

NEW HAMPSHIRE RETIREMENT SYSTEM

ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2007



December 5, 2007

Board of Trustees New Hampshire Retirement System 54 Regional Drive Concord, New Hampshire 03301-8509

Re: New Hampshire Retirement System Actuarial Valuation as of June 30, 2007

Dear Board Members:

The results of the June 30, 2007 Annual Actuarial Valuation of the New Hampshire Retirement System (NHRS) are presented in this report. The purpose of the valuation was to measure the System's funding progress and to determine the employer contribution rate for Fiscal Years 2010 and 2011.

The valuation was based upon information, furnished by NHRS staff, concerning Retirement System benefits, financial transactions, and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not otherwise audit the data.

The valuation results summarized in this report involve actuarial calculations that require assumptions about future events. We believe that the assumptions and methods used in this report are reasonable and appropriate for the purpose for which they have been used. However, other assumptions and methods could also be reasonable and could result in materially different results. In addition, because it is not possible or practical to consider every possible contingency, we may use summary information, estimates or simplifications of calculations to facilitate the modeling of future events. We may also exclude factors or data that are deemed to be immaterial.

If there is other information that you need in order to make an informed decision regarding the matters discussed in this report, please contact us.

We certify that the information contained in this report is accurate and fairly presents the actuarial position of the New Hampshire Retirement System as of June 30, 2007. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

The undersigned actuaries are independent of the plan sponsor and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,

Lenna & alle to

Kenneth G. Alberts

David T Kausch FSA EA MAAA

Brian B. Murphy, FSA, EA, MAAA

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EXECUTIVE SUMMARY

Executive Summary

| Covered Group | Employees | Teachers | Police | Fire | Total |
|---|-----------------|-----------------|-----------------|---------------|-----------------|
| I. Number of Participants as of June 30, 2007 | | | | | |
| a. Actives | 26,474 | 18,477 | 4,263 | 1,588 | 50,802 |
| b. Retirees, Disabilities, and Beneficiaries | 10,859 | 6,928 | 2,293 | 1,168 | 21,248 |
| c. Vested Terminations | 528 | 480 | 38 | 3 | 1,049 |
| d. Total | 37,861 | 25,885 | 6,594 | 2,759 | 73,099 |
| e. Total Covered Annual Payroll | \$942,318,644 | \$922,308,092 | \$233,348,112 | \$97,364,534 | \$2,195,339,382 |
| II. Long Range Pension Cost | | | | | |
| a. Actuarial Present Value of Projected Benefits | \$3,107,149,385 | \$3,584,708,122 | \$1,679,870,123 | \$881,740,692 | \$9,253,468,322 |
| b. Actuarial Present Value of Future Normal Costs | 775,603,118 | 655,295,445 | 335,300,229 | 209,494,508 | 1,975,693,300 |
| c. Actuarial Accrued Liability (AAL): a. – b. | 2,331,546,267 | 2,929,412,677 | 1,344,569,894 | 672,246,184 | 7,277,775,022 |
| d. Valuation Assets | 1,476,474,795 | 1,841,418,900 | 872,425,768 | 421,936,852 | 4,612,256,315 |
| e. Unfunded Actuarial Accrued Liability (UAAL): c. – d. | 855,071,472 | 1,087,993,777 | 472,144,126 | 250,309,332 | 2,665,518,707 |
| f. Funded Status | 63.3% | 62.9% | 64.9% | 62.8% | 63.4% |
| III. Long Range Post-Retirement Health Cost | | | | | |
| a. Actuarial Present Value of Projected Benefits | \$234,429,412 | \$363,092,859 | \$417,444,450 | \$212,017,226 | \$1,226,983,947 |
| b. Actuarial Present Value of Future Normal Costs | 5,619,914 | 15,040,950 | 135,158,600 | 91,944,372 | 247,763,836 |
| c. Actuarial Accrued Liability (AAL): a. – b. | 228,809,498 | 348,051,909 | 282,285,850 | 120,072,854 | 979,220,111 |
| d. Valuation Assets | 27,622,160 | 19,880,115 | 63,280,663 | 46,193,555 | 156,976,493 |
| e. Unfunded Actuarial Accrued Liability (UAAL): c. – d. | 201,187,338 | 328,171,794 | 219,005,187 | 73,879,299 | 822,243,618 |
| f. Funded Status | 12.1% | 5.7% | 22.4% | 38.5% | 16.0% |
| IV. Current Cost | | | | | |
| Total Normal Cost (% of Covered Payroll) | 9.80% | 8.78% | 18.05% | 20.86% | 10.77% |
| Member Contributions (% of Payroll) | 5.00% | 5.00% | 9.30% | 9.30% | 5.66% |
| Employer Normal Cost (% of Payroll) | 4.80% | 3.78% | 8.75% | 11.56% | 5.11% |
| UAAL Contribution (% of Payroll) | 4.86% | 6.32% | 10.76% | 13.57% | 6.49% |
| Total Employer Pension Contribution (% of Payroll) | 9.66% | 10.10% | 19.51% | 25.13% | 11.60% |
| Total Employer Health Contribution (% of Payroll) | 3.22% | 3.37% | 6.50% | 8.38% | 3.87% |
| Contributions for Fiscal Year 2010 | | | | | |
| 1. Percent of Payroll | 12.88% | 13.47% | 26.01% | 33.51% | 15.47% |
| 2. Estimated Dollar Amount | \$138,504,065 | \$141,772,659 | \$69,261,759 | \$37,232,662 | \$386,771,145 |
| Contributions for Fiscal Year 2011 | | | | | |
| 1. Percent of Payroll | 12.88% | 13.47% | 26.01% | 33.51% | 15.47% |
| Estimated Dollar Amount | \$144,736,747 | \$148,152,429 | \$72,378,538 | \$38,908,132 | \$404,175,846 |
| | . , , , , , | . , , , . | . , , , | . , , - | . , ,- |



Discussion

Actuarial Valuation

This is the actuarial valuation of the New Hampshire Retirement System, prepared as of June 30 2007. Valuations are prepared biennially, as of June 30. The June 30, 2007 valuation determines the contribution rate for Fiscal Years 2010 and 2011.

The primary purposes of the valuation report are to measure the plan's liabilities, to determine the required employer contribution rate in accordance with actuarial standards and the New Hampshire State Statute, and to analyze changes in NHRS' actuarial position.

In addition, the report provides information in connection with Governmental Accounting Standards Board Statement No. 25 and No. 43 (GASB No. 25 and GASB No. 43), and it provides summaries of the member data, financial data, plan provisions, and actuarial assumptions and methods.

Financing Objectives

NHRS is supported by member contributions, employer contributions, and net earnings on the investments of the fund. The member contribution rate is set by statute at 5.00% for Group I Members (Employees and Teachers) and 9.30% for Group II Members (Police and Fire) of member's compensation. The employer contributions are determined in accordance with statute by an actuarial valuation. Legislation was enacted in 2007 which requires the use of the entry-age actuarial cost method and a 30-year amortization of unfunded actuarial accrued liability in the determination of the employer contributions.

We have determined that the following pension contribution rates satisfy the statute based on the June 30, 2007 valuation:

| | Employer Contribution Rates | | | | | | | | |
|---------|------------------------------------|----------|--------|--------|--------|--|--|--|--|
| | Employees | Teachers | Police | Fire | Total | | | | |
| Pension | 9.66% | 10.10% | 19.51% | 25.13% | 11.60% | | | | |

In order for the statute to be satisfied, this entire rate must be contributed to the pension fund. The statute also requires that 25% of the contributions collected from the employers must be contributed to the 401(h) account for the medical subsidy. In order to satisfy both sections of the statute (pension funding and post-retirement medical funding), the contributions must be increased by 33% so that after the 401(h) contributions, the rates above are contributed to the pension fund. The total contribution rates are shown in the table below:

| | Employer Contribution Rates | | | | | | | | | |
|---------|-----------------------------|----------|--------|--------|--------|--|--|--|--|--|
| | Employees | Teachers | Police | Fire | Total | | | | | |
| Pension | 9.66% | 10.10% | 19.51% | 25.13% | 11.60% | | | | | |
| Health | 3.22% | 3.37% | 6.50% | 8.38% | 3.87% | | | | | |
| Total | 12.88% | 13.47% | 26.01% | 33.51% | 15.47% | | | | | |

Contribution Requirement

RSA 100 - A:16 II provides that the State shall pay 35% of the computed contribution (referred to in statute as the "normal contribution") for all political subdivision employers who have members in the Teachers, Police and Fire divisions. The table below indicates this breakdown of obligations for these members:

| | | Employer Contribution Rates | | | | | | | | | | |
|---------|-------------|-----------------------------|--------|-------------|-------|--------|-------------|-------|--------|-------------|--------|--------|
| | Employees | | | Teachers | | | Police | | | Fire | | |
| | Political | | | Political | | | Political | | | Political | | |
| | Subdivision | State | Total | Subdivision | State | Total | Subdivision | State | Total | Subdivision | State | Total |
| Pension | 9.66% | 0.00% | 9.66% | 6.57% | 3.53% | 10.10% | 12.68% | 6.83% | 19.51% | 16.33% | 8.80% | 25.13% |
| Health | 3.22% | 0.00% | 3.22% | 2.19% | 1.18% | 3.37% | 4.23% | 2.27% | 6.50% | 5.45% | 2.93% | 8.38% |
| Total | 12.88% | 0.00% | 12.88% | 8.76% | 4.71% | 13.47% | 16.91% | 9.10% | 26.01% | 21.78% | 11.73% | 33.51% |

In addition, there are two political subdivisions that are completing an initial buy-in to NHRS. Their remaining buy-in contributions are as follows:

| | | | | | | | Fiscal |
|-----------|--------------------------|----------------|--------------|-----------|--------------|-----------|---------|
| | | UAAL as | | UAAL as | | UAAL as | Year of |
| | | of | 2007/2008 | of | 2008/2009 | of | Final |
| Fund | Agency | 6/30/2007 | Contribution | 6/30/2008 | Contribution | 6/30/2009 | Payment |
| Employees | Town of Raymond | 18,888 | 2,667 | 17,826 | 2,667 | 16,674 | 2019 |
| | Brookline Public Library | 8,135 | 1,483 | 7,217 | 1,483 | 6,221 | 2014 |
| | Total | 27,023 | 4,150 | 25,043 | 4,150 | 22,895 | |

Funded Status

As of the valuation date, the Unfunded Actuarial Accrued Liability (UAAL) is \$2,665.5 million (pension only), and the funded ratio (the ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability) is 63.4%. This valuation was prepared using the Entry-Age Actuarial Cost Method. The prior valuation (June 30, 2005) used the Open Aggregate Actuarial Cost Method. The prior method did not produce an accrued liability. Therefore, there is no consistent measure of unfunded actuarial accrued liability and funded status from the prior valuation. The actuarial cost method was changed by legislation enacted in 2007.

Variability of Future Contribution Rates

The Actuarial Cost Method used to determine the contribution rate is intended to produce contribution rates which are generally level as a percent of payroll. Even so, when experience differs from the assumptions, as it often does, the employer's contribution rate can vary significantly from year-to-year.

Actuarial Value of Assets

The Actuarial Value of Assets of the System is less than the Market Value of Assets by \$696 million as of the valuation date (see page 6). This difference will be gradually recognized over the next four years in the absence of offsetting losses/gains.

System Assets include a Special Account reserve of approximately \$503 million (actuarial value) that is available to finance future pension benefit enhancements such as future COLAs and a 401(h) subtrust of approximately \$157 million (actuarial value) that is available to finance retiree medical premium subsidies.

Legislation enacted in 2007 precludes any asset gains from being transferred to the Special Account until such time as the funded status of NHRS reaches 85%. This year, approximately \$204 million dollars would have been transferred into the Special Account had the new law not been enacted.

Benefit Provisions

Legislation enacted in 2007 provided the following changes in plan provisions:

- A post-retirement COLA equal to 2.25% for all retirees retired for at least 12 months as of July 1, 2007;
- A maximum retirement benefit equal to 100% of the member's highest year of earnable compensation;
- Repealing of the option to purchase nonqualified service credit in the System.

The post retirement COLA resulted in an increase in accrued liabilities of approximately \$66.6 million. Assets equal to this amount were transferred from the Special Account to the net pension assets as of July 1, 2007. For purposes of the June 30, 2007 valuation, the transfer was assumed to have occurred on June 30, 2007.

Actuarial Assumptions and Methods

Section F summarizes the current assumptions. The following changes in methods and assumptions were made with this valuation:

- The wage inflation assumption has been explicitly set at 4.5%. The remaining merit and longevity salary scale assumptions for each group have been reduced by 0.5% so long as the combined increase (merit and longevity plus wage inflation) was not less than 4.5%.
- The assumption that all Group II retirees will have a 50% spousal allowance paid has been changed to reflect actual experience and reported data.
- The assumption that all retirees retire at mid-year has been changed for the Teacher group only to reflect that all Teachers are assumed to retire at the beginning of each fiscal year.
- Normal cost has been loaded to account for administrative expenses paid directly out of the NHRS fund.
- The funding value of assets method was changed to a method that does not rely on the book value.

We believe the assumptions are internally consistent and are reasonable, based on the actual experience of NHRS. These actuarial assumptions and methods comply with the parameters for disclosure in GASB Statement No. 25.

The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can, and almost certainly will, differ as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates, and amortization periods.

Development of Actuarial Value of Assets

| Year Ended June 30: | 2007 | 2008 | 2009 | 2010 | 2011 |
|---|-----------------|---------------|---------------|---------------|---------------|
| A. Funding Value Beginning of Year | \$4,647,972,589 | | | | |
| B. Market Value End of Year | 5,967,916,108 | | | | |
| C. Market Value Beginning of Year | 5,112,256,446 | | | | |
| D. Non-Investment Net Cash Flow | 25,324,266 | | | | |
| E. Investment Income | | | | | |
| E1. Market Total: B - C - D | 830,335,396 | | | | |
| E2. Amount for Immediate Recognition (8.5%) | 396,153,951 | | | | |
| E3. Amount for Phased-In Recognition: E1-E2 | 434,181,445 | | | | |
| F. Phased-In Recognition of Investment Income | | | | | |
| F1. Current Year: 0.20 x E3 | 86,836,289 | | | | |
| F2. First Prior Year | 116,070,964 | \$ 86,836,289 | | | |
| F3. Second Prior Year | 0 | 116,070,964 | \$ 86,836,289 | | |
| F4. Third Prior Year | 0 | 0 | 116,070,964 | \$ 86,836,289 | |
| F5. Fourth Prior Year | 0 | 0 | | 116,070,964 | \$ 86,836,289 |
| F6. Total Recognized Investment Gain | 202,907,253 | 202,907,253 | 202,907,253 | 202,907,253 | 86,836,289 |
| G. Preliminary Funding Value End of Year: $A + D + E2 + F6$ | 5,272,358,059 | | | | |
| H. Difference between Market & Funding Value: B-G | 695,558,049 | | | | |
| I. Final Funding Value after 20% Corridor | 5,272,358,059 | | | | |
| J. Recognized Rate of Return | 12.85% | | | | |

The Funding Value of Assets recognizes assumed investment income (line E2) fully each year. Differences between actual and assumed investment income (line E3) are phased in over a closed 5 year period. During periods when investment performance exceeds the assumed rate, Funding Value of Assets will tend to be less than market value. During periods when investment performance is less than the assumed rate, Funding Value of Assets will tend to be greater than market value. The Funding Value of Assets is unbiased with respect to Market Value. At any time it may be either greater of less than Market Value. If assumed rates are exactly realized for 4 consecutive years, it will become equal to Market Value. Final Funding Value of Assets may not be less than 80% or more than 120% of Market Value of Assets.

Allocation of Assets

| | Employee | Teachers | Police | Fire | Total |
|---|-----------------|-----------------|-----------------|---------------|-----------------|
| Allocated Fund Assets (Actuarial Value) | \$1,630,323,141 | \$2,031,344,094 | \$1,061,122,271 | \$549,568,553 | \$5,272,358,059 |
| Less Special Account | (126,226,186) | (170,045,079) | (125,415,840) | (81,438,146) | (503,125,251) |
| Less Medical Special Account* | - | - | - | - | - |
| Less 401(h) Account | (27,622,160) | (19,880,115) | (63,280,663) | (46,193,555) | (156,976,493) |
| Net Pension Valuation Assets | \$1,476,474,795 | \$1,841,418,900 | \$ 872,425,768 | \$421,936,852 | \$4,612,256,315 |

^{*} Now included in Special Account.

SECTION B

FUNDING RESULTS

Development of Employer Contribution Rates

| Division: | Em | ployees | Teachers | Police | Fire | Total |
|--|-------|------------|-------------------|------------------|------------------|-------------------|
| Normal Cost | | | | | | |
| Age and Service Retirement | | 7.81% | 7.17% | 13.73% | 18.53% | 8.67% |
| Termination | | 1.24% | 1.12% | 2.98% | 1.01% | 1.36% |
| Death in Service | | 0.19% | 0.13% | 0.19% | 0.21% | 0.17% |
| Disability | | 0.21% | 0.01% | 0.80% | 0.76% | 0.22% |
| Expenses | | 0.35% | 0.35% | 0.35% | 0.35% | 0.35% |
| Total | | 9.80% | 8.78% | 18.05% | 20.86% | 10.77% |
| Member Contributions | | 5.00% | 5.00% | 9.30% | 9.30% | 5.66% |
| Employer Normal Cost | | 4.80% | 3.78% | 8.75% | 11.56% | 5.11% |
| UAAL Payment* | | 4.86% | 6.32% | 10.76% | 13.57% | 6.49% |
| Total Employer Pension Contribution | | 9.66% | 10.10% | 19.51% | 25.13% | 11.60% |
| Total Health Subsidy Contribution | | 3.22% | 3.37% | 6.50% | 8.38% | 3.87% |
| Total Employer Contribution | | 12.88% | 13.47% | 26.01% | 33.51% | 15.47% |
| Fiscal Year 2010 Contributions | | | | | | |
| Percent of Payroll | | 12.88% | 13.47% | 26.01% | 33.51% | 15.47% |
| Estimated Dollars | \$ 13 | 88,504,065 | \$ 141,772,659 | \$ 69,261,759 | \$ 37,232,662 | \$ 386,771,145 |
| Fiscal Year 2011 Contributions | | | | | | |
| Percent of Payroll | | 12.88% | 13.47% | 26.01% | 33.51% | 15.47% |
| Estimated Dollars | \$ 14 | 4,736,747 | \$ 148,152,429 | \$ 72,378,538 | \$ 38,908,132 | \$ 404,175,846 |
| Contribution Rates from Prior Valuation# | | | | | | |
| FY 2008 | | 8.74% | 8.93% | 18.21% | 24.49% | 10.52% |
| FY 2009 | | 8.74% | 8.93% | 18.21% | 24.49% | 10.52% |

^{*} Unfunded Actuarial Accrued Liability, financed over a 30 year period from the contribution effective date -- 7/1/2009.

