 785,770 |
| 50 | 37 |  | 2,760,632 | 5 |  | 386,801 |
| 51 | 24 |  | 1,974,319 | 8 |  | 603,058 |
| 52 | 36 |  | 2,869,212 | 6 |  | 450,906 |
| 53 | 26 |  | 1,756,343 | 3 |  | 165,378 |
| 54 | 24 |  | 1,756,670 | 4 |  | 299,490 |
| 55 | 24 |  | 1,969,884 | 3 |  | 146,673 |
| 56 | 14 |  | 898,397 | 3 |  | 212,420 |
| 57 | 14 |  | 1,023,090 | 3 |  | 256,968 |
| 58 | 10 |  | 658,487 | 1 |  | 53,332 |
| 59 | 12 |  | 866,539 | 4 |  | 230,098 |
| 60 | 11 |  | 828,729 | 2 |  | 125,935 |
| 61 | 8 |  | 845,816 | 3 |  | 241,954 |
| 62 | 9 |  | 728,932 | 1 |  | 90,436 |

Table 3
The Number And Annual Compensation Of Non-Contributing Active Members Distributed By Age As Of July 1, 2016

State And Local
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number |  | ount |
| 63 | 7 | \$ | 440,501 |  |  |  |
| 64 | 47 |  | 2,734,062 | 4 | \$ | 254,951 |
| Total | 1,179 | \$ | 83,626,171 | 221 | \$ | 15,741,725 |

The 1,400 total active non-contributing participants included in the July 1, 2016 valuation data consist of 1,282 policemen and 118 firemen.

Table 3A
The Number And Annual Compensation Of
Non-Contributing Active Members Distributed By Age
As Of July 1, 2016
State Only

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 22 | 1 | \$ | 44,479 | 1 | \$ | 40,000 |
| 24 | 1 |  | 48,560 | 2 |  | 72,487 |
| 25 | 5 |  | 193,297 | 3 |  | 162,405 |
| 26 | 9 |  | 390,533 | 2 |  | 104,667 |
| 27 | 6 |  | 265,895 | 2 |  | 93,039 |
| 28 | 11 |  | 500,504 | 1 |  | 67,423 |
| 29 | 6 |  | 298,027 | 3 |  | 166,579 |
| 30 | 5 |  | 216,681 | 2 |  | 93,039 |
| 31 | 10 |  | 404,565 | 1 |  | 44,479 |
| 32 | 5 |  | 292,552 | 1 |  | 61,912 |
| 33 | 5 |  | 332,156 |  |  |  |
| 34 | 9 |  | 570,461 | 2 |  | 155,537 |
| 35 | 6 |  | 369,443 | 3 |  | 205,024 |
| 36 | 5 |  | 365,411 | 4 |  | 264,180 |
| 37 | 11 |  | 757,349 | 5 |  | 307,291 |
| 38 | 6 |  | 385,757 | 5 |  | 389,446 |
| 39 | 5 |  | 359,548 | 3 |  | 212,795 |
| 40 | 5 |  | 340,440 | 2 |  | 156,890 |
| 41 | 4 |  | 311,928 | 5 |  | 375,378 |
| 42 | 8 |  | 557,084 | 8 |  | 625,676 |
| 43 | 9 |  | 652,632 | 3 |  | 234,408 |
| 44 | 7 |  | 554,620 | 1 |  | 75,689 |
| 45 | 11 |  | 916,103 | 2 |  | 160,002 |
| 46 | 9 |  | 692,153 | 2 |  | 138,872 |
| 47 | 10 |  | 748,460 | 1 |  | 86,578 |
| 48 | 9 |  | 755,832 | 1 |  | 83,030 |
| 49 | 8 |  | 566,810 | 3 |  | 245,824 |
| 50 | 8 |  | 604,676 | 1 |  | 89,739 |
| 51 | 7 |  | 459,117 | 4 |  | 318,254 |
| 52 | 8 |  | 517,424 | 4 |  | 277,830 |
| 53 | 6 |  | 438,431 | 3 |  | 165,378 |
| 54 | 3 |  | 166,886 | 3 |  | 199,464 |
| 55 | 1 |  | 58,192 | 1 |  | 52,127 |
| 56 | 2 |  | 109,967 | 1 |  | 80,396 |
| 57 | 2 |  | 138,024 | 1 |  | 76,940 |
| 58 | 1 |  | 52,127 |  |  |  |
| 59 | 4 |  | 244,825 | 2 |  | 134,782 |
| 60 | 5 |  | 379,345 | 2 |  | 125,935 |
| 62 | 3 |  | 168,404 |  |  |  |
| 63 | 2 |  | 94,159 |  |  |  |
| 64 | 11 |  | 639,486 | 1 |  | 58,839 |
|  |  |  |  |  |  |  |
| Total | 249 | \$ | 15,962,343 | 91 | \$ | 6,202,334 |

The 340 total State active non-contributing participants included in the July 1, 2016 valuation data consist of 338 policemen and 2 firemen.

Table 3B
The Number And Annual Compensation Of
Non-Contributing Active Members Distributed By Age
As Of July 1, 2016
Local Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 22 | 2 | \$ 41,260 |  |  |
| 23 | 4 | 103,144 | 2 | \$ 79,844 |
| 24 | 8 | 354,284 | 1 | 28,008 |
| 25 | 20 | 831,667 | 2 | 83,808 |
| 26 | 14 | 628,686 | 4 | 173,623 |
| 27 | 34 | 1,506,836 | 1 | 43,200 |
| 28 | 31 | 1,562,201 | 3 | 137,748 |
| 29 | 35 | 1,885,139 | 4 | 206,148 |
| 30 | 22 | 1,219,459 | 4 | 221,734 |
| 31 | 28 | 1,509,436 | 2 | 82,828 |
| 32 | 30 | 1,661,289 | 4 | 253,404 |
| 33 | 27 | 1,744,972 | 2 | 92,976 |
| 34 | 32 | 2,173,703 | 7 | 457,924 |
| 35 | 21 | 1,641,282 | 5 | 386,622 |
| 36 | 29 | 2,089,984 | 6 | 498,880 |
| 37 | 25 | 1,858,804 | 5 | 545,016 |
| 38 | 30 | 2,364,140 | 2 | 177,864 |
| 39 | 22 | 1,971,308 | 5 | 377,060 |
| 40 | 24 | 2,115,226 | 5 | 453,696 |
| 41 | 24 | 2,086,080 | 3 | 260,806 |
| 42 | 12 | 939,402 | 4 | 348,280 |
| 43 | 24 | 2,014,076 | 5 | 426,864 |
| 44 | 32 | 2,788,360 | 4 | 293,326 |
| 45 | 36 | 3,186,552 | 4 | 426,536 |
| 46 | 39 | 3,670,610 | 4 | 377,540 |
| 47 | 23 | 1,992,414 | 2 | 118,820 |
| 48 | 30 | 2,839,292 | 7 | 508,174 |
| 49 | 32 | 2,843,672 | 6 | 539,946 |
| 50 | 29 | 2,155,956 | 4 | 297,062 |
| 51 | 17 | 1,515,202 | 4 | 284,804 |
| 52 | 28 | 2,351,788 | 2 | 173,076 |
| 53 | 20 | 1,317,912 |  |  |
| 54 | 21 | 1,589,784 | 1 | 100,026 |
| 55 | 23 | 1,911,692 | 2 | 94,546 |
| 56 | 12 | 788,430 | 2 | 132,024 |
| 57 | 12 | 885,066 | 2 | 180,028 |
| 58 | 9 | 606,360 | 1 | 53,332 |
| 59 | 8 | 621,714 | 2 | 95,316 |
| 60 | 6 | 449,384 |  |  |
| 61 | 8 | 845,816 | 3 | 241,954 |

Table 3B

The Number And Annual Compensation Of
Non-Contributing Active Members Distributed By Age
As Of July 1, 2016
Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 62 | 6 | \$ | 560,528 | 1 | \$ | 90,436 |
| 63 | 5 |  | 346,342 |  |  |  |
| 64 | 36 |  | 2,094,576 | 3 |  | 196,112 |
|  |  |  |  |  |  |  |
| Total | 930 | \$ | 67,663,828 | 130 | \$ | 9,539,391 |

The 1,060 total Local active non-contributing participants included in the July 1, 2016 valuation data consist of 944 policemen and 116 firemen.

Table 4

The Number And Annual Compensation Of
Non-Contributing Active Members Distributed By Service
As Of July 1, 2016

State And Local

| Years of Service | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 0 | 35 | \$ | 1,226,827 |  |  |  |
| 1 | 116 |  | 4,833,790 | 19 | \$ | 765,462 |
| 2 | 71 |  | 3,199,835 | 17 |  | 758,468 |
| 3 | 52 |  | 2,576,489 | 7 |  | 349,132 |
| 4 | 38 |  | 2,157,909 | 7 |  | 361,366 |
| 5 | 30 |  | 1,715,819 | 3 |  | 190,035 |
| 6 | 38 |  | 2,463,673 | 5 |  | 325,688 |
| 7 | 36 |  | 2,478,237 | 10 |  | 713,402 |
| 8 | 32 |  | 2,408,675 | 10 |  | 720,506 |
| 9 | 28 |  | 1,999,309 | 9 |  | 664,827 |
| 10 | 63 |  | 4,700,705 | 13 |  | 866,703 |
| 11 | 84 |  | 5,846,751 | 21 |  | 1,575,311 |
| 12 | 79 |  | 5,932,652 | 16 |  | 1,211,273 |
| 13 | 74 |  | 5,979,636 | 17 |  | 1,399,838 |
| 14 | 56 |  | 4,635,980 | 18 |  | 1,492,987 |
| 15 | 53 |  | 4,336,093 | 6 |  | 535,382 |
| 16 | 44 |  | 3,698,368 | 10 |  | 788,102 |
| 17 | 52 |  | 4,561,112 | 8 |  | 655,607 |
| 18 | 41 |  | 3,765,970 | 7 |  | 624,602 |
| 19 | 36 |  | 3,174,321 | 5 |  | 525,652 |
| 20 | 26 |  | 2,526,815 | 3 |  | 302,596 |
| 21 | 15 |  | 1,431,907 | 1 |  | 80,396 |
| 22 | 18 |  | 1,726,356 | 2 |  | 195,356 |
| 23 | 17 |  | 1,443,859 | 3 |  | 244,791 |
| 24 | 9 |  | 840,758 | 1 |  | 136,794 |
| 25 | 11 |  | 1,145,527 | 2 |  | 167,013 |
| 26 | 4 |  | 405,736 |  |  |  |
| 27 | 4 |  | 439,056 |  |  |  |
| 28 | 1 |  | 100,980 |  |  |  |
| 29 | 5 |  | 532,868 |  |  |  |
| 30 | 3 |  | 311,110 |  |  |  |
| 31 | 1 |  | 142,584 |  |  |  |
| 33 | 2 |  | 184,084 |  |  |  |
| 34 | 1 |  | 191,604 | 1 |  | 90,436 |
| 35 | 1 |  | 101,946 |  |  |  |
| 39 | 1 |  | 150,876 |  |  |  |
| 41 | 2 | 257,954 |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Total | 1,179 | \$ | 83,626,171 | 221 | \$ | 15,741,725 |

The 1,400 total active non-contributing participants included in the July 1, 2016 valuation data consist of 1,282 policemen and 118 firemen.

Table 4A
The Number And Annual Compensation Of
Non-Contributing Active Members Distributed By Service
As Of July 1, 2016
State Only

| Years of Service | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number | Amount |  |
| 0 | 5 | \$ | 206,963 |  |  |  |
| 1 | 30 |  | 1,197,119 | 8 | \$ | 350,811 |
| 2 | 16 |  | 625,983 | 5 |  | 225,388 |
| 3 | 9 |  | 429,876 | 4 |  | 211,534 |
| 4 | 8 |  | 422,203 | 2 |  | 123,824 |
| 5 | 8 |  | 458,065 | 1 |  | 64,667 |
| 6 | 4 |  | 266,296 | 3 |  | 183,406 |
| 7 | 10 |  | 650,345 | 4 |  | 265,630 |
| 8 | 10 |  | 682,421 | 4 |  | 269,446 |
| 9 | 4 |  | 289,435 | 5 |  | 368,827 |
| 10 | 10 |  | 688,373 | 6 |  | 384,039 |
| 11 | 21 |  | 1,468,701 | 9 |  | 619,913 |
| 12 | 17 |  | 1,116,954 | 7 |  | 517,025 |
| 13 | 18 |  | 1,321,701 | 8 |  | 586,366 |
| 14 | 13 |  | 980,584 | 10 |  | 791,301 |
| 15 | 8 |  | 544,325 | 1 |  | 86,578 |
| 16 | 7 |  | 574,024 | 3 |  | 215,446 |
| 17 | 9 |  | 700,066 | 3 |  | 264,947 |
| 18 | 13 |  | 1,062,180 | 2 |  | 172,612 |
| 19 | 9 |  | 683,293 |  |  |  |
| 20 | 9 |  | 712,333 | 1 |  | 83,030 |
| 21 | 1 |  | 106,265 | 1 |  | 80,396 |
| 22 | 2 |  | 156,488 | 1 |  | 80,396 |
| 23 | 5 |  | 370,487 | 1 |  | 89,739 |
| 24 | 1 |  | 83,030 |  |  |  |
| 25 | 1 |  | 81,803 | 2 |  | 167,013 |
| 26 | 1 |  | 83,030 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 249 | \$ | 15,962,343 | 91 | \$ | 6,202,334 |

The 340 total State active non-contributing participants included in the July 1, 2016 valuation data consist of 338 policemen and 2 firemen.

