Sot Annual Report
Fiscal Year Ended June 30, 2007


# Teachers' Retirement System of the City of New York 

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# Introduction 

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TEACHERS' RETIREMENT BOARD TEACHERS' RETIREMENT SYSTEM
55 WATER STREET, NEW YORK, N.Y. 10041

December 31, 2007

Board of Trustees<br>Teachers' Retirement System of the City of New York (TRS)<br>55 Water Street<br>New York, NY 10041

TRS celebrated 90 years of service during Fiscal Year 2007. We are proud to report that our founding principle remains solid today: to provide a secure, defined-benefit pension to our members through the Qualified Pension Plan (QPP). The financial stability of our Plan this fiscal year served to further assure our members of a guaranteed retirement benefit. In addition, the Tax-Deferred Annuity (TDA) Program, our supplemental defined-contribution plan, also remained strong, continuing to attract nearly two-thirds of TRS' in-service membership.

Now in our tenth decade of serving the educators of New York City, we remain committed to providing exceptional levels of service to our 178,000 in-service members, retirees, and beneficiaries, as well as to their employers and our stakeholders. Below is an overview of the financial performance of our QPP and TDA Program during Fiscal Year 2007, followed by a summary of significant developments that affected TRS and our members during the year.

## Financial and Investment Overview

TRS' investment returns reflect the upswing in U.S. market conditions during Fiscal Year 2007. As a result, total assets in the QPP increased from $\$ 40.02$ billion in Fiscal Year 2006 to $\$ 46.09$ billion this fiscal year. Total assets in the TDA Program grew from $\$ 15.46$ billion in the previous year to $\$ 18.48$ billion in Fiscal Year 2007. The Pension Fund and Variable A Annuity Program yielded annual returns of 17.46\% and $20.16 \%$, respectively, an increase over the previous year's returns of $9.95 \%$ and $11.75 \%$. The Variable B Annuity Program continued strong with a $4.12 \%$ return, compared with the previous year's yield of $3.76 \%$.

## Major Initiatives and Objectives

During Fiscal Year 2007, we undertook several major initiatives and made significant strides toward achieving our strategic planning objectives. One of these was the completion of the first phase of our service credit automation initiative, which enabled us to be more responsive to members' requests for service or transferred credit.

A City-wide initiative introduced a new payroll system this fiscal year that provided retirees with benefits such as quicker activation of Electronic Fund Transfer (EFT) for their monthly payments and more detailed payment information. In addition, TRS improved EFT for new retirees, allowing them to immediately receive all retirement benefit payments, including advance payments, electronically.

Also during Fiscal Year 2007, we completed the development of a web- and phone-based member satisfaction survey (released in early Fiscal Year 2008), the first stage of an ongoing and multilayered effort to gauge member satisfaction and improve the products and services we offer our members.

In addition, thanks to legislation that became effective during Fiscal Year 2007, our members now have additional benefits: Participants in TRS' TDA Program will now see their TDA contributions processed more quickly, and members' non-spouse beneficiaries may now direct eligible distributions from qualified plans such as TRS' QPP and TDA Program to Inherited Individual Retirement Accounts (IRAs) or eligible Section 403(b) Programs.

We anticipate that member satisfaction and service levels will be further enhanced as we complete several large-scale initiatives currently underway. We are happy to report significant progress on these long-term projects and look forward to seeing their implementation in the near future. These include a major expansion of the investment choices we offer members, the increased automation of service credit processing, and an upgrade of our system. This last initiative will not only address our internal goals of a simplified and more flexible processing system, but will also benefit members by enabling us to more quickly and efficiently respond to and process member information.

A discussion of our major initiatives and objectives would not be complete without mentioning data security. TRS continues to view the security of our members' personal information as a top priority. During Fiscal Year 2007, we engaged an industry-leading data security firm to assess our data security measures. During Fiscal Year 2008, we continue to monitor the status of our security precautions to ensure that we are employing the strictest possible policies and practices.

## Acknowledgements

As always, we thank the Trustees of the Teachers' Retirement Board for their support and dedication, and we thank the entire staff of TRS for its commitment and diligence. We also thank the Office of the Comptroller for its investment services, the Office of the Actuary for its actuarial services, and the City's Corporation Counsel for its legal services.

We are pleased to present you with this $90^{\text {th }}$ Annual Report. On the next several pages, we have summarized the fiscal year's most important financial and membership data. In other sections of the book, you will find detailed statistical, financial, and actuarial information. We hope that you find this material informative.


Nelson Serrano
Executive Director


Paul J. Raucci
Chief Accountant

## CHIEF ACCOUNTANT'S CERTIFICATION

The management of the Teachers' Retirement System of the City of New York (TRS) is responsible for establishing and maintaining an internal control structure designed to provide reasonable assurance that TRS' assets are protected from loss, theft, or misuse, and that adequate accounting data are compiled to allow for the preparation of financial statements in conformity with generally accepted accounting principles. The concept of reasonable assurance recognizes that:

- the cost of a control should not exceed the benefits likely to be derived from it; and
- the valuation of costs and benefits requires estimates and judgment by management.

I hereby certify that the following consolidated financial statements and attached schedules of the Qualified Pension Plan and the Tax-Deferred Annuity Program were prepared under the direction and supervision of the Chief Accountant, that they give a complete and correct exhibit of TRS' financial operations from July 1, 2006 to June 30, 2007, and that on June 30, 2007, the assets and liabilities were as enumerated to the best of my knowledge and belief.


Paul J. Raucci
Chief Accountant
Teachers' Retirement System of the City of New York

## PRINCIPAL ADVISORS

TEACHERS' RETIREMENT BOARD
Martha E. Stark, Chairperson
Melvyn Aaronson
Kathleen Grimm
Joseph Haslip
Sandra March
Mona Romain

## MEDICAL BOARD

Laura Brumberg, m.d.
Alan David, M.D.
Walter F. Pizz, M.D.
CHIEF ACTUARY
Robert C. North, Jr.

## PRINCIPAL OFFICIALS



## FINANCIAL HIGHLICHTS

(In Thousands)

## QUALIFIED PENSION PLAN (QPP)

Total Assets (As of June 30)
Total Investments
Total Receivables, Cash, and Other Assets
Total Liabilities (As of June 30)
Net Assets Held in Trust for Pension Benefits (As of June 30)
Total Revenue (For the Fiscal Year)

| \$ | $46,088,856$ | $\$$ | $40,022,193$ |
| :--- | ---: | ---: | ---: |
| \$ | $44,671,784$ | $\$$ | $38,573,430$ |
| $\$$ | $1,417,072$ | $\$$ | $1,448,763$ |
| $\$$ | $8,946,065$ | $\$$ | $7,815,476$ |
| $\$$ | $37,142,791$ | $\$$ | $32,206,717$ |
| $\$$ | $8,618,452$ | $\$$ | $5,130,686$ |

## TAX-DEFERRED ANNUITY (TDA) PROGRAM

Total Assets (As of June 30)
Total Investments
Total Receivables and Cash
Total Liabilities (As of June 30)
Net Assets Held in Trust for Benefits (As of June 30)
Total Revenue (For the Fiscal Year)

| \$ | 18,475,528 | \$ | 15,460,617 |
| :---: | :---: | :---: | :---: |
| \$ | 18,132,081 | \$ | 15,217,609 |
| \$ | 343,448 | \$ | 243,007 |
| \$ | 2,095,531 | \$ | 1,340,379 |
| \$ | 16,379,997 | \$ | 14,120,238 |
| \$ | 2,640,847 | \$ | 1,867,867 |

## TOTAL REVENUE (In Thousands)



## Providing Retirement Benefits

TThe Teachers' Retirement System of the City of New York (TRS) was established on August 1, 1917 and has since grown into one of the 30 largest pension funds in the U.S. Our programs impact over 178,000 in-service members, retirees, and beneficiaries. Our mission is to "provide retirement, disability, and death benefit services to our members, including the efficient collection of contributions, the prudent investment of retirement funds, the responsible disbursement of member benefits, and the delivery of exceptional levels of member service."