[#] Computed by prior actuary.

| Actuarial Present Value of | , | Total Present Value (1) | ortion Covered by Future Normal Cost Contributions (2) | Actuarial Accrued Liabilities (1) - (2) |
|--|----|-------------------------|--|--|
| Age and service allowances based on total service likely to be rendered by present active members | \$ | 5,600,546,360 | \$ 1,626,835,951 | \$ 3,973,710,409 |
| Disability benefits likely to be paid to present active members | | 40,233,097 | 41,299,660 | (1,066,563) |
| Death-in-service benefits likely to be paid on behalf of present active members (employer financed portion) | | 53,069,782 | 30,748,130 | 22,321,652 |
| Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active members | | 264,761,124 | 276,809,560 | (12,048,436) |
| Benefits likely to be paid to current inactive and vested deferred members | | 84,577,898 | - | 84,577,898 |
| Benefits to be paid to current retirees, beneficiaries, and future beneficiaries of current retirees | | 3,210,280,062 | - | 3,210,280,062 |
| Total | \$ | 9,253,468,323 | \$ 1,975,693,301 | \$ 7,277,775,022 |
| Actuarial Value of Assets | \$ | 4,612,256,315 | \$ - | \$ 4,612,256,315 |
| Liabilities to be covered by Future Contributions | \$ | 4,641,212,008 | \$ 1,975,693,301 | \$ 2,665,518,707 |

NHRS Total Unfunded Actuarial Accrued Liability Payoff Projection* (\$Millions)

| | Year | | | () | , | | | |
|------|--------|--------------|-------------|----------------|------------------|---------------------|----------------|----------|
| | Ending | Employer (| Contributio | n Rates | _ | UAAL | | |
| | June | Total | Normal | UAAL | Projected | Beginning of | UAAL | End of |
| Year | 30, | Contribution | Cost | Payment | Payroll | Year | Payment | Year |
| | 2008 | 10.52% | 5.11% | 5.41% | \$ 2,294 | \$ 2,666 | \$ 124 | \$ 2,763 |
| | 2009 | 10.52% | 5.11% | 5.41% | 2,397 | 2,763 | 130 | 2,862 |
| 1 | 2010 | 11.60% | 5.11% | 6.49% | 2,505 | 2,862 | 163 | 2,936 |
| 2 | 2011 | 11.60% | 5.11% | 6.49% | 2,618 | 2,936 | 170 | 3,009 |
| 3 | 2012 | 11.60% | 5.11% | 6.49% | 2,736 | 3,009 | 178 | 3,080 |
| 4 | 2013 | 11.60% | 5.11% | 6.49% | 2,859 | 3,080 | 186 | 3,148 |
| 5 | 2014 | 11.60% | 5.11% | 6.49% | 2,988 | 3,148 | 194 | 3,214 |
| 6 | 2015 | 11.60% | 5.11% | 6.49% | 3,122 | 3,214 | 203 | 3,276 |
| 7 | 2016 | 11.60% | 5.11% | 6.49% | 3,262 | 3,276 | 212 | 3,333 |
| 8 | 2017 | 11.60% | 5.11% | 6.49% | 3,409 | 3,333 | 221 | 3,386 |
| 9 | 2018 | 11.60% | 5.11% | 6.49% | 3,563 | 3,386 | 231 | 3,433 |
| 10 | 2019 | 11.60% | 5.11% | 6.49% | 3,723 | 3,433 | 242 | 3,473 |
| 11 | 2020 | 11.60% | 5.11% | 6.49% | 3,891 | 3,473 | 252 | 3,505 |
| 12 | 2021 | 11.60% | 5.11% | 6.49% | 4,066 | 3,505 | 264 | 3,528 |
| 13 | 2022 | 11.60% | 5.11% | 6.49% | 4,249 | 3,528 | 276 | 3,541 |
| 14 | 2023 | 11.60% | 5.11% | 6.49% | 4,440 | 3,541 | 288 | 3,542 |
| 15 | 2024 | 11.60% | 5.11% | 6.49% | 4,640 | 3,542 | 301 | 3,529 |
| 16 | 2025 | 11.60% | 5.11% | 6.49% | 4,848 | 3,529 | 315 | 3,501 |
| 17 | 2026 | 11.60% | 5.11% | 6.49% | 5,067 | 3,501 | 329 | 3,456 |
| 18 | 2027 | 11.60% | 5.11% | 6.49% | 5,295 | 3,456 | 344 | 3,392 |
| 19 | 2028 | 11.60% | 5.11% | 6.49% | 5,533 | 3,392 | 359 | 3,306 |
| 20 | 2029 | 11.60% | 5.11% | 6.49% | 5,782 | 3,306 | 375 | 3,196 |
| 21 | 2030 | 11.60% | 5.11% | 6.49% | 6,042 | 3,196 | 392 | 3,059 |
| 22 | 2031 | 11.60% | 5.11% | 6.49% | 6,314 | 3,059 | 410 | 2,892 |
| 23 | 2032 | 11.60% | 5.11% | 6.49% | 6,598 | 2,892 | 428 | 2,692 |
| 24 | 2033 | 11.60% | 5.11% | 6.49% | 6,895 | 2,692 | 447 | 2,455 |
| 25 | 2034 | 11.60% | 5.11% | 6.49% | 7,205 | 2,455 | 468 | 2,176 |
| 26 | 2035 | 11.60% | 5.11% | 6.49% | 7,529 | 2,176 | 489 | 1,852 |
| 27 | 2036 | 11.60% | 5.11% | 6.49% | 7,868 | 1,852 | 511 | 1,477 |
| 28 | 2037 | 11.60% | 5.11% | 6.49% | 8,222 | 1,477 | 534 | 1,047 |
| 29 | 2038 | 11.60% | 5.11% | 6.49% | 8,592 | 1,047 | 558 | 555 |
| 30 | 2039 | 11.60% | 5.11% | 6.49% | 8,979 | 555 | 583 | - |

^{*} This projection does not reflect the impact of any potential gain sharing when the funded status exceeds 85%.

Actuarial Balance Sheet as of June 30, 2007

Assets and Present Value of Expected Future Contributions

| | | Pension | Health |
|----|---|-----------------|-----------------|
| A. | Present valuation assets | | |
| | 1. Net assets from system financial statements | \$5,500,213,158 | \$ 172,310,744 |
| | 2. Market value adjustment | (887,956,843) | (15,334,251) |
| | 3. Valuation assets | 4,612,256,315 | 156,976,493 |
| В. | Actuarial present value of expected future employer contributions | | |
| | 1. For normal costs | 867,166,213 | 247,763,836 |
| | 2. For unfunded actuarial accrued liability | 2,665,518,707 | 822,243,618 |
| | 3. Total | 3,532,684,920 | 1,070,007,454 |
| C. | Actuarial present value of expected future | | |
| | member contributions | 1,108,527,087 | - |
| | | | |
| D. | Total Present and Expected Future Resources | \$9,253,468,322 | \$1,226,983,947 |

Present Value of Expected Future Benefit Payments

| | Pension | Health |
|---|-----------------|-----------------|
| A. To retirees and beneficiaries | \$3,210,280,062 | \$ 723,988,715 |
| B. To vested terminated members | 70,556,304 | 6,727,187 |
| C. To non-vested terminated members (outstanding refunds) | 14,021,594 | - |
| D. To present active members | | |
| 1. Allocated to service rendered prior to | | |
| valuation date - actuarial accrued liability | 3,982,917,062 | 248,504,209 |
| 2. Allocated to service likely to be rendered | | |
| after valuation date | 1,975,693,300 | 247,763,836 |
| 3. Total | 5,958,610,362 | 496,268,045 |
| | | |
| E. Total Actuarial Present Value of Expected Future Pension | | |
| Payments | \$9,253,468,322 | \$1,226,983,947 |

Experience Gain/(Loss) -- June 30, 2007

| | Pension | Health |
|---|---------------|-------------|
| (1) UAAL* at start of biennium | N/A** | N/A** |
| (2) Normal cost from last valuation for year 1 | 196,303,943 | N/A |
| (3) Actual contributions (employer and employee) for year 1 | 318,642,041 | 61,448,686 |
| (4) Interest accrual: [(1)+1/2 [(2)-(3)]] x .085 | N/A | N/A |
| (5) Expected UAAL end of year 1: (1)+(2)-(3)+(4) | N/A | N/A |
| (6) UAAL* at start of biennium | N/A** | N/A** |
| (7) Normal cost from last valuation for year 2 | 205,137,620 | N/A |
| (8) Actual contributions (employer and employee) for year 2 | 451,008,381 | 58,200,720 |
| (9) Interest accrual: [(6)+1/2 [(7)-(8)]] x .085 | N/A | N/A |
| (10) Expected UAAL end of year 2: (6)+(7)-(8)+(9) | N/A | N/A |
| (11) Change from benefit improvements# | 0 | 0 |
| (12) Change from revised actuarial assumptions## | N/A | N/A |
| (13) Expected UAAL after changes: (10)+(11)+(12) | N/A | N/A |
| (14) Actual UAAL at end of year | 2,665,518,707 | 822,243,618 |
| (15) Gain (loss): (13)-(14) | N/A | N/A |
| (16) Gain (loss) as percent of actuarial accrued liabilities at start of year (N/A) | N/A | N/A |

^{*} Unfunded Actuarial Accrued Liabilities.

^{**} The prior valuation used a funding method that did not directly produce an accrued liability. Therefore, there was no measurement of the UAAL at the beginning of the year.

[#] An ad-hoc COLA of 2.25% was granted, effective July 1, 2007. The increase in accrued liabilities attributable to this COLA was approximately \$66.6 million. An amount equal to the increase in accrued liabilities was transferred from the Special Accounts to the net assets available for pension of approximately \$66.6 million to cover this increase in accrued liabilities.

^{##} Several changes were made since the last valuation as detailed on page 5, including a change in actuary and a change in funding method. We have estimated that the biennial pension experience would have resulted in a gain of approximately \$9 million for NHRS in total resulting from experience losses in the Employee and Fire funds and gains in the Teacher and Police Funds. Our estimate was based on estimated unfunded actuarial accrued liabilities and normal cost computations as of June 30, 2005 made for the Replication Valuation.

Solvency Test

The New Hampshire Retirement System funding objective is to meet long-term benefit promises through contributions that remain approximately level from year-to-year as a percent of member payroll. If the contributions to the System are level in concept and soundly executed, the System will pay all promised benefits when due -- the ultimate test of financial soundness.

A solvency test is one means of checking a system's progress under its funding program. In a solvency test, the plan's present assets (cash and investments) are compared with:

- 1) Active member contributions on deposit;
- 2) The liabilities for future benefits to present retired lives;
- 3) The liabilities for service already rendered by active members.

In a System that has been following the discipline of level percent-of-payroll financing, the liabilities for active member contributions on deposit (liability 1) and the liabilities for future benefits to present retired lives (liability 2) will be fully covered by present assets (except in rare circumstances). In addition, the liabilities for service already rendered by active members (liability 3) will be partially covered by the remainder of present assets. The larger the funded portion of liability 3, the stronger the condition of the System.

Total of all Groups

| | P i | rojected Liabil | _ | | | | |
|--------|---------------|-----------------|------------------------------|-------------------|------------|------------|------------|
| | (1) | (2) | (3) | _ | Perce | ntage of A | ccrued |
| | Aggregate | Current | Active & Inactive | Net Assets | Liabiliti | es Covere | ed By Net |
| Fiscal | Member | Retirees & | Members (Employer | Available | Ass | sets Avail | able |
| Year | Contributions | Beneficiaries | Financed Portion) | For Benefits | <u>(1)</u> | <u>(2)</u> | <u>(3)</u> |
| 2007 | 2,228,853 | 3,210,280 | 1,838,642 | 4,612,256 | 100% | 74% | 0% |

Solvency Test -- Comparative Statement

(\$ in Thousands)

| | | P1 | rojected Liabili | _ | | | | |
|------------------|---------------|---------------|------------------|---------------------------|-------------------|------------|-------------|----------|
| | | (1) | (2) | _ | Percei | ntage of A | crued | |
| | | Aggregate | Current | Active & Inactive | Net Assets | Liabiliti | es Covered | l By Net |
| | Fiscal | Member | Retirees & | Members (Employer | Available | Ass | sets Availa | ble |
| Group | Year | Contributions | Beneficiaries | Financed Portion) | For Benefits | <u>(1)</u> | <u>(2)</u> | (3) |
| | | | | | | | | |
| Employees | 2007 | 797,627 | 997,992 | 535,927 | 1,476,475 | 100% | 68% | 0% |
| | | | | | | | | |
| Teachers | 2007 | 925,813 | 1,200,541 | 803,058 | 1,841,419 | 100% | 76% | 0% |
| | | | | | | | | |
| Police | 2007 | 344,485 | 655,803 | 344,282 | 872,426 | 100% | 81% | 0% |
| | | | | | | | | |
| Fire | 2007 | 160,927 | 355,944 | 155,376 | 421,937 | 100% | 73% | 0% |

Employees

| Actuarial Present Value of | , | Total Present Value (1) | ortion Covered by Future Normal Cost Contributions (2) | Actuarial Accrued Liabilities (1) - (2) |
|--|----|-------------------------------|--|--|
| Age and service allowances based on total service likely to be rendered by present active members | \$ | 1,939,621,998 | \$ 625,531,246 | \$ 1,314,090,752 |
| Disability benefits likely to be paid to present active members | | 11,532,739 | 17,317,160 | (5,784,421) |
| Death-in-service benefits likely to be paid on behalf of present active members (employer financed portion) | | 26,090,378 | 15,586,408 | 10,503,970 |
| Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active members | | 92,922,613 | 117,168,304 | (24,245,691) |
| Benefits likely to be paid to current inactive and vested deferred members | | 38,989,367 | - | 38,989,367 |
| Benefits to be paid to current retirees, beneficiaries, and future beneficiaries of current retirees | | 997,992,290 | - | 997,992,290 |
| Total | \$ | 3,107,149,385 | \$ 775,603,118 | \$ 2,331,546,267 |
| Actuarial Value of Assets | \$ | 1,476,474,795 | \$ | \$ 1,476,474,795 |
| Liabilities to be covered by Future Contributions | \$ | 1,630,674,590 | \$ 775,603,118 | \$ 855,071,472 |

Teachers

| Actuarial Present Value of | ı | Total Present Value (1) | by Future Normal Cost Contributions (2) | Actuarial Accrued Liabilities (1) - (2) |
|--|----|-------------------------------|---|--|
| Age and service allowances based on total service likely to be rendered by present active members | \$ | 2,247,405,267 | \$ 551,985,870 | \$ 1,695,419,397 |
| Disability benefits likely to be paid to present active members | | 889,290 | 871,409 | 17,881 |
| Death-in-service benefits likely to be paid on behalf of present active members (employer financed portion) | | 18,446,195 | 9,499,238 | 8,946,957 |
| Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active members | | 77,851,721 | 92,938,928 | (15,087,207) |
| Benefits likely to be paid to current inactive and vested deferred members | | 39,574,370 | - | 39,574,370 |
| Benefits to be paid to current retirees, beneficiaries, and future beneficiaries of current retirees | | 1,200,541,279 | - | 1,200,541,279 |
| Total | \$ | 3,584,708,122 | \$ 655,295,445 | \$ 2,929,412,677 |
| Actuarial Value of Assets | \$ | 1,841,418,900 | \$ - | \$ 1,841,418,900 |
| Liabilities to be covered by Future Contributions | \$ | 1,743,289,222 | \$ 655,295,445 | \$ 1,087,993,777 |

Police

| Actuarial Present Value of | , | Total Present Value (1) | by Future Normal Cost Contributions (2) | Actuarial Accrued Liabilities (1) - (2) |
|--|----|-------------------------------|---|--|
| Age and service allowances based on total service likely to be rendered by present active members | \$ | 912,721,264 | \$ 260,055,005 | \$ 652,666,259 |
| Disability benefits likely to be paid to present active members | | 19,994,061 | 15,376,743 | 4,617,318 |
| Death-in-service benefits likely to be paid on behalf of present active members (employer financed portion) | | 5,457,594 | 3,545,488 | 1,912,106 |
| Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active members | | 80,507,659 | 56,322,993 | 24,184,666 |
| Benefits likely to be paid to current inactive and vested deferred members | | 5,386,697 | - | 5,386,697 |
| Benefits to be paid to current retirees, beneficiaries, and future beneficiaries of current retirees | | 655,802,848 | - | 655,802,848 |
| Total | \$ | 1,679,870,123 | \$ 335,300,229 | \$ 1,344,569,894 |
| Actuarial Value of Assets | \$ | 872,425,768 | \$ - | \$ 872,425,768 |
| Liabilities to be covered by Future Contributions | \$ | 807,444,355 | \$ 335,300,229 | \$ 472,144,126 |

Fire

| Actuarial Present Value of | Т | Cotal Present Value (1) | ľ | rtion Covered by Future Normal Cost Contributions (2) | Actuarial Accrued Liabilities (1) - (2) |
|--|----|-------------------------|----|---|--|
| Age and service allowances based on total service likely to be rendered by present active members | \$ | 500,797,830 | \$ | 189,263,829 | \$ 311,534,001 |
| Disability benefits likely to be paid to present active members | | 7,817,007 | | 7,734,348 | 82,659 |
| Death-in-service benefits likely to be paid on behalf of present active members (employer financed portion) | | 3,075,615 | | 2,116,996 | 958,619 |
| Separation benefits (refunds of contributions and deferred allowances) likely to be paid to present active members | | 13,479,131 | | 10,379,335 | 3,099,796 |
| Benefits likely to be paid to current inactive and vested deferred members | | 627,464 | | - | 627,464 |
| Benefits to be paid to current retirees, beneficiaries, and future beneficiaries of current retirees | | 355,943,645 | | - | 355,943,645 |
| Total | \$ | 881,740,692 | \$ | 209,494,508 | \$ 672,246,184 |
| Actuarial Value of Assets | \$ | 421,936,852 | \$ | - | \$ 421,936,852 |
| Liabilities to be covered by Future Contributions | \$ | 459,803,840 | \$ | 209,494,508 | \$ 250,309,332 |