Table 4B
The Number And Annual Compensation Of
Non-Contributing Active Members Distributed By Service
As Of July 1, 2016

## Local Only

| Years of Service | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 0 | 30 | \$ | 1,019,864 |  |  |  |
| 1 | 86 |  | 3,636,671 | 11 | \$ | 414,651 |
| 2 | 55 |  | 2,573,852 | 12 |  | 533,080 |
| 3 | 43 |  | 2,146,613 | 3 |  | 137,598 |
| 4 | 30 |  | 1,735,706 | 5 |  | 237,542 |
| 5 | 22 |  | 1,257,754 | 2 |  | 125,368 |
| 6 | 34 |  | 2,197,377 | 2 |  | 142,282 |
| 7 | 26 |  | 1,827,892 | 6 |  | 447,772 |
| 8 | 22 |  | 1,726,254 | 6 |  | 451,060 |
| 9 | 24 |  | 1,709,874 | 4 |  | 296,000 |
| 10 | 53 |  | 4,012,332 | 7 |  | 482,664 |
| 11 | 63 |  | 4,378,050 | 12 |  | 955,398 |
| 12 | 62 |  | 4,815,698 | 9 |  | 694,248 |
| 13 | 56 |  | 4,657,935 | 9 |  | 813,472 |
| 14 | 43 |  | 3,655,396 | 8 |  | 701,686 |
| 15 | 45 |  | 3,791,768 | 5 |  | 448,804 |
| 16 | 37 |  | 3,124,344 | 7 |  | 572,656 |
| 17 | 43 |  | 3,861,046 | 5 |  | 390,660 |
| 18 | 28 |  | 2,703,790 | 5 |  | 451,990 |
| 19 | 27 |  | 2,491,028 | 5 |  | 525,652 |
| 20 | 17 |  | 1,814,482 | 2 |  | 219,566 |
| 21 | 14 |  | 1,325,642 |  |  |  |
| 22 | 16 |  | 1,569,868 | 1 |  | 114,960 |
| 23 | 12 |  | 1,073,372 | 2 |  | 155,052 |
| 24 | 8 |  | 757,728 | 1 |  | 136,794 |
| 25 | 10 |  | 1,063,724 |  |  |  |
| 26 | 3 |  | 322,706 |  |  |  |
| 27 | 4 |  | 439,056 |  |  |  |
| 28 | 1 |  | 100,980 |  |  |  |
| 29 | 5 |  | 532,868 |  |  |  |
| 30 | 3 |  | 311,110 |  |  |  |
| 31 | 1 |  | 142,584 |  |  |  |
| 33 | 2 |  | 184,084 |  |  |  |
| 34 | 1 |  | 191,604 | 1 |  | 90,436 |
| 35 | 1 |  | 101,946 |  |  |  |
| 39 | 1 |  | 150,876 |  |  |  |
| 41 | 2 |  | 257,954 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 930 | \$ | 67,663,828 | 130 | \$ | 9,539,391 |

The 1,060 total Local active non-contributing participants included in the July 1, 2016 valuation data consist of 944 policemen and 116 firemen.

Table 5
The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Service Retirements

State And Local

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 40 |  |  | 1 | \$ 51,638 |
| 41 | 3 | \$ 135,233 |  |  |
| 42 | 9 | 453,470 | 3 | 154,083 |
| 43 | 7 | 345,386 | 3 | 111,571 |
| 44 | 20 | 1,131,891 | 1 | 55,004 |
| 45 | 31 | 1,594,437 | 4 | 208,716 |
| 46 | 39 | 1,983,109 | 17 | 852,050 |
| 47 | 60 | 2,924,641 | 7 | 293,330 |
| 48 | 49 | 2,382,208 | 4 | 251,904 |
| 49 | 64 | 3,007,340 | 6 | 290,637 |
| 50 | 59 | 2,949,661 | 15 | 688,728 |
| 51 | 56 | 2,727,807 | 12 | 517,317 |
| 52 | 72 | 3,425,890 | 12 | 562,687 |
| 53 | 41 | 1,849,649 | 11 | 523,928 |
| 54 | 51 | 2,334,098 | 11 | 458,283 |
| 55 | 43 | 1,784,091 | 14 | 601,284 |
| 56 | 63 | 2,548,324 | 5 | 192,892 |
| 57 | 51 | 2,018,223 | 4 | 92,128 |
| 58 | 51 | 1,776,036 | 15 | 553,748 |
| 59 | 42 | 1,635,612 | 12 | 434,653 |
| 60 | 61 | 2,039,590 | 6 | 195,123 |
| 61 | 51 | 1,993,392 | 7 | 195,408 |
| 62 | 45 | 1,731,426 | 11 | 406,982 |
| 63 | 47 | 2,149,002 | 9 | 249,651 |
| 64 | 26 | 915,427 | 6 | 210,194 |
| 65 | 41 | 2,078,785 | 8 | 387,431 |
| 66 | 51 | 2,605,837 | 2 | 91,678 |
| 67 | 60 | 3,138,279 | 5 | 170,158 |
| 68 | 66 | 2,958,101 | 7 | 273,243 |
| 69 | 60 | 3,239,945 | 13 | 542,116 |
| 70 | 73 | 3,564,067 | 3 | 98,081 |
| 71 | 33 | 1,570,140 | 8 | 280,192 |
| 72 | 50 | 2,138,403 | 7 | 199,350 |
| 73 | 53 | 2,421,844 | 6 | 208,463 |
| 74 | 47 | 2,055,006 | 5 | 149,486 |
| 75 | 34 | 1,178,067 | 1 | 13,375 |
| 76 | 40 | 1,698,672 | 2 | 43,823 |
| 77 | 41 | 1,337,882 | 7 | 158,595 |
| 78 | 38 | 949,069 | 8 | 136,346 |
| 79 | 39 | 1,587,378 | 4 | 85,017 |

Table 5
The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Service Retirements
State And Local
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 80 | 23 | \$ | 655,180 | 1 | \$ | 25,136 |
| 81 | 15 |  | 515,564 | 1 |  | 20,575 |
| 82 | 15 |  | 344,572 | 6 |  | 109,088 |
| 83 | 16 |  | 305,938 | 2 |  | 41,055 |
| 84 | 16 |  | 230,036 | 2 |  | 37,696 |
| 85 | 11 |  | 151,365 | 2 |  | 41,094 |
| 86 | 9 |  | 174,705 | 1 |  | 14,557 |
| 87 | 14 |  | 362,813 | 2 |  | 33,967 |
| 88 | 11 |  | 231,898 |  |  |  |
| 89 | 14 |  | 298,280 |  |  |  |
| 90 | 16 |  | 368,379 |  |  |  |
| 91 | 18 |  | 416,070 |  |  |  |
| 92 | 17 |  | 456,882 | 1 |  | 11,482 |
| 93 | 10 |  | 244,144 |  |  |  |
| 94 | 13 |  | 328,203 |  |  |  |
| 95 | 8 |  | 201,988 |  |  |  |
| 96 | 3 |  | 72,144 | 1 |  | 19,031 |
| 97 | 3 |  | 67,823 |  |  |  |
| 98 | 4 |  | 98,935 |  |  |  |
| 99 | 1 |  | 20,245 |  |  |  |
| 100 | 3 |  | 79,387 |  |  |  |
| 102 | 1 |  | 23,136 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 2,008 | \$ | 84,005,105 | 301 | \$ | 11,342,974 |

The 2,309 total service retirements consist of 1,994 policemen, 198 firemen and 117 retirees for whom the information was not reported.

Table 5A
The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Service Retirements

State Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 41 | 1 | \$ 47,619 |  |  |
| 42 | 1 | 41,090 |  |  |
| 43 | 1 | 40,204 |  |  |
| 44 | 2 | 94,612 |  |  |
| 45 | 6 | 281,636 |  |  |
| 46 | 1 | 40,192 | 4 | \$ 180,729 |
| 47 | 10 | 468,502 |  |  |
| 48 | 10 | 428,718 |  |  |
| 49 | 9 | 393,451 | 1 | 41,503 |
| 50 | 5 | 246,528 | 4 | 169,458 |
| 51 | 7 | 292,976 | 1 | 36,415 |
| 52 | 10 | 421,205 | 2 | 83,216 |
| 53 | 5 | 195,470 | 4 | 164,321 |
| 54 | 9 | 335,507 | 6 | 248,198 |
| 55 | 8 | 326,528 | 3 | 120,628 |
| 56 | 10 | 333,779 | 2 | 65,044 |
| 57 | 9 | 255,765 | 4 | 92,128 |
| 58 | 6 | 148,518 | 8 | 281,195 |
| 59 | 8 | 310,266 | 5 | 198,274 |
| 60 | 12 | 390,735 | 2 | 64,913 |
| 61 | 9 | 286,554 | 4 | 68,851 |
| 62 | 5 | 152,903 | 2 | 59,571 |
| 63 | 10 | 374,317 | 4 | 103,881 |
| 64 | 7 | 277,613 | 1 | 39,684 |
| 65 | 10 | 391,789 | 1 | 9,840 |
| 66 | 16 | 633,664 |  |  |
| 67 | 12 | 491,826 | 3 | 97,430 |
| 68 | 21 | 689,033 | 3 | 117,950 |
| 69 | 9 | 324,490 | 5 | 225,433 |
| 70 | 14 | 454,589 | 2 | 60,357 |
| 71 | 10 | 318,463 | 2 | 57,350 |
| 72 | 18 | 510,197 | 4 | 104,407 |
| 73 | 18 | 470,839 | 4 | 158,948 |
| 74 | 13 | 381,653 | 3 | 98,475 |
| 75 | 11 | 326,040 |  |  |
| 76 | 9 | 244,983 | 2 | 43,823 |
| 77 | 13 | 261,110 | 3 | 39,866 |
| 78 | 15 | 277,095 | 2 | 40,703 |
| 79 | 14 | 361,383 | 1 | 25,242 |

## Table 5A

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Service Retirements

State Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | Amount |
| 80 | 6 | \$ | 182,187 |  |  |  |
| 81 | 5 |  | 115,312 | 1 | \$ | 20,576 |
| 82 | 4 |  | 74,024 | 1 |  | 18,636 |
| 83 | 4 |  | 63,779 |  |  |  |
| 84 | 6 |  | 76,858 |  |  |  |
| 85 | 2 |  | 35,668 | 1 |  | 23,515 |
| 86 |  |  |  |  |  |  |
| 87 | 1 |  | 21,416 | 1 |  | 15,817 |
| 88 | 2 |  | 39,254 |  |  |  |
| 89 | 2 |  | 32,385 |  |  |  |
| 90 | 2 |  | 44,186 |  |  |  |
| 91 | 1 |  | 6,350 |  |  |  |
| 92 | 3 |  | 37,057 |  |  |  |
| 93 | 1 |  | 21,457 |  |  |  |
| 94 | 1 |  | 13,346 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 404 | \$ | 13,085,121 | 96 | \$ | 3,176,377 |

The 500 total service retirements consist of 489 policemen, 2 firemen and 9 retirees for whom the information was not reported.

## Table 5B

## The Number And Annual Retirement

Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Service Retirements

Local Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 40 |  |  | 1 | \$ 51,638 |
| 41 | 2 | \$ 87,614 |  |  |
| 42 | 8 | 412,380 | 3 | 154,083 |
| 43 | 6 | 305,182 | 3 | 111,571 |
| 44 | 18 | 1,037,278 | 1 | 55,004 |
| 45 | 25 | 1,312,801 | 4 | 208,716 |
| 46 | 38 | 1,942,917 | 13 | 671,321 |
| 47 | 50 | 2,456,140 | 7 | 293,330 |
| 48 | 39 | 1,953,489 | 4 | 251,904 |
| 49 | 55 | 2,613,888 | 5 | 249,135 |
| 50 | 54 | 2,703,133 | 11 | 519,270 |
| 51 | 49 | 2,434,831 | 11 | 480,903 |
| 52 | 62 | 3,004,684 | 10 | 479,472 |
| 53 | 36 | 1,654,180 | 7 | 359,607 |
| 54 | 42 | 1,998,590 | 5 | 210,085 |
| 55 | 35 | 1,457,563 | 11 | 480,656 |
| 56 | 53 | 2,214,545 | 3 | 127,849 |
| 57 | 42 | 1,762,458 |  |  |
| 58 | 45 | 1,627,517 | 7 | 272,553 |
| 59 | 34 | 1,325,346 | 7 | 236,379 |
| 60 | 49 | 1,648,856 | 4 | 130,209 |
| 61 | 42 | 1,706,838 | 3 | 126,556 |
| 62 | 40 | 1,578,523 | 9 | 347,410 |
| 63 | 37 | 1,774,686 | 5 | 145,769 |
| 64 | 19 | 637,814 | 5 | 170,509 |
| 65 | 31 | 1,686,996 | 7 | 377,590 |
| 66 | 35 | 1,972,173 | 2 | 91,678 |
| 67 | 48 | 2,646,453 | 2 | 72,728 |
| 68 | 45 | 2,269,069 | 4 | 155,293 |
| 69 | 51 | 2,915,455 | 8 | 316,683 |
| 70 | 59 | 3,109,477 | 1 | 37,724 |
| 71 | 23 | 1,251,677 | 6 | 222,842 |
| 72 | 32 | 1,628,207 | 3 | 94,943 |
| 73 | 35 | 1,951,005 | 2 | 49,515 |
| 74 | 34 | 1,673,353 | 2 | 51,011 |
| 75 | 23 | 852,027 | 1 | 13,375 |
| 76 | 31 | 1,453,689 |  |  |
| 77 | 28 | 1,076,772 | 4 | 118,729 |
| 78 | 23 | 671,975 | 6 | 95,643 |
| 79 | 25 | 1,225,995 | 3 | 59,774 |

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Service Retirements

Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 80 | 17 | \$ | 472,994 | 1 | \$ | 25,136 |
| 81 | 10 |  | 400,252 |  |  |  |
| 82 | 11 |  | 270,549 | 5 |  | 90,453 |
| 83 | 12 |  | 242,159 | 2 |  | 41,055 |
| 84 | 10 |  | 153,177 | 2 |  | 37,696 |
| 85 | 9 |  | 115,696 | 1 |  | 17,580 |
| 86 | 9 |  | 174,705 | 1 |  | 14,557 |
| 87 | 13 |  | 341,397 | 1 |  | 18,150 |
| 88 | 9 |  | 192,644 |  |  |  |
| 89 | 12 |  | 265,895 |  |  |  |
| 90 | 14 |  | 324,193 |  |  |  |
| 91 | 17 |  | 409,720 |  |  |  |
| 92 | 14 |  | 419,825 | 1 |  | 11,482 |
| 93 | 9 |  | 222,687 |  |  |  |
| 94 | 12 |  | 314,857 |  |  |  |
| 95 | 8 |  | 201,988 |  |  |  |
| 96 | 3 |  | 72,144 | 1 |  | 19,031 |
| 97 | 3 |  | 67,823 |  |  |  |
| 98 | 4 |  | 98,935 |  |  |  |
| 99 | 1 |  | 20,245 |  |  |  |
| 100 | 3 |  | 79,387 |  |  |  |
| 102 | 1 |  | 23,136 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 1,604 | \$ | 70,919,984 | 205 | \$ | 8,166,597 |

The 1,809 total service retirements consist of 1,505 policemen, 196 firemen and 108 retirees for whom the information was not reported.