Among the many services we provide our membership, TRS' primary responsibility remains managing and distributing our members' retirement benefits. In order to receive a retirement allowance, all TRS members participate in the Qualified Pension Plan (QPP), a retirement plan administered under Section 401(a) of the Internal Revenue Code. The QPP combines features of a defined-benefit pension plan with those of a defined-contribution pension plan.

Contributions to the QPP totaled $\$ 1,766.529$ million during the 2007 Fiscal Year. Employer contributions represented $\$ 1,622.743$ million, while the remaining $\$ 143.786$ million came from member contributions. As of the end of the fiscal year, 109,868 members were on payroll. Accordingly, the average employer contribution was $\$ 14,770$ per member and the average member contribution was $\$ 1,309$.

TOTAL CONTRIBUTIONS-QPP
2007 Fiscal Year-\$1,766.529 Million


At the end of the 2007 Fiscal Year, 68,492 members and beneficiaries were receiving QPP retirement allowances totaling $\$ 2.93$ billion. The chart below organizes this information by members' type of retirement.
$\left.\begin{array}{lrrrrr}\hline \text { RETIREMENT ALLOWANCES UNDER THE QPP } \\ & \text { As of June 30, 2007 }\end{array}\right]$

TRS' ability to fund QPP retirement benefits remained strong, with $\$ 37.14$ billion of net assets held in trust for pension benefits as of June 30, 2007.

NET ASSETS HELD IN TRUST FOR PENSION BENEFITS-QPP
(In Billions)


## Introduction

While members are required to make QPP contributions, their participation in the Tax-Deferred Annuity (TDA) Program is optional. A defined-contribution plan under Section 403(b) of the Internal Revenue Code, the TDA Program allows in-service members to defer taxes on the portion of their salary that they invest. The TDA Program is funded exclusively through members' contributions, interest earned, and investment returns. As of the end of the fiscal year, 71,113 members were contributing to the TDA Program through salary deductions.

## MEMBER PARTICIPATION IN THE TDA PROGRAM As of June 30, 2007



* This total includes members who have made TDA contributions but were not contributing as of June 30, 2007.

This year's figure, representing $65 \%$ of TRS' in-service membership, indicates that our members continue to understand the importance of actively planning for their financial future.

MEMBERS MAKING TDA CONTRIBUTIONS


At retirement, TDA participants may elect to receive their TDA funds as an annuity separate from their QPP retirement allowance. At the end of the 2007 Fiscal Year, 4,140 members and beneficiaries (or $6.04 \%$ of those receiving QPP allowances) were receiving TDA annuities; these annuities totaled $\$ 42.3$ million. The chart below organizes this TDA information by members' type of retirement under the QPP.

| ANNUITIES UNDER THE TDA PROGRAM <br> As of June 30, 2007 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Service | Ordinary Disability | Accident <br> Disability | Beneficiary |
| Retirees and Beneficiaries Receiving TDA Annuities | 3,123 | 249 | 32 | 736 |
| Total Annual Annuities Paid | \$ 33,805,136 | \$ 1,972,707 | \$ 168,521 | \$ 6,380,866 |
| Average Annual Annuity | \$ 10,825 | \$7,923 | \$ 5,266 | \$ 8,670 |

TRS' ability to fund TDA benefits also remained extremely strong, with $\$ 16.38$ billion of net assets held in trust for TDA benefits as of June 30, 2007.

## NET ASSETS AVAILABLE FOR BENEFITS-TDA PROGRAM (In Billions)



## Introduction

## Offering Investment Choices

TThrough the Qualified Pension Plan (QPP), TRS provides retirement allowances to our members. Through the Tax-Deferred Annuity (TDA) Program, we enable members to build additional personal savings for retirement. Three investment options are available under these plans: the Fixed Annuity Program, Variable A Annuity Program, and Variable B Annuity Program.

The three portfolios are structured differently (see pages 15-18 for descriptions) to allow members to diversify and customize their investments.

| PENSION FUND | VARIABLE A FUND | VARIABLE B FUND |
| :---: | :---: | :---: |
| (Member Contributions, <br>  <br> ITHP Contributions) |  <br> ITHP Contributions) |  <br> ITHP Contributions) |
| Tiers I/II QPP funds <br> in the <br> Fixed Annuity Program <br> + | Tiers I/II QPP funds <br> in the <br> Variable A Annuity Program | Tiers I/II QPP funds <br> in the |
| All Tiers III/IV QPP funds <br> + | Variable B Annuity Program |  |
| All Tiers' TDA funds <br> in the | All Tiers' TDA funds <br> in the |  |
| Fixed Annuity Program |  |  |

Note: Members' QPP accounts receive additional contributions from their employer: "Pension Reserve" funds, which are invested in the Pension Fund, are provided to all members on a statutory basis consistent with generally accepted actuarial principles; actuarial variations are performed annually as of June 30. "Increased-Take-Home Pay" (ITHP) funds, provided by the City of New York to Tier I and Tier II members only, are invested according to member designation in any combination of the three investment programs.

ANNUALIZED INVESTMENT PERFORMANCE


- The Pension Fund yielded a $17.46 \%$ return; participants in the Fixed Annuity Program continued to receive a guaranteed $8.25 \%$ return.
- The Variable A Fund yielded a $20.16 \%$ return, and Variable A's unit value increased from \$64.128 in July 2006 to \$74.093 in July 2007.
- The Variable B Fund yielded a $4.12 \%$ return, and Variable B's unit value increased from \$19.434 in July 2006 to \$19.456 in July 2007.

Note: The July unit values were based on the portfolios' returns as of June 30 .

The table below compares accumulations as of June 30, 2007, based on an assumed contribution of $\$ 100.00$ per month into each of the Fixed, Variable A, and Variable B Annuity Programs.

Accumulations in the Variable Annuity Programs are affected by the monthly fluctuation of the Programs' unit values. The Fixed Annuity Program currently guarantees an annual 8.25\% return.