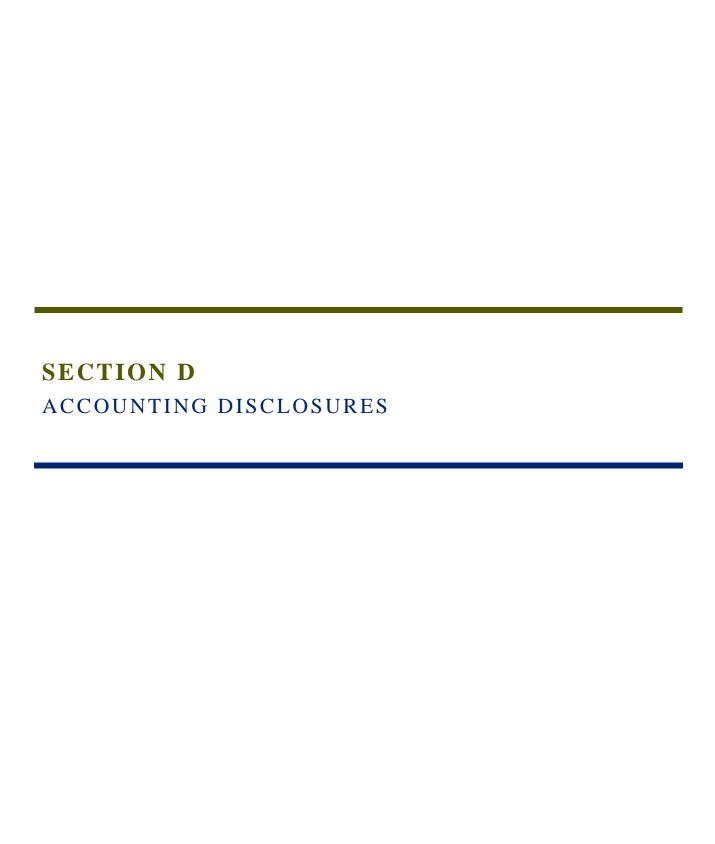
SECTION CFUND ASSETS

Statement of System Assets (Assets at Market or Fair Value)

| | | | June 30 | | | | | | | |
|---|-----|-----------------------------------|---------|---------------|----|-----------------|--|--|--|--|
| | | Item | | 2007 | | 2006 | | | | |
| A | Ass | sets | | | | | | | | |
| | 1. | Cash and short-term investments | \$ | 807,393,749 | \$ | 832,081,938 | | | | |
| | 2. | Receivables | \$ | 118,428,688 | \$ | 161,446,977 | | | | |
| | 3. | Contributions Receivable | | 35,952,687 | | 35,141,274 | | | | |
| | 4. | Accrued Interest and Dividends | | 13,862,772 | | 14,370,798 | | | | |
| | 5. | Other | | 79,407 | | 56,379 | | | | |
| | 6. | Subtotals ($2. + 3. + 4. + 5.$) | \$ | 168,323,554 | \$ | 211,015,428 | | | | |
| | Inv | estments, at fair value | | | | | | | | |
| | 7. | Domestic Investments | \$ | 4,098,499,564 | \$ | 3,507,938,467 | | | | |
| | 8. | Global Investments | | 1,135,674,908 | | 806,016,209 | | | | |
| | 9. | Other | | 688,984,250 | | 825,381,372 | | | | |
| | 10. | Subtotals $(7. + 8. + 9.)$ | \$ | 5,923,158,722 | \$ | 5,139,336,048 | | | | |
| | 11. | Total Assets (1. + 6. + 10.) | \$ | 6,898,876,025 | \$ | 6,182,433,414 | | | | |
| В | Lia | bilities | | | | | | | | |
| | 1. | Payables | \$ | (930,959,917) | \$ | (1,070,176,968) | | | | |
| | | | | | | | | | | |
| C | Net | System Assets (A11. + B1.) | \$ | 5,967,916,108 | \$ | 5,112,256,446 | | | | |

Reconciliation of System Assets

| Item | Employees | Teachers | Police | Fire | Total |
|--|------------------|------------------|-----------------|-----------------|------------------|
| A. Market Value of Assets at Beginning of Year | \$1,563,138,093 | \$2,005,034,080 | \$1,028,266,652 | \$ 515,817,621 | \$5,112,256,446 |
| B. Revenues and Expenditures | | | | | |
| 1. Contributions | | | | | |
| a. Employee Contributions | \$ 102,562,064 | \$ 101,569,795 | \$ 52,020,999 | \$ 16,216,686 | \$ 272,369,544 |
| b. Employer Contributions | 66,533,792 | 53,626,551 | 36,059,770 | 22,418,722 | 178,638,835 |
| c. Total | \$ 169,095,856 | \$ 155,196,346 | \$ 88,080,769 | \$ 38,635,408 | \$ 451,008,379 |
| 2. Investment Return | | | | | |
| a. Interest, Dividends, and Other Income | \$ 43,758,840 | \$ 55,290,721 | \$ 28,856,965 | \$ 14,336,590 | \$ 142,243,116 |
| b. Net realized and Unrealized Gains/(Losses) | 222,103,922 | 280,474,443 | 146,596,990 | 72,797,043 | 721,972,398 |
| c. Investment Expenses | (7,882,000) | (9,949,386) | (5,198,251) | (2,579,973) | (25,609,610) |
| d. Net Investment Income | \$ 257,980,762 | \$ 325,815,778 | \$ 170,255,704 | \$ 84,553,660 | \$ 838,605,904 |
| 3. Benefits and Refunds | | | | | |
| a. Refunds | \$ (16,900,871) | \$ (12,463,760) | \$ (4,027,442) | \$ (688,151) | \$ (34,080,224) |
| b. Regular Monthly Benefits | (112,307,703) | (132,536,181) | (62,845,017) | (34,800,310) | (342,489,211) |
| c. Partial Lump-Sum Benefits Paid | (1,408,711) | (498,575) | (408,386) | (46,400) | (2,362,072) |
| d. Medical Premium Subsidy Payments | (15,821,181) | (17,259,612) | (8,673,746) | (4,998,067) | (46,752,606) |
| e. Total | \$ (146,438,466) | \$ (162,758,128) | \$ (75,954,591) | \$ (40,532,928) | \$ (425,684,113) |
| 4. Administrative and Miscellaneous Expenses | \$ (2,546,056) | \$ (3,212,856) | \$ (1,678,649) | \$ (832,947) | \$ (8,270,508) |
| 5. Transfers | \$ - | \$ - | \$ - | \$ - | \$ - |
| C. Market Value of Assets at End of Year | \$1,841,230,189 | \$2,320,075,220 | \$1,208,969,885 | \$ 597,640,814 | \$5,967,916,108 |



Schedule of Funding Progress

| | | Actuarial | | | | UAAL as a |
|-----------|-----------|------------------|----------------|---------------|---------|---------------|
| | Actuarial | Accrued | Unfunded | | | Percent of |
| Actuarial | Value | Liability (AAL) | \mathbf{AAL} | Funded | Covered | Covered |
| Valuation | of Assets | Entry Age | (UAAL) | Ratio | Payroll | Payroll |
| Date | (a) | (b) | (b)-(a) | (a)/(b) | (c) | [(b)-(a)]/(c) |

June 30, 2007 \$4,612,256,315 \$7,277,775,022 \$2,665,518,707 63.4% \$2,195,339,382 121.4 %

Schedule of Employer Contributions

GASB No. 25 Annual Required

| | Contribution (ARC) | | | | Employer C | | |
|-----------------------------------|------------------------------|-----------|---------------------|-------------------------------|--|---|-----|
| Fiscal Year Ending June 30: | nding June Payroll Projected | | ected ARC housands) | Actual Payroll (\$ Thousands) | Actual Contribution (\$ Thousands) | % of GASB ARC Contributed [(5)/(3)] | |
| (1) | | (2) | ' | (3) | (4) | (5) | (6) |
| 2008 | \$ | 2,294,130 | \$ | 241,456 | | | |
| 2009 | | 2,397,365 | | 252,321 | | | |
| 2010 | | 2,505,247 | | 290,609 | | | |
| 2011 | | 2,617,983 | | 303,686 | | | |

^{*} ARC Amounts for 2008 through 2011 are estimated based on the contribution rate in effect in the year indicated and the June 30, 2007 valuation payroll projected at the assumed wage inflation rate of 4.50% per year.

Notes to Required Supplementary Information (As Required by GASB Statement No. 25)

The information presented in the required supplementary schedules was determined as part of the actuarial valuation at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation Date June 30, 2007

Actuarial Cost Method Entry Age Normal

Amortization Method Level Percentage of Payroll, Closed

Equivalent Single Amortization Period 30 Years

Valuation Asset Method 5-Year Smoothed Market

Actuarial Assumptions:

Investment Rate of Return * 8.50%

Projected Salary Increase * 4.50% to 16.25%

* Includes Price Inflation at 3.50%

Rate of Payroll Growth 4.50%

Cost-of-Living Adjustments None

Post-Retirement Health Care GASB Statement No. 43 Reporting

Determination of the Contributions Expressed as

Annual Required Contribution for Percents of Payroll

Eigen Venus 2010 and 2011

Figure 1 Venus 2010 and 2011

| Annual Kequil eu Conti ibution foi | 1 ercents of 1 ayron | | | | | | | | |
|---|----------------------|------------|------------|------------|------------|--|--|--|--|
| Fiscal Years 2010 and 2011 | Employees | Teachers | Police | Fire | Total | | | | |
| Normal Cost | | | | | | | | | |
| Age and Service Retirement | 0.00% | 0.00% | 8.11% | 11.41% | 1.37% | | | | |
| Termination | 0.00% | 0.00% | 0.45% | 0.23% | 0.06% | | | | |
| Death-in-Service | 0.00% | 0.00% | 0.17% | 0.17% | 0.03% | | | | |
| Disability | 0.00% | 0.00% | 0.49% | 0.53% | 0.08% | | | | |
| Total Normal Cost | 0.00% | 0.00% | 9.22% | 12.34% | 1.53% | | | | |
| Amortization of Unfunded Actuarial | | | | | | | | | |
| Accrued Liabilities (Amortized over 30 years) | 1.15% | 1.93% | 6.04% | 5.16% | 2.18% | | | | |
| Annual Required Contribution (ARC) | 1.15% | 1.93% | 15.26% | 17.50% | 3.71% | | | | |
| Fiscal Year 2010 Contributions | | | | | | | | | |
| Percent of Payroll | 1.15% | 1.93% | 15.26% | 17.50% | 3.71% | | | | |
| Estimated Dollars | 12,366,434 | 20,313,380 | 40,635,695 | 19,444,094 | 92,759,603 | | | | |
| Fiscal Year 2011 Contributions | | | | | | | | | |
| Percent of Payroll | 1.15% | 1.93% | 15.26% | 17.50% | 3.71% | | | | |
| Estimated Dollars | 12,922,924 | 21,227,482 | 42,464,301 | 20,319,078 | 96,933,785 | | | | |

Accrued Health Liabilities, \$979,220,111 were more than applicable assets of \$156,976,493.

The calculations above show the employer's annual required contribution (ARC) for the years ended June 30, 2010 and June 30, 2011.

Determination of Unfunded Actuarial Accrued Liability (Medical) as of June 30, 2007

| | Employees | | Teachers | eachers Police | | | Total | |
|---|------------------|-------------|----------|----------------|----------------|---------------|-------|---------------|
| A. Present Value of Future Medical Benefits | | | | | | | | |
| 1. Retirees and Beneficiaries | \$ | 215,738,942 | \$ | 263,338,362 | \$ 154,822,839 | \$ 90,088,572 | \$ | 723,988,715 |
| 2. Vested Terminated Members | | 1,700,798 | | 5,026,389 | - | - | | 6,727,187 |
| 3. Active Members | | 16,989,672 | | 94,728,108 | 262,621,611 | 121,928,654 | | 496,268,045 |
| Total Present Value of Future Medical Benefits | | 234,429,412 | | 363,092,859 | 417,444,450 | 212,017,226 | - | 1,226,983,947 |
| B. Present Value of Future Employer Normal Costs | | 5,619,914 | | 15,040,950 | 135,158,600 | 91,944,372 | | 247,763,836 |
| C. Present Value of Future Contributions from Current Active Members | | - | | - | - | - | | - |
| D. Actuarial Medical Accrued Liability (ABC.) | | 228,809,498 | | 348,051,909 | 282,285,850 | 120,072,854 | | 979,220,111 |
| E. 401(h) subtrust Actuarial Value of Assets | | 27,622,160 | | 19,880,115 | 63,280,663 | 46,193,555 | | 156,976,493 |
| F. Unfunded Actuarial Accrued Liability (DE.) | \$ | 201,187,338 | \$ | 328,171,794 | \$ 219,005,187 | \$ 73,879,299 | \$ | 822,243,618 |

The Unfunded Actuarial Accrued Liability (UAAL) is not booked as an expense all in one year under GASB Statement No. 43 and does not appear in the System's Statement of Net Assets. Nevertheless, it is reported in the Notes to the Financial Statements and in the Required Supplementary Information. These are information sections within the System's financial statements.

SECTION E PARTICIPANT DATA

Retirees and Beneficiaries Reconciliation (In Thousands)

| | | | | | | | | | | Average Annua | l |
|---------------|-------|-------|----------|-------|------|-----------|---------|-----|-----------|---------------|------------|
| | Add | ed to | Rolls | Remov | ed f | rom Rolls | Rolls 1 | End | l of Year | % Increase | Average |
| Fiscal | | A | Annual | | A | Annual | | | Annual | in Annual | Annual |
| Year | No.** | Alle | owances* | No. | Al | lowances | No. | Al | lowances | Allowances | Allowances |
| 2005 | | | | | | | 18,950 | \$ | 296,354 | | \$ 15,639 |
| 2007 | 3,211 | \$ | 68,586 | 913 | \$ | 12,081 | 21,248 | \$ | 352,859 | 9.12% | \$ 16,607 |

^{*} Includes additional COLA allowances. The benefit amounts shown are the monthly benefits as of the valuation date annualized and are not the actual benefits paid during the fiscal year.

^{**} Includes beneficiaries in receipt but excludes deferred vested terminations.

Retirees and Beneficiaries by Types of Benefits Being Paid*

June 30, 2007 (In Thousands)

| Fiscal | | | | Police | Fire- | |
|---------------|--|------------------|-----------------|----------|----------|-----------|
| Year | Type of Benefit | Employees | Teachers | Officers | fighters | Total |
| 2007 | Service & Early Retirements | \$97,652 | \$124,382 | \$54,833 | \$29,778 | \$306,645 |
| | Ordinary Disability Retirements | 3,374 | 2,486 | 840 | 457 | 7,157 |
| | Accidental Disability Retirements | 6,284 | 332 | 7,678 | 2,814 | 17,108 |
| | Ordinary Death in Active Service | 129 | 288 | 36 | 73 | 526 |
| | Accidental Death in Active Service | 199 | 63 | 334 | 314 | 910 |
| | Beneficiaries** | 8,791 | 4,652 | 3,880 | 3,190 | 20,513 |
| | Outstanding Refunds | 6,550 | 5,761 | 1,492 | 219 | 14,022 |
| | Total | \$122,979 | \$137,964 | \$69,093 | \$36,845 | \$366,881 |
| | Postretirement Medical Premium Subsidies | 17,368 | 18,658 | 9,610 | 5,478 | 51,114 |

^{*} Includes COLA allowances.

^{**} Beneficiaries of deceased members who retired on a service or disability allowance.