Table 6

## The Number And Annual Retirement

Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Special Retirements

## State And Local

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 44 | 6 | \$ | 394,231 | 2 | \$ | 117,229 |
| 45 | 44 |  | 3,125,314 | 5 |  | 367,118 |
| 46 | 110 |  | 7,891,100 | 7 |  | 405,478 |
| 47 | 186 |  | 13,428,505 | 11 |  | 749,001 |
| 48 | 282 |  | 20,449,147 | 25 |  | 1,672,200 |
| 49 | 399 |  | 29,685,173 | 40 |  | 2,703,141 |
| 50 | 563 |  | 41,750,229 | 50 |  | 3,481,070 |
| 51 | 650 |  | 47,572,732 | 48 |  | 3,510,151 |
| 52 | 752 |  | 55,544,830 | 63 |  | 4,123,832 |
| 53 | 789 |  | 58,074,521 | 56 |  | 3,818,040 |
| 54 | 757 |  | 54,426,818 | 67 |  | 4,098,495 |
| 55 | 876 |  | 63,013,386 | 63 |  | 3,997,468 |
| 56 | 855 |  | 60,888,074 | 51 |  | 3,420,830 |
| 57 | 867 |  | 62,730,913 | 63 |  | 4,138,879 |
| 58 | 853 |  | 62,056,125 | 55 |  | 3,510,258 |
| 59 | 969 |  | 69,692,410 | 56 |  | 3,754,047 |
| 60 | 933 |  | 66,462,737 | 42 |  | 2,729,281 |
| 61 | 1036 |  | 72,179,025 | 59 |  | 3,333,699 |
| 62 | 951 |  | 65,727,650 | 48 |  | 2,857,019 |
| 63 | 907 |  | 61,783,962 | 46 |  | 2,713,095 |
| 64 | 861 |  | 57,959,648 | 28 |  | 1,607,877 |
| 65 | 885 |  | 58,354,131 | 41 |  | 2,402,900 |
| 66 | 869 |  | 57,287,825 | 37 |  | 2,186,219 |
| 67 | 928 |  | 59,270,044 | 26 |  | 1,426,746 |
| 68 | 895 |  | 57,473,314 | 17 |  | 943,380 |
| 69 | 988 |  | 59,429,545 | 20 |  | 1,135,791 |
| 70 | 929 |  | 55,374,591 | 17 |  | 889,412 |
| 71 | 673 |  | 39,031,878 | 11 |  | 615,618 |
| 72 | 647 |  | 36,018,653 | 9 |  | 502,990 |
| 73 | 737 |  | 41,261,562 | 11 |  | 529,297 |
| 74 | 744 |  | 39,942,365 | 7 |  | 354,737 |
| 75 | 545 |  | 30,134,468 | 10 |  | 433,384 |
| 76 | 492 |  | 25,384,471 | 5 |  | 251,470 |
| 77 | 456 |  | 24,200,076 | 4 |  | 167,516 |
| 78 | 427 |  | 21,715,988 | 3 |  | 143,087 |
| 79 | 362 |  | 18,137,406 | 8 |  | 399,918 |
| 80 | 343 |  | 16,872,438 | 4 |  | 166,113 |
| 81 | 280 |  | 13,207,062 | 4 |  | 207,144 |
| 82 | 239 |  | 10,651,365 | 4 |  | 167,496 |
| 83 | 231 |  | 10,371,271 |  |  |  |
| 84 | 199 |  | 8,641,132 |  |  |  |
| 85 | 207 |  | 8,687,419 | 2 |  | 100,808 |

Table 6

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

Special Retirements

State And Local
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 86 | 170 | \$ | 6,790,891 |  |  |  |
| 87 | 125 |  | 4,965,918 | 1 | \$ | 49,379 |
| 88 | 100 |  | 3,953,394 |  |  |  |
| 89 | 106 |  | 4,086,854 |  |  |  |
| 90 | 104 |  | 3,837,307 |  |  |  |
| 91 | 62 |  | 2,431,541 | 1 |  | 32,008 |
| 92 | 51 |  | 1,679,325 | 1 |  | 29,176 |
| 93 | 35 |  | 1,297,182 | 1 |  | 34,598 |
| 94 | 19 |  | 686,417 |  |  |  |
| 95 | 21 |  | 701,870 |  |  |  |
| 96 | 7 |  | 276,076 | 1 |  | 27,057 |
| 97 | 5 |  | 168,409 |  |  |  |
| 98 | 2 |  | 88,792 |  |  |  |
| 99 | 4 |  | 113,563 |  |  |  |
| 100 | 2 |  | 49,728 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 26,535 | \$ | 1,697,410,801 | 1,130 | \$ | 70,304,452 |

The 27,665 total special retirements consist of 22,049 policemen, 5,096 firemen and 520 retirees for whom the information was not reported.

Table 6A
The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Special Retirements

## State Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 44 | 2 | \$ 103,193 |  |  |
| 45 | 12 | 686,263 | 1 | \$ 53,639 |
| 46 | 23 | 1,358,319 | 2 | 107,349 |
| 47 | 36 | 2,121,801 | 2 | 117,955 |
| 48 | 58 | 3,427,597 | 7 | 423,234 |
| 49 | 74 | 4,342,922 | 11 | 643,568 |
| 50 | 123 | 7,346,032 | 22 | 1,329,295 |
| 51 | 140 | 8,104,343 | 14 | 925,767 |
| 52 | 148 | 8,801,508 | 28 | 1,601,349 |
| 53 | 140 | 8,064,065 | 19 | 1,067,195 |
| 54 | 159 | 8,949,460 | 26 | 1,419,259 |
| 55 | 174 | 9,872,911 | 32 | 1,774,716 |
| 56 | 186 | 10,376,472 | 19 | 1,033,739 |
| 57 | 148 | 8,352,795 | 22 | 1,297,256 |
| 58 | 131 | 7,348,690 | 26 | 1,495,624 |
| 59 | 173 | 9,693,312 | 16 | 913,820 |
| 60 | 148 | 8,179,996 | 15 | 835,570 |
| 61 | 165 | 9,144,477 | 30 | 1,577,274 |
| 62 | 137 | 7,532,549 | 16 | 848,422 |
| 63 | 130 | 7,163,837 | 17 | 992,909 |
| 64 | 125 | 6,671,498 | 11 | 609,723 |
| 65 | 126 | 6,759,319 | 19 | 1,034,810 |
| 66 | 105 | 5,573,950 | 13 | 721,253 |
| 67 | 123 | 6,526,906 | 11 | 572,373 |
| 68 | 101 | 5,476,158 | 8 | 422,121 |
| 69 | 106 | 5,511,120 | 5 | 269,356 |
| 70 | 89 | 4,388,213 | 5 | 255,412 |
| 71 | 60 | 3,043,880 | 4 | 215,374 |
| 72 | 63 | 3,067,108 | 7 | 358,208 |
| 73 | 38 | 1,898,864 | 5 | 215,935 |
| 74 | 57 | 2,791,224 | 2 | 82,777 |
| 75 | 39 | 1,797,390 | 6 | 244,811 |
| 76 | 42 | 1,951,974 | 2 | 85,768 |
| 77 | 25 | 1,143,501 | 1 | 36,178 |
| 78 | 30 | 1,362,130 |  |  |
| 79 | 22 | 960,503 | 4 | 197,685 |
| 80 | 21 | 1,008,769 |  |  |
| 81 | 16 | 708,133 | 3 | 154,593 |
| 82 | 8 | 363,429 | 1 | 39,285 |
| 83 | 8 | 360,592 |  |  |
| 84 | 12 | 416,340 |  |  |

Table 6A

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

Special Retirements
State Only
(Continued)

| Age | Men |  |  | Women |  |
| :---: | ---: | ---: | ---: | ---: | :---: |
|  | Number | Amount | Number | Amount |  |
| 85 | 13 | $\$$ | 454,565 |  |  |
|  | 14 | 601,341 |  |  |  |
| 86 | 7 | 236,805 |  |  |  |
| 87 | 5 | 195,212 |  |  |  |
| 88 | 1 | 23,532 |  |  |  |
| 89 | 1 | 43,143 |  |  |  |
| 91 | 1 | 25,518 |  |  |  |
| 92 | 1 | 32,959 |  |  |  |
| 93 | 3,566 | $\$$ | $194,364,618$ |  |  |
|  |  | 432 | $\$$ | $23,973,602$ |  |

The 3,998 total special retirements consist of 3,905 policemen, 50 firemen and 43 retirees for whom the information was not reported.

## Table 6B

## The Number And Annual Retirement

## Allowances Of Retired Members Distributed

By Age As Of July 1, 2016

## Special Retirements

## Local Only

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 44 | 4 | \$ | 291,038 | 2 | \$ | 117,229 |
| 45 | 32 |  | 2,439,050 | 4 |  | 313,479 |
| 46 | 87 |  | 6,532,780 | 5 |  | 298,129 |
| 47 | 150 |  | 11,306,703 | 9 |  | 631,046 |
| 48 | 224 |  | 17,021,549 | 18 |  | 1,248,966 |
| 49 | 325 |  | 25,342,251 | 29 |  | 2,059,573 |
| 50 | 440 |  | 34,404,198 | 28 |  | 2,151,775 |
| 51 | 510 |  | 39,468,388 | 34 |  | 2,584,384 |
| 52 | 604 |  | 46,743,322 | 35 |  | 2,522,483 |
| 53 | 649 |  | 50,010,457 | 37 |  | 2,750,845 |
| 54 | 598 |  | 45,477,359 | 41 |  | 2,679,236 |
| 55 | 702 |  | 53,140,475 | 31 |  | 2,222,752 |
| 56 | 669 |  | 50,511,602 | 32 |  | 2,387,092 |
| 57 | 719 |  | 54,378,118 | 41 |  | 2,841,623 |
| 58 | 722 |  | 54,707,435 | 29 |  | 2,014,634 |
| 59 | 796 |  | 59,999,099 | 40 |  | 2,840,227 |
| 60 | 785 |  | 58,282,741 | 27 |  | 1,893,711 |
| 61 | 871 |  | 63,034,548 | 29 |  | 1,756,424 |
| 62 | 814 |  | 58,195,101 | 32 |  | 2,008,597 |
| 63 | 777 |  | 54,620,125 | 29 |  | 1,720,186 |
| 64 | 736 |  | 51,288,150 | 17 |  | 998,154 |
| 65 | 759 |  | 51,594,811 | 22 |  | 1,368,090 |
| 66 | 764 |  | 51,713,874 | 24 |  | 1,464,967 |
| 67 | 805 |  | 52,743,138 | 15 |  | 854,374 |
| 68 | 794 |  | 51,997,157 | 9 |  | 521,260 |
| 69 | 882 |  | 53,918,425 | 15 |  | 866,433 |
| 70 | 840 |  | 50,986,380 | 12 |  | 634,000 |
| 71 | 613 |  | 35,987,999 | 7 |  | 400,244 |
| 72 | 584 |  | 32,951,545 | 2 |  | 144,782 |
| 73 | 699 |  | 39,362,698 | 6 |  | 313,362 |
| 74 | 687 |  | 37,151,141 | 5 |  | 271,960 |
| 75 | 506 |  | 28,337,078 | 4 |  | 188,573 |
| 76 | 450 |  | 23,432,497 | 3 |  | 165,702 |
| 77 | 431 |  | 23,056,575 | 3 |  | 131,338 |
| 78 | 397 |  | 20,353,858 | 3 |  | 143,087 |
| 79 | 340 |  | 17,176,904 | 4 |  | 202,233 |
| 80 | 322 |  | 15,863,668 | 4 |  | 166,113 |
| 81 | 264 |  | 12,498,929 | 1 |  | 52,550 |
| 82 | 231 |  | 10,287,936 | 3 |  | 128,211 |
| 83 | 223 |  | 10,010,679 |  |  |  |
| 84 | 187 |  | 8,224,792 |  |  |  |

## Table 6B

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Special Retirements
Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 85 | 194 | \$ | 8,232,854 | 2 | \$ | 100,808 |
| 86 | 156 |  | 6,189,549 |  |  |  |
| 87 | 118 |  | 4,729,113 | 1 |  | 49,379 |
| 88 | 95 |  | 3,758,181 |  |  |  |
| 89 | 105 |  | 4,063,322 |  |  |  |
| 90 | 104 |  | 3,837,307 |  |  |  |
| 91 | 61 |  | 2,388,398 | 1 |  | 32,008 |
| 92 | 50 |  | 1,653,807 | 1 |  | 29,176 |
| 93 | 34 |  | 1,264,224 | 1 |  | 34,598 |
| 94 | 19 |  | 686,417 |  |  |  |
| 95 | 21 |  | 701,870 |  |  |  |
| 96 | 7 |  | 276,076 | 1 |  | 27,057 |
| 97 | 5 |  | 168,409 |  |  |  |
| 98 | 2 |  | 88,792 |  |  |  |
| 99 | 4 |  | 113,563 |  |  |  |
| 100 | 2 |  | 49,728 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 22,969 | \$ | 1,503,046,183 | 698 | \$ | 46,330,850 |

The 23,667 total special retirements consist of 18,144 policemen, 5,046 firemen and 477 retirees for whom the information was not reported.