# FIXED, VARIABLE A, AND VARIABLE B ANNUITY PROGRAM PERFORMANCE COMPARISON <br> As of June 30, 2007 



## Pension Fund

Performance Highlights
Return: 17.46\%
Total Investments: \$39.288 Billion

During Fiscal Year 2007, the Pension Fund's portfolio, consisting primarily of equities and fixed-income instruments, yielded a return of $17.46 \%$ after fees and expenses. This was an increase from the 9.95\% return for Fiscal Year 2006.
The Pension Fund includes all Fixed Annuity Program funds in the Qualified Pension Plan (QPP) and the Tax-Deferred Annuity (TDA) Program, and all Tiers III/IV QPP funds. The Fixed Annuity Program offers a guaranteed rate of return set by the New York State Legislature, in accordance with applicable laws. The current $8.25 \%$ annual rate is guaranteed through June 30, 2009.
The Comptroller of the City of New York invests the Pension Fund's holdings in a diversified portfolio, as authorized by the Teachers' Retirement Board. This portfolio consists of U.S. and international equities and fixed-income instruments with smaller allocations to private equity and real estate investments.
A percentage breakdown of the Pension Fund by asset class appears on page 19.

## PENSION FUND ANNUAL RATE OF RETURN*

Year Ended June 30


Variable A Fund<br>Performance Highlights

Return: 20.16\%
Total Investments: \$15.150 Billion

For the fiscal year ended June 30, 2007, Variable A returned $20.16 \%$ after fees and expenses. Variable A is invested in a diversified blend of investments that historically has made it less volatile than the overall U.S. equity market. Variable A slightly underperformed the composite benchmark's return of $20.63 \%$. The composite benchmark, which includes no fees, provides a passive reflection (updated semi-annually) of Variable A's actual asset allocation among major asset categories, such as domestic stocks, domestic fixed-income securities, and international equities.

As of June 30, 2007, approximately $84.6 \%$ of Variable A's portfolio was invested in the U.S. common stock market. Variable A's portfolio also contained approximately $15.2 \%$ in international stocks and approximately $0.2 \%$ in fixed-income securities, which contributed to portfolio diversification.

- The Passive Core sector returned $20.17 \%$, slightly overperforming the Russell 3000 Index's return of $20.07 \%$.
- The Active Domestic Equity sector returned $18.74 \%$, underperforming the Russell 3000 Index by 133 basis points ( $1.33 \%$ ). This sector is predominately allocated to the riskcontrolled composite, which returned $18.19 \%$. A smaller allocation to the eclectic composite returned $20.39 \%$.
- The Defensive Strategies sector earned $17.56 \%$, significantly overperforming the sector's benchmark ( $60 \%$ S\&P 500/40\% Lehman Brothers Long Treasury Bond Index), which returned $14.65 \%$.
- The International Equity sector earned 25.68\%, underperforming its MSCI EAFE benchmark, which returned $27.54 \%$. International equity is included in the portfolio to diversify the overall mix within Variable A. A percentage breakdown of the Variable A Fund by asset class appears on page 19 .



# Variable B Fund <br> Performance Highlights 

Return: 4.12\%
Total Investments: $\mathbf{\$ 0 . 4 2 2}$ Billion

Variable B's portfolio earned 4.12\% after fees and expenses for the fiscal year ended June 30, 2007. Variable B's return underperformed the Ryan Three-Year GIC Index, which yielded a return of $4.19 \%$. This index measures the average of monthly yields for three-year Guaranteed Investment Contracts (GICs) issued by high-quality insurance companies. Variable B, which is valued at cost or book value, underperformed a market-valued benchmark, the Merrill Lynch 1-3 Year Treasury Index. This index had a 5.07\% annual return.

Consistent with its objectives, Variable B's assets are invested in a well-diversified portfolio of stablevalue investments, such as conventional and synthetic GICs. Conventional GICs are securities, issued by high-quality life insurance companies, which usually carry a fixed rate of interest for a stated time.

Synthetic GICs are also stable-value investments, but they consist of a single high-quality bond, or a portfolio of high-quality bonds, combined with a "wrapper." A wrapper is an insurance contract, issued by a high-quality financial institution, which ensures that participants can withdraw their money at book value (principal plus interest). A percentage breakdown of the Variable B Fund by asset class appears on page 19.

## VARIABLE B FUND ANNUAL RATE OF RETURN* <br> Year Ended June 30



[^0]

VARIABLE A FUND


VARIABLE B FUND


## A Portrait of Our Members

Our membership includes individuals of varying ages, tiers, and employment status. And although many TRS members are currently in active service, approximately one-third of them are retired. The following demographic data provide a snapshot of our membership as of June 30, 2007.

## In-Service Members

As of June 30, 2007, there were 109,868 in-service members. Following is some basic information about these active members receiving salaries.

Average Age of In-Service Members: $\quad 44.6$ years


* Tiers are classifications that determine the benefits for which members may be eligible. Tier status generally depends on when an individual last became a TRS member.

IN-SERVICE MEMBERSHIP BY TITLE


[^1]
## Retired Members

As of June 30, 2007, there were 64,773 retired TRS members. Some statistics related to these members are below.

## Average Age of Members at Retirement Date: 60.5 years

## Retirement Payment Options Chosen by TRS Retirees

When TRS members retire, they receive a lifetime allowance under the QPP. Members may choose to receive a reduced allowance in order to provide for one or more beneficiaries. TRS offers a variety of retirement payment options to meet our members' needs. The categories of payment options chosen by TRS members retiring during Fiscal Year 2007 are displayed below, followed by a brief description.

## OPTIONS CHOSEN BY TIERS I/II MEMBERS



OPTIONS CHOSEN BY TIERS IIIV MEMBERS


## Categories of Retirement Payment Options

Maximum Payment-Member receives highest monthly payments, but does not provide for beneficiary.
Lump-Sum Payment (Tiers I/II only)—Member's beneficiary receives payment in a lump sum.
Guaranteed Number of Payments-A specific number of retirement allowance payments is assured.
Continuing Payments-Lifetime monthly payments are made to beneficiary.
Pop-Up Payments-Member's payments increase to maximum allowed if beneficiary predeceases member.

# Statistical Section 

Membership Information<br>25<br>Investment Information<br>29

In the Introduction to this Annual Report, we highlighted some of TRS' key membership Land investment information for Fiscal Year 2007. This Statistical Section supplements that information and provides more detailed data not presented as part of the financial statements.

## IN-SERVICE MEMBERS ON PAYROLL-DISTRIBUTION BY AGE As of June 30, 2007



## IN-SERVICE MEMBERSHIP

In-Service Membership as of June 30, 2006 109,992
Contributors Registered in Fiscal Year 2007 10,299
Contributors Withdrawn in Fiscal Year $2007 \quad(10,423)$
IN-SERVICE MEMBERSHIP AS OF JUNE 30, 2007 109,868

Note: These figures include only current in-service members receiving salaries as of each June 30.

## RETIRED MEMBERSHIP

Retired Membership as of June 30, 2006
63,961
Members Registered in Fiscal Year 2007 for Retirement 2,717
Members Withdrawn in Fiscal Year 2007 from Retirement

Note: These figures do not include the following: 3,719 beneficiaries who are receiving retirement allowances as of June 30, 2007; and retirees who are no longer receiving benefits, but have not yet been canceled from the retirement registers.