Retirees and Beneficiaries Age Distribution Employees

SERVICE RETIREMENTS

| Age | | Males | | Females | | | | | |
|------------|--------|---------------|-----------|---------|---------------|----------|--|--|--|
| Group | Number | Amount | Average | Number | Amount | Average | | | |
| 40 - 44 | | \$ | \$ | 3 | \$ 15,893 | \$ 5,298 | | | |
| 45 - 49 | | | | 10 | 57,374 | 5,737 | | | |
| 50 - 54 | 58 | 915,640 | 15,787 | 52 | 602,530 | 11,587 | | | |
| 55 - 59 | 270 | 4,770,994 | 17,670 | 311 | 3,915,528 | 12,590 | | | |
| 60 - 64 | 775 | 13,112,941 | 16,920 | 957 | 10,719,806 | 11,201 | | | |
| 65 - 69 | 866 | 11,414,581 | 13,181 | 1,104 | 9,668,137 | 8,757 | | | |
| 70 - 74 | 828 | 10,202,945 | 12,322 | 880 | 7,033,192 | 7,992 | | | |
| 75 - 79 | 686 | 7,907,654 | 11,527 | 670 | 4,923,234 | 7,348 | | | |
| 80 - 84 | 425 | 4,399,979 | 10,353 | 491 | 3,523,310 | 7,176 | | | |
| 85 - 89 | 204 | 1,853,724 | 9,087 | 255 | 1,466,312 | 5,750 | | | |
| 90 - 94 | 51 | 411,581 | 8,070 | 81 | 474,190 | 5,854 | | | |
| 95 - 99 | 15 | 133,097 | 8,873 | 19 | 117,728 | 6,196 | | | |
| 100 & Over | | | | 1 | 12,653 | 12,653 | | | |
| TOTAL | 4,178 | \$ 55,123,136 | \$ 13,194 | 4,834 | \$ 42,529,887 | \$ 8,798 | | | |

DISABILITY RETIREMENTS

| Age | | Males | | Females | | | | |
|------------|--------|--------------|-----------|---------|--------------|-----------|--|--|
| Group | Number | Amount | Average | Number | Amount | Average | | |
| 25 - 29 | 9 | \$ | \$ | 1 | \$ 12,890 | \$ 12,890 | | |
| 30 - 34 | 1 | 12,674 | 12,674 | 3 | 33,061 | 11,020 | | |
| 35 - 39 | 4 | 38,192 | 9,548 | 7 | 79,053 | 11,293 | | |
| 40 - 44 | 15 | 198,669 | 13,245 | 24 | 303,414 | 12,642 | | |
| 45 - 49 | 28 | 381,069 | 13,610 | 37 | 386,016 | 10,433 | | |
| 50 - 54 | 63 | 836,426 | 13,277 | 69 | 803,278 | 11,642 | | |
| 55 - 59 | 86 | 1,045,032 | 12,152 | 102 | 1,101,543 | 10,799 | | |
| 60 - 64 | 77 | 1,050,064 | 13,637 | 82 | 937,825 | 11,437 | | |
| 65 - 69 | 58 | 644,331 | 11,109 | 53 | 624,891 | 11,790 | | |
| 70 - 74 | 27 | 314,296 | 11,641 | 22 | 285,287 | 12,968 | | |
| 75 - 79 | 16 | 194,753 | 12,172 | 10 | 99,692 | 9,969 | | |
| 80 - 84 | 5 | 113,469 | 22,694 | 7 | 70,778 | 10,111 | | |
| 85 - 89 | 2 | 20,873 | 10,437 | 4 | 51,285 | 12,821 | | |
| 90 - 94 | | | | | | | | |
| 95 - 99 | | | | 1 | 9,513 | 9,513 | | |
| 100 & Over | | | | 1 | 9,374 | 9,374 | | |
| TOTAL | 382 5 | \$ 4,849,848 | \$ 12,696 | 423 | \$ 4,807,900 | \$ 11,366 | | |

Retirees and Beneficiaries Age Distribution Employees

BENEFICIARIES OF DECEASED MEMBERS

| Age | | Males | | | Females | |
|---------------------|--------|---------|----------|--------|----------------|----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| Under 20 20 - 24 | \$ | | \$ | 1 | \$ 4,844 | \$ 4,844 |
| 25 - 29 | 4 | 11,549 | 2,887 | | | |
| 30 - 34 | 1 | 12,920 | 12,920 | 3 | 17,602 | 5,867 |
| 35 - 39 | 3 | 7,268 | 2,423 | 2 | 6,962 | 3,481 |
| 40 - 44 | 4 | 22,305 | 5,576 | 11 | 85,313 | 7,756 |
| 45 - 49 | 7 | 12,897 | 1,842 | 17 | 125,153 | 7,362 |
| 50 - 54 | 12 | 61,144 | 5,095 | 23 | 214,810 | 9,340 |
| 55 - 59 | 14 | 84,444 | 6,032 | 62 | 618,904 | 9,982 |
| 60 - 64 | 6 | 43,608 | 7,268 | 57 | 650,801 | 11,418 |
| 65 - 69 | 16 | 86,521 | 5,408 | 85 | 914,139 | 10,755 |
| 70 - 74 | 14 | 127,689 | 9,121 | 159 | 1,607,625 | 10,111 |
| 75 - 79 | 16 | 125,548 | 7,847 | 177 | 1,824,235 | 10,306 |
| 80 - 84 | 11 | 63,699 | 5,791 | 171 | 1,284,921 | 7,514 |
| 85 - 89 | 5 | 20,017 | 4,003 | 106 | 695,833 | 6,564 |
| 90 - 94 | 2 | 3,948 | 1,974 | 42 | 300,033 | 7,144 |
| 95 - 99 | | | | 9 | 71,445 | 7,938 |
| 100 & Over | | | | 2 | 12,120 | 6,060 |
| TOTAL | 115 \$ | 683,557 | \$ 5,944 | 927 | \$ 8,434,740 | \$ 9,099 |

Retirees and Beneficiaries Age Distribution Teachers

SERVICE RETIREMENTS

| Age | | Males | | | Females | |
|------------|--------|---------------|---------------------------------------|--------|----------------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| | | | _ | | | _ |
| 40 - 44 | | | | | | |
| 45 - 49 | 2 | \$ 15,603 | \$ 7,802 | 1 | \$ 8,046 | \$ 8,046 |
| 50 - 54 | 5 | 80,790 | 16,158 | 47 | 450,698 | 9,589 |
| 55 - 59 | 239 | 5,215,982 | 21,824 | 519 | 9,810,891 | 18,903 |
| 60 - 64 | 628 | 15,400,507 | 24,523 | 1,247 | 24,371,507 | 19,544 |
| 65 - 69 | 444 | 10,459,326 | 23,557 | 900 | 16,235,273 | 18,039 |
| 70 - 74 | 338 | 8,034,164 | 23,770 | 620 | 11,341,809 | 18,293 |
| | | , , | · · · · · · · · · · · · · · · · · · · | | | |
| 75 - 79 | 205 | 4,664,021 | 22,751 | 389 | 6,596,416 | 16,957 |
| 80 - 84 | 95 | 1,747,559 | 18,395 | 277 | 4,310,376 | 15,561 |
| 85 - 89 | 47 | 720,816 | 15,337 | 231 | 2,946,479 | 12,755 |
| 90 - 94 | 17 | 192,051 | 11,297 | 118 | 1,107,686 | 9,387 |
| 95 - 99 | 2 | 24,840 | 12,420 | 59 | 561,361 | 9,515 |
| 100 & Over | | | , | 11 | 84,783 | 7,708 |
| TOTAL | 2,022 | \$ 46,555,659 | \$ 23,025 | 4,419 | \$ 77,825,325 | \$ 17,612 |

DISABILITY RETIREMENTS

| Age | | Males | | | Females | |
|------------|--------|---------|-----------|--------|----------------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| 40 44 | Φ. | | ф. | 2 0 | 20.244 | |
| 40 - 44 | \$ | | \$ | 3 \$ | 29,341 | ' |
| 45 - 49 | | | | 2 | 28,319 | 14,160 |
| 50 - 54 | 3 | 45,522 | 15,174 | 14 | 214,968 | 15,355 |
| 55 - 59 | 9 | 144,247 | 16,027 | 28 | 454,261 | 16,224 |
| 60 - 64 | 7 | 153,257 | 21,894 | 25 | 386,178 | 15,447 |
| 65 - 69 | 12 | 238,045 | 19,837 | 21 | 345,084 | 16,433 |
| 70 - 74 | 8 | 160,817 | 20,102 | 7 | 92,000 | 13,143 |
| 75 - 79 | 8 | 96,075 | 12,009 | 12 | 154,071 | 12,839 |
| 80 - 84 | 4 | 54,735 | 13,684 | 12 | 119,969 | 9,997 |
| 85 - 89 | | , | , | 6 | 67,903 | 11,317 |
| 90 - 94 | | | | 2 | 22,845 | 11,423 |
| 95 - 99 | | | | 1 | 10,252 | 10,252 |
| 100 & Over | | | | | | |
| TOTAL | 51 \$ | 892,698 | \$ 17,504 | 133 \$ | 1,925,191 | \$ 14,475 |

Retirees and Beneficiaries Age Distribution Teachers

BENEFICIARIES OF DECEASED MEMBERS

| Age | | Males | | | Females | |
|------------|--------|-----------|-----------|--------|-----------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| 20 - 24 | 1 \$ | 4,534 | \$ 4,534 | 1 \$ | 12,607 | \$ 12,607 |
| 25 - 29 | 1 | 3,105 | 3,105 | 1 | 4,534 | 4,534 |
| 30 - 34 | 2 | 19,261 | 9,631 | 2 | 6,121 | 3,061 |
| 35 - 39 | 1 | 7,267 | 7,267 | | | |
| 40 - 44 | 3 | 19,905 | 6,635 | 1 | 7,267 | 7,267 |
| 45 - 49 | 5 | 40,132 | 8,026 | 3 | 54,140 | 18,047 |
| 50 - 54 | 3 | 51,279 | 17,093 | 6 | 87,336 | 14,556 |
| 55 - 59 | 7 | 57,126 | 8,161 | 28 | 488,726 | 17,455 |
| 60 - 64 | 8 | 109,851 | 13,731 | 24 | 507,540 | 21,148 |
| 65 - 69 | 10 | 129,697 | 12,970 | 35 | 633,756 | 18,107 |
| 70 - 74 | 13 | 145,071 | 11,159 | 37 | 815,426 | 22,039 |
| 75 - 79 | 10 | 189,069 | 18,907 | 34 | 795,884 | 23,408 |
| 80 - 84 | 11 | 172,778 | 15,707 | 21 | 266,969 | 12,713 |
| 85 - 89 | 2 | 21,358 | 10,679 | 23 | 240,302 | 10,448 |
| 90 - 94 | 3 | 36,896 | 12,299 | 6 | 66,205 | 11,034 |
| 95 - 99 | | | | 1 | 9,737 | 9,737 |
| 100 & Over | | | | | | |
| TOTAL | 80 \$ | 1,007,329 | \$ 12,592 | 223 \$ | 3,996,550 | \$ 17,922 |

Retirees and Beneficiaries Age Distribution Police

SERVICE RETIREMENTS

| Age | | Males | | | Females | |
|------------|--------|---------------|-----------|--------|----------------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| 40 - 44 | | \$ | \$ | 5 \$ | 18,776 | \$ 3,755 |
| 45 - 49 | 194 | 7,921,601 | 40,833 | 29 | 644,837 | 22,236 |
| 50 - 54 | 272 | 11,095,249 | 40,791 | 45 | 918,224 | 20,405 |
| 55 - 59 | 278 | 10,625,716 | 38,222 | 39 | 784,473 | 20,115 |
| 60 - 64 | 279 | 9,236,303 | 33,105 | 41 | 593,910 | 14,486 |
| 65 - 69 | 194 | 5,505,275 | 28,378 | 28 | 402,548 | 14,377 |
| 70 - 74 | 128 | 3,104,596 | 24,255 | 23 | 348,185 | 15,138 |
| 75 - 79 | 90 | 2,139,811 | 23,776 | 8 | 102,619 | 12,827 |
| 80 - 84 | 25 | 675,438 | 27,018 | 5 | 88,932 | 17,786 |
| 85 - 89 | 21 | 489,953 | 23,331 | 4 | 35,676 | 8,919 |
| 90 - 94 | 5 | 72,898 | 14,580 | 1 | 11,855 | 11,855 |
| 95 - 99 | 1 | 17,049 | 17,049 | | | |
| 100 & Over | | • | · | | | |
| TOTAL | 1,487 | \$ 50,883,889 | \$ 34,219 | 228 \$ | 3,950,035 | \$ 17,325 |

DISABILITY RETIREMENTS

| Age | | Males | | | Females | |
|------------|-----------|-----------|-----------|--------|----------------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| 30 - 34 | 2 \$ 8 | - , | \$ 22,588 | 1 | \$ 28,848 | \$ 28,848 |
| 35 - 39 | 8 | 320,147 | 40,018 | 1 | 6,907 | 6,907 |
| 40 - 44 | 21 | 626,847 | 29,850 | 1 | 33,447 | 33,447 |
| 45 - 49 | 29 | 884,143 | 30,488 | 4 | 128,685 | 32,171 |
| 50 - 54 | 41 | 1,319,550 | 32,184 | 5 | 136,895 | 27,379 |
| 55 - 59 | 54 | 1,594,206 | 29,522 | 12 | 317,634 | 26,470 |
| 60 - 64 | 52 | 1,434,213 | 27,581 | 7 | 149,014 | 21,288 |
| 65 - 69 | 27 | 631,073 | 23,373 | 1 | 12,597 | 12,597 |
| 70 - 74 | 19 | 450,552 | 23,713 | 2 | 32,852 | 16,426 |
| 75 - 79 | 12 | 249,824 | 20,819 | | | |
| 80 - 84 | 4 | 54,415 | 13,604 | | | |
| 85 - 89 | 3 | 49,003 | 16,334 | | | |
| 90 - 94 | | | | | | |
| 95 - 99 | 1 | 11,595 | 11,595 | | | |
| 100 & Over | | | | | | |
| TOTAL | 273 \$ | 7,670,743 | \$ 28,098 | 34 | \$ 846,879 | \$ 24,908 |

Retirees and Beneficiaries Age Distribution Police

BENEFICIARIES OF DECEASED MEMBERS

| Age | | Males | | | Females | |
|------------|--------|-----------|-----------|--------|----------------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| Under 20 | 2 3 | \$ 20,696 | \$ 10,348 | 1 \$ | 31,491 | \$ 31,491 |
| 20 - 24 | | | | | | |
| 25 - 29 | | | | | | |
| 30 - 34 | | | | | | |
| 35 - 39 | | | | 2 | 46,149 | 23,07 |
| 40 - 44 | 1 | 35,775 | 35,775 | 1 | 15,234 | 15,23 |
| 45 - 49 | 1 | 11,754 | 11,754 | 2 | 69,692 | 34,84 |
| 50 - 54 | 2 | 73,066 | 36,533 | 15 | 371,275 | 24,75 |
| 55 - 59 | 2 | 33,189 | 16,595 | 20 | 427,834 | 21,39 |
| 60 - 64 | | | | 27 | 608,407 | 22,53 |
| 65 - 69 | 2 | 4,536 | 2,268 | 30 | 404,011 | 13,46 |
| 70 - 74 | 4 | 45,434 | 11,359 | 38 | 558,878 | 14,70 |
| 75 - 79 | 3 | 37,042 | 12,347 | 37 | 529,103 | 14,30 |
| 80 - 84 | 4 | 31,555 | 7,889 | 44 | 524,257 | 11,91 |
| 85 - 89 | | | | 22 | 267,759 | 12,17 |
| 90 - 94 | 1 | 11,952 | 11,952 | 9 | 84,573 | 9,39 |
| 95 - 99 | | , | • | 1 | 5,927 | 5,92 |
| 100 & Over | | | | | , | |
| TOTAL | 22 5 | 304,999 | \$ 13,864 | 249 \$ | 3,944,590 | \$ 15,842 |

Retirees and Beneficiaries Age Distribution Fire

SERVICE RETIREMENTS

| Age | | Males | | | Females | |
|------------|--------|---------------|-----------|--------|---------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| 40 - 44 | | \$ | \$ | 1 \$ | 4,235 | \$ 4,235 |
| 45 - 49 | 55 | 2,416,706 | 43,940 | 7 | 108,814 | 15,545 |
| 50 - 54 | 165 | 6,986,934 | 42,345 | 14 | 164,243 | 11,732 |
| 55 - 59 | 169 | 6,935,101 | 41,036 | 9 | 110,463 | 12,274 |
| 60 - 64 | 145 | 5,268,108 | 36,332 | 10 | 169,989 | 16,999 |
| 65 - 69 | 91 | 3,098,127 | 34,045 | 3 | 41,265 | 13,755 |
| 70 - 74 | 63 | 1,784,629 | 28,327 | 1 | 4,629 | 4,629 |
| 75 - 79 | 49 | 1,342,806 | 27,404 | 1 | 24,720 | 24,720 |
| 80 - 84 | 40 | 986,339 | 24,658 | | | |
| 85 - 89 | 11 | 212,502 | 19,318 | | | |
| 90 - 94 | 6 | 117,934 | 19,656 | | | |
| 95 - 99 | | | | | | |
| 100 & Over | | | | | | |
| TOTAL | 794 | \$ 29,149,186 | \$ 36,712 | 46 \$ | 628,358 | \$ 13,660 |

DISABILITY RETIREMENTS

| Age | | Males | | | Females | |
|------------|--------|-----------|----------|--------|-----------|---------|
| Group | Number | Amount | Average | Number | Amount | Average |
| 30 - 34 | 1 \$ | 27,981 | 3 27,981 | \$ | \$ | |
| 35 - 39 | 1 | 26,925 | 26,925 | | | |
| 40 - 44 | 6 | 197,650 | 32,942 | | | |
| 45 - 49 | 8 | 269,902 | 33,738 | 1 | 39,549 | 39,549 |
| 50 - 54 | 16 | 471,537 | 29,471 | 1 | 25,298 | 25,298 |
| 55 - 59 | 18 | 475,369 | 26,409 | | | |
| 60 - 64 | 17 | 414,496 | 24,382 | | | |
| 65 - 69 | 23 | 564,698 | 24,552 | | | |
| 70 - 74 | 15 | 399,277 | 26,618 | | | |
| 75 - 79 | 7 | 169,151 | 24,164 | | | |
| 80 - 84 | 4 | 99,579 | 24,895 | | | |
| 85 - 89 | 5 | 74,098 | 14,820 | | | |
| 90 - 94 | 1 | 16,132 | 16,132 | | | |
| 95 - 99 | | , | ŕ | | | |
| 100 & Over | | | | | | |
| TOTAL | 122 \$ | 3,206,795 | 5 26,285 | 2 \$ | 64,847 \$ | 32,424 |

Retirees and Beneficiaries Age Distribution Fire

BENEFICIARIES OF DECEASED MEMBERS

| Age | | Males | | | Females | |
|------------|--------|---------|-----------|--------|----------------|-----------|
| Group | Number | Amount | Average | Number | Amount | Average |
| 35 - 39 | 2 \$ | 25,322 | \$ 12,661 | 1 | \$ 43,406 | \$ 43,406 |
| 40 - 44 | | | | 2 | 38,075 | 19,038 |
| 45 - 49 | | | | 1 | 19,910 | 19,910 |
| 50 - 54 | | | | 14 | 264,273 | 18,877 |
| 55 - 59 | | | | 7 | 110,168 | 15,738 |
| 60 - 64 | | | | 17 | 464,003 | 27,294 |
| 65 - 69 | | | | 17 | 273,656 | 16,097 |
| 70 - 74 | 1 | 15,161 | 15,161 | 28 | 525,558 | 18,770 |
| 75 - 79 | | | | 33 | 602,190 | 18,248 |
| 80 - 84 | 3 | 56,255 | 18,752 | 38 | 589,858 | 15,523 |
| 85 - 89 | 1 | 14,446 | 14,446 | 28 | 430,118 | 15,361 |
| 90 - 94 | 1 | 3,916 | 3,916 | 7 | 67,816 | 9,688 |
| 95 - 99 | 1 | 6,493 | 6,493 | 2 | 25,868 | 12,934 |
| 100 & Over | | | | | | |
| TOTAL | 9 \$ | 121,593 | \$ 13,510 | 195 | \$ 3,454,899 | \$ 17,717 |