## Table 7

## The Number And Annual Retirement

Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Ordinary Disability Retirements

## State And Local

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number |  |  |
| 30 | 1 | \$ | 29,434 |  |  |  |
| 31 | 1 |  | 19,468 |  |  |  |
| 32 | 4 |  | 120,585 |  |  |  |
| 33 | 5 |  | 138,493 |  |  |  |
| 34 | 7 |  | 238,313 | 2 | \$ | 51,515 |
| 35 | 12 |  | 340,299 | 5 |  | 128,170 |
| 36 | 10 |  | 329,640 | 2 |  | 64,419 |
| 37 | 16 |  | 496,391 | 3 |  | 97,049 |
| 38 | 17 |  | 581,103 | 6 |  | 170,197 |
| 39 | 21 |  | 683,465 | 8 |  | 213,171 |
| 40 | 13 |  | 433,700 | 8 |  | 249,040 |
| 41 | 31 |  | 992,821 | 11 |  | 330,621 |
| 42 | 25 |  | 825,170 | 10 |  | 303,818 |
| 43 | 31 |  | 1,005,685 | 8 |  | 252,964 |
| 44 | 48 |  | 1,407,721 | 28 |  | 864,149 |
| 45 | 59 |  | 1,836,864 | 26 |  | 820,093 |
| 46 | 76 |  | 2,452,914 | 19 |  | 521,175 |
| 47 | 65 |  | 2,053,232 | 15 |  | 489,419 |
| 48 | 77 |  | 2,400,771 | 19 |  | 556,687 |
| 49 | 76 |  | 2,507,406 | 30 |  | 992,014 |
| 50 | 76 |  | 2,445,402 | 22 |  | 664,797 |
| 51 | 90 |  | 3,003,315 | 25 |  | 742,181 |
| 52 | 80 |  | 2,631,672 | 28 |  | 810,646 |
| 53 | 69 |  | 2,266,392 | 17 |  | 488,248 |
| 54 | 88 |  | 2,758,844 | 18 |  | 487,075 |
| 55 | 75 |  | 2,265,530 | 12 |  | 337,752 |
| 56 | 71 |  | 2,446,744 | 18 |  | 492,825 |
| 57 | 68 |  | 2,173,055 | 21 |  | 695,449 |
| 58 | 54 |  | 1,862,225 | 21 |  | 576,813 |
| 59 | 72 |  | 2,398,487 | 19 |  | 594,145 |
| 60 | 66 |  | 2,060,125 | 11 |  | 289,116 |
| 61 | 71 |  | 2,221,602 | 11 |  | 348,009 |
| 62 | 70 |  | 1,894,714 | 12 |  | 317,084 |
| 63 | 68 |  | 1,917,657 | 9 |  | 245,069 |
| 64 | 52 |  | 1,460,460 | 7 |  | 212,291 |
| 65 | 69 |  | 1,812,389 | 9 |  | 246,940 |
| 66 | 58 |  | 1,594,621 | 9 |  | 258,636 |
| 67 | 68 |  | 1,679,075 | 9 |  | 267,227 |
| 68 | 70 |  | 1,662,357 | 7 |  | 193,461 |
| 69 | 71 |  | 1,584,992 | 3 |  | 79,831 |
| 70 | 57 |  | 1,314,595 | 4 |  | 104,500 |

## Table 7

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Ordinary Disability Retirements
State And Local
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 71 | 37 | \$ | 747,067 | 5 | \$ | 99,902 |
| 72 | 31 |  | 652,826 | 3 |  | 81,702 |
| 73 | 52 |  | 1,030,941 | 2 |  | 47,947 |
| 74 | 27 |  | 485,484 | 8 |  | 221,962 |
| 75 | 44 |  | 817,961 | 3 |  | 79,774 |
| 76 | 28 |  | 537,198 | 2 |  | 47,743 |
| 77 | 27 |  | 487,408 |  |  |  |
| 78 | 18 |  | 385,151 | 2 |  | 58,786 |
| 79 | 13 |  | 235,507 | 1 |  | 21,547 |
| 80 | 12 |  | 224,836 |  |  |  |
| 81 | 8 |  | 161,829 | 1 |  | 22,856 |
| 82 | 9 |  | 138,245 | 1 |  | 19,151 |
| 83 | 8 |  | 100,007 | 1 |  | 22,912 |
| 84 | 6 |  | 77,477 | 1 |  | 18,838 |
| 85 | 1 |  | 12,901 | 1 |  | 14,424 |
| 86 | 6 |  | 85,282 | 1 |  | 18,877 |
| 87 | 1 |  | 11,095 |  |  |  |
| 88 | 1 |  | 15,405 |  |  |  |
| 89 | 2 |  | 31,541 |  |  |  |
| 90 | 3 |  | 39,207 |  |  |  |
| 91 | 2 |  | 22,488 |  |  |  |
| 92 | 4 |  | 50,007 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 2,398 | \$ | 68,697,591 | 524 | \$ | 15,333,017 |

The 2,922 ordinary disability retirees consist of 2,588 policemen, 283 firemen and 51 retirees for whom the information was not reported.

Table 7A
The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Ordinary Disability Retirements
State Only

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 33 | 2 | \$ | 53,456 |  |  |  |
| 34 | 2 |  | 47,531 | 2 | \$ | 51,515 |
| 35 | 1 |  | 24,310 | 4 |  | 101,327 |
| 36 | 1 |  | 26,549 | 1 |  | 26,797 |
| 37 | 3 |  | 77,363 | 2 |  | 63,333 |
| 38 | 1 |  | 27,588 | 2 |  | 47,280 |
| 39 | 4 |  | 111,245 | 2 |  | 46,724 |
| 40 | 4 |  | 110,824 | 1 |  | 21,188 |
| 41 | 5 |  | 117,702 | 4 |  | 115,034 |
| 42 | 3 |  | 85,704 | 2 |  | 57,453 |
| 43 | 7 |  | 181,364 | 3 |  | 87,556 |
| 44 | 10 |  | 283,404 | 9 |  | 277,872 |
| 45 | 11 |  | 313,213 | 6 |  | 169,277 |
| 46 | 14 |  | 403,542 | 6 |  | 160,941 |
| 47 | 13 |  | 324,290 | 5 |  | 150,084 |
| 48 | 11 |  | 317,948 | 6 |  | 167,868 |
| 49 | 16 |  | 464,964 | 11 |  | 324,964 |
| 50 | 11 |  | 292,874 | 7 |  | 192,649 |
| 51 | 22 |  | 624,888 | 12 |  | 351,769 |
| 52 | 15 |  | 420,765 | 7 |  | 194,436 |
| 53 | 12 |  | 313,038 | 4 |  | 108,747 |
| 54 | 21 |  | 570,783 | 7 |  | 185,140 |
| 55 | 13 |  | 332,144 | 5 |  | 141,216 |
| 56 | 14 |  | 433,075 | 7 |  | 180,474 |
| 57 | 19 |  | 549,254 | 11 |  | 307,869 |
| 58 | 14 |  | 418,137 | 7 |  | 195,298 |
| 59 | 18 |  | 584,261 | 10 |  | 301,332 |
| 60 | 17 |  | 501,103 | 7 |  | 174,614 |
| 61 | 22 |  | 658,629 | 5 |  | 149,250 |
| 62 | 12 |  | 308,525 | 8 |  | 214,357 |
| 63 | 14 |  | 406,018 | 3 |  | 79,804 |
| 64 | 19 |  | 494,316 | 4 |  | 113,083 |
| 65 | 15 |  | 378,718 | 7 |  | 204,423 |
| 66 | 14 |  | 386,986 | 7 |  | 199,210 |
| 67 | 19 |  | 486,143 | 6 |  | 165,557 |
| 68 | 16 |  | 427,535 | 3 |  | 73,628 |
| 69 | 18 |  | 510,417 | 2 |  | 57,775 |
| 70 | 15 |  | 413,972 | 3 |  | 84,437 |
| 71 | 9 |  | 205,374 | 2 |  | 51,520 |
| 72 | 8 |  | 186,107 | 3 |  | 81,702 |

Table 7A

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Ordinary Disability Retirements
State Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 73 | 11 | \$ | 273,384 | 1 | \$ | 25,455 |
| 74 | 4 |  | 111,009 | 4 |  | 106,049 |
| 75 | 11 |  | 263,885 | 3 |  | 79,774 |
| 76 | 8 |  | 207,698 | 1 |  | 23,651 |
| 77 | 7 |  | 170,438 |  |  |  |
| 78 | 4 |  | 99,842 |  |  |  |
| 79 | 1 |  | 23,730 | 1 |  | 21,547 |
| 80 | 2 |  | 61,363 |  |  |  |
| 81 | 1 |  | 33,538 | 1 |  | 22,856 |
| 82 | 1 |  | 27,403 |  |  |  |
| 84 | 1 |  | 15,680 |  |  |  |
| 91 | 1 |  | 11,783 |  |  |  |
| 92 | 1 |  | 12,887 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 518 | \$ | 14,186,699 | 214 | \$ | 5,956,835 |

The 732 ordinary disability retirees consist of 720 policemen, 3 firemen and 9 retirees for whom the information was not reported.

## Table 7B

## The Number And Annual Retirement

Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Ordinary Disability Retirements

Local Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 30 | 1 | \$ 29,434 |  |  |
| 31 | 1 | 19,468 |  |  |
| 32 | 4 | 120,585 |  |  |
| 33 | 3 | 85,037 |  |  |
| 34 | 5 | 190,781 |  |  |
| 35 | 11 | 315,990 | 1 | \$ 26,842 |
| 36 | 9 | 303,091 | 1 | 37,623 |
| 37 | 13 | 419,028 | 1 | 33,716 |
| 38 | 16 | 553,515 | 4 | 122,917 |
| 39 | 17 | 572,220 | 6 | 166,447 |
| 40 | 9 | 322,876 | 7 | 227,852 |
| 41 | 26 | 875,119 | 7 | 215,587 |
| 42 | 22 | 739,466 | 8 | 246,365 |
| 43 | 24 | 824,322 | 5 | 165,408 |
| 44 | 38 | 1,124,317 | 19 | 586,277 |
| 45 | 48 | 1,523,651 | 20 | 650,816 |
| 46 | 62 | 2,049,372 | 13 | 360,234 |
| 47 | 52 | 1,728,942 | 10 | 339,335 |
| 48 | 66 | 2,082,823 | 13 | 388,819 |
| 49 | 60 | 2,042,443 | 19 | 667,050 |
| 50 | 65 | 2,152,527 | 15 | 472,149 |
| 51 | 68 | 2,378,426 | 13 | 390,412 |
| 52 | 65 | 2,210,907 | 21 | 616,210 |
| 53 | 57 | 1,953,354 | 13 | 379,501 |
| 54 | 67 | 2,188,061 | 11 | 301,935 |
| 55 | 62 | 1,933,386 | 7 | 196,535 |
| 56 | 57 | 2,013,669 | 11 | 312,351 |
| 57 | 49 | 1,623,801 | 10 | 387,580 |
| 58 | 40 | 1,444,088 | 14 | 381,516 |
| 59 | 54 | 1,814,226 | 9 | 292,813 |
| 60 | 49 | 1,559,021 | 4 | 114,501 |
| 61 | 49 | 1,562,972 | 6 | 198,760 |
| 62 | 58 | 1,586,189 | 4 | 102,727 |
| 63 | 54 | 1,511,639 | 6 | 165,265 |
| 64 | 33 | 966,144 | 3 | 99,208 |
| 65 | 54 | 1,433,671 | 2 | 42,516 |
| 66 | 44 | 1,207,636 | 2 | 59,426 |
| 67 | 49 | 1,192,932 | 3 | 101,670 |
| 68 | 54 | 1,234,823 | 4 | 119,833 |
| 69 | 53 | 1,074,576 | 1 | 22,056 |

## Table 7B

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Ordinary Disability Retirements
Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | unt |
| 70 | 42 | \$ | 900,623 | 1 | \$ | 20,063 |
| 71 | 28 |  | 541,693 | 3 |  | 48,382 |
| 72 | 23 |  | 466,719 |  |  |  |
| 73 | 41 |  | 757,557 | 1 |  | 22,492 |
| 74 | 23 |  | 374,476 | 4 |  | 115,913 |
| 75 | 33 |  | 554,076 |  |  |  |
| 76 | 20 |  | 329,500 | 1 |  | 24,092 |
| 77 | 20 |  | 316,970 |  |  |  |
| 78 | 14 |  | 285,309 | 2 |  | 58,786 |
| 79 | 12 |  | 211,776 |  |  |  |
| 80 | 10 |  | 163,473 |  |  |  |
| 81 | 7 |  | 128,290 |  |  |  |
| 82 | 8 |  | 110,841 | 1 |  | 19,151 |
| 83 | 8 |  | 100,007 | 1 |  | 22,912 |
| 84 | 5 |  | 61,797 | 1 |  | 18,838 |
| 85 | 1 |  | 12,901 | 1 |  | 14,424 |
| 86 | 6 |  | 85,282 | 1 |  | 18,877 |
| 87 | 1 |  | 11,095 |  |  |  |
| 88 | 1 |  | 15,405 |  |  |  |
| 89 | 2 |  | 31,541 |  |  |  |
| 90 | 3 |  | 39,207 |  |  |  |
| 91 | 1 |  | 10,706 |  |  |  |
| 92 | 3 |  | 37,120 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 1,880 | \$ | 54,510,892 | 310 | \$ | 9,376,182 |

The 2,190 ordinary disability retirees consist of 1,868 policemen, 280 firemen and 42 retirees for whom the information was not reported.

Table 8
The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Accidental Disability Retirements
State And Local

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 29 |  |  | 1 | \$ 31,216 |
| 30 | 3 | \$ 192,185 |  |  |
| 31 | 4 | 169,411 | 1 | 50,632 |
| 32 | 8 | 430,651 |  |  |
| 33 | 11 | 616,839 | 1 | 41,587 |
| 34 | 12 | 558,917 | 4 | 151,275 |
| 35 | 19 | 1,069,881 | 2 | 112,313 |
| 36 | 16 | 932,325 | 6 | 274,488 |
| 37 | 27 | 1,514,399 | 9 | 480,003 |
| 38 | 25 | 1,480,462 | 6 | 319,334 |
| 39 | 34 | 2,020,168 | 8 | 431,085 |
| 40 | 38 | 2,261,625 | 13 | 675,299 |
| 41 | 53 | 3,092,266 | 3 | 160,231 |
| 42 | 60 | 3,469,895 | 8 | 454,801 |
| 43 | 76 | 4,264,698 | 12 | 747,855 |
| 44 | 75 | 4,258,276 | 12 | 641,434 |
| 45 | 90 | 5,367,263 | 13 | 708,572 |
| 46 | 99 | 5,738,371 | 9 | 514,272 |
| 47 | 109 | 6,126,161 | 12 | 610,728 |
| 48 | 121 | 7,120,344 | 15 | 782,773 |
| 49 | 90 | 5,100,557 | 11 | 623,481 |
| 50 | 101 | 5,753,647 | 18 | 931,351 |
| 51 | 104 | 6,248,227 | 7 | 336,278 |
| 52 | 111 | 6,197,618 | 8 | 412,984 |
| 53 | 82 | 4,595,682 | 9 | 501,967 |
| 54 | 81 | 4,444,714 | 7 | 378,533 |
| 55 | 63 | 3,495,712 | 6 | 270,589 |
| 56 | 74 | 3,817,816 | 10 | 472,426 |
| 57 | 58 | 3,217,572 | 6 | 310,199 |
| 58 | 55 | 3,028,707 | 6 | 337,081 |
| 59 | 59 | 2,910,369 | 4 | 212,709 |
| 60 | 39 | 1,911,527 | 10 | 439,819 |
| 61 | 54 | 2,311,031 | 3 | 117,043 |
| 62 | 52 | 2,115,666 | 8 | 365,772 |
| 63 | 46 | 2,030,953 | 4 | 139,183 |
| 64 | 27 | 1,165,258 |  |  |
| 65 | 47 | 2,082,049 | 2 | 94,870 |
| 66 | 39 | 1,575,536 | 2 | 62,698 |

## Table 8

## The Number And Annual Retirement

Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Accidental Disability Retirements

State And Local
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | nount |
| 67 | 43 | \$ | 1,753,760 | 1 | \$ | 12,914 |
| 68 | 55 |  | 2,007,768 |  |  |  |
| 69 | 45 |  | 1,408,747 | 1 |  | 39,353 |
| 70 | 46 |  | 1,432,868 | 1 |  | 55,043 |
| 71 | 36 |  | 1,169,508 | 1 |  | 46,429 |
| 72 | 32 |  | 838,043 |  |  |  |
| 73 | 27 |  | 816,413 | 2 |  | 93,253 |
| 74 | 34 |  | 1,000,750 |  |  |  |
| 75 | 21 |  | 562,579 |  |  |  |
| 76 | 16 |  | 458,330 |  |  |  |
| 77 | 10 |  | 255,637 | 1 |  | 15,584 |
| 78 | 14 |  | 383,411 |  |  |  |
| 79 | 12 |  | 296,629 |  |  |  |
| 80 | 9 |  | 198,201 |  |  |  |
| 81 | 15 |  | 354,549 |  |  |  |
| 82 | 15 |  | 366,639 |  |  |  |
| 83 | 14 |  | 319,458 |  |  |  |
| 84 | 6 |  | 133,037 |  |  |  |
| 85 | 11 |  | 249,636 |  |  |  |
| 86 | 3 |  | 56,658 |  |  |  |
| 87 | 5 |  | 98,668 |  |  |  |
| 88 | 3 |  | 63,760 |  |  |  |
| 89 | 3 |  | 64,690 |  |  |  |
| 90 | 5 |  | 103,368 |  |  |  |
| 91 | 6 |  | 144,218 |  |  |  |
| 92 | 4 |  | 95,958 |  |  |  |
| 93 | 3 |  | 51,559 |  |  |  |
| 94 | 1 |  | 19,222 |  |  |  |
| 95 | 2 |  | 43,186 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 2,558 | \$ | 127,434,028 | 263 | \$ | 13,457,457 |

The 2,821 accidental disability retirees consist of 2,531 policemen, 197 firemen and 93 retirees for whom the information was not reported.