## ACCIDENT DISABILITY RETIREMENT ALLOWANCES

As of June 30, 2007

| Age | MEN <br> Number <br> of Retirees | Average <br> Annual Allowance | Age | Number <br> of Retirees | Average <br> Annual Allowance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| under 30 | 0 | - | under 30 | 0 | - |
| $30-34$ | 0 | - | $30-34$ | 1 | $\$ 26,448$ |
| $35-39$ | 0 | - | $35-39$ | 1 | 39,144 |
| $40-44$ | 1 | $\$ 44,472$ | $40-44$ | 7 | 30,255 |
| $45-49$ | 3 | 22,088 | $45-49$ | 11 | 28,287 |
| $50-54$ | 8 | 36,344 | $50-54$ | 20 | 29,315 |
| $55-59$ | 23 | 32,889 | $55-59$ | 67 | 33,826 |
| $60-64$ | 64 | 41,311 | $60-64$ | 88 | 34,789 |
| $65-69$ | 25 | 48,153 | $65-69$ | 46 | 41,332 |
| $70-74$ | 22 | 42,882 | $70-74$ | 49 | 31,528 |
| $75-79$ | 11 | 38,692 | $75-79$ | 34 | 33,892 |
| $80-84$ | 10 | 41,181 | $80-84$ | 21 | 37,220 |
| $85-89$ | 2 | 33,399 | $85-89$ | 22 | 37,912 |
| 90 \& over | 4 | 40,887 | $90 \&$ over | 5 | 28,224 |
| TOTAL | $\mathbf{1 7 3}$ | $\$ 40,560$ | TOTAL | $\mathbf{3 7 2}$ | $\$ 34,744$ |
| TOTAL ANNUAL ALLOWANCES PAID | $\$ 7,016,808$ | TOTAL ANNUAL ALLOWANCES PAID $\$ \mathbf{1 2 , 9 2 4 , 8 5 6}$ |  |  |  |

## DEATH BENEFITS-QPP

As of June 30, 2007

|  | MEN |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Number <br> of Beneficiaries | Average <br> Annual Benefit | Age | WOMEN <br> of Beneficiaries |  |  | Average <br> Annual Benefit |
| under 30 | 4 | $\$ 38,600$ | under 30 | 3 | $\$ 36,844$ |  |  |
| $30-34$ | 1 | 15,696 | $30-34$ | 1 | 23,760 |  |  |
| $35-39$ | 2 | 4,476 | $35-39$ | 0 | - |  |  |
| $40-44$ | 7 | 13,966 | $40-44$ | 1 | 25,272 |  |  |
| $45-49$ | 4 | 10,699 | $45-49$ | 13 | 11,786 |  |  |
| $50-54$ | 8 | 14,023 | $50-54$ | 10 | 11,379 |  |  |
| $55-59$ | 43 | 20,877 | $55-59$ | 32 | 25,307 |  |  |
| $60-64$ | 76 | 27,950 | $60-64$ | 126 | 33,908 |  |  |
| $65-69$ | 121 | 26,850 | $65-69$ | 138 | 35,200 |  |  |
| $70-74$ | 113 | 22,930 | $70-74$ | 207 | 33,963 |  |  |
| $75-79$ | 151 | 22,305 | $75-79$ | 329 | 32,544 |  |  |
| $80-84$ | 178 | 20,878 | $80-84$ | 438 | 29,359 |  |  |
| $85-89$ | 153 | 18,039 | $85-89$ | 467 | 26,720 |  |  |
| 90 \& over | 192 | 14,187 | $90 \&$ over | 901 | 22,495 |  |  |
| TOTAL | $\mathbf{1 , 0 5 3}$ | $\mathbf{\$ 2 0 , 7 6 1}$ | TOTAL | $\mathbf{2 , 6 6 6}$ | $\mathbf{\$ 2 7 , 6 9 5}$ |  |  |
| TOTAL ANNUAL BENEFITS PAID | $\mathbf{\$ 2 1 , 8 6 1 , 5 6 0}$ | TOTAL ANNUAL BENEFITS PAID | $\mathbf{\$ 7 3 , 8 3 5 , 2 5 2}$ |  |  |  |  |


| INVESTMENT SUMMARY—QPP <br> As of June 30, 2007 |  |  |  |
| :---: | :---: | :---: | :---: |
| Type of Investment |  | arket Value Thousands | Percent of Total Market Value |
| Fixed Income: Government Bonds Corporate Bonds Foreign Bonds | \$ | $\begin{array}{r} 3,758,304 \\ 3,629,248 \\ 399,293 \end{array}$ | $\begin{aligned} & 9.74 \% \\ & 9.40 \\ & 1.03 \end{aligned}$ |
| TOTAL FIXED INCOME | \$ | 7,786,845 | 20.17\% |
| Common Stock: Financial \& Utility Basic Industry Consumer \& Service Technological | \$ | $\begin{aligned} & 6,122,121 \\ & 6,856,250 \\ & 5,231,600 \\ & 3,401,432 \end{aligned}$ | $\begin{aligned} & 15.86 \% \\ & 17.77 \\ & 13.56 \\ & 8.81 \end{aligned}$ |
| TOTAL COMMON STOCK |  | 21,611,403 | 56.00\% |
| Alternative Investments: Guaranteed Investment Contracts (GICs) Managed Investment Contracts International Mutual Fund | \$ | $\begin{array}{r} 18,642 \\ 89,908 \\ 5,470,904 \\ 2,299,035 \end{array}$ | $\begin{gathered} 0.05 \% \\ 0.23 \\ 14.18 \\ 5.91 \end{gathered}$ |
| TOTAL ALTERNATIVE INVESTMENTS |  | 7,858,489 | 20.37\% |
| Short-Term Investments: Short-Term Investment Commercial Paper | \$ | $\begin{aligned} & 830,616 \\ & 506,769 \end{aligned}$ | $\begin{aligned} & 2.15 \% \\ & 1.31 \end{aligned}$ |
| TOTAL SHORT-TERM INVESTMENTS |  | 1,337,385 | 3.46\% |
| TOTAL |  | 38,594,122* | 100.00\% |

## TOTAL ASSET ALLOCATION*-QPP <br> As of June 30, 2007-\$38.594 Billion

Alternative Investments
$\$ 7,859$ Million
$20.36 \%$
Short-Term Investments
$\$ 1,337$ Million
$3.46 \%$
Fixed Income
$\$ 7,787$ Million
$20.18 \%$

[^2]
## INVESTMENT SUMMARY-TDA PROGRAM <br> As of June 30, 2007

| Type of Investment | Market Value <br> In Thousands |  | Percent of Total Market Value |
| :---: | :---: | :---: | :---: |
| Fixed Income: |  |  |  |
| Government Bonds | \$ | 878,786 | 5.40\% |
| Corporate Bonds |  | 848,609 | 5.22 |
| Foreign Bonds |  | 445,930 | 2.74 |
| TOTAL FIXED INCOME | \$ | 2,173,325 | 13.37\% |
| Common Stock: |  |  |  |
| Financial \& Utility | \$ | 2,452,433 | 15.08\% |
| Basic Industry |  | 4,084,921 | 25.11 |
| Consumer \& Service |  | 2,511,419 | 15.44 |
| Technological |  | 2,041,370 | 12.55 |
| TOTAL COMMON STOCK |  | 11,090,143 | 68.18\% |
| Alternative Investments: |  |  |  |
| Guaranteed Investment Contracts (GICs) | \$ | 25,108 | 0.15\% |
| Managed Investment Contracts |  | 121,092 | 0.74 |
| International |  | 1,554,169 | 9.56 |
| Mutual Fund |  | 785,515 | 4.83 |
| TOTAL ALTERNATIVE INVESTMENTS | \$ | 2,485,884 | 15.28\% |
| Short-Term Investments: |  |  |  |
| Short-Term Investments | \$ | 397,600 | 2.44\% |
| Commercial Paper |  | 118,495 | 0.73 |
| TOTAL SHORT-TERM INVESTMENTS | \$ | 516,095 | 3.16\% |
| TOTAL* |  | 16,265,447 | 100.00\% |