Active Members by Valuation Division

| Valuation | Active | Valuation | | Average | |
|-------------|---------|-----------------|------|---------|----------|
| Group | Members | Payroll | Age | Service | Pay |
| Employees: | | | | | |
| Male | 10,245 | \$420,382,104 | 47.4 | 10.2 | \$41,033 |
| Female | 16,229 | \$521,936,540 | 46.9 | 8.7 | \$32,161 |
| Total | 26,474 | \$942,318,644 | 47.1 | 9.3 | \$35,594 |
| Teachers: | | | | | |
| Male | 4,350 | \$232,246,139 | 45.8 | 13.5 | \$53,390 |
| Female | 14,127 | \$690,061,953 | 45.6 | 12.3 | \$48,847 |
| Total | 18,477 | \$922,308,092 | 45.6 | 12.6 | \$49,917 |
| Police: | | | | | |
| Male | 3,732 | \$208,675,674 | 38.5 | 10.4 | \$55,915 |
| Female | 531 | \$24,672,438 | 38.7 | 8.3 | \$46,464 |
| Total | 4,263 | \$233,348,112 | 38.5 | 10.1 | \$54,738 |
| Fire: | | | | | |
| Male | 1,545 | \$95,026,229 | 39.7 | 11.9 | \$61,506 |
| Female | 43 | \$2,338,305 | 38.1 | 8.9 | \$54,379 |
| Total | 1,588 | \$97,364,534 | 39.7 | 11.8 | \$61,313 |
| Total: | | | | | |
| Male | 19,872 | \$956,330,146 | 44.8 | 11.1 | \$48,125 |
| Female | 30,930 | \$1,239,009,236 | 46.1 | 10.3 | \$40,058 |
| Grand Total | 50,802 | \$2,195,339,382 | 45.6 | 10.6 | \$43,214 |

| Valuation | Active | Valuation | |
|------------------------|---------|------------------|--|
| Group | Members | Payroll | |
| Employees: | | | |
| State | 11,076 | \$ 435,007,492 | |
| Political Subdivisions | 15,398 | 507,311,152 | |
| Subtotal | 26,474 | 942,318,644 | |
| Teachers: | 18,477 | 922,308,092 | |
| Police: | | | |
| State | 1,257 | 65,012,472 | |
| Political Subdivisions | 3,006 | 168,335,640 | |
| Subtotal | 4,263 | 233,348,112 | |
| Fire: | | | |
| State | 65 | 3,009,307 | |
| Political Subdivisions | 1,523 | 94,355,227 | |
| Subtotal | 1,588 | 97,364,534 | |
| Total | 50,802 | \$ 2,195,339,382 | |

Employees June 30, 2007

| | | | | | | | | | Totals | | |
|----------|--------|-------|-----------|-----------|----------|--------|---------|--------|---------------|--|--|
| Attained | | Years | s of Serv | rice to V | aluation | n Date | • | | Valuation | | |
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 Plus | No | Payroll | | |
| | | | | | | | | | | | |
| 15-19 | 53 | | | | | | | 53 | \$ 503,732 | | |
| 20-24 | 821 | 7 | | | | | | 828 | 14,472,754 | | |
| 25-29 | 1,241 | 243 | 2 | | | | | 1,486 | 37,224,604 | | |
| 30-34 | 999 | 456 | 91 | 5 | | | | 1,551 | 47,203,928 | | |
| 35-39 | 1,237 | 687 | 352 | 166 | 10 | | | 2,452 | 83,779,312 | | |
| 40-44 | 1,494 | 829 | 464 | 412 | 197 | 16 | | 3,412 | 122,035,060 | | |
| 45-49 | 1,735 | 1,112 | 588 | 468 | 313 | 192 | 33 | 4,441 | 159,728,304 | | |
| 50-54 | 1,532 | 1,104 | 717 | 611 | 375 | 310 | 220 | 4,869 | 183,991,261 | | |
| 55-59 | 1,124 | 873 | 624 | 606 | 402 | 262 | 324 | 4,215 | 170,111,348 | | |
| 60-64 | 549 | 535 | 365 | 350 | 255 | 156 | 182 | 2,392 | 94,984,638 | | |
| 65-69 | 113 | 171 | 93 | 70 | 67 | 30 | 45 | 589 | 22,087,127 | | |
| 70+ | 47 | 45 | 32 | 21 | 16 | 11 | 14 | 186 | 6,196,576 | | |
| | | | | | | | | | | | |
| TOTAL | 10,945 | 6,062 | 3,328 | 2,709 | 1,635 | 977 | 818 | 26,474 | \$942,318,644 | | |

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 47.1 years Service: 9.3 years Annual Pay: \$35,594

Teachers June 30, 2007

| | _ | | | | | | | | Totals | | |
|----------|-------|-------|---------|-----------|----------|--------|---------|--------|---------------|--|--|
| Attained | | Years | of Serv | rice to V | aluation | n Date | | | Valuation | | |
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 Plus | No | Payroll | | |
| | | | | | | | | | - | | |
| 20-24 | 207 | | | | | | | 207 | \$ 6,039,076 | | |
| 25-29 | 1,556 | 248 | 1 | | | | | 1,805 | 62,970,106 | | |
| 30-34 | 850 | 997 | 109 | | | | | 1,956 | 79,842,539 | | |
| 35-39 | 580 | 726 | 567 | 52 | | | | 1,925 | 87,600,234 | | |
| 40-44 | 568 | 524 | 369 | 366 | 113 | 5 | | 1,945 | 95,938,538 | | |
| 45-49 | 612 | 627 | 385 | 331 | 480 | 97 | 5 | 2,537 | 128,141,267 | | |
| 50-54 | 458 | 624 | 514 | 426 | 414 | 491 | 195 | 3,122 | 168,172,922 | | |
| 55-59 | 269 | 402 | 476 | 502 | 457 | 421 | 835 | 3,362 | 195,058,915 | | |
| 60-64 | 105 | 126 | 172 | 217 | 269 | 208 | 357 | 1,454 | 88,827,258 | | |
| 65-69 | 18 | 24 | 16 | 19 | 23 | 26 | 25 | 151 | 8,999,124 | | |
| 70+ | 3 | 2 | | 3 | 1 | 1 | 3 | 13 | 718,113 | | |
| | | | | | | | | | | | |
| TOTAL | 5,226 | 4,300 | 2,609 | 1,916 | 1,757 | 1,249 | 1,420 | 18,477 | \$922,308,092 | | |

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 45.6 years Service: 12.6 years Annual Pay: \$49,917

Police June 30, 2007

| | | | Totals | | | | | | | | |
|----------|-------|-------|---------------|----------|----------|--------|---------|-----------|---------------|--|--|
| Attained | | Years | s of Serv | ice to V | aluation | 1 Date | | Valuation | | | |
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 Plus | No | Payroll | | |
| | | | | | | | | | | | |
| 15-19 | 2 | | | | | | | 2 | \$ 31,638 | | |
| 20-24 | 209 | | | | | | | 209 | 6,130,770 | | |
| 25-29 | 471 | 137 | 1 | | | | | 609 | 27,551,681 | | |
| 30-34 | 265 | 348 | 104 | 7 | | | | 724 | 37,846,862 | | |
| 35-39 | 177 | 246 | 307 | 100 | 4 | | | 834 | 46,945,221 | | |
| 40-44 | 110 | 142 | 147 | 234 | 142 | 19 | | 794 | 48,141,408 | | |
| 45-49 | 67 | 61 | 70 | 115 | 138 | 86 | 5 | 542 | 35,267,008 | | |
| 50-54 | 56 | 53 | 34 | 57 | 45 | 44 | 17 | 306 | 18,092,494 | | |
| 55-59 | 23 | 24 | 30 | 39 | 22 | 21 | 12 | 171 | 9,475,307 | | |
| 60-64 | 9 | 12 | 15 | 11 | 6 | 5 | 7 | 65 | 3,496,384 | | |
| 65-69 | | 1 | 2 | | 2 | | | 5 | 262,200 | | |
| 70+ | | | | 1 | 1 | | | 2 | 107,139 | | |
| | | | | | | | | | | | |
| TOTAL | 1,389 | 1,024 | 710 | 564 | 360 | 175 | 41 | 4,263 | \$233,348,112 | | |

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 38.5 years Service: 10.1 years Annual Pay: \$54,738

Fire June 30, 2007

| | | | | | | | | | Totals | |
|----------|-----|-------|-----------|-----------|----------------|--------|---------|-----------|---------------|--|
| Attained | | Years | s of Serv | vice to V | aluatio | n Date | _ | Valuation | | |
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 Plus | No | Payroll | |
| | | | | | | | | | | |
| 20-24 | 58 | | | | | | | 58 | \$ 1,847,935 | |
| 25-29 | 109 | 47 | | | | | | 156 | 7,410,153 | |
| 30-34 | 83 | 113 | 23 | 1 | | | | 220 | 11,882,295 | |
| 35-39 | 86 | 122 | 82 | 48 | 1 | | | 339 | 20,220,292 | |
| 40-44 | 39 | 73 | 54 | 108 | 85 | 1 | | 360 | 23,678,572 | |
| 45-49 | 24 | 31 | 24 | 59 | 75 | 45 | 3 | 261 | 18,311,395 | |
| 50-54 | 5 | 16 | 9 | 21 | 34 | 37 | 13 | 135 | 9,788,713 | |
| 55-59 | 2 | 2 | 6 | 3 | 10 | 11 | 15 | 49 | 3,586,554 | |
| 60-64 | | 2 | 1 | 1 | 2 | | 1 | 7 | 447,819 | |
| 65-69 | 1 | 1 | | | | | 1 | 3 | 190,806 | |
| 70+ | | | | | | | | | | |
| TOTAL | 407 | 407 | 199 | 241 | 207 | 94 | 33 | 1,588 | \$ 97.364.534 | |
| TOTAL | 407 | 407 | 199 | 241 | 207 | 94 | 33 | 1,566 | \$ 97,364,534 | |

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 39.7 years Service: 11.8 years Annual Pay: \$61,313

Total June 30, 2007

| | | | | | | | | | Totals | | | | |
|----------|--------|--------|-----------|-----------|----------|--------|---------|--------|-----------------|--|--|--|--|
| Attained | | Years | s of Serv | rice to V | aluation | 1 Date | , | | Valuation | | | | |
| Age | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 Plus | No | Payroll | | | | |
| | | | | | | | | | | | | | |
| 15-19 | 55 | | | | | | | 55 | \$ 535,370 | | | | |
| 20-24 | 1,295 | 7 | | | | | | 1,302 | 28,490,535 | | | | |
| 25-29 | 3,377 | 675 | 4 | | | | | 4,056 | 135,156,544 | | | | |
| 30-34 | 2,197 | 1,914 | 327 | 13 | | | | 4,451 | 176,775,624 | | | | |
| 35-39 | 2,080 | 1,781 | 1,308 | 366 | 15 | | | 5,550 | 238,545,059 | | | | |
| 40-44 | 2,211 | 1,568 | 1,034 | 1,120 | 537 | 41 | | 6,511 | 289,793,578 | | | | |
| 45-49 | 2,438 | 1,831 | 1,067 | 973 | 1,006 | 420 | 46 | 7,781 | 341,447,974 | | | | |
| 50-54 | 2,051 | 1,797 | 1,274 | 1,115 | 868 | 882 | 445 | 8,432 | 380,045,390 | | | | |
| 55-59 | 1,418 | 1,301 | 1,136 | 1,150 | 891 | 715 | 1,186 | 7,797 | 378,232,124 | | | | |
| 60-64 | 663 | 675 | 553 | 579 | 532 | 369 | 547 | 3,918 | 187,756,099 | | | | |
| 65-69 | 132 | 197 | 111 | 89 | 92 | 56 | 71 | 748 | 31,539,257 | | | | |
| 70+ | 50 | 47 | 32 | 25 | 18 | 12 | 17 | 201 | 7,021,828 | | | | |
| | | | | | | | | | | | | | |
| TOTAL | 17,967 | 11,793 | 6,846 | 5,430 | 3,959 | 2,495 | 2,312 | 50,802 | \$2,195,339,382 | | | | |

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 45.6 years Service: 10.6 years Annual Pay: \$43,214

Historical Summary of Active Member Data

Total

| Valuation | Active M | Iembers | Covered Pag | yroll | Average | Salary | Ave | rage |
|-----------|----------|----------------|-----------------|---------|-----------|---------|-------|---------|
| Date | No. | % Inc.* | \$ Amount | % Inc.* | \$ Amount | % Inc.* | Age S | Service |
| 2005 | 51,060 | N/A | \$2,043,568,262 | N/A | \$40,023 | N/A | 45.2 | 9.9 |
| 2007 | 50,802 | (0.3%) | 2,195,339,382 | 3.6% | 43,214 | 3.9% | 45.6 | 10.6 |

^{*} Average annual increase.

By Valuation Group (valuation payroll in thousands)

| | Fiscal | Active | Valuation | Average | |
|-----------|---------------|----------|-------------|--------------|---------|
| | Year | Members# | Payroll | Compensation | % Inc.* |
| Employees | 2007 | 26,474 | \$942,319 | \$35,594 | 3.40 % |
| Teachers | | 18,477 | \$922,308 | \$49,917 | 4.06 % |
| Police | | 4,263 | \$233,348 | \$54,738 | 6.32 % |
| Fire | | 1,588 | \$97,364 | \$61,312 | 3.78 % |
| Total | | 50,802 | \$2,195,339 | \$43,214 | 3.91 % |

| | Fiscal | Active | Valuation | Average | |
|-----------|---------------|----------|-------------|--------------|---------|
| | Year | Members# | Payroll | Compensation | % Inc.* |
| Employees | 2005 | 26,414 | \$879,419 | \$33,294 | N/A |
| Teachers | | 18,474 | \$851,664 | \$46,101 | N/A |
| Police | | 4,573 | \$221,456 | \$48,427 | N/A |
| Fire | | 1,599 | \$91,029 | \$56,929 | N/A |
| Total | | 51,060 | \$2,043,568 | \$40,023 | N/A |

[#] Excludes temporary inactive members.

^{*} Average annual increase.

Summary of Membership Data by Category

| 1 | r., | - | _ | 2 | Λ |
|-----|-----|----|---|----|---|
| - 1 | | 11 | - | ٠, | |

| | Jun | C 30 |
|------------------------------------|-----------------|-----------------|
| | 2007 | 2005 |
| Active Members | | |
| Number | 50,802 | 51,060 |
| Average age (years) | 45.6 | 45.2 |
| Average service (years) | 10.6 | 9.9 |
| Average salary | \$ 43,214 | \$ 40,023 |
| Total payroll supplied, annualized | \$2,195,339,382 | \$2,043,568,262 |
| Vested Inactive Members | | |
| Number | 1,049 | 617 |
| Average age (years) | 52 | 53 |
| Non-Vested Inactive Members | | |
| Number | 4,717 | 9,880 |
| Service Retirees | | |
| Number | 18,008 | 15,959 |
| Average age (years) | 68 | N/A |
| Total annual benefits | \$343,468,413 | \$255,499,585 |
| Average annual benefit | \$ 19,073 | \$ 16,010 |
| Disability Retirees | | |
| Number | 1,420 | 1,346 |
| Average age (years) | 60 | N/A |
| Total annual benefits | \$27,791,306 | \$22,373,570 |
| Average annual benefit | \$ 19,571 | \$ 16,622 |
| Beneficiaries | | |
| Number | 1,820 | 1,645 |
| Average age (years) | 72 | N/A |
| Total annual benefits | \$26,320,657 | \$18,481,241 |
| Average annual benefit | \$ 14,462 | \$ 11,235 |
| Total Covered Lives | 73,099 | 70,627 |

Other Schedules of Interest Distribution of Retirees by Years of Service

| Employees | Em | ola | vees |
|------------------|----|-----|------|
|------------------|----|-----|------|

| Service | 0 - 4 yrs.* | <u>5 - 9 yrs.</u> | <u>10 - 14 yrs.</u> | <u>15 - 19 yrs.</u> | <u>20 - 24 yrs.</u> | 25 - 29 yrs. | <u>30 - 34 yrs.</u> | <u>35 - 39 yrs.</u> | <u>40 - 44 yrs.</u> | 45 or more yrs. | <u>Total</u> |
|----------------------|-------------|-------------------|---------------------|---------------------|---------------------|--------------|---------------------|---------------------|---------------------|-----------------|---------------|
| Total Retirees | 685 | 1,240 | 2,745 | 1,885 | 1,666 | 966 | 987 | 513 | 142 | 30 | 10,859 |
| Annual Benefits | \$2,547,875 | \$4,944,987 | \$16,687,328 | \$16,677,011 | \$20,310,465 | \$15,727,839 | \$20,971,919 | \$13,767,415 | \$3,966,705 | \$827,524 | \$116,429,068 |
| Avg. Monthly Benefit | \$310 | \$332 | \$507 | \$737 | \$1,016 | \$1,357 | \$1,771 | \$2,236 | \$2,328 | \$2,299 | \$893 |

^{*} Includes 81 members who did not have service reported.

Teachers

| Service | <u>0 - 4 yrs.*</u> | <u>5 - 9 yrs.</u> | <u>10 - 14 yrs.</u> | <u>15 - 19 yrs.</u> | <u>20 - 24 yrs.</u> | <u>25 - 29 yrs.</u> | <u>30 - 34 yrs.</u> | <u>35 - 39 yrs.</u> | <u>40 - 44 yrs.</u> | 45 or more yrs. | <u>Total</u> |
|----------------------|--------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------|---------------|
| Total Retirees | 103 | 163 | 842 | 855 | 1,390 | 1,245 | 1,477 | 745 | 101 | 7 | 6,928 |
| Annual Benefits | \$484,780 | \$801,426 | \$6,074,213 | \$9,378,766 | \$22,089,437 | \$25,885,052 | \$39,082,461 | \$24,656,149 | \$3,467,980 | \$282,488 | \$132,202,752 |
| Avg. Monthly Benefit | \$392 | \$410 | \$601 | \$914 | \$1,324 | \$1,733 | \$2,205 | \$2,758 | \$2,861 | \$3,363 | \$1,590 |

^{*} Includes 37 members who did not have service reported.