Table 8A
The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Accidental Disability Retirements
State Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 32 | 2 | \$ 75,770 |  |  |
| 33 | 1 | 39,047 |  |  |
| 34 | 4 | 144,082 | 2 | \$ 75,364 |
| 35 | 2 | 87,188 | 1 | 42,775 |
| 36 | 3 | 127,199 | 1 | 48,708 |
| 37 | 3 | 133,674 | 2 | 84,203 |
| 38 | 4 | 181,202 | 3 | 147,585 |
| 39 | 5 | 223,943 | 3 | 139,130 |
| 40 | 5 | 245,674 | 4 | 178,355 |
| 41 | 9 | 422,582 | 1 | 57,456 |
| 42 | 8 | 370,762 |  |  |
| 43 | 12 | 550,952 | 3 | 174,139 |
| 44 | 7 | 326,808 | 3 | 146,904 |
| 45 | 9 | 426,033 | 3 | 139,935 |
| 46 | 12 | 560,447 | 2 | 103,081 |
| 47 | 16 | 743,207 | 3 | 119,321 |
| 48 | 11 | 526,985 | 4 | 161,375 |
| 49 | 13 | 587,090 | 2 | 133,212 |
| 50 | 10 | 512,918 | 5 | 248,175 |
| 51 | 15 | 711,758 | 1 | 44,244 |
| 52 | 11 | 474,433 |  |  |
| 53 | 9 | 393,363 | 2 | 92,599 |
| 54 | 8 | 339,876 | 3 | 139,850 |
| 55 | 4 | 195,326 | 2 | 98,735 |
| 56 | 7 | 331,376 | 5 | 217,223 |
| 57 | 11 | 514,495 |  |  |
| 58 | 8 | 384,354 | 1 | 59,661 |
| 59 | 8 | 310,158 |  |  |
| 60 | 6 | 265,210 | 3 | 134,283 |
| 61 | 5 | 171,004 | 1 | 42,053 |
| 62 | 4 | 181,757 | 4 | 175,341 |
| 63 | 8 | 341,315 | 1 | 41,064 |
| 65 | 3 | 151,796 | 2 | 94,870 |
| 66 | 3 | 128,636 |  |  |
| 67 | 2 | 83,111 | 1 | 12,914 |
| 68 | 8 | 344,580 |  |  |
| 69 | 2 | 68,221 | 1 | 39,353 |
| 70 | 4 | 149,449 |  |  |
| 72 | 1 | 39,582 |  |  |
| 73 | 1 | 19,641 |  |  |

Table 8A

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

Accidental Disability Retirements
State Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | ount | Number |  | Amount |
| 74 | 2 | \$ | 87,416 |  |  |  |
| 75 | 1 |  | 52,856 |  |  |  |
| 76 | 1 |  | 23,846 |  |  |  |
| 77 | 1 |  | 31,804 |  |  |  |
| 80 | 1 |  | 40,026 |  |  |  |
| 81 | 1 |  | 31,926 |  |  |  |
| 82 | 2 |  | 51,192 |  |  |  |
| 83 | 1 |  | 23,537 |  |  |  |
| 84 | 1 |  | 18,804 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 275 | \$ | 12,246,411 |  | \$ | 3,191,908 |

The 344 accidental disability retirees consist of 338 policemen and 6 retirees for whom the information was not reported.

## Table 8B

## The Number And Annual Retirement

Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Accidental Disability Retirements

Local Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 29 |  |  | 1 | \$ 31,216 |
| 30 | 3 | \$ 192,185 |  |  |
| 31 | 4 | 169,411 | 1 | 50,632 |
| 32 | 6 | 354,881 |  |  |
| 33 | 10 | 577,791 | 1 | 41,587 |
| 34 | 8 | 414,835 | 2 | 75,911 |
| 35 | 17 | 982,693 | 1 | 69,537 |
| 36 | 13 | 805,126 | 5 | 225,780 |
| 37 | 24 | 1,380,725 | 7 | 395,799 |
| 38 | 21 | 1,299,261 | 3 | 171,749 |
| 39 | 29 | 1,796,225 | 5 | 291,955 |
| 40 | 33 | 2,015,951 | 9 | 496,944 |
| 41 | 44 | 2,669,684 | 2 | 102,774 |
| 42 | 52 | 3,099,133 | 8 | 454,801 |
| 43 | 64 | 3,713,745 | 9 | 573,716 |
| 44 | 68 | 3,931,468 | 9 | 494,529 |
| 45 | 81 | 4,941,231 | 10 | 568,637 |
| 46 | 87 | 5,177,925 | 7 | 411,190 |
| 47 | 93 | 5,382,954 | 9 | 491,407 |
| 48 | 110 | 6,593,358 | 11 | 621,399 |
| 49 | 77 | 4,513,466 | 9 | 490,270 |
| 50 | 91 | 5,240,728 | 13 | 683,177 |
| 51 | 89 | 5,536,468 | 6 | 292,034 |
| 52 | 100 | 5,723,184 | 8 | 412,984 |
| 53 | 73 | 4,202,319 | 7 | 409,368 |
| 54 | 73 | 4,104,838 | 4 | 238,684 |
| 55 | 59 | 3,300,386 | 4 | 171,854 |
| 56 | 67 | 3,486,440 | 5 | 255,203 |
| 57 | 47 | 2,703,077 | 6 | 310,199 |
| 58 | 47 | 2,644,353 | 5 | 277,421 |
| 59 | 51 | 2,600,211 | 4 | 212,709 |
| 60 | 33 | 1,646,317 | 7 | 305,536 |
| 61 | 49 | 2,140,026 | 2 | 74,990 |
| 62 | 48 | 1,933,910 | 4 | 190,432 |
| 63 | 38 | 1,689,638 | 3 | 98,118 |
| 64 | 27 | 1,165,258 |  |  |
| 65 | 44 | 1,930,254 |  |  |
| 66 | 36 | 1,446,900 | 2 | 62,698 |
| 67 | 41 | 1,670,649 |  |  |

## Table 8B

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

## Accidental Disability Retirements

Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | mount | Number |  | ount |
| 68 | 47 | \$ | 1,663,189 |  |  |  |
| 69 | 43 |  | 1,340,527 |  |  |  |
| 70 | 42 |  | 1,283,420 | 1 | \$ | 55,043 |
| 71 | 36 |  | 1,169,508 | 1 |  | 46,429 |
| 72 | 31 |  | 798,461 |  |  |  |
| 73 | 26 |  | 796,772 | 2 |  | 93,253 |
| 74 | 32 |  | 913,334 |  |  |  |
| 75 | 20 |  | 509,723 |  |  |  |
| 76 | 15 |  | 434,484 |  |  |  |
| 77 | 9 |  | 223,833 | 1 |  | 15,584 |
| 78 | 14 |  | 383,411 |  |  |  |
| 79 | 12 |  | 296,629 |  |  |  |
| 80 | 8 |  | 158,176 |  |  |  |
| 81 | 14 |  | 322,622 |  |  |  |
| 82 | 13 |  | 315,447 |  |  |  |
| 83 | 13 |  | 295,921 |  |  |  |
| 84 | 5 |  | 114,233 |  |  |  |
| 85 | 11 |  | 249,636 |  |  |  |
| 86 | 3 |  | 56,658 |  |  |  |
| 87 | 5 |  | 98,668 |  |  |  |
| 88 | 3 |  | 63,760 |  |  |  |
| 89 | 3 |  | 64,690 |  |  |  |
| 90 | 5 |  | 103,368 |  |  |  |
| 91 | 6 |  | 144,218 |  |  |  |
| 92 | 4 |  | 95,958 |  |  |  |
| 93 | 3 |  | 51,559 |  |  |  |
| 94 | 1 |  | 19,222 |  |  |  |
| 95 | 2 |  | 43,186 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 2,283 | \$ | 115,187,617 | 194 | \$ | 10,265,549 |

The 2,477 accidental disability retirees consist of 2,193 policemen, 197 firemen and 87 retirees for whom the information was not reported.

## Table 9

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Active Members' Death Benefits

State And Local

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 3 |  |  | 1 | \$ 14,404 |
| 4 | 1 | \$ 13,013 | 1 | 10,041 |
| 6 |  |  | 1 | 13,521 |
| 7 | 1 | 10,560 | 1 | 12,802 |
| 8 | 1 | 8,811 |  |  |
| 9 |  |  | 4 | 42,801 |
| 10 | 1 | 12,923 | 2 | 26,768 |
| 11 | 2 | 23,947 | 4 | 82,405 |
| 12 | 1 | 19,959 | 1 | 12,712 |
| 13 | 1 | 11,533 |  |  |
| 14 | 1 | 13,552 | 7 | 86,878 |
| 15 | 3 | 36,035 | 7 | 110,602 |
| 16 | 1 | 20,569 | 5 | 88,194 |
| 17 | 5 | 64,927 | 7 | 86,455 |
| 18 | 3 | 48,454 | 5 | 72,856 |
| 19 | 1 | 16,301 | 2 | 29,149 |
| 20 | 1 | 20,085 | 2 | 22,075 |
| 23 |  |  | 1 | 89,465 |
| 25 |  |  | 1 | 13,036 |
| 26 |  |  | 2 | 94,410 |
| 28 |  |  | 1 | 11,194 |
| 30 | 1 | 11,705 | 1 | 44,280 |
| 32 |  |  | 3 | 133,305 |
| 33 |  |  | 1 | 30,830 |
| 34 | 1 | 11,973 | 3 | 142,013 |
| 35 |  |  | 3 | 120,460 |
| 36 |  |  | 7 | 272,279 |
| 37 |  |  | 3 | 134,411 |
| 38 |  |  | 3 | 93,556 |
| 39 |  |  | 7 | 274,846 |
| 40 |  |  | 6 | 256,203 |
| 41 | 1 | 38,840 | 6 | 248,225 |
| 42 | 2 | 75,810 | 8 | 291,131 |
| 43 |  |  | 14 | 545,416 |
| 44 | 1 | 31,518 | 19 | 889,559 |
| 45 |  |  | 14 | 627,539 |
| 46 | 1 | 33,669 | 9 | 375,970 |
| 47 |  |  | 19 | 815,528 |

## Table 9

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Active Members' Death Benefits

State And Local
(Continued)

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 48 | 1 | \$ 36,262 | 15 | \$ 650,285 |
| 49 | 1 | 45,006 | 19 | 781,117 |
| 50 |  |  | 12 | 507,315 |
| 51 |  |  | 17 | 772,505 |
| 52 | 1 | 23,344 | 14 | 639,894 |
| 53 | 1 | 65,421 | 18 | 794,572 |
| 54 |  |  | 29 | 1,267,789 |
| 55 | 1 | 33,367 | 16 | 696,429 |
| 56 |  |  | 19 | 886,272 |
| 57 |  |  | 22 | 900,843 |
| 58 |  |  | 16 | 703,200 |
| 59 |  |  | 13 | 545,110 |
| 60 |  |  | 23 | 1,000,334 |
| 61 |  |  | 15 | 606,174 |
| 62 |  |  | 14 | 657,135 |
| 63 |  |  | 13 | 557,145 |
| 64 |  |  | 15 | 594,480 |
| 65 | 1 | 39,264 | 22 | 945,192 |
| 66 |  |  | 13 | 582,194 |
| 67 |  |  | 9 | 376,535 |
| 68 |  |  | 12 | 486,343 |
| 69 |  |  | 10 | 396,042 |
| 70 | 1 | 36,607 | 9 | 339,394 |
| 71 |  |  | 8 | 250,691 |
| 72 |  |  | 5 | 157,961 |
| 73 |  |  | 6 | 209,653 |
| 74 |  |  | 7 | 252,799 |
| 75 |  |  | 7 | 228,388 |
| 76 |  |  | 5 | 152,876 |
| 78 |  |  | 2 | 64,505 |
| 79 |  |  | 3 | 81,188 |
| 81 |  |  | 1 | 56,798 |
| 82 |  |  | 2 | 72,976 |
| 83 |  |  | 1 | 23,882 |
| 84 |  |  | 1 | 23,951 |
| 85 |  |  | 1 | 27,708 |
| 86 |  |  | 3 | 66,761 |
| 87 |  |  | 3 | 59,041 |

Table 9

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Active Members' Death Benefits

State And Local
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 88 |  |  |  | 3 | \$ | 62,994 |
| 89 |  |  |  | 1 |  | 29,682 |
| 90 |  |  |  | 2 |  | 70,787 |
| 91 |  |  |  | 2 |  | 41,941 |
| 93 |  |  |  | 3 |  | 57,951 |
| 94 |  |  |  | 3 |  | 60,010 |
| 96 |  |  |  | 1 |  | 15,158 |
| 98 |  |  |  | 1 |  | 613 |
| 101 |  |  |  | 1 |  | 14,247 |
|  |  |  |  |  |  |  |
| Total | 37 | \$ | 803,455 | 618 | \$ | 23,984,179 |

The 655 beneficiaries are receiving active members' death benefits on behalf of 197 deceased policemen and 40 deceased firemen. Information was not reported for the other 418 beneficiaries.