## TOTAL ASSET ALLOCATION*-TDA PROGRAM As of June 30, 2007-\$16.265 Billion



[^3]
## TRS' TOTAL INVESTMENTS* (BY PLAN)

## As of June 30, 2007-\$54.859 Billion



TRS' TOTAL INVESTMENTS* (BY ASSET ALLOCATION)
As of June 30, 2007-\$54.859 Billion


| Par Value |  | Interest Rate | Due Date | Market Value |
| :---: | :--- | :---: | :---: | :---: |
| $\$ 168,055,000.00$ | Federal Nat Mtg Assn \#T/B/A | $5.500 \%$ | $07 / 01 / 34$ | $\$ 162,068,040.63$ |
| $145,170,000.00$ | Federal Home Ln Mtg Corp Gold \#T/B/A | 6.000 | $07 / 01 / 34$ | $143,809,031.25$ |
| $140,940,000.00$ | Federal Nat Mtg Assn \#T/B/A | 6.000 | $07 / 01 / 34$ | $139,398,468.76$ |
| $146,920,000.00$ | Federal Home Ln Mtg Corp Gold SFM \#T/B/A | 5.000 | $07 / 01 / 35$ | $137,691,587.51$ |
| $90,305,000.00$ | Federal Home Ln Mtg Corp Gold SFM \#T/B/A | 5.500 | $07 / 01 / 34$ | $87,087,884.38$ |
| $86,000,000.00$ | Federal Nat Mtg Assn SFM \#T/B/A | 5.000 | $08 / 01 / 21$ | $83,097,500.00$ |
| $71,626,442.57$ | Federal Nat Mtg Assn Pool \#745275 | 5.000 | $02 / 01 / 36$ | $67,296,624.12$ |
| $60,600,000.00$ | Federal Nat Mtg Assn SFM \#T/B/A | 5.500 | $08 / 01 / 34$ | $58,403,250.00$ |
| $59,200,000.00$ | United States Treasury Notes | 4.500 | $03 / 31 / 12$ | $58,117,750.01$ |
| $60,521,189.56$ | Federal Nat Mtg Assn Pool \#745797 | 5.000 | $09 / 01 / 35$ | $57,009,114.93$ |


|  | EST EQUITY ASSETS MARKET VALUE) <br> As of June 30, 2007 |  |
| :---: | :---: | :---: |
| Shares | Equity | Market Value |
| 3,257,216.00 | Exxon Mobil Corp. | 273,215,278.08 |
| 5,743,453.00 | General Electric Co. | 219,859,380.84 |
| 5,188,157.00 | Microsoft Corp. | 152,894,986.79 |
| 2,929,347.00 | Citigroup Inc. | 150,246,207.64 |
| 2,909,504.00 | Bank America Corp. | 142,245,650.54 |
| 3,344,262.00 | AT\&T Inc. | 138,786,873.00 |
| 4,551,756.00 | Pfizer Inc. | 116,388,400.92 |
| 4,023,992.00 | Cisco Systems Inc. | 112,068,177.20 |
| 2,220,133.00 | JP Morgan Chase \& Co. | 107,565,438.86 |
| 1,642,807.00 | Procter \& Gamble Co. | 100,523,360.33 |
| 1,107,014.00 | Chevron Corp. | 93,254,859.36 |
| 1,445,587.00 | Johnson \& Johnson | 89,077,070.94 |
| 1,245,259.00 | American International Group, Inc. | 87,205,487.77 |
| 1,785,982.00 | Hewlett Packard Co. | 79,690,516.84 |
| 652,782.00 | Apple Computer Inc. | 79,665,515.28 |
| 1,128,505.00 | Altria Group Inc. | 79,153,340.70 |
| 2,201,858.00 | Wells Fargo \& Co. | 77,439,345.86 |
| 145,199.00 | Google Inc. - Class A | 75,895,517.30 |
| 716,432.00 | International Business Machines | 75,404,468.00 |
| 906,522.00 | ConocoPhillips | 71,161,977.16 |

Note: The above tables reflect assets of both the Qualified Pension Plan (QPP) and Tax-Deferred Annuity (TDA) Program. The complete list of the assets held by TRS' three investment programs is included in the publication Investment Portfolios.

## SUMMARY OF INVESTMENT MANAGERS

## PENSION FUND INVESTMENT MANAGERS

Equity
Aeltus Investment Management, Inc.
Ariel Capital Management, Inc.
Bank of Ireland Asset Management (U.S.) Limited
Barclays Global Investors N.A.
Capital Guardian Trust Company
Chicago Equity Partners, L.L.C.
Cony EAFE
Cony GTM EAFE
Fourth Cinven Fund
GE Asset Management, Inc.
Mellon Capital Management Corporation
Mondrian MTA
Putnam Advisory Company, L.L.C.
Relational Investors X, L.P.
Rowe Price Fleming
Schroder Investment Management N.A., Inc.
Shamrock Capital Advisors
Sprucegrove Investment Management, Ltd.
State Street
Westpeak Investment Advisors, L.P.

## Enhanced Yield / Alternative

AFL-CIO Housing Investment
Aisling Capital Partners II, L.P.
Allegra Capital Partners IV, L.P.
AMB Institutional Alliance Fund, Inc.
Apollo Investment Fund
Ares Corp. Opp Fund
Arsenal Capital Partners, II
Aurora Equity Capital Partners III
Avista Capital Partners, L.P.
BDCM Opp Fund
Blackstone Group
Blackstone Mezz Partners
Bridgepoint Europe III, L.P.
Canyon Johnson Realty Advisors
Carlyle Group
Catterton Partners VI L.P.
CCMP Capital Investors II
CD \& R Fund VII, L.P.
Celtic Pharmaceutical Holding, L.P.
City Investment Fund
Coller Investment Management, Ltd.
Colony Realty Partners GP II, L.P.
Cypress Mech BK Partners II
Erasmus NYC Growth Fund, L.P.
Ethos Private Equity Fund
Fairview Capital Partners
FdG Capital Partners, L.L.C.
First Reserve Fund XI
Freeman Spogli \& Co., Inc.
FT Ventures Fund III
GI Partners Fund II, L.P.
GSC Recovery III

## VARIABLE A INVESTMENT MANAGERS

Advent Capital Management
Alliance Capital Management, L.P.
Amalgamated Bank of New York
Barclays Global Investors, N.A.
Capital Guardian Trust Company
Cardinal Capital Management, L.L.C.
Cramer Rosenthal McGlynn, L.L.C
Enhanced Investment Technologies, Inc. (INTECH)
Goldman Sachs Asset Management
Grantham, Mayo, Van Otterloo, \& Co.
High Pointe Capital Management, L.L.C.
Lord Abbett \& Co., LLC

## Fixed Income

BlackRock Financial Management, Inc.
Fisher, Francis, Trees, \& Watts, Inc.
Lehman Brothers
Mackay Shields L.L.C.
Morgan Stanley Investment Partners, L.P.
Pacific Investment Management Company (PIMCO)
Seix Investments
Shenkman Capital
Stone Harbor Investment Partners
T. Rowe Price Associates, Inc.