Police

| Service | <u>0 - 4 yrs.*</u> | <u>5 - 9 yrs.</u> | <u>10 - 14 yrs.</u> | <u>15 - 19 yrs.</u> | <u>20 - 24 yrs.</u> | <u>25 - 29 yrs.</u> | <u>30 - 34 yrs.</u> | <u>35 - 39 yrs.</u> | <u>40 - 44 yrs.</u> | 45 or more yrs. | <u>Total</u> |
|------------------------|--------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-----------------|--------------|
| Total Retirees | 162 | 130 | 264 | 225 | 959 | 411 | 122 | 13 | 5 | 2 | 2,293 |
| Annual Benefits | \$1,661,296 | \$1,893,334 | \$4,507,094 | \$5,138,209 | \$30,307,511 | \$16,669,404 | \$6,258,686 | \$761,482 | \$330,337 | \$73,782 | \$67,601,135 |
| Avg. Monthly Benefit | \$855 | \$1,214 | \$1,423 | \$1,903 | \$2,634 | \$3,380 | \$4,275 | \$4,881 | \$5,506 | \$3,074 | \$2,457 |

^{*} Includes 74 members who did not have service reported.

Fire

| Service | <u>0 - 4 yrs.*</u> | <u>5 - 9 yrs.</u> | <u>10 - 14 yrs.</u> | <u>15 - 19 yrs.</u> | <u>20 - 24 yrs.</u> | 25 - 29 yrs. | <u>30 - 34 yrs.</u> | 35 - 39 yrs. | <u>40 - 44 yrs.</u> | 45 or more yrs. | <u>Total</u> |
|--------------------|--------------------|-------------------|---------------------|---------------------|---------------------|--------------|---------------------|--------------|---------------------|-----------------|--------------|
| Total Retirees | 67 | 22 | 73 | 108 | 488 | 297 | 86 | 23 | 4 | 0 | 1,168 |
| Annual Benefits | \$742,989 | \$337,650 | \$1,332,871 | \$2,455,117 | \$13,783,762 | \$12,337,194 | \$4,211,638 | \$1,224,904 | \$199,553 | \$0 | \$36,625,678 |
| Avg. Monthly Benef | it \$924 | \$1.279 | \$1.522 | \$1.894 | \$2,354 | \$3,462 | \$4,081 | \$4,438 | \$4.157 | N/A | \$2,613 |

^{*} Includes 47 members who did not have service reported.

Other Schedules of Interest Schedule of Retired Members by Type of Benefits

Employees

| | | | | | | | | June 3 | 30, 2007 | | | | | | | | | |
|------------------------|-----------|-------|-----|---------|--------|-------|-------|--------|----------|--------|--------|--------|-----------|-----------|--------|--------|--------|--------|
| | | | Ty | pe of R | etirer | nent* | * | | | | | (| option Se | elected # | | | | |
| Amount of | Number of | | | | | | | | No | Option | Option | Option | Option | Option | Option | Option | Option | Option |
| Monthly Benefit | Retirants | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Option | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| \$1 - 250 | 1,534 | 1,254 | 7 | - | 3 | - | 269 | 1 | 999 | 116 | 123 | 23 | 224 | 45 | 3 | 1 | - | - |
| 251 - 500 | 2,207 | 1,948 | 48 | 1 | 2 | - | 208 | - | 1,335 | 171 | 137 | 46 | 422 | 91 | 4 | 1 | - | - |
| 501 - 750 | 1,800 | 1,471 | 148 | 25 | 1 | 1 | 154 | - | 1,077 | 90 | 118 | 48 | 345 | 116 | 4 | 2 | - | - |
| 751 - 1,000 | 1,569 | 1,166 | 94 | 140 | 4 | 2 | 163 | - | 901 | 122 | 99 | 46 | 294 | 105 | 2 | - | - | - |
| 1,001 - 1,250 | 1,042 | 809 | 34 | 136 | 2 | 1 | 59 | 1 | 577 | 64 | 76 | 43 | 195 | 87 | - | - | - | - |
| 1,251 - 1,500 | 751 | 622 | 13 | 63 | - | 2 | 47 | 4 | 354 | 52 | 71 | 34 | 158 | 79 | 2 | 1 | - | - |
| 1,501 - 1,750 | 538 | 454 | 5 | 36 | 2 | 1 | 32 | 8 | 253 | 23 | 54 | 22 | 143 | 42 | 1 | - | - | - |
| 1,751 - 2,000 | 376 | 315 | 6 | 19 | - | 2 | 22 | 12 | 180 | 13 | 45 | 17 | 98 | 23 | - | - | - | - |
| Over 2,000 | 1,570 | 973 | 7 | 23 | - | 2 | 63 | 502 | 861 | 43 | 133 | 59 | 348 | 124 | 1 | 1 | - | - |
| Totals | 11,387 | 9,012 | 362 | 443 | 14 | 11 | 1,017 | 528 | 6,537 | 694 | 856 | 338 | 2,227 | 712 | 17 | 6 | - | - |

Teachers

| | | | | | | | | June 3 | 30, 2007 | | | | | | | | | |
|------------------------|-----------|-------|-----|--------|--------|-------|-----|--------|----------|--------|--------|--------|-----------|-----------|--------|--------|--------|--------|
| | | | Тур | e of R | etiren | nent* | k | | | | | C | option Se | elected # | | | | |
| Amount of | Number of | | | | | | | | No | Option | Option | Option | Option | Option | Option | Option | Option | Option |
| Monthly Benefit | Retirants | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Option | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| \$1 - 250 | 219 | 194 | - | - | - | - | 23 | 2 | 123 | 11 | 10 | 8 | 48 | 16 | - | 3 | - | - |
| 251 - 500 | 525 | 496 | - | - | - | - | 29 | - | 307 | 68 | 27 | 7 | 91 | 22 | 2 | 1 | - | - |
| 501 - 750 | 556 | 519 | 5 | - | 1 | - | 31 | - | 326 | 67 | 36 | 3 | 98 | 25 | 1 | - | - | - |
| 751 - 1,000 | 663 | 560 | 62 | - | - | - | 41 | - | 355 | 116 | 23 | 24 | 114 | 29 | 2 | - | - | - |
| 1,001 - 1,250 | 606 | 533 | 41 | 2 | 4 | - | 26 | - | 337 | 54 | 40 | 16 | 117 | 41 | 1 | - | - | - |
| 1,251 - 1,500 | 616 | 563 | 19 | 3 | - | 1 | 30 | - | 287 | 42 | 47 | 19 | 160 | 61 | - | - | - | - |
| 1,501 - 1,750 | 613 | 574 | 14 | 3 | 2 | - | 20 | - | 262 | 45 | 50 | 16 | 180 | 55 | 1 | 4 | - | - |
| 1,751 - 2,000 | 643 | 607 | 7 | 3 | 2 | 1 | 22 | 1 | 294 | 27 | 53 | 25 | 172 | 70 | - | 2 | - | - |
| Over 2,000 | 2,967 | 2,395 | 20 | 5 | 4 | 1 | 65 | 477 | 1,541 | 135 | 194 | 90 | 730 | 272 | - | 5 | - | - |
| Totals | 7,408 | 6,441 | 168 | 16 | 13 | 3 | 287 | 480 | 3,832 | 565 | 480 | 208 | 1,710 | 591 | 7 | 15 | - | _ |

See Page 47 for footnotes.

Other Schedules of Interest Schedule of Retired Members by Type of Benefits

Police

| | | | | | | | | Ju | ne 30, 200 | 7 | | | | | | | | |
|------------------------|-----------|-------|-----|---------|-------|--------|-----|----|-------------------|--------|--------|--------|--------|--------|--------|--------|----------|--------|
| | | | Typ | e of Re | tiren | nent** | : | | Option Selected # | | | | | | | | | |
| Amount of | Number of | | | | | | | | No | Option | n Optior | Option |
| Monthly Benefit | Retirants | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Option | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| \$1 - 250 | 57 | 50 | 1 | - | - | 1 | 4 | 1 | 31 | - | 5 | 8 | 5 | 8 | - | - | - | - |
| 251 - 500 | 92 | 47 | - | - | - | 2 | 43 | - | 67 | 1 | 1 | 8 | 3 | 12 | - | - | - | - |
| 501 - 750 | 94 | 60 | 2 | - | - | - | 32 | - | 69 | 4 | 4 | 5 | 4 | 8 | - | - | - | - |
| 751 - 1,000 | 153 | 82 | 14 | 8 | - | 3 | 46 | - | 112 | 7 | 7 | 7 | 5 | 15 | - | - | - | - |
| 1,001 - 1,250 | 143 | 92 | 11 | 2 | - | - | 38 | - | 91 | 6 | 6 | 9 | 9 | 22 | - | - | - | - |
| 1,251 - 1,500 | 120 | 72 | 11 | 9 | - | 1 | 27 | - | 76 | 6 | 4 | 4 | 13 | 17 | - | - | - | - |
| 1,501 - 1,750 | 126 | 88 | 7 | 17 | - | 1 | 13 | - | 68 | 10 | 5 | 10 | 7 | 25 | 1 | - | - | - |
| 1,751 - 2,000 | 152 | 103 | 4 | 33 | - | - | 12 | - | 90 | 10 | 3 | 18 | 9 | 22 | - | - | - | - |
| Over 2,000 | 1,394 | 1,121 | 4 | 184 | 1 | 7 | 40 | 37 | 528 | 74 | 24 | 292 | 52 | 424 | - | - | - | - |
| Totals | 2,331 | 1,715 | 54 | 253 | 1 | 15 | 255 | 38 | 1,132 | 118 | 59 | 361 | 107 | 553 | 1 | _ | - | - |

Fire

| | | | | | | | | Ju | ne 30, 200 | 7 | | | | | | | | |
|-----------------|-----------|-----|-----|---------|-------|--------|-----|----|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | Тур | e of Re | tiren | nent** | | | Option Selected # | | | | | | | | | |
| Amount of | Number of | | | | | | | | No | Option |
| Monthly Benefit | Retirants | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Option | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| \$1 - 250 | 9 | 6 | - | 1 | - | 1 | 1 | - | 5 | - | - | 1 | 1 | 2 | - | - | - | - |
| 251 - 500 | 24 | 14 | - | - | - | 3 | 7 | - | 18 | - | 2 | - | 1 | 3 | - | - | - | - |
| 501 - 750 | 43 | 14 | - | - | - | - | 29 | - | 39 | - | - | 1 | 1 | 2 | - | - | - | - |
| 751 - 1,000 | 45 | 18 | 1 | - | - | - | 26 | - | 38 | - | 2 | 2 | - | 3 | - | - | - | - |
| 1,001 - 1,250 | 80 | 28 | 5 | 4 | - | 5 | 38 | - | 65 | 5 | 3 | 1 | 3 | 3 | - | - | - | - |
| 1,251 - 1,500 | 72 | 35 | 2 | 11 | - | 1 | 23 | - | 48 | 7 | 6 | 5 | 2 | 4 | - | - | - | - |
| 1,501 - 1,750 | 84 | 52 | 6 | 7 | - | 3 | 16 | - | 49 | 9 | 3 | 9 | 6 | 8 | - | - | - | - |
| 1,751 - 2,000 | 71 | 40 | 4 | 13 | - | 1 | 13 | - | 39 | 8 | 5 | 4 | 6 | 9 | - | - | - | - |
| Over 2,000 | 743 | 633 | 5 | 65 | 2 | 4 | 31 | 3 | 259 | 40 | 14 | 144 | 18 | 267 | - | 1 | - | - |
| Totals | 1,171 | 840 | 23 | 101 | 2 | 18 | 184 | 3 | 560 | 69 | 35 | 167 | 38 | 301 | - | 1 | - | - |

See Page 47 for footnotes.

**Type of Retirement

1-Service & early retirement

2-Ordinary disability retirement

3-Accidental disability retirement

4-Ordinary death in active service

5-Accidental death in active service

6-Beneficiaries of deceased members who retired on a service or disability allowance

7-Vested member with future benefit

#Option Selected

No option - Straight life

Option 1 - Cash refund

Option 2 - 100% Joint & Survivorship

Option 3 - 50% Joint & Survivorship

Option 4 - 100% Pop-Up

Option 5 - 50% Pop-Up

Option 6 - Other % Joint & Survivorship

Option 7 - Other % Pop-Up

Option 8 - Fixed amount to Beneficiaries

Option 9 - Widow's benefit (accidental disability) 50%



Valuation Methods

Actuarial Cost Method - Normal cost and the allocation of benefit values between service rendered before and after the valuation date were determined using an **Individual Entry-Age Actuarial Cost Method** having the following characteristics:

- (i) the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year by year projected covered pay.

Actuarial gain/(losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

Financing of Unfunded Actuarial Accrued Liabilities - Unfunded Actuarial Accrued Liabilities were amortized by level (principal & interest combined) percent-of-payroll contributions over 30 years from the contribution effective date (Fiscal Year 2010).

Valuation Methods

Actuarial Value of Assets - The Actuarial Value of Assets recognizes assumed investment income fully each year. Differences between actual and assumed investment income are phased in over a closed 5 year period. During periods when investment performance exceeds the assumed rate, Funding Value of Assets will tend to be less than Market Value. During periods when investment performance is less than the assumed rate, Funding Value of Assets will tend to be greater than Market Value. The Funding Value of Assets is unbiased with respect to Market Value. At any time it may be either greater of less than Market Value. If assumed rates are exactly realized for 4 consecutive years, it will become equal to Market Value. Funding Value was limited to a 20% corridor around the Market Value.

Development of Amortization Payment

The employer contribution rate determined by this valuation will not be effective until two years after the valuation date. The unfunded actuarial accrued liability (UAAL) was determined using the funding value of assets and actuarial accrued liability calculated as of the valuation date. The UAAL amortization payment (one component of the contribution requirement), is the level percent of pay required to fully amortize the UAAL over a 30 year period beginning on July 1, 2009. This UAAL payment reflects any payments expected to be made between the valuation date and the date contributions determined by this report are scheduled to begin. It was assumed that the entire pension contribution as calculated in the June 30, 2005 valuation would be contributed to the net pension assets.

The actuarial assumptions used in the valuation are shown in this Section.

Economic Assumptions

The investment return rate assumed in the valuations is 8.50% per year, compounded annually (net after investment expenses).

The **Wage Inflation Rate** assumed in this valuation was 4.50% per year. The Wage Inflation Rate is defined to be the portion of total pay increases for an individual that are due to macro economic forces including productivity, price inflation, and labor market conditions. The wage inflation rate does not include pay changes related to individual merit and seniority effects.

No specific **Price Inflation** assumption is required to perform this valuation, since there are no benefits that are linked to price increases. However, a price inflation assumption on the order of 3.5% would be consistent with the other economic assumptions.

The assumed **real rate of return** over wage inflation is defined to be the portion of total investment return that is more than the assumed total wage growth rate. Considering other economic assumptions, the 8.50% investment return rate translates to an assumed real rate of return over wage inflation of 4.00%. The assumed real rate of return over price inflation would be higher – on the order of 5.0%, considering both an inflation assumption and an average expense provision.

The active member population is assumed to remain constant. For purposes of financing the unfunded liabilities, total payroll is assumed to grow at the wage inflation rate -4.50% per year.

Pay increase assumptions for individual active members are shown for sample ages on page 52. Part of the assumption for each age is for merit and/or seniority increase, and the other 4.50% recognizes wage inflation, including price inflation, productivity increases, and other macro economic forces.

Employees

The rates of salary increase used for individual members are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

| | % Increase | in Salary at Sam | ple Ages |
|----------------|----------------------|-------------------|-----------------------|
| Sample Ages | Merit & Seniority | Base (Economy) | Increase Next Year |
| 20 | 11.75% | 4.50% | 16.25% |
| 25 | 8.75% | 4.50% | 13.25% |
| 30 | 4.25% | 4.50% | 8.75% |
| 35 | 3.25% | 4.50% | 7.75% |
| 40 | 1.85% | 4.50% | 6.35% |
| 45 | 1.65% | 4.50% | 6.15% |
| 50 | 1.45% | 4.50% | 5.95% |
| 55 | 1.25% | 4.50% | 5.75% |
| 60 | 1.05% | 4.50% | 5.55% |
| Ref: | 271 - 0.5% | | |

Employees (Continued)

The mortality table was the same table as used by the prior actuary. Sample rates are shown below.

| Sample Attained | | ty of Dying t Year | | re Life ncy (years) |
|--------------------|------------|-----------------------|-------|------------------------|
| Ages | Men | Women | Men | Women |
| 35 | 0.076% | 0.047% | 46.65 | 51.20 |
| 40 | 0.102% | 0.062% | 41.82 | 46.32 |
| 45 | 0.151% | 0.099% | 37.02 | 41.46 |
| 50 | 0.235% | 0.155% | 32.28 | 36.65 |
| 55 | 0.387% | 0.226% | 27.64 | 31.92 |
| 60 | 0.735% | 0.360% | 23.14 | 27.25 |
| 65 | 1.408% | 0.779% | 18.92 | 22.71 |
| 70 | 2.485% | 1.562% | 15.12 | 18.52 |
| 75 | 4.176% | 2.566% | 11.81 | 14.83 |
| 80 | 6.934% | 4.195% | 9.02 | 11.53 |
| Ref: | 470 x 1.00 | 471 x 1.00 | | |

This assumption is used to measure the probabilities of each benefit payment being made after retirement.

Disabled pension mortality was based on PBGC Disabled Mortality tables. For active members dying before retirement, 98% percent are assumed to be ordinary death and 2% percent are assumed to be accidental death. The probabilities of dying at sample attained ages were as follows:

| | Pr | obability of Occur | rance Next Ye | ar |
|--------|------------|--------------------|---------------|--------|
| Sample | De | eath | Disa | bility |
| Ages | Men | Women | Men | Women |
| 20 | 0.06% | 0.02% | 4.83% | 4.83% |
| 25 | 0.06% | 0.02% | 4.83% | 4.83% |
| 30 | 0.06% | 0.03% | 3.62% | 3.62% |
| 35 | 0.06% | 0.04% | 2.78% | 2.78% |
| 40 | 0.06% | 0.07% | 2.82% | 2.82% |
| 45 | 0.10% | 0.10% | 3.22% | 3.22% |
| 50 | 0.15% | 0.14% | 3.83% | 3.83% |
| 55 | 0.20% | 0.18% | 4.82% | 4.82% |
| Ref | 490 x 1.00 | 491 x 1.00 | 250 | 250 |

Employees (Continued)

The rates of retirement used to measure the probability of eligible members retiring during the next year were as follows:

| | % of Active | Members |
|------------|-----------------------|-------------|
| Retirement | Retiring Withi | n Next Year |
| Ages | Male | Female |
| 60 | 12.50% | 13.00% |
| 61 | 15.00% | 15.00% |
| 62 | 17.00% | 17.00% |
| 63 | 19.00% | 18.00% |
| 64 | 21.00% | 18.50% |
| 65 | 24.00% | 19.00% |
| 66 | 26.00% | 19.50% |
| 67 | 24.00% | 19.00% |
| 68 | 22.00% | 18.00% |
| 69 | 20.00% | 17.00% |
| 70 | 100.00% | 100.00% |
| Ref. | 1386 | 1387 |

Rates of separation from active membership were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

| | % of Activ | e Members |
|--------|---------------|-----------------|
| Sample | Separating Wi | ithin Next Year |
| Ages | Male | Female |
| 25 | 7.00% | 8.00% |
| 30 | 6.50% | 7.00% |
| 35 | 5.50% | 6.00% |
| 40 | 4.50% | 5.00% |
| 45 | 4.00% | 4.00% |
| 50 | 3.50% | 3.50% |
| 55 | 3.00% | 3.00% |
| 60 | 2.20% | 2.60% |
| Ref. | 949 | 950 |

Withdrawal rates for the first two years of employment are multiplied by 2.0.