## Table 9A

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Active Members' Death Benefits

State Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 4 | 1 | \$ 13,013 | 1 | \$ 10,041 |
| 6 |  |  | 1 | 13,521 |
| 7 | 1 | 10,560 |  |  |
| 9 |  |  | 2 | 23,273 |
| 11 |  |  | 1 | 12,605 |
| 12 |  |  | 1 | 12,712 |
| 14 | 1 | 13,552 | 2 | 22,673 |
| 15 |  |  | 3 | 34,387 |
| 16 | 1 | 20,569 | 2 | 31,081 |
| 17 | 1 | 14,185 | 3 | 27,818 |
| 18 | 1 | 13,521 |  |  |
| 19 |  |  | 1 | 14,184 |
| 20 | 1 | 20,085 | 1 | 13,037 |
| 25 |  |  | 1 | 13,036 |
| 28 |  |  | 1 | 11,194 |
| 32 |  |  | 1 | 40,597 |
| 33 |  |  | 1 | 30,830 |
| 34 | 1 | 11,973 | 2 | 89,665 |
| 35 |  |  | 1 | 29,811 |
| 36 |  |  | 1 | 41,286 |
| 38 |  |  | 1 | 31,225 |
| 39 |  |  | 1 | 33,377 |
| 41 | 1 | 38,840 | 1 | 34,449 |
| 42 | 1 | 28,422 | 1 | 24,880 |
| 43 |  |  | 6 | 198,734 |
| 44 | 1 | 31,518 | 2 | 79,049 |
| 45 |  |  | 2 | 75,364 |
| 46 |  |  | 1 | 28,598 |
| 47 |  |  | 4 | 143,290 |
| 48 | 1 | 36,262 | 2 | 60,052 |
| 49 |  |  | 4 | 136,141 |
| 50 |  |  | 1 | 30,193 |
| 51 |  |  | 2 | 89,155 |
| 52 | 1 | 23,344 |  |  |
| 53 |  |  | 4 | 149,497 |
| 54 |  |  | 7 | 220,538 |
| 55 | 1 | 33,367 | 3 | 106,853 |
| 56 |  |  | 2 | 72,424 |
| 57 |  |  | 5 | 165,414 |
| 58 |  |  | 2 | 73,984 |

Table 9A

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Active Members' Death Benefits

State Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | unt |
| 59 |  |  |  | 4 | \$ | 143,458 |
| 60 |  |  |  | 5 |  | 181,490 |
| 61 |  |  |  | 2 |  | 54,689 |
| 62 |  |  |  | 5 |  | 214,457 |
| 63 |  |  |  | 4 |  | 139,618 |
| 64 |  |  |  | 4 |  | 147,057 |
| 65 | 1 | \$ | 39,264 | 4 |  | 153,303 |
| 66 |  |  |  | 3 |  | 107,687 |
| 67 |  |  |  | 1 |  | 33,481 |
| 68 |  |  |  | 1 |  | 29,156 |
| 69 |  |  |  | 3 |  | 101,548 |
| 70 |  |  |  | 1 |  | 33,853 |
| 71 |  |  |  | 1 |  | 39,054 |
| 73 |  |  |  | 2 |  | 81,111 |
| 74 |  |  |  | 1 |  | 29,348 |
| 75 |  |  |  | 2 |  | 67,761 |
| 76 |  |  |  | 1 |  | 32,025 |
| 82 |  |  |  | 1 |  | 28,579 |
| 87 |  |  |  | 1 |  | 32,069 |
|  |  |  |  |  |  |  |
| Total | 15 | \$ | 348,475 | 123 | \$ | 3,874,712 |

The 138 beneficiaries are receiving active members' death benefits on behalf of 49 deceased policemen and 1 deceased fireman. Information was not reported for the other 88 beneficiaries.

## Table 9B

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Active Members' Death Benefits

Local Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 3 |  |  | 1 | \$ 14,404 |
| 7 |  |  | 1 | 12,802 |
| 8 | 1 | \$ 8,811 |  |  |
| 9 |  |  | 2 | 19,528 |
| 10 | 1 | 12,923 | 2 | 26,768 |
| 11 | 2 | 23,947 | 3 | 69,800 |
| 12 | 1 | 19,959 |  |  |
| 13 | 1 | 11,533 |  |  |
| 14 |  |  | 5 | 64,206 |
| 15 | 3 | 36,035 | 4 | 76,215 |
| 16 |  |  | 3 | 57,113 |
| 17 | 4 | 50,742 | 4 | 58,637 |
| 18 | 2 | 34,934 | 5 | 72,856 |
| 19 | 1 | 16,300 | 1 | 14,964 |
| 20 |  |  | 1 | 9,038 |
| 23 |  |  | 1 | 89,465 |
| 26 |  |  | 2 | 94,410 |
| 30 | 1 | 11,705 | 1 | 44,280 |
| 32 |  |  | 2 | 92,708 |
| 34 |  |  | 1 | 52,349 |
| 35 |  |  | 2 | 90,649 |
| 36 |  |  | 6 | 230,993 |
| 37 |  |  | 3 | 134,411 |
| 38 |  |  | 2 | 62,331 |
| 39 |  |  | 6 | 241,469 |
| 40 |  |  | 6 | 256,203 |
| 41 |  |  | 5 | 213,775 |
| 42 | 1 | 47,388 | 7 | 266,251 |
| 43 |  |  | 8 | 346,682 |
| 44 |  |  | 17 | 810,509 |
| 45 |  |  | 12 | 552,175 |
| 46 | 1 | 33,669 | 8 | 347,372 |
| 47 |  |  | 15 | 672,240 |
| 48 |  |  | 13 | 590,233 |
| 49 | 1 | 45,006 | 15 | 644,976 |
| 50 |  |  | 11 | 477,122 |
| 51 |  |  | 15 | 683,350 |
| 52 |  |  | 14 | 639,894 |

## Table 9B

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Active Members' Death Benefits

Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 53 | 1 | \$ | 65,421 | 14 | \$ | 645,075 |
| 54 |  |  |  | 22 |  | 1,047,251 |
| 55 |  |  |  | 13 |  | 589,576 |
| 56 |  |  |  | 17 |  | 813,848 |
| 57 |  |  |  | 17 |  | 735,428 |
| 58 |  |  |  | 14 |  | 629,215 |
| 59 |  |  |  | 9 |  | 401,652 |
| 60 |  |  |  | 18 |  | 818,844 |
| 61 |  |  |  | 13 |  | 551,485 |
| 62 |  |  |  | 9 |  | 442,678 |
| 63 |  |  |  | 9 |  | 417,527 |
| 64 |  |  |  | 11 |  | 447,422 |
| 65 |  |  |  | 18 |  | 791,889 |
| 66 |  |  |  | 10 |  | 474,507 |
| 67 |  |  |  | 8 |  | 343,054 |
| 68 |  |  |  | 11 |  | 457,187 |
| 69 |  |  |  | 7 |  | 294,494 |
| 70 | 1 |  | 36,607 | 8 |  | 305,542 |
| 71 |  |  |  | 7 |  | 211,637 |
| 72 |  |  |  | 5 |  | 157,961 |
| 73 |  |  |  | 4 |  | 128,542 |
| 74 |  |  |  | 6 |  | 223,451 |
| 75 |  |  |  | 5 |  | 160,628 |
| 76 |  |  |  | 4 |  | 120,851 |
| 78 |  |  |  | 2 |  | 64,505 |
| 79 |  |  |  | 3 |  | 81,188 |
| 81 |  |  |  | 1 |  | 56,798 |
| 82 |  |  |  | 1 |  | 44,397 |
| 83 |  |  |  | 1 |  | 23,882 |
| 84 |  |  |  | 1 |  | 23,951 |
| 85 |  |  |  | 1 |  | 27,708 |
| 86 |  |  |  | 3 |  | 66,761 |
| 87 |  |  |  | 2 |  | 26,972 |
| 88 |  |  |  | 3 |  | 62,994 |
| 89 |  |  |  | 1 |  | 29,682 |
| 90 |  |  |  | 2 |  | 70,787 |
| 91 |  |  |  | 2 |  | 41,941 |
| 93 |  |  |  | 3 |  | 57,951 |
| 94 |  |  |  | 3 |  | 60,010 |

Table 9B

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016
Active Members' Death Benefits
Local Only
(Continued)


The 517 beneficiaries are receiving active members' death benefits on behalf of 148 deceased policemen and 39 deceased firemen. Information was not reported for the other 330 beneficiaries.

Table 10
The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016
Retired Members' Death Benefits

State And Local

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | unt |
| 5 |  |  |  | 4 | \$ | 50,718 |
| 6 | 1 | \$ | 17,163 | 2 |  | 18,159 |
| 7 |  |  |  | 3 |  | 31,127 |
| 8 |  |  |  | 3 |  | 34,255 |
| 9 |  |  |  | 5 |  | 51,691 |
| 10 |  |  |  | 6 |  | 70,931 |
| 11 | 1 |  | 18,375 | 14 |  | 149,962 |
| 12 | 3 |  | 38,089 | 9 |  | 91,729 |
| 13 | 1 |  | 6,048 | 11 |  | 115,437 |
| 14 |  |  |  | 17 |  | 168,357 |
| 15 | 2 |  | 16,037 | 19 |  | 233,594 |
| 16 | 2 |  | 19,730 | 18 |  | 208,555 |
| 17 | 4 |  | 48,376 | 28 |  | 344,918 |
| 18 | 2 |  | 25,066 | 23 |  | 276,915 |
| 19 | 4 |  | 35,779 | 18 |  | 230,346 |
| 20 |  |  |  | 2 |  | 25,595 |
| 21 |  |  |  | 2 |  | 19,892 |
| 23 |  |  |  | 1 |  | 11,032 |
| 24 |  |  |  | 1 |  | 11,375 |
| 27 |  |  |  | 1 |  | 41,249 |
| 31 |  |  |  | 3 |  | 85,925 |
| 32 | 1 |  | 52,346 |  |  |  |
| 33 |  |  |  | 1 |  | 10,738 |
| 35 |  |  |  | 2 |  | 18,040 |
| 37 |  |  |  | 3 |  | 108,528 |
| 38 | 1 |  | 47,833 | 5 |  | 128,374 |
| 39 | 1 |  | 7,878 | 4 |  | 102,832 |
| 40 |  |  |  | 3 |  | 107,718 |
| 41 |  |  |  | 5 |  | 169,871 |
| 42 |  |  |  | 5 |  | 147,632 |
| 43 |  |  |  | 7 |  | 290,991 |
| 44 |  |  |  | 4 |  | 149,454 |
| 45 | 2 |  | 88,151 | 15 |  | 609,280 |
| 46 | 2 |  | 49,781 | 15 |  | 538,083 |
| 47 |  |  |  | 9 |  | 426,646 |
| 48 |  |  |  | 17 |  | 682,672 |
| 49 | 1 |  | 31,334 | 16 |  | 673,643 |
| 50 | 1 |  | 29,453 | 30 |  | 1,251,453 |
| 51 |  |  |  | 37 |  | 1,369,739 |
| 52 |  |  |  | 30 |  | 1,285,369 |
| 53 | 1 |  | 2,592 | 38 |  | 1,437,624 |

Table 10
The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Retired Members' Death Benefits

State And Local
(Continued)


Table 10

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016
Retired Members' Death Benefits

State And Local
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | Amount |
| 94 |  |  |  | 55 | \$ | 1,136,871.00 |
| 95 |  |  |  | 45 |  | 919,156 |
| 96 |  |  |  | 40 |  | 900,548 |
| 97 |  |  |  | 26 |  | 541,834 |
| 98 |  |  |  | 4 |  | 80,823 |
| 99 |  |  |  | 3 |  | 78,968 |
| 100 |  |  |  | 1 |  | 24,162 |
| 102 |  |  |  | 2 |  | 45,528 |
|  |  |  |  |  |  |  |
| Total | 77 | \$ | 1,918,114 | 6,562 | \$ | 201,196,859 |

The 6,639 beneficiaries are receiving retired members' death benefits on behalf of 3,826 deceased policemen, 1,133 deceased firemen and 1,680 deceased retirees for whom the information was not reported.

## Table 10A

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Retired Members' Death Benefits

State Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 5 |  |  | 1 | \$ 8,313 |
| 6 |  |  | 1 | 9,477 |
| 7 |  |  | 2 | 15,530 |
| 9 |  |  | 1 | 3,880 |
| 10 |  |  | 2 | 15,010 |
| 11 |  |  | 2 | 14,196 |
| 12 | 1 | \$ 11,130 | 3 | 24,932 |
| 13 |  |  | 5 | 44,004 |
| 14 |  |  | 3 | 18,351 |
| 15 |  |  | 6 | 62,560 |
| 16 |  |  | 6 | 46,785 |
| 17 |  |  | 6 | 78,619 |
| 18 |  |  | 5 | 51,732 |
| 19 | 1 | 5,253 | 3 | 28,857 |
| 20 |  |  | 1 | 10,335 |
| 24 |  |  | 1 | 11,375 |
| 31 |  |  | 2 | 40,762 |
| 32 | 1 | 52,346 |  |  |
| 33 |  |  | 1 | 10,738 |
| 38 | 1 | 47,833 | 2 | 46,058 |
| 39 |  |  | 2 | 38,156 |
| 40 |  |  | 3 | 107,718 |
| 41 |  |  | 1 | 31,035 |
| 43 |  |  | 2 | 98,997 |
| 45 |  |  | 6 | 202,349 |
| 46 |  |  | 3 | 108,995 |
| 47 |  |  | 3 | 105,999 |
| 48 |  |  | 2 | 93,869 |
| 49 |  |  | 3 | 102,891 |
| 50 | 1 | 29,453 | 5 | 187,173 |
| 51 |  |  | 8 | 246,432 |
| 52 |  |  | 5 | 184,766 |
| 53 |  |  | 5 | 192,111 |
| 54 |  |  | 7 | 248,740 |
| 55 |  |  | 8 | 351,195 |
| 56 |  |  | 5 | 170,840 |
| 57 |  |  | 9 | 306,899 |
| 58 | 1 | 21,603 | 11 | 415,432 |
| 59 |  |  | 10 | 369,203 |
| 60 | 2 | 94,479 | 16 | 606,853 |
| 61 | 1 | 38,637 | 26 | 876,772 |

## Table 10A

## The Number And Annual Retirement

Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Retired Members' Death Benefits

State Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | ount |
| 62 |  |  |  | 10 | \$ | 431,782 |
| 63 |  |  |  | 10 |  | 350,811 |
| 64 |  |  |  | 13 |  | 450,147 |
| 65 | 1 | \$ | 29,617 | 23 |  | 832,367 |
| 66 | 1 |  | 35,304 | 13 |  | 466,327 |
| 67 | 1 |  | 49,553 | 17 |  | 595,994 |
| 68 |  |  |  | 22 |  | 760,910 |
| 69 | 3 |  | 109,776 | 24 |  | 847,633 |
| 70 |  |  |  | 17 |  | 598,432 |
| 71 | 1 |  | 15,793 | 14 |  | 429,571 |
| 72 |  |  |  | 14 |  | 412,971 |
| 73 | 1 |  | 45,912 | 19 |  | 612,177 |
| 74 |  |  |  | 21 |  | 672,151 |
| 75 |  |  |  | 13 |  | 404,537 |
| 76 |  |  |  | 19 |  | 536,070 |
| 77 |  |  |  | 16 |  | 468,037 |
| 78 |  |  |  | 18 |  | 518,232 |
| 79 | 2 |  | 69,760 | 12 |  | 342,660 |
| 80 |  |  |  | 11 |  | 298,235 |
| 81 |  |  |  | 16 |  | 530,389 |
| 82 |  |  |  | 15 |  | 437,716 |
| 83 | 1 |  | 27,472 | 10 |  | 226,199 |
| 84 |  |  |  | 8 |  | 223,111 |
| 85 | 1 |  | 28,086 | 7 |  | 172,116 |
| 86 |  |  |  | 13 |  | 323,401 |
| 87 |  |  |  | 10 |  | 295,292 |
| 88 |  |  |  | 8 |  | 180,751 |
| 89 |  |  |  | 10 |  | 261,862 |
| 90 |  |  |  | 4 |  | 94,770 |
| 91 |  |  |  | 3 |  | 69,403 |
| 92 |  |  |  | 3 |  | 74,142 |
| 94 |  |  |  | 5 |  | 90,763 |
| 95 |  |  |  | 1 |  | 18,980 |
| 96 |  |  |  | 1 |  | 18,424 |
|  |  |  |  |  |  |  |
| Total | 21 | \$ | 712,007 | 613 | \$ | 18,634,302 |

The 634 beneficiaries are receiving retired members' death benefits on behalf of 546 deceased policemen, 17 deceased firemen and 71 deceased retirees for whom the information was not reported.

## Table 10B

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Retired Members' Death Benefits

Local Only

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 5 |  |  | 3 | \$ 42,405 |
| 6 | 1 | \$ 17,163 | 1 | 8,682 |
| 7 |  |  | 1 | 15,597 |
| 8 |  |  | 3 | 34,255 |
| 9 |  |  | 4 | 47,812 |
| 10 |  |  | 4 | 55,921 |
| 11 | 1 | 18,375 | 12 | 135,766 |
| 12 | 2 | 26,958 | 6 | 66,798 |
| 13 | 1 | 6,048 | 6 | 71,434 |
| 14 |  |  | 14 | 150,007 |
| 15 | 2 | 16,037 | 13 | 171,035 |
| 16 | 2 | 19,730 | 12 | 161,769 |
| 17 | 4 | 48,376 | 22 | 266,298 |
| 18 | 2 | 25,066 | 18 | 225,183 |
| 19 | 3 | 30,528 | 15 | 201,486 |
| 20 |  |  | 1 | 15,259 |
| 21 |  |  | 2 | 19,892 |
| 23 |  |  | 1 | 11,032 |
| 27 |  |  | 1 | 41,249 |
| 31 |  |  | 1 | 45,163 |
| 35 |  |  | 2 | 18,040 |
| 37 |  |  | 3 | 108,528 |
| 38 |  |  | 3 | 82,317 |
| 39 | 1 | 7,878 | 2 | 64,677 |
| 41 |  |  | 4 | 138,836 |
| 42 |  |  | 5 | 147,632 |
| 43 |  |  | 5 | 191,994 |
| 44 |  |  | 4 | 149,454 |
| 45 | 2 | 88,151 | 9 | 406,931 |
| 46 | 2 | 49,781 | 12 | 429,088 |
| 47 |  |  | 6 | 320,647 |
| 48 |  |  | 15 | 588,803 |
| 49 | 1 | 31,334 | 13 | 570,752 |
| 50 |  |  | 25 | 1,064,281 |
| 51 |  |  | 29 | 1,123,307 |
| 52 |  |  | 25 | 1,100,603 |
| 53 | 1 | 2,592 | 33 | 1,245,512 |
| 54 | 2 | 22,425 | 30 | 1,233,983 |
| 55 | 3 | 96,891 | 39 | 1,654,414 |
| 56 | 3 | 74,379 | 41 | 1,632,716 |
| 57 | 1 | 5,550 | 40 | 1,587,452 |

## Table 10B

The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016

## Retired Members' Death Benefits

Local Only
(Continued)

| Age | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount | Number | Amount |
| 58 | 2 | \$ 58,240 | 52 | \$ 2,118,402 |
| 59 |  |  | 77 | 3,289,621 |
| 60 |  |  | 94 | 3,626,349 |
| 61 |  |  | 89 | 3,455,196 |
| 62 |  |  | 79 | 3,091,306 |
| 63 | 1 | 7,765 | 78 | 3,080,912 |
| 64 | 2 | 37,008 | 99 | 3,516,129 |
| 65 |  |  | 107 | 3,868,408 |
| 66 | 1 | 40,441 | 106 | 3,853,417 |
| 67 |  |  | 128 | 5,024,045 |
| 68 | 1 | 15,848 | 138 | 4,956,469 |
| 69 | 1 | 32,126 | 164 | 5,800,604 |
| 70 | 1 | 38,727 | 162 | 5,837,355 |
| 71 |  |  | 137 | 4,599,376 |
| 72 | 1 | 30,613 | 169 | 5,559,930 |
| 73 | 2 | 82,724 | 177 | 6,152,291 |
| 74 | 1 | 45,282 | 192 | 6,359,162 |
| 75 |  |  | 217 | 7,228,320 |
| 76 | 1 | 20,969 | 175 | 5,819,587 |
| 77 | 3 | 77,242 | 188 | 6,220,000 |
| 78 |  |  | 171 | 5,060,313 |
| 79 |  |  | 188 | 5,472,253 |
| 80 |  |  | 208 | 5,858,843 |
| 81 |  |  | 184 | 5,082,657 |
| 82 |  |  | 174 | 5,045,231 |
| 83 | 1 | 30,351 | 173 | 4,659,101 |
| 84 |  |  | 182 | 4,843,471 |
| 85 | 1 | 19,796 | 158 | 4,115,731 |
| 86 |  |  | 201 | 5,158,093 |
| 87 |  |  | 182 | 4,594,906 |
| 88 | 1 | 17,456 | 186 | 4,600,494 |
| 89 | 1 | 28,961 | 187 | 4,451,797 |
| 90 |  |  | 136 | 3,205,646 |
| 91 | 1 | 35,296 | 139 | 3,285,398 |
| 92 |  |  | 104 | 2,365,948 |
| 93 |  |  | 94 | 2,059,062 |
| 94 |  |  | 50 | 1,046,108 |
| 95 |  |  | 44 | 900,176 |
| 96 |  |  | 39 | 882,125 |
| 97 |  |  | 26 | 541,834 |

Table 10B
The Number And Annual Retirement
Allowances Of Beneficiaries Distributed
By Age As Of July 1, 2016
Retired Members' Death Benefits
Local Only
(Continued)

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | mount |
| 98 |  |  |  | 4 | \$ | 80,823 |
| 99 |  |  |  | 3 |  | 78,968 |
| 100 |  |  |  | 1 |  | 24,162 |
| 102 |  |  |  | 2 |  | 45,528 |
|  |  |  |  |  |  |  |
| Total | 56 | \$ | 1,206,107 | 5,949 | \$ | 182,562,557 |

The 6,005 beneficiaries are receiving retired members' death benefits on behalf of 3,280 deceased policemen, 1,116 deceased firemen and 1,609 deceased retirees for whom the information was not reported.

## Table 11

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

Deferred Terminated Vesteds

State And Local

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Amount |  | Number | Amount |  |
| 39 | 4 | \$ | 69,816 |  |  |  |
| 40 | 1 |  | 26,364 |  |  |  |
| 42 | 1 |  | 32,940 |  |  |  |
| 43 | 1 |  | 20,856 |  |  |  |
| 45 | 4 |  | 62,340 | 1 | \$ | 14,424 |
| 46 | 3 |  | 64,980 |  |  |  |
| 47 | 7 |  | 148,032 |  |  |  |
| 48 | 1 |  | 9,804 |  |  |  |
| 49 | 4 |  | 76,404 |  |  |  |
| 50 | 6 |  | 128,748 |  |  |  |
| 51 | 2 |  | 35,412 |  |  |  |
| 52 |  |  |  | 2 |  | 33,312 |
| 53 | 2 |  | 50,340 |  |  |  |
| 54 | 3 |  | 72,060 | 1 |  | 38,820 |
| 55 | 3 |  | 77,556 |  |  |  |
| 69 | 1 |  | 8,868 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 43 | \$ | 884,520 | 4 | \$ | 86,556 |

The 47 deferred terminated vested members consist of 44 policemen and 3 firemen.

Table 11A

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016

Deferred Terminated Vesteds

State Only

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | Amount |
| 40 | 1 | \$ | 26,364 |  |  |  |
| 45 | 1 |  | 18,840 |  |  |  |
| 46 | 2 |  | 39,840 |  |  |  |
| 47 | 1 |  | 15,792 |  |  |  |
| 50 | 1 |  | 10,260 |  |  |  |
| 51 | 1 |  | 18,996 |  |  |  |
| 54 |  |  |  | 1 | \$ | 38,820 |
|  |  |  |  |  |  |  |
| Total | 7 | \$ | 130,092 | 1 | \$ | 38,820 |

The 8 deferred terminated vested members consist of 8 policemen.

The Number And Annual Retirement
Allowances Of Retired Members Distributed
By Age As Of July 1, 2016
Deferred Terminated Vesteds

Local Only

| Age | Men |  |  | Women |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Amount | Number |  | Amount |
| 39 | 4 | \$ | 69,816 |  |  |  |
| 42 | 1 |  | 32,940 |  |  |  |
| 43 | 1 |  | 20,856 |  |  |  |
| 45 | 3 |  | 43,500 | 1 | \$ | 14,424 |
| 46 | 1 |  | 25,140 |  |  |  |
| 47 | 6 |  | 132,240 |  |  |  |
| 48 | 1 |  | 9,804 |  |  |  |
| 49 | 4 |  | 76,404 |  |  |  |
| 50 | 5 |  | 118,488 |  |  |  |
| 51 | 1 |  | 16,416 |  |  |  |
| 52 |  |  |  | 2 |  | 33,312 |
| 53 | 2 |  | 50,340 |  |  |  |
| 54 | 3 |  | 72,060 |  |  |  |
| 55 | 3 |  | 77,556 |  |  |  |
| 69 | 1 |  | 8,868 |  |  |  |
|  |  |  |  |  |  |  |
| Total | 36 | \$ | 754,428 | 3 | \$ | 47,736 |

The 39 deferred terminated vested members consist of 36 policemen and 3 firemen.

Appendix F - Early Retirement Incentive (ERI) Contribution Schedule

|  | ERI 1 Information |  |
| :--- | :---: | :---: |
| Location | Location Name | Current |
| Number | Payment | Value as of |
|  |  | $7 / 1 / 2016$ |


| 22100 | East Rutherford Borough | $\$$ | 78,903 | $\$$ | 813,436 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 25500 | Glen Ridge Borough |  | 56,735 |  | 584,903 |
| 34600 | Wallington Borough |  | 37,094 | 382,412 |  |
| 38800 | Phillipsburg Town |  | 11,104 |  | 114,474 |
| 43400 | Bound Brook Borough | 32,970 | 339,897 |  |  |
| 54400 | Linwood City | 51,697 | 532,963 |  |  |
| 57100 | Mine Hill Township |  | 18,023 | 185,806 |  |
| 61200 | Raritan Township |  | 54,332 | 560,121 |  |
|  | Total | $\$$ |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |


|  |  | ERI Information |  |
| :--- | :---: | :---: | :---: |
| Location | Years and Form of |  |  |
| Number | Location Name | Payment | Current Payment $\left.\begin{array}{c}\text { Present Value as } \\ \text { of 7/1/16 }\end{array}\right)$ |

## Chapter 126, P.L. 2000

$\begin{array}{ll}71600 & \text { Passaic County } \\ 71603 & \text { Passaic County } \\ 72000 & \text { Union County } \\ 72001 & \text { Union County } \\ 72003 & \text { Union County } \\ 72003 & \text { Union County (Effective 2006) }\end{array}$
Sub-Total
15 Year - Level
15 Year - Level
15 Year - Level
15 Year - Level
15 Year - Level
15 Year - Level

| \$ | 175,027 | \$ | 429,510 |
| :--- | ---: | :--- | ---: |
|  | 27,746 |  | 68,087 |
|  | 49,600 |  | 247,297 |
|  | 17,735 |  | 88,422 |
|  | 54,629 |  | 172,547 |
|  | 199,343 |  | 993,899 |
|  | 524,080 | $\$$ | $1,999,762$ |


| 15 Year - Increasing | \$ | 306,161 | $\$$ | $1,008,671$ |
| :--- | ---: | ---: | ---: | ---: |
| 15 Year - Increasing |  | 50,502 |  | 203,584 |
| 15 Year - Increasing |  | 35,806 | 117,964 |  |
| 15 Year - Increasing |  | 283,558 | 934,204 |  |
| 15 Year - Increasing | 205,561 | 677,236 |  |  |
| 15 Year - Increasing | 112,143 | 369,464 |  |  |
| 15 Year - Increasing | 34,784 | 140,222 |  |  |
| 15 Year - Increasing | 48,362 | 194,959 |  |  |
| 15 Year - Increasing | 76,301 | 307,587 |  |  |
| 15 Year - Increasing |  | 164,250 | 541,132 |  |
| 15 Year - Increasing | 40,602 | 163,676 |  |  |
| 15 Year - Increasing |  | 39,783 |  | 160,374 |
| 15 Year - Increasing |  | 36,260 |  | 146,174 |
| 15 Year - Increasing | 25,139 |  | 101,342 |  |
| 15 Year - Increasing |  | 20,374 |  | 82,131 |
| 15 Year - Increasing |  | 158,349 |  | 521,693 |
| 15 Year - Increasing |  | 1,174 |  | 4,732 |
| 15 Year - Increasing |  | 53,422 |  | 215,357 |
|  | $1,692,531$ | $\$$ | $5,890,502$ |  |