Taplin, Canida \& Habacht
Targeted Investment

## REITs

Adelante Capital Management
Morgan Stanley Investment Partners, L.P.
Oaktree Capital Management
Security Capital Research \& Management
Tishman Speyer

Heitman America RE Trust
Intermedia Partners VII, L.P.
J.P. Morgan Investment Management, Inc.

Landmark Equity Partners
Leeds Weld Equity Partners IV
Lincolnshire Management, Inc.
Markstone Capital Partners
Midocean Partners III
Montreux Equity Partners IV
New Mountain Investments
Paladin Homeland Security
Palladium Equity Partners III
PRE/Prudential Prisa II
PRE/Urban America II
Prisa
Prism Venture Partners
Quadrangle Capital Partners II
Ripplewood Holdings, L.L.C.
RRE Ventures
RREEF America II, Inc.
RREEF America III, Inc.
SCP Private Equity Partners
Silver Lake Partners II
Solera Capital, L.L.C.
Terra Firma Cap. III
Thomas H Lee Equity Fund VI
Thomas McNerney \& Partners, L.P.
U.S. Power Fund II, L.P.

UBS Real Estate Separate Account
VSS Communication Partners IV
Yucaipa American Alliance Fund

## VARIABLE B INVESTMENT MANAGERS

# Financial Section (QPP) 

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## Deloitte.

# Independent Auditors' Report 

To the Board of Trustees of the<br>Teachers' Retirement System of the City of New York<br>Qualified Pension Plan

We have audited the accompanying statements of Plan net assets of the Teachers' Retirement System of the City of New York Qualified Pension Plan (the Plan) as of June 30, 2007 and 2006, and the related statements of changes in Plan net assets for the years then ended. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the respective financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such financial statements present fairly, in all material respects, the net assets of the Plan as of June 30, 2007 and 2006, and the changes in its net assets for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Management's Discussion and Analysis is not a required part of the financial statements, but is supplementary information required by the Governmental Accounting Standards Board (GASB). We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the required supplementary information. However, we did not audit this information and express no opinion on it.

Our audits were conducted for the purpose of forming an opinion on the basic financial statements taken as a whole. The supplemental schedules are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such supplemental information is the responsibility of the management of the Plan. Such 2007, 2006, 2005, 2004, 2003 and 2002 information has been subjected to the auditing procedures applied in our audits of the basic financial statements and, in our opinion, is fairly stated in all material respects when considered in relation to the basic financial statements taken as a whole. The supplemental information for the year ended June 30, 2001 was not subjected to auditing procedures applied in the audit of the basic 2001 financial statements by other auditors whose report dated October 30, 2001, stated that they expressed no opinion on it.

The supplemental information included in the Introductory, Investment, Actuarial and Statistical sections is presented for the purpose of additional analysis and is not a required part of the basic financial statements of the Plan. Such additional information has not been subjected to the auditing procedures applied in our audits of the basic financial statements and, accordingly, we express no opinion on it.

As discussed in Note 4 to the financial statements, the Plan changed the actuarial valuation methodology to be used in calculating employer contributions beginning with Fiscal Year 2006.

## Debitte +Touche LLA

October 30, 2007

# Management's Discussion and Analysis (Unaudited) 

This narrative discussion and analysis of the Teachers' Retirement System of the City of New York's (TRS or the Plan) financial performance provides an overview of the Plan's financial activities for the fiscal years ended June 30, 2007 and 2006. It is meant to assist the reader in understanding TRS' financial statements by providing an overall review of the financial activities during the two years and the effects of significant changes, as well as a comparison with prior years' activity and results. This discussion and analysis is intended to be read in conjunction with the Plan's financial statements, which begin on page 43.

## Overview of Basic Financial Statements

The following discussion and analysis is intended to serve as an introduction to the Plan's basic financial statements. The basic financial statements are as follows:

- The Statement of Plan Net Assets presents the financial position of the Plan at fiscal year-end. It indicates the assets available for payment of future benefits and any current liabilities that are owed as of the statement date. Investments are shown at fair value. All other assets and liabilities are determined on an accrual basis.
- The Statement of Changes in Plan Net Assets presents the results of activities during the fiscal year. All changes affecting the assets and liabilities of the Plan are reflected on an accrual basis when the activity occurred, regardless of the timing of the related cash flows. In that regard, changes in the fair values of investments are included in the year's activity as net appreciation (depreciation) in fair value of investments.
- The Notes to Financial Statements provide additional information that is essential to a full understanding of the data provided in the financial statements. The notes present information about the Plan's accounting policies, significant account balances and activities, material risks, obligations, contingencies, and subsequent events, if any.
Other Information, as required by the Governmental Accounting Standards Board (GASB), is presented after the Notes to Financial Statements.

The financial statements are prepared in accordance with GASB Pronouncements.

## Financial Highlights

The assets of TRS exceeded its liabilities by $\$ 37.1$ billion, $\$ 32.2$ billion, and $\$ 30.5$ billion as of June 30, 2007, 2006 and 2005, respectively. These net assets are held in trust for the payment of future benefits to members and pensioners.

TRS' net assets held in trust increased by $\$ 4.9$ billion from Fiscal Year 2006 and by $\$ 6.6$ billion from Fiscal Year 2005. These represent respective increases of $15.2 \%$ and $21.6 \%$.

Receivables for investment securities sold amounted to $\$ 1.1$ billion at June 30, 2007, a decrease of $\$ 61.5$ million ( $5.3 \%$ ) from June 30,2006 , and a decrease of $\$ 23.3$ million ( $2.1 \%$ ) from June $30,2005$. This balance is principally composed of receivables for securities that have been sold but have not yet settled (i.e., the cash has not been collected). This decrease resulted primarily from timing differences in settlement dates. Trades typically do not settle until a few days after the trade date.

Receivables for accrued earnings amounted to $\$ 152.7$ million as of June 30,2007 , an increase of $\$ 18.7$ million (14\%) from June 30, 2006, and an increase of $\$ 34.1$ million ( $28.8 \%$ ) from June 30, 2005.

At June 30, 2007 member loan receivables amounted to $\$ 131.7$ million, an increase of $\$ 0.9$ million ( $0.7 \%$ ) from the previous year, and a decrease of $\$ 3.3$ million ( $2.5 \%$ ) from June 30, 2005.

## Financial Analysis

## STATEMENT OF PLAN NET ASSETS



Investments at June 30, 2007 were $\$ 44.7$ billion in comparison to $\$ 38.6$ billion at June 30, 2006 and $\$ 36.1$ billion at June 30, 2005. The investment asset balances represent increases of $\$ 6.1$ billion ( $15.8 \%$ ) from June 30, 2006 and $\$ 8.5$ billion (23.6\%) from June 30, 2005.

Accounts payable at June 30, 2007 amounted to $\$ 470.8$ million, an increase of $\$ 218.0$ million ( $86.3 \%$ ) from June 30, 2006 and an increase of $\$ 443.3$ million (1,612.9\%) from June 30, 2005. The June 30, 2005 account payable balance included a $\$ 230.8$ employer contribution asset, which was received at the end of the 2005 fiscal year and payable to the Plan's investment fund. The Plan's practice is to fully invest the cash balances in most of its bank accounts on a daily basis. Overdrawn balances result primarily from outstanding benefit checks that are presented to the banks for payment on a daily basis, and these balances are routinely settled each day.