Employees (Concluded)

Rates of disability among active members. 50% are assumed to be ordinary disability and 50% are assumed to be accidental disability.

| Sample | % of Active Members Becoming Disabled Within Next Year | | | |
|--------|--|-------|--|--|
| Ages | Men Women | | | |
| 20 | 0.03% | 0.02% | | |
| 25 | 0.04% | 0.02% | | |
| 30 | 0.05% | 0.02% | | |
| 35 | 0.10% | 0.05% | | |
| 40 | 0.18% | 0.08% | | |
| 45 | 0.22% | 0.12% | | |
| 50 | 0.27% | 0.18% | | |
| 55 | 0.29% | 0.22% | | |
| Ref | 489 | 490 | | |

Teachers

The rates of salary increase used for individual members are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

Salary Increase Assumptions For an Individual Member

| | | , _ , _ , _ , _ , _ , _ , _ , _ , | |
|----------------|----------------------|-----------------------------------|-----------------------|
| Sample Ages | Merit & Seniority | Base (Economy) | Increase Next Year |
| 20 | 3.75% | 4.50% | 8.25% |
| 25 | 3.75% | 4.50% | 8.25% |
| 30 | 2.00% | 4.50% | 6.50% |
| 35 | 1.50% | 4.50% | 6.00% |
| 40 | 1.00% | 4.50% | 5.50% |
| 45 | 0.50% | 4.50% | 5.00% |
| 50 | 0.00% | 4.50% | 4.50% |
| 55 | 0.00% | 4.50% | 4.50% |
| 60 | 0.00% | 4.50% | 4.50% |
| | 272 0.50/ | | |

Ref: 272 - 0.5%

Teachers (Continued)

The mortality table was the same table as used by the prior actuary. Sample rates are shown below.

| Sample Attained | | ty of Dying t Year | | re Life ncy (years) |
|--------------------|------------|-----------------------|-------|------------------------|
| Ages | Men | Women | Men | Women |
| 35 | 0.068% | 0.044% | 43.75 | 50.23 |
| 40 | 0.085% | 0.058% | 38.94 | 45.34 |
| 45 | 0.118% | 0.090% | 34.17 | 40.49 |
| 50 | 0.180% | 0.143% | 29.48 | 35.70 |
| 55 | 0.283% | 0.211% | 24.91 | 30.98 |
| 60 | 0.494% | 0.319% | 20.56 | 26.33 |
| 65 | 0.959% | 0.661% | 16.58 | 21.84 |
| 70 | 1.787% | 1.389% | 13.07 | 17.75 |
| 75 | 3.062% | 2.335% | 10.07 | 14.14 |
| 80 | 5.129% | 3.789% | 7.63 | 10.93 |
| Ref: | 470 x 1.00 | 471 x 1.00 | | |

This assumption is used to measure the probabilities of each benefit payment being made after retirement.

Disabled pension mortality was based on PBGC Disabled Mortality tables. For active members dying before retirement, 98% percent are assumed to be ordinary death and 2% percent are assumed to be accidental death. The probabilities of dying at sample attained ages were as follows:

| | Probability of Dying Next Year | | | |
|--------|--------------------------------|------------|-------|--------|
| Sample | De | eath | Disa | bility |
| Ages | Men | Women | Men | Women |
| 20 | 0.02% | 0.03% | 4.83% | 4.83% |
| 25 | 0.02% | 0.03% | 4.83% | 4.83% |
| 30 | 0.03% | 0.03% | 3.62% | 3.62% |
| 35 | 0.04% | 0.03% | 2.78% | 2.78% |
| 40 | 0.05% | 0.05% | 2.82% | 2.82% |
| 45 | 0.06% | 0.05% | 3.22% | 3.22% |
| 50 | 0.12% | 0.10% | 3.83% | 3.83% |
| 55 | 0.18% | 0.15% | 4.82% | 4.82% |
| Ref | 492 x 1.00 | 493 x 1.00 | 250 | 250 |

Teachers (Continued)

The rates of retirement used to measure the probability of eligible members retiring during the next year were as follows:

| Retirement | % of Active Member Retiring Within Next Y | |
|------------|--|---------|
| Ages | Male | Female |
| 60 | 20.50% | 15.00% |
| 61 | 22.00% | 18.00% |
| 62 | 23.00% | 20.00% |
| 63 | 24.00% | 23.00% |
| 64 | 25.00% | 24.00% |
| 65 | 26.00% | 25.00% |
| 66 | 27.00% | 26.00% |
| 67 | 28.00% | 27.00% |
| 68 | 29.00% | 28.00% |
| 69 | 30.00% | 29.00% |
| 70 | 100.00% | 100.00% |
| Ref. | 1388 | 1389 |

Rates of separation from active membership were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

| | % of Active Members | | |
|--------|---------------------|-----------------|--|
| Sample | Separating Wi | ithin Next Year | |
| Ages | Male | Female | |
| 25 | 4.50% | 4.50% | |
| 30 | 4.00% | 4.00% | |
| 35 | 3.50% | 3.50% | |
| 40 | 2.75% | 3.00% | |
| 45 | 2.75% | 2.00% | |
| 50 | 3.50% | 2.50% | |
| 55 | 4.00% | 3.50% | |
| 60 | 4.40% | 3.90% | |
| Ref. | 951 | 952 | |

Withdrawal rates for the first year of employment are multiplied by 3.0 and for the second year of employment are multiplied by 2.0.

Teachers (Concluded)

Rates of disability among active members. 92% percent are assumed to be ordinary disability and 8% percent are assumed to be accidental disability.

| Sample | % of Active Members Becoming Disabled Within Next Year | | | |
|--------|--|--------|--|--|
| Ages | Male Female | | | |
| 20 | 0.005% | 0.005% | | |
| 25 | 0.005% | 0.005% | | |
| 30 | 0.005% | 0.005% | | |
| 35 | 0.005% | 0.005% | | |
| 40 | 0.005% | 0.005% | | |
| 45 | 0.015% | 0.015% | | |
| 50 | 0.050% | 0.045% | | |
| 55 | 0.200% | 0.100% | | |
| Ref | 491 | 492 | | |

Police

The rates of salary increase used for individual members are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

Salary Increase Assumptions For an Individual Member

| | I OI WI | i illai (laaal lilelli | |
|----------------|----------------------|------------------------|-----------------------|
| Sample Ages | Merit & Seniority | Base (Economy) | Increase Next Year |
| 20 | 7.75% | 4.50% | 12.25% |
| 25 | 7.75% | 4.50% | 12.25% |
| 30 | 3.25% | 4.50% | 7.75% |
| 35 | 2.00% | 4.50% | 6.50% |
| 40 | 0.75% | 4.50% | 5.25% |
| 45 | 0.75% | 4.50% | 5.25% |
| 50 | 0.75% | 4.50% | 5.25% |
| 55 | 0.75% | 4.50% | 5.25% |
| 60 | 0.75% | 4.50% | 5.25% |
| D.C. | 272 0.50/ | - | |

Ref: 273 - 0.5%

Police (Continued)

The mortality table was the same table as used by the prior actuary. Sample rates are shown below.

| Sample | Probabili | ty of Dying | Futu | re Life |
|----------|------------|-------------|---------------------------|---------|
| Attained | Nex | t Year | Expectancy (years) | |
| Ages | Men | Women | Men | Women |
| 35 | 0.076% | 0.047% | 46.65 | 51.20 |
| 40 | 0.102% | 0.062% | 41.82 | 46.32 |
| 45 | 0.151% | 0.099% | 37.02 | 41.46 |
| 50 | 0.235% | 0.155% | 32.28 | 36.65 |
| 55 | 0.387% | 0.226% | 27.64 | 31.92 |
| 60 | 0.735% | 0.360% | 23.14 | 27.25 |
| 65 | 1.408% | 0.779% | 18.92 | 22.71 |
| 70 | 2.485% | 1.562% | 15.12 | 18.52 |
| 75 | 4.176% | 2.566% | 11.81 | 14.83 |
| 80 | 6.934% | 4.195% | 9.02 | 11.53 |
| Ref: | 470 x 1.00 | 471 x 1.00 | | _ |

This assumption is used to measure the probabilities of each benefit payment being made after retirement.

Disabled pension mortality was based on PBGC Disabled Mortality tables. For active members dying before retirement and disabled retirees, the probabilities of dying at sample attained ages were as follows:

| | Probability of Dying Next Year | | | |
|--------|---------------------------------------|------------|-------|--------|
| Sample | De | Death | | bility |
| Ages | Men | Women | Men | Women |
| 20 | 0.04% | 0.04% | 4.83% | 4.83% |
| 25 | 0.05% | 0.05% | 4.83% | 4.83% |
| 30 | 0.06% | 0.06% | 3.62% | 3.62% |
| 35 | 0.07% | 0.07% | 2.78% | 2.78% |
| 40 | 0.10% | 0.10% | 2.82% | 2.82% |
| 45 | 0.14% | 0.14% | 3.22% | 3.22% |
| 50 | 0.16% | 0.16% | 3.83% | 3.83% |
| 55 | 0.24% | 0.24% | 4.82% | 4.82% |
| Ref | 494 x 1.00 | 494 x 1.00 | 250 | 250 |

Police (Continued)

The rates of retirement used to measure the probability of eligible members retiring during the next year were as follows:

| Retirement | |
|------------|---------|
| Ages | Percent |
| 45 | 27.00% |
| 46 | 27.60% |
| 47 | 28.20% |
| 48 | 28.80% |
| 49 | 29.40% |
| 50 | 30.00% |
| 51 | 30.60% |
| 52 | 31.20% |
| 53 | 31.80% |
| 54 | 32.40% |
| 55 | 33.00% |
| 56 | 30.00% |
| 57 | 28.75% |
| 58 | 28.00% |
| 59 | 27.50% |
| 60 | 27.00% |
| 61 | 26.67% |
| 62 | 27.08% |
| 63 | 27.50% |
| 64 | 27.92% |
| 65 | 28.33% |
| 66 | 28.75% |
| 67 | 29.17% |
| 68 | 29.58% |
| 69 | 30.00% |
| 70 | 100.00% |
| Ref. | 1390 |

Police (Concluded)

Rates of separation from active membership were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

| | | % of Activ | ve Members |
|--------|----------|--------------|-----------------|
| Sample | Years of | Separating W | ithin Next Year |
| Ages | Service | Male | Female |
| 25 | 5 & Over | 5.50% | 5.50% |
| 30 | | 4.50% | 4.50% |
| 35 | | 3.50% | 3.50% |
| 40 | | 3.00% | 3.00% |
| 45 | | 3.00% | 3.00% |
| 50 | | 3.00% | 3.00% |
| 55 | | 2.00% | 2.00% |
| 60 | | 2.00% | 2.00% |
| Ref. | | 953 | 953 |

Rates of disability among active members.

| Sample | % of Active Members Becoming Disabled within Next Year | |
|--------|--|------------|
| Ages | Ordinary | Accidental |
| 20 | 0.00% | 0.01% |
| 25 | 0.01% | 0.01% |
| 30 | 0.02% | 0.01% |
| 35 | 0.02% | 0.15% |
| 40 | 0.06% | 0.20% |
| 45 | 0.14% | 0.25% |
| 50 | 0.20% | 0.30% |
| 55 | 0.36% | 0.35% |
| Ref | 493 | 494 |

Fire

The rates of salary increase used for individual members are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

Salary Increase Assumptions For an Individual Member

| | 1 of an inarviada Member | | | | |
|----------------|--------------------------|-------------------|-----------------------|--|--|
| Sample Ages | Merit & Seniority | Base (Economy) | Increase Next Year | | |
| 20 | 9.00% | 4.50% | 13.50% | | |
| 25 | 8.00% | 4.50% | 12.50% | | |
| 30 | 5.00% | 4.50% | 9.50% | | |
| 35 | 3.00% | 4.50% | 7.50% | | |
| 40 | 1.25% | 4.50% | 5.75% | | |
| 45 | 1.25% | 4.50% | 5.75% | | |
| 50 | 1.25% | 4.50% | 5.75% | | |
| 55 | 1.25% | 4.50% | 5.75% | | |
| 60 | 1.25% | 4.50% | 5.75% | | |
| D.f. | 274 0.50/ | <u> </u> | <u> </u> | | |

Ref: 274 - 0.5%

Fire (Continued)

The mortality table was the same table as used by the prior actuary. Sample rates are shown below.

| Sample Attained | Probability of Dying Next Year | | Future Life Expectancy (years) | |
|--------------------|-----------------------------------|------------|-----------------------------------|-------|
| Ages | Men | Women | Men | Women |
| 35 | 0.098% | 0.054% | 41.11 | 49.22 |
| 40 | 0.100% | 0.067% | 36.33 | 44.36 |
| 45 | 0.128% | 0.084% | 31.61 | 39.52 |
| 50 | 0.207% | 0.123% | 27.03 | 34.69 |
| 55 | 0.338% | 0.227% | 22.59 | 29.95 |
| 60 | 0.560% | 0.444% | 18.42 | 25.36 |
| 65 | 1.024% | 0.864% | 14.67 | 21.04 |
| 70 | 1.927% | 1.555% | 11.48 | 17.10 |
| 75 | 3.425% | 2.593% | 8.87 | 13.58 |
| 80 | 5.542% | 4.325% | 6.77 | 10.52 |
| Ref: | 326 x 1.00 | 327 x 1.00 | | |

This assumption is used to measure the probabilities of each benefit payment being made after retirement.

Disabled pension mortality was based on PBGC Disabled Mortality tables. For active members dying before retirement and disabled retirees, the probabilities of dying at sample attained ages were as follows:

| | | Probability of Dying Next Year | | | | |
|--------|-------|--------------------------------|-------|------|------------|-------|
| Sample | | Death | | | Disability | |
| Ages | Mer | 1 | Wome | n | Men | Women |
| 20 | 0.03% | ó | 0.03% | | 4.83% | 4.83% |
| 25 | 0.03% | 6 | 0.03% | | 4.83% | 4.83% |
| 30 | 0.04% | 6 | 0.04% | | 3.62% | 3.62% |
| 35 | 0.05% | ó | 0.05% | | 2.78% | 2.78% |
| 40 | 0.07% | ó | 0.07% | | 2.82% | 2.82% |
| 45 | 0.10% | 6 | 0.10% | | 3.22% | 3.22% |
| 50 | 0.11% | 6 | 0.11% | | 3.83% | 3.83% |
| 55 | 0.17% | 6 | 0.17% | | 4.82% | 4.82% |
| Ref | 496 x | 1.00 | 496 x | 1.00 | 250 | 250 |
| | | | | | | |

Fire (Continued)

The rates of retirement used to measure the probability of eligible members retiring during the next year were as follows:

| Retirement | |
|------------|---------|
| Ages | Percent |
| 45 | 15.00% |
| 46 | 15.00% |
| 47 | 15.00% |
| 48 | 15.00% |
| 49 | 15.00% |
| 50 | 15.00% |
| 51 | 15.00% |
| 52 | 15.00% |
| 53 | 15.00% |
| 54 | 15.00% |
| 55 | 25.00% |
| 56 | 26.00% |
| 57 | 27.00% |
| 58 | 28.00% |
| 59 | 29.00% |
| 60 | 30.00% |
| 61 | 29.00% |
| 62 | 28.00% |
| 63 | 27.00% |
| 64 | 26.00% |
| 65 | 25.00% |
| 66 | 25.00% |
| 67 | 25.00% |
| 68 | 25.00% |
| 69 | 25.00% |
| 70 | 100.00% |
| Ref. | 1391 |

Fire (Concluded)

Rates of separation from active membership were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.

| | | % of Active Members Separating Within Next Year | | |
|--------|----------|---|--------|--|
| Sample | Years of | | | |
| Ages | Service | Male | Female | |
| 25 | 5 & Over | 1.00% | 1.00% | |
| 30 | | 1.00% | 1.00% | |
| 35 | | 1.00% | 1.00% | |
| 40 | | 1.00% | 1.00% | |
| 45 | | 1.00% | 1.00% | |
| 50 | | 1.00% | 1.00% | |
| 55 | | 1.00% | 1.00% | |
| 60 | | 1.00% | 1.00% | |
| Ref. | | 151 | 151 | |

Rates of disability among active members.

| Sample | % of Active Members Becoming Disabled within Next Year | | |
|--------|--|------------|--|
| Ages | Ordinary | Accidental | |
| 20 | 0.02% | 0.05% | |
| 25 | 0.02% | 0.05% | |
| 30 | 0.02% | 0.07% | |
| 35 | 0.02% | 0.09% | |
| 40 | 0.02% | 0.20% | |
| 45 | 0.02% | 0.25% | |
| 50 | 0.02% | 0.30% | |
| 55 | 0.02% | 0.35% | |
| Ref | 274 | 496 | |

Miscellaneous and Technical Assumptions

Administrative & Investment

Expenses

The investment return assumption is intended to be the return net of investment expenses. Annual administrative expenses are assumed to be equal to the prior year's administrative expenses. Assumed administrative expenses are added to the Normal Cost, and were

0.35% of payroll in the June 30, 2007 valuation.

Exact Fractional service is used to determine the amount of benefit Benefit Service

payable.

COLA None assumed.

Decrement Operation Disability decrements do not operate during retirement eligibility.

Only withdrawal operates in the select withdrawal period.

Decrement Timing Normal and early retirement decrements for the Teachers group are

assumed to occur at the beginning of the year. All other decrements

were assumed to occur mid-year.