## Appendix H - Local Employer Chapter 19, P,L. 2009

Deferral And Payment Schedule

| Location Number | Location Name | Fiscal Year 2018 Payment | Present Value as of July 1, 2016 |
| :---: | :---: | :---: | :---: |
| 20300 | Bayonne City | \$ 613,524 | \$ 3,679,853 |
| 20400 | Salem City | 24,215 | 145,239 |
| 20600 | Plainfield City | 350,896 | 2,104,637 |
| 21001 | Elizabeth City | 490,172 | 2,940,000 |
| 21002 | Elizabeth City | 350,886 | 2,104,577 |
| 21101 | Newark City | 1,831,142 | 10,983,004 |
| 21102 | Newark City | 894,098 | 5,362,710 |
| 21202 | Camden City | 304,472 | 1,826,195 |
| 21300 | North Plainfield Borough | 109,355 | 655,899 |
| 21600 | Somerville Borough | 43,277 | 259,569 |
| 21800 | Roselle Borough | 140,827 | 844,667 |
| 22000 | Freehold Borough | 52,231 | 313,274 |
| 22400 | Union City | 297,872 | 1,786,604 |
| 22501 | Passaic City | 265,747 | 1,593,926 |
| 22502 | Passaic City | 176,322 | 1,057,562 |
| 22800 | Metuchen Borough | 38,295 | 229,691 |
| 23000 | West New York Town | 172,911 | 1,037,103 |
| 23200 | Oradell Borough | 34,321 | 205,855 |
| 23301 | Hoboken City | 216,286 | 1,297,260 |
| 23302 | Hoboken City | 208,029 | 1,247,740 |
| 23400 | Audubon Borough | 25,027 | 150,110 |
| 23800 | East Orange City | 539,266 | 3,234,464 |
| 23900 | Maplewood Township | 155,743 | 934,129 |
| 24100 | Hightstown Borough | 19,681 | 118,042 |
| 24200 | West Milford Township | 78,831 | 472,819 |
| 24400 | Saddle Brook Township | 66,345 | 397,930 |
| 24500 | Perth Amboy City | 268,593 | 1,610,992 |
| 24600 | Secaucus Town | 102,397 | 614,167 |
| 24800 | Lyndhurst Township | 88,502 | 530,828 |
| 24900 | Orange City | 247,870 | 1,486,700 |
| 25500 | Glen Ridge Borough | 36,552 | 219,233 |
| 25600 | Guttenberg Town | 30,178 | 181,006 |
| 25801 | Collingswood Borough | 43,104 | 258,535 |
| 25802 | Collingswood Borough | 18,474 | 110,805 |
| 26100 | Dunellen Borough | 18,465 | 110,749 |
| 26600 | Fairview Borough | 52,595 | 315,459 |
| 26700 | Keansburg Borough | 43,955 | 263,636 |
| 27300 | New Milford Borough | 56,825 | 340,833 |
| 27400 | Paramus Borough | 183,834 | 1,102,616 |

Appendix H - Local Employer Chapter 19, P,L. 2009
Deferral And Payment Schedule

| Location Number | Location Name | Fiscal Year 2018 Payment | Present Value as of July 1, 2016 |
| :---: | :---: | :---: | :---: |
| 27600 | South Amboy City | \$ 37,197 | \$ 223,103 |
| 27700 | Weehawken Township | 90,350 | 541,910 |
| 28000 | Hackensack City | 381,689 | 2,289,333 |
| 28500 | Penns Grove Borough | 18,448 | 110,648 |
| 28600 | Matawan Borough | 33,085 | 198,441 |
| 28700 | Cedar Grove Township | 50,195 | 301,067 |
| 28900 | Bogota Borough | 21,337 | 127,975 |
| 29100 | Irvington Township | 443,755 | 2,661,599 |
| 29200 | Cinnaminson Township | 63,441 | 380,514 |
| 29500 | Little Ferry Borough | 28,447 | 170,625 |
| 29700 | Garwood Borough | 22,915 | 137,442 |
| 30701 | Paterson City | 480,401 | 2,881,396 |
| 30702 | Paterson City | 380,160 | 2,280,159 |
| 30801 | Atlantic City | 471,046 | 2,825,289 |
| 30802 | Atlantic City | 349,164 | 2,094,250 |
| 31100 | Fanwood Borough | 27,894 | 167,303 |
| 31300 | East Hanover Township | 61,140 | 366,711 |
| 31600 | Rutherford Borough | 69,990 | 419,792 |
| 31800 | Harrison Township | 160,207 | 960,906 |
| 32200 | Gloucester City | 72,294 | 433,615 |
| 32600 | Union Township | 351,576 | 2,108,718 |
| 32700 | Bloomfield Township | 331,059 | 1,985,658 |
| 32900 | Morristown Town | 123,141 | 738,590 |
| 33200 | Asbury Park City | 184,347 | 1,105,693 |
| 33401 | Trenton City | 467,484 | 2,803,922 |
| 33402 | Trenton City | 349,079 | 2,093,742 |
| 33800 | Lakewood Township | 189,886 | 1,138,915 |
| 34000 | North Arlington Borough | 58,157 | 348,820 |
| 34100 | Rahway City | 204,066 | 1,223,968 |
| 34200 | Verona Township | 48,361 | 290,062 |
| 34301 | Hillside Township | 108,528 | 650,940 |
| 34302 | Hillside Township | 75,080 | 450,320 |
| 34600 | Wallington Borough | 39,293 | 235,673 |
| 34700 | East Newark Borough | 6,898 | 41,372 |
| 34800 | Clifton City | 466,148 | 2,795,906 |
| 34900 | Wildwood City | 78,677 | 471,896 |
| 35000 | Palisades Park Borough | 53,415 | 320,376 |
| 35100 | Pleasantville City | 158,738 | 952,094 |
| 35400 | Belleville Township | 283,450 | 1,700,105 |
| 35500 | Dover Town | 62,026 | 372,024 |
| 35600 | South Orange Village | 147,043 | 881,947 |
| 35800 | Garfield City | 106,764 | 640,359 |
| 35900 | Linden City | 387,456 | 2,323,923 |

Appendix H - Local Employer Chapter 19, P,L. 2009
Deferral And Payment Schedule

| Location Number | Location Name | Fiscal Year 2018 Payment | Present Value as of July 1, 2016 |
| :---: | :---: | :---: | :---: |
| 36200 | Bridgeton City | \$ 86,171 | \$ 516,846 |
| 36400 | Washington Borough | 17,315 | 103,854 |
| 36700 | Fairfield Township | 57,796 | 346,656 |
| 36900 | Middlesex Borough | 46,252 | 277,413 |
| 37000 | Middletown Township | 165,934 | 995,256 |
| 37400 | Maywood Borough | 44,666 | 267,900 |
| 37700 | Piscataway Township | 133,981 | 803,605 |
| 38101 | Jersey City | 1,234,089 | 7,401,944 |
| 38102 | Jersey City Fire Dept. | 935,623 | 5,611,772 |
| 38500 | Runnemede Borough | 27,914 | 167,425 |
| 39500 | Mountainside Borough | 35,712 | 214,198 |
| 39900 | Long Branch City | 166,435 | 998,261 |
| 40400 | Wanaque Borough | 36,076 | 216,382 |
| 41000 | Manville Borough | 36,045 | 216,195 |
| 41400 | Oceanport Borough | 23,766 | 142,544 |
| 41500 | Haworth Borough | 19,178 | 115,029 |
| 41600 | Little Falls Twp | 32,286 | 193,646 |
| 41900 | North Haledon Borough | 25,712 | 154,216 |
| 42000 | Haledon Borough | 26,512 | 159,019 |
| 42500 | Wharton Borough | 30,306 | 181,775 |
| 43000 | West Paterson Borough | 38,678 | 231,989 |
| 43100 | Ewing Township | 139,880 | 838,984 |
| 43400 | Bound Brook Borough | 34,161 | 204,895 |
| 43500 | Emerson Borough | 33,755 | 202,460 |
| 43600 | Roseland Borough | 40,808 | 244,764 |
| 43700 | Norwood Borough | 23,284 | 139,656 |
| 43800 | Prospect Park Borough | 22,575 | 135,401 |
| 44100 | Englewood Cliffs Borough | 59,007 | 353,916 |
| 44800 | Englishtown Borough | 5,431 | 32,572 |
| 44900 | Ringwood Borough | 33,565 | 201,320 |
| 46300 | Borough_Of Lake Como | 13,738 | 82,398 |
| 46400 | Aberdeen Township | 46,394 | 278,264 |
| 46600 | West Long Branch Borough | 26,545 | 159,217 |
| 46700 | Pt Pleasant Beach Borough | 38,742 | 232,371 |
| 47300 | Brooklawn Borough | 6,028 | 36,156 |
| 47800 | Hopatcong Borough | 40,014 | 239,999 |
| 47900 | West Deptford Township | 53,860 | 323,048 |
| 48200 | South Bound Brook Borough | 19,457 | 116,699 |
| 48600 | Gloucester Township | 150,162 | 900,659 |
| 48800 | Upper Saddle River Boro | 32,733 | 196,330 |
| 49100 | Willingboro Township | 113,193 | 678,918 |
| 50000 | Brielle Borough | 25,011 | 150,011 |
| 50700 | South Brunswick Township | 125,011 | 749,802 |

Appendix H - Local Employer Chapter 19, P,L. 2009
Deferral And Payment Schedule

| Location Number | Location Name | Fiscal Year 2018 Payment | Present Value as of July 1, 2016 |
| :---: | :---: | :---: | :---: |
| 51100 | Jefferson Township | \$ 58,212 | \$ 349,147 |
| 51600 | Wall Township | 126,735 | 760,141 |
| 52800 | Berlin Borough | 23,371 | 140,177 |
| 53500 | Winslow Township | 108,765 | 652,361 |
| 53900 | Berkeley Township Municipal Bld | 121,620 | 729,467 |
| 54100 | Mansfield Township | 17,003 | 101,984 |
| 54300 | Lebanon Township | 11,488 | 68,902 |
| 54600 | Vernon Township | 50,747 | 304,377 |
| 54700 | Seaside Heights Borough | 31,800 | 190,736 |
| 54800 | Manchester Township | 88,518 | 530,922 |
| 55100 | Pine Hill Borough | 26,346 | 158,021 |
| 55300 | Lindenwold Borough | 55,857 | 335,023 |
| 55700 | Bloomingdale Borough | 24,741 | 148,392 |
| 56000 | Howell Township | 154,858 | 928,823 |
| 56200 | Plainsboro Township | 57,611 | 345,542 |
| 56300 | Marlboro Township | 129,984 | 779,633 |
| 56500 | Franklin Township | 34,301 | 205,733 |
| 58200 | Egg Harbor Township | 120,512 | 722,819 |
| 58400 | Holmdel Township | 70,514 | 422,938 |
| 58500 | Milltown Borough | 22,400 | 134,351 |
| 58900 | Buena Borough | 6,966 | 41,781 |
| 59000 | Eastampton Township | 22,198 | 133,142 |
| 59800 | Chesilhurst Borough | 8,276 | 49,636 |
| 59900 | Egg Harbor City | 14,625 | 87,721 |
| 60000 | Harrison Township | 16,815 | 100,857 |
| 60100 | Woodbury Heights Borough | 7,678 | 46,050 |
| 60600 | Waterfront Comm Of Ny Harbor | 1,895 | 11,365 |
| 61000 | Somerdale Borough | 14,595 | 87,540 |
| 61200 | Raritan Township | 54,508 | 326,935 |
| 62300 | Nj Transit Corporation | 263,137 | 1,578,272 |
| 63100 | Allentown Borough | 7,004 | 42,012 |
| 63300 | Barnegat Township | 38,708 | 232,165 |
| 67700 | Lambertville City | 9,824 | 58,924 |
| 68000 | Lawnside Borough | 7,726 | 46,338 |


| Location Number | Location Name | Fiscal Year 2018 Payment | Present Value as of July 1, 2016 |  |
| :---: | :---: | :---: | :---: | :---: |
| 68800 | Mount Arlington Borough | \$ 13,621 | \$ | 81,695 |
| 69000 | National Park Borough | 4,405 |  | 26,419 |
| 70404 | Camden County Regional | 535,164 |  | 3,209,860 |
| 71600 | Passaic County | 886,860 |  | 5,319,300 |
| 71603 | Passaic County | 126,818 |  | 760,641 |
| 72000 | Union County | 413,978 |  | 2,482,996 |
| 72001 | Union County | 68,121 |  | 408,584 |
| 72003 | Union County | 318,891 |  | 1,912,679 |
| 72700 | South Toms River Borough | 7,327 |  | 43,946 |
| 73500 | Union Beach Borough | 12,442 |  | 74,627 |
| 74000 | West Amwell Township | 3,339 |  | 20,024 |
| 74100 | Winfield Township | 5,916 |  | 35,486 |
| 74400 | Hamilton Twp Fire Comm Dist 2 | 10,196 |  | 61,153 |
| 75000 | Lakewood Twp Fire District \#1 | 4,983 |  | 29,890 |
| 75900 | Gloucester Twp Fire District \#2 | 3,387 |  | 20,313 |
| 79000 | North Hudson Reg Fire \& Rescue | 513,814 |  | 3,081,806 |
|  |  |  |  |  |
|  | Total | \$ 25,277,343 | \$ | 151,610,930 |


[^0]:    5 The number counts exclude 2,153 Domestic Relations beneficiaries in 2016 and 1,992 Domestic Relations beneficiaries in 2015.
    6 Includes annual allowances paid to Domestic Relations beneficiaries.

[^1]:    1 Reflects the State's fiscal year 2017 anticipated contribution of $\$ 193,550,939$ discounted one year. This amount may be subject to change per the

[^2]:    1 It is recommended that the Retirement Reserve Fund be put into balance each year by transferring assets between the Reserve for Employers' Contributions Fund and the Retirement Reserve Fund so that the Retirement Reserve Fund will contain sufficient assets to cover the retiree and beneficiary liability. Therefore, we recommend that $\$ 898,612,646$ be transferred from the Reserve for Employers' Contribution Fund to the Retirement Reserve Fund to put the System in balance as of July 1, 2016.
    2 Includes the present value of ERI payments of \$11,404,276.

[^3]:    ${ }^{1}$ The anticipated fiscal year 2016 contribution of $\$ 138,324,315$ has been decreased to $\$ 138,324,000$ to reflect the actual State contribution made during fiscal year 2016.

[^4]:    ${ }^{1}$ The information in the above tables has been taken directly from the final valuation reports for each plan year and does not reflect subsequent changes in the actual employer contribution amounts from the reported receivable contribution after the valuation reports were issued.