Payables for investments purchased at June 30, 2007 amounted to $\$ 2.4$ billion, a decrease of $\$ 198.9$ million ( $7.74 \%$ ) from the previous year ended June 30, 2006 and an increase of $\$ 13.6$ million ( $0.6 \%$ ) from June 30, 2005. Investments purchased are accounted for on a trade-date basis. This increase resulted from timing differences in settlement dates, similar to receivables for investments sold discussed earlier. Accrued benefits payable at June 30, 2007 amounted to $\$ 13.1$ million, a decrease of $\$ 1.3$ million ( $9.3 \%$ ) from June 30,2006 and an increase of $\$ 0.3$ million ( $2.0 \%$ ) from June 30,2005 . The $\$ 1.3$ million accrued benefit decrease from the period ending June 30, 2006 to June 30,2007 is attributed to a decline in the year-end benefits payable to beneficiaries.

| STATEMENT OF CHANGES IN PLAN NET ASSETS (In Thousands) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year Ended June 30 |  |  |  |  |  |
|  |  | 2007 |  | 2006 |  | 2005 |
| Additions: |  |  |  |  |  |  |
| Member contributions | \$ | 143,786 | \$ | 141,056 | \$ | 124,539 |
| Employer contributions |  | 1,622,743 |  | 1,338,338 |  | 1,248,704 |
| Net receipts from (payments to) other retirement systems |  | (453) |  | (401) |  | 3,215 |
| Securities-lending income |  | 17,333 |  | 21,786 |  | 17,166 |
| Net investment income |  | 6,770,235 |  | 3,587,983 |  | 3,294,136 |
| TOTAL NET ADDITIONS | \$ | 8,553,644 | \$ | 5,088,762 | \$ | 4,687,760 |
| Deductions: |  |  |  |  |  |  |
| Benefits payments and withdrawals |  | 3,580,005 |  | 3,340,277 |  | 3,133,272 |
| Administrative expenses |  | 37,565 |  | 33,938 |  | 37,722 |
| TOTAL DEDUCTIONS | \$ | 3,617,570 | \$ | 3,374,215 | \$ | 3,170,994 |
| NET INCREASE | \$ | 4,936,074 | \$ | 1,714,547 | \$ | 1,516,766 |

## Changes in Plan Net Assets

TRS received $\$ 143.8$ million in member contributions during Fiscal Year 2007, $\$ 141.1$ million in Fiscal Year 2006 and $\$ 124.5$ million in Fiscal Year 2005. The $\$ 143.8$ member contributions represent a $\$ 2.7$ million (1.9\%) increase from Fiscal Year 2006 and a $\$ 19.2$ million ( $15.5 \%$ ) increase from Fiscal Year 2005. The change in contributions reflects increases due to the adoption of the current Teachers' contract on October 3, 2005, as well as 9,775 new enrollees.

Employer contributions for the fiscal year ended June 30, 2007 totaled $\$ 1.6$ billion, an increase of $21.3 \%$ and $30.0 \%$ over Fiscal Years 2006 and 2005, respectively.

Net investment income increased by $\$ 3.2$ billion ( $88.7 \%$ ) from Fiscal Year 2006 and increased by $\$ 3.5$ billion ( $105.5 \%$ ) from Fiscal Year 2005.

Benefits payments and withdrawals for the fiscal year ended June 30, 2007 totaled $\$ 3.6$ billion, an increase of $7.2 \%$ from Fiscal Year 2006 and 14.3\% from Fiscal Year 2005. Benefits payments and withdrawals for Fiscal Year 2007 are composed of retirement benefits ( $80.7 \%$ ), interest that is accumulated on behalf of and transferred to the TDA Program (15.3\%), and refunds, death benefits and loan repayment withdrawals ( $4.0 \%$ ). Retirement benefits continued to increase incrementally, increasing $5.5 \%$ from Fiscal Year 2006 and $11.9 \%$ from Fiscal Year 2005. Interest accumulated on behalf of and transferred monthly to the TDA Program increased 21.2\% from Fiscal Year 2006 and $45.9 \%$ from Fiscal Year 2005, reflecting the growth of the TDA Fixed Annuity Program. Also, benefits payments and withdrawals account for the funds disbursed from the Plan's Annuity Programs. For Fiscal Year 2007, as well as Fiscal Years 2006 and 2005, benefits payments and withdrawals were composed of $81.4 \%$ of Fixed Annuity Program funds, $17.8 \%$ of Variable A Annuity Program funds and $0.8 \%$ of Variable B Annuity Program funds.

Administrative expenses for the fiscal year ended June 30, 2007 totaled $\$ 37.6$ million, an increase of $10.7 \%$ over Fiscal Year 2006 and a decrease of $0.4 \%$ over Fiscal Year 2005. The $10.7 \%$ increase in administrative expenses from the prior fiscal year is primarily attributed to increases in staff salaries and data processing support services.

## Investments

TRS uses the S\&P 500 and Russell 3000 indices to provide benchmarks for equity domestic and private investment returns and the MSCI EAFE index for international equity returns. The Citigroup BB \& B Rated and NYC indices are used to provide benchmarks for debt securities. The Wilshire Real Estate and NCREIF NPI indices and Solomon's two-year US treasury fund are used to provide benchmarks for mortgage investments and investment contracts, respectively. TRS does not use benchmarks for short-term investments.

TRS earns additional investment income by lending its investment securities. The borrowers provide collateral to TRS that is valued in excess of the securities loaned. For the fiscal year ended June 30, 2007, net securities-lending income amounted to $\$ 17.3$ million compared with $\$ 21.8$ million for Fiscal Year 2006 and $\$ 17.2$ million for Fiscal Year 2005.

Investments held by TRS, including collateral from securities-lending transactions, are listed according to their investment classification in the following table:

## INVESTMENT SUMMARY <br> (In Thousands)

| Type of Investment | 2007 |  | 2006 |  |
| :---: | :---: | :---: | :---: | :---: |
| Shor-term investments | \$ | 1,327,528 | \$ | 1,157,263 |
| Debt securities |  | 7,786,845 |  | 6,896,635 |
| Equity securities-Domestic |  | 22,144,145 |  | 19,769,374 |
| Private equity |  | 907,991 |  | 506,634 |
| Mutual Funds-International equity |  | 5,214,722 |  | 4,160,727 |
| Mutual Funds-TIPS |  | 1,018,517 |  | 918,320 |
| Mortgages |  | 75,967 |  | 45,360 |
| Promissory notes |  | 9,857 |  | 5,340 |
| Managed investment contracts |  | 89,908 |  | 104,297 |
| Guaranteed investment contracts |  | 18,642 |  | 46,918 |
| Collateral from securities lending |  | 6,077,662 |  | 4,962,562 |
| TOTAL | \$ | 44,671,784 | \$ | 38,573,430 |

## Contact Information

This financial report is designed to provide a general overview of the Teachers' Retirement System's finances. Questions concerning any data provided in this report or requests for additional information should be directed to Paul J. Raucci, Chief Accountant, Teachers' Retirement System of the City of New York, 55 Water Street, New York, NY 10041.