Eligibility Testing Eligibility for benefits is determined based upon the age nearest

birthday and service nearest whole year on the date the decrement is

assumed to occur.

Forfeitures None

Gain Sharing When the plan becomes 85% funded, current statutes provide that

> 100% of investment return above 10.5% is to be transferred to the Special Account. Projections based on valuation assumptions suggest that this may begin to occur in approximately 2029. This effect was not included in the valuation and was judged to be small due to the length of time before gainsharing occurs. This is based

upon current statutes.

Incidence of Contributions Contributions are assumed to be received continuously throughout

> the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are

made.

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Liability Adjustments Normal, early and vesting retirement liabilities are increased by

7.5%, 8.5%, 10.6% and 11.2% for Employees, Teachers, Police and

Fire respectively to account for lump sum payouts.

Marriage Assumption Group I: 80% of males and 80% of females are assumed to be

married for purposes of death-in-service benefits. Group II: 50% of males and 50% of females are assumed to be married for purposes of death-in-service and death after retirement benefits. Male spouses are assumed to be three years older than female spouses for active

member valuation purposes.

Normal Form of Benefit Group I: The assumed normal form of benefit is a straight life

benefit. Group II: The assumed normal form of benefit is straight life for single members and joint and 50% survivor for married

members.

Pay Increase Timing Beginning of (Fiscal) year. This is equivalent to assuming that

reported pays represent amounts paid to members during the year

ended on the valuation date.

Service Credit Accruals

It is assumed that members accrue one year of service credit per

year.



Statute Amended and Restated under New Hampshire Revised Statutes

Annotated (RSA) Chapter 100-A. Most recently amended under

legislation passed in the year ending June 30, 2007.

Effective Date July 1, 1967

Plan Year July 1 through June 30

Type of Plan Qualified, governmental defined benefit retirement plan; for GASB

purposes it is a single plan for financial reporting purposes.

Eligibility Requirements Any employee or teacher becomes a Group I member as a condition

of employment. Membership is optional for elected officials, officials appointed for fixed terms, unclassified state employees or

employees of the general court.

Creditable Service Service measured from date of employment to date of retirement or

prior termination plus service credited under one or more of the

predecessor systems.

Earnable Compensation Full base rate of compensation paid plus any overtime pay, holiday

and vacation pay, sick pay, longevity or severance pay, cost of living bonus, additional pay for extracurricular and instructional activities or for other extra or special duty, and other compensation paid to the member by the employer, plus the fair market value of non-cash compensation such as meals or living quarters if subject to federal income tax. Earnable compensation in the final 12 months prior to termination shall be limited to 1 ½ times the higher of the earnable compensation in the 12 month period preceding the final 12 months

or the highest compensation year excluding the final 12 months.

Average Final Compensation

(AFC)

Average annual earnable compensation during the highest 3 years of

creditable service.

Service Retirement

Eligibility: Age 60 years.

Benefit: A member annuity that is the actuarial equivalent of the member's accumulated contributions plus a state annuity.

Prior to age 65, the state annuity, together with the member annuity, shall be equal to $1/60^{th}$ of AFC times creditable service.

After age 65, the state annuity, together with the member annuity, shall be equal to 1/66th of AFC times creditable service.

Normal Form: straight life annuity.

Early Retirement

Eligibility: Completion of 20 years of creditable service and age plus service at least 70, or attainment of age 50.

Benefit: Service Retirement Benefit accrued to date of retirement, reduced for each month prior to age 60 by 1/8 of 1% if the member has 35 years or more of creditable service, by 1/4 of 1%t if the member has 30 years but less than 35, by 1/3 of 1% if the member has at least 25 years but not 30, by 5/12 of 1% if the member has at least 20 years but not 25, and by 5/9 of 1% if the member has less than 20 years of creditable service.

Ordinary Disability

Eligibility: 10 or more years of creditable service.

Benefit: Service Retirement Benefit if at least age 60. Under age 60, a member annuity plus state annuity that shall be equal to 1.5% times AFC times years of creditable service. The disability retirement allowance shall not be less than 25% of AFC.

Accidental Disability

Eligibility: Permanently disabled in the performance of duty.

Benefit: Service Retirement Benefit if at least age 60, not less than 50% of AFC. Under age 60, a member annuity plus state annuity that shall be equal to 50% times AFC.

Accidental Death Benefits Eligibility: Accidental death in the performance of duty.

Benefit: 50% times AFC.

Ordinary Death Benefits Eligibility: Death other than accidental death

Benefit: If 10 years creditable service or eligible for service retirement, surviving spouse receives 50% of the service retirement benefit until death or remarriage. If no surviving spouse, designated beneficiary receives a lump sum equal to the greater of \$3,600 or the member's annual compensation.

member's annual compensation.

If less than 10 years creditable service and not eligible for service retirement, the member's spouse or designated beneficiary receives a lump sum equal to the greater of \$3,600 or the member's annual compensation.

Post Retirement Death

Not applicable.

Optional Forms

Each of the following options shall be of equivalent actuarial value to the allowance payable in the absence of election of an option.

Option 1. Full cash refund.

Option 2. 100% Joint and Survivor. Option 3. 50% Joint and Survivor. Option 4. Other Joint and Survivor.

Vested Termination

If a member terminates with less than 10 years of service, the Member's own contributions are refunded. If a Member terminates with 10 or more years of service, the Member either receives his service retirement or reduced early service retirement benefit beginning at any age after age 50 or the member may apply for a refund of accumulated contributions.

Refunds

- 1. Termination for reasons other than retirement or death and the member has not elected a vested deferred retirement benefit.
- 2. Upon death in service other than accidental death described above, the member's accumulated contributions are payable to the beneficiary or estate.
- 3. Upon death prior to age 60 of a member electing vested deferred retirement, the member's accumulated contributions are payable to the beneficiary or estate.
- 4. Upon death of a retired member prior to electing an optional allowance, any excess of the member's accumulated contributions at retirement over the sum of retirement allowance payments received.

Member Contributions

5% of compensation

Employer Contributions

As prescribed in RSA 100-A:16.

Cost of Living Increases

Provided annually by the legislature out of a special reserve (Special Account) pursuant to RSA 100-A:41-a.

Other Ancillary Benefits

There are no ancillary benefits - retirement type benefits not required by statutes but which might be deemed a liability if continued beyond the availability of funding by the current funding source.

Statute Amended and Restated under New Hampshire Revised Statutes

Annotated (RSA) Chapter 100-A. Most recently amended

under legislation passed in the year ending June 30, 2007.

Effective Date July 1, 1967

Plan Year July 1 through June 30

Type of Plan Qualified, governmental defined benefit retirement plan; for

GASB purposes it is a single plan for financial reporting

purposes.

Eligibility Requirements Any permanent policeman or permanent fireman becomes a

Group II member as a condition of employment.

Creditable Service Service measured from date of employment to date of

retirement or prior termination plus service credited under one

or more of the predecessor systems.

Earnable Compensation Full base rate of compensation paid plus any overtime pay,

holiday and vacation pay, sick pay, longevity or severance pay, cost of living bonus, additional pay for extracurricular and instructional activities or for other extra or special duty, and other compensation paid to the member by the employer, plus the fair market value of non-cash compensation such as meals or living quarters if subject to federal income tax. Earnable compensation in the final 12 months prior to termination shall be limited to 1 ½ times the higher of the earnable compensation in the 12 month period preceding the final 12 months or the

highest compensation year excluding the final 12 months.

Average Final Compensation

(AFC)

Average annual earnable compensation during the highest 3

years of creditable service.

Service Retirement

Eligibility: Age 45 and 20 years of creditable service or age 60.

Benefit: A member annuity that is the actuarial equivalent of the member's accumulated contributions plus a state annuity.

The state annuity, together with the member annuity, shall be equal to 2-1/2% of AFC times creditable service up to 40 years.

A member retiring at age 45 with 20 years of service shall receive a minimum annual service retirement allowance of \$10,000.

Normal Form: straight life annuity (with surviving spouse's benefit payable as described under post-retirement death benefit).

Ordinary Disability

Eligibility: 10 or more years of creditable service.

Benefit: Service Retirement Benefit. The disability retirement allowance shall not be less than 25% of AFC.

Accidental Disability

Eligibility: Permanently disabled in the performance of duty.

Benefit: A member annuity plus state annuity that shall be equal to 2/3 of AFC. If a member has more than 26-2/3 years of service, a supplemental disability benefit equal to 2-1/2% of AFC times years of creditable service in excess of 26-2/3 years but not in excess of 40 years.

Accidental Death Benefits

Eligibility: Accidental death in the performance of duty.

Benefit: 50% times AFC.

Ordinary Death Benefits

Eligibility: Death other than accidental death

Benefit: If 10 years creditable service or eligible for service retirement, surviving spouse receives 50% of the service retirement benefit until death or remarriage. If no surviving spouse, designated beneficiary receives a lump sum equal to the greater of \$3,600 or the member's annual compensation.

If less than 10 years creditable service and not eligible for service retirement, the member's spouse or designated beneficiary receives a lump sum equal to the greater of \$3,600 or the member's annual compensation.

Post Retirement Death

Retired prior to April 1, 1987, lump sum of \$3,600 or in the case of accidental disability, 50% of the accidental disability benefit payable to surviving spouse.

Retired on or after April 1, 1987, benefit payable to surviving spouse until death or remarriage equal to 50% of the member's service, ordinary disability or accidental disability retirement allowance plus a lump sum as defined below.

Retired on or after April 1, 1987, but before July 1, 1988, hired before July 1, 1988, lump sum of \$3,600.

Retired on or after July 1, 1988, hired before July 1, 1988, lump sum of \$10,000.

Retired on or after July 1, 1988, hired on or after July 1, 1988 but before July 1, 1993, lump sum of \$3,600.

Optional Forms

Each of the following options shall be of equivalent actuarial value to the straight life allowance payable in the absence of election of an option.

Option 1. Full cash refund.

Option 2. Not applicable.

Option 3. 50% Joint and Survivor.

Option 4. Other Joint and Survivor, not to exceed 50%.

Vested Termination

If a member terminates with less than 10 years of service, the Member's own contributions are refunded. If a Member terminates with 10 or more years of service, the Member either receives his service retirement at any age after age 45 provided the member would have completed 20 years of creditable service or age 60 or the member may apply for a refund of accumulated contributions.

Refunds

- 1. Termination for reasons other than retirement or death and the member has not elected a vested deferred retirement benefit.
- 2. Upon death in service other than accidental death described above, the member's accumulated contributions are payable to the beneficiary or estate.
- Upon death prior to commencement of benefits of a member electing vested deferred retirement, the member's accumulated contributions are payable to the beneficiary or estate.
- 4. Upon death of a survivor of a member retired on accidental disability with spouse receiving accidental disability survivor benefits, the excess of the member's accumulated contributions at retirement over the sum of payments received.
- 5. Upon death of a retired member prior to electing an optional allowance, any excess of the member's accumulated contributions at retirement over the sum of retirement allowance payments received.

Member Contributions

9.3% of compensation

Employer Contributions

As prescribed in RSA 100-A:16.

Cost of Living Increases

Provided annually by the legislature out of a special reserve (Special Account) pursuant to RSA 100-A:41-a.

Other Ancillary Benefits

There are no ancillary benefits - retirement type benefits not required by statutes but which might be deemed a liability if continued beyond the availability of funding by the current funding source.

History of Recent Changes in Plan Provisions

2007 Legislative Session:

Legislation was enacted in the 2007 legislative session which:

- (a) Establishes that the maximum retirement benefit granted under RSA 100-A:5 or RSA 100-A:6 shall not exceed 100 percent of the member's highest year of earnable compensation.
- (b) Adds one person representing management in local government to the System's Board of Trustees.
- (c) Establishes that seven trustees constitute a quorum for the transaction of any business and that the Board chairman shall be a non-voting member except in the event of a tie vote.
- (d) Changes the System's actuarial funding methodology from open group aggregate to entry age normal.
- (e) Changes the amortization period for the System's unfunded accrued liability from 20 years to 30 years or the maximum period allowed by the Governmental Accounting Standards Board.
- (f) Restricts any assets from being transferred to the Special Account until such time as the actuary determines that the funded ratio of the consolidated retirement system as of June 30 of any given year is equal to or greater than 85%. Upon achievement of the 85% funded ratio, only returns in excess of 10 and one half percent will be allocated to the Special Account.
- (g) Removes a provision in RSA 100-A16 II(h) that restricted the granting of additional benefits, other than COLA's, from being funded by Special Account assets unless there were reserves in the Special Account sufficient to pay for three years of COLA's at 5.0% per year.
- (h) Establishes that effective July 1, 2008, and as calculated each year thereafter, the annual employer contribution requirements shall not be less than the employee contribution rates specified under RAS 100-A-16, I(a).
- (i) Provided a 2.25% COLA for Employees, Teachers, Police Officers and Firefighters who retired prior to July 1, 2006, effective July 1, 2007.
- (j) Established a commission to make recommendations to ensure the long-term viability of the System.
- (k) Repealed the option to purchase nonqualified service credit in the System.

Medical Plan Provisions

The following Group I members and their qualified spouses are eligible for coverage under the postretirement medical plan. Any certifiably dependent child with a disability living in the household and being cared for by the qualified retired member, member's spouse, or qualified surviving spouse would also qualify:

- Employee and teacher members of political subdivisions who retire on or before July 1, 2008, on Service, Early Service, Vested Deferred or Ordinary Disability retirement would become eligible for the medical subsidy at age 60 with at least 20 years of creditable service; or as early as age 55 with at least 30 years of creditable service.
- Employee and teacher members of political subdivisions who retired on Accidental Disability Retirement on or before July 1, 2004.
- Employee members of the State who retired on or before July 1, 2004, on Service, Ordinary Disability or Vested Deferred Retirement would become eligible for the medical subsidy at age 60 with at least 20 years of creditable service; or as early as age 55 with at least 30 years of creditable service.
- Employee and teacher members of political subdivisions who retire on or before July 1, 2008, on Service, Early Service, Vested Deferred or Ordinary Disability retirement after completing at least 20 years of creditable service and who subsequently attain age 60 or after completing at least 30 years of creditable service and who subsequently attain age 55.
- Surviving spouses of deceased employee and teacher members of political subdivisions who die while in service, provided that such surviving spouse was covered as the member's spouse in the employer-sponsored plan before the member's death and is entitled to a monthly allowance under Accidental Death, Ordinary Death, or an Optional Allowance.
- Surviving spouses and children of employee and teacher members of political subdivisions who die as the natural and proximate result of injuries suffered while in the performance of duty. Eligibility for the medical subsidy ceases when the dependent child attains age 18 or age 23, if attending school on a full-time basis, or upon the spouse's remarriage.
- Surviving spouses and children of employee members of the State who died as the natural and proximate result of injuries suffered while in the performance of duty. Payment of the subsidy ceases when (i) the dependent child attains age 18 or age 23, if attending school on a full-time basis, or (ii) the spouse remarries.

- Vested terminated employee members of the State (and spouses) who completed at least 20 years of creditable service and prior to July 1, 2004 receives an allowance and who subsequently attains age 60.
- Employee members of the State (and spouses) who retire after completing at least 20 years of creditable service and who subsequently attains age 60 before July 1, 2004 or after completing at least 30 years of creditable service and who subsequently attains age 55 before July 1, 2004.
- Surviving spouses of deceased employee members of the State who died while in service on or before July 1, 2004, provided that such surviving spouse was covered as the member's spouse in the employer-sponsored plan before the member's death and is entitled to a monthly allowance under Accidental Death, Ordinary Death, or an Optional Allowance.

The following Group II members are eligible for the postretirement medical premium subsidy:

- Active or Retired Group II police officer members (or beneficiaries) as of June 30, 2000.
- Active or Retired Group II firefighter members (or beneficiaries) as of June 30, 2000.
- Persons who prior to July 1, 1988 had completed at least 20 years of Group II service and are eligible as of July 1, 1993 for a vested deferred retirement benefit.
- Group II members retired as of July 1, 1991 with a split benefit under RSA 100-A:19-c who have at least 10 years of Group II service.
- Group II members as of June 30, 2005 who subsequently became disabled while in the performance of duty at any time in the future.
- Surviving spouses of deceased Group II members who retired prior to April 1, 1987 and who are not receiving a monthly allowance.

The System subsidy covers the retired member's spouse and any of the retired member's certifiably dependent and disabled children.

SECTION H

GLOSSARY

Glossary

Actuarial Accrued Liability (AAL)

The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.

Actuarial Assumptions

Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members; and other items.

Actuarial Cost Method

A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of future Normal Costs and the Actuarial Accrued Liability.

Actuarial Equivalent

Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.

Actuarial Present Value (APV)

The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.

Actuarial Present Value of Future Benefits (APVFB)

The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits, and inactive, nonretired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Actuarial Valuation

The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB Statement No. 25, such as the Funded Ratio and the Annual Required Contribution (ARC).

Actuarial Value of Assets

The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution (ARC).

Glossary

Amortization Method

A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.

Amortization Payment

That portion of the plan contribution or ARC which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

Amortization Period

The period used in calculating the Amortization Payment.

Annual Required Contribution (ARC)

The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation, determined under GASB Statement No. 25. The ARC consists of the Employer Normal Cost and Amortization Payment.

Closed Amortization Period

A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.

Employer Normal Cost

The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.

Equivalent Single Amortization Period

For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.

Experience Gain/Loss

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. On the other hand, losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.

Glossary

Funded Ratio The ratio of the Actuarial Value of Assets to the Actuarial Accrued

Liability.

GASB Governmental Accounting Standards Board.

GASB No. 25 and GASB No. 27 These are the governmental accounting standards that set the accounting rules for public retirement systems and the employers that sponsor or contribute to them. Statement No. 27 sets the accounting rules for the employers that sponsor or contribute to public retirement systems, while Statement No. 25 sets the rules for the

systems themselves.

Normal Cost The annual cost assigned, under the Actuarial Cost Method, to the

current plan year.

Open Amortization Period An open amortization period is one which is used to determine the

Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar

amount or in relation to covered payroll.

Unfunded Actuarial Accrued Liability

The difference between the Actuarial Accrued Liability and

Actuarial Value of Assets.

Valuation Date The date as of which the Actuarial Present Value of Future Benefits

are determined. The benefits expected to be paid in the future are

discounted to this date.