| STATEMENT OF PLAN NET ASSETS-QPP (In Thousands) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | As of June 30 |  |  |  |
|  | 2007 |  | 2006 |  |
| ASSETS |  |  |  |  |
| Cash | \$ | 43 | \$ | 37 |
| Receivables: |  |  |  |  |
| Investment securities sold |  | 1,104,536 |  | 1,166,009 |
| Accrued interest and dividends |  | 152,695 |  | 133,991 |
| Member loans (Note 5) |  | 131,722 |  | 130,782 |
| TOTAL RECEIVABLES |  | S 1,388,953 | \$ | 1,430,782 |
| Investments, at Fair Value (Notes 2 and 3): Fixed funds: |  |  |  |  |
| Short-term investment fund |  | 1,129,234 |  | 1,002,186 |
| Debt securities: |  |  |  |  |
| U.S. Government |  | 3,758,304 |  | 3,429,728 |
| Corporate |  | 3,629,248 |  | 3,301,849 |
| Foreign |  | 70,775 |  | 81,522 |
| Equity securities: |  |  |  |  |
| Domestic |  | 15,986,293 |  | 13,829,692 |
| Private equity |  | 907,991 |  | 506,634 |
| Mutual funds: |  |  |  |  |
| Domestic equity |  | 41,171 |  | 32,374 |
| International equity |  | 5,214,722 |  | 4,160,727 |
| Treasury inflation-protected securities |  | 1,018,517 |  | 918,320 |
| Mortgages |  | 75,967 |  | 45,360 |
| Promissory notes |  | 9,857 |  | 5,340 |
| Variable A funds: |  |  |  |  |
| Short-term investments |  | 128,040 |  | 97,394 |
| Equity securities |  | 6,116,681 |  | 5,907,308 |
| Corporate bonds |  | 328,518 |  | 83,536 |
| Variable B funds: |  |  |  |  |
| Shor-term investments |  | 70,254 |  | 57,683 |
| Managed investment contracts |  | 89,908 |  | 104,297 |
| Guaranteed investment contracts |  | 18,642 |  | 46,918 |
| Collateral from securities lending |  | 6,077,662 |  | 4,962,562 |
| TOTAL INVESTMENTS |  | 44,671,784 |  | 38,573,430 |
| Other Assets |  | 28,076 |  | 17,944 |
| TOTAL ASSETS |  | 46,088,856 |  | 40,022,193 |
| LIABILITIES |  |  |  |  |
| Accounts payable |  | 470,755 |  | 252,755 |
| Payables for investment securities purchased |  | 2,370,738 |  | 2,569,678 |
| Accrued benefits payable |  | 13,095 |  | 14,441 |
| Securities lending (Note 2) |  | 6,091,477 |  | 4,978,602 |
| TOTAL LIABILITIES |  | S 8,946,065 |  | 7,815,476 |
| PLAN NET ASSETS HELD IN TRUST FOR PENSION BENEFITS* |  | 37,142,791 |  | 32,206,717 |

[^4]| STATEMENT OF CHANGES IN PLAN NET ASSETS-QPP (In Thousands) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Year Ended June 30 |  |  |  |
|  | 2007 |  |  | 2006 |
| ADDITIONS: CONTRIBUTIONS: |  |  |  |  |
|  |  |  |  |  |
| Member contributions |  | 143,786 | \$ | 141,056 |
| Employer contributions (Note 4) |  | 1,600,904 |  | 1,316,611 |
| Other employer contributions |  | 21,839 |  | 21,727 |
| TOTAL CONTRIBUTIONS |  | 1,766,529 | \$ | 1,479,394 |
| INVESTMENT INCOME (Note 2): |  |  |  |  |
| Interest income |  | 618,991 |  | 625,541 |
| Dividend income |  | 533,097 |  | 412,535 |
| Recovered investment losses |  | 2,316 |  | - |
| Net appreciation in fair value of investments |  | 5,697,519 |  | 2,613,216 |
| TOTAL INVESTMENT INCOME |  | 6,851,923 | \$ | 3,651,292 |
| Less: |  |  |  |  |
| Investment expenses |  | 81,688 |  | 63,309 |
| NET INCOME | \$ | 6,770,235 | \$ | 3,587,983 |
| SECURITIES-LENDING TRANSACTIONS: |  |  |  |  |
| Securities-lending income |  | 421,923 |  | 242,127 |
| Securities-lending fees |  | $(404,590)$ |  | $(220,341)$ |
| Net securities-lending income |  | 17,333 |  | 21,786 |
| NET INVESTMENT INCOME | \$ | 6,787,568 | \$ | 3,609,769 |
| Other: |  |  |  |  |
| Net payments to other retirement systems |  | (453) |  | (401) |
| TOTAL ADDITIONS | \$ | 8,553,644 | \$ | 5,088,762 |
| DEDUCTIONS: |  |  |  |  |
| Benefits payments and withdrawals (Notes 1 and 2) |  | 3,580,005 |  | 3,340,277 |
| Administrative expenses |  | 37,565 |  | 33,938 |
| TOTAL DEDUCTIONS |  | 3,617,570 | \$ | 3,374,215 |
| INCREASE IN PLAN NET ASSETS <br> PLAN NET ASSETS HELD IN TRUST FOR BENEFITS AT BEGINNING OF YEAR |  | $\begin{array}{r} 4,936,074 \\ 32,206,717 \end{array}$ |  | $1,714,547$ <br> 30,492,170 |
| PLAN NET ASSETS HELD IN TRUST FOR BENEFITS AT END OF YEAR |  | 37,142,791 |  | 32,206,717 |

[^5]
## Notes to Financial Statements-Qualified Pension Plan

## 1. Plan Description

The City of New York (the City) maintains a number of pension systems providing benefits for employees of its various agencies (as defined within New York State (State) statutes and City laws). The City's five major actuarially-funded pension systems are the Teachers' Retirement System of the City of New York-Qualified Pension Plan (the Plan), the New York City Employees' Retirement System (NYCERS), the New York City Board of Education Retirement System-Qualified Pension Plan (BERS), the New York City Police Pension Fund (POLICE) and the New York City Fire Pension Fund (FIRE). Each pension system is a separate Public Employee Retirement System (PERS) with a separate oversight body and is financially independent of the others.

The Plan is a cost-sharing, multiple-employer PERS. The Plan provides pension benefits for certain City public school teachers and certain other school and college teachers. The primary employers, in addition to the City, are the City University of New York and certain other specific schools (collectively, the Employer). Substantially, all teachers in the public schools of the City become members of the Plan and certain other specified school and college personnel may become members on the first day of permanent employment.

The Plan functions in accordance with existing State statutes and certain City laws. It combines features of a defined-benefit pension plan with those of a defined-contribution pension plan. Contributions are made by the Employer and the members.

In June 1991, the Governmental Accounting Standards Board (GASB) issued Statement No. 14, The Financial Reporting Entity. The definition of the reporting entity is based primarily on the notion of financial accountability. In determining financial accountability for legally separate organizations, the Plan considered whether its officials appoint a voting majority of an organization's governing body and is either able to impose its will on that organization or if there is a potential for the organization to provide specific financial benefits to, or to impose specific financial burdens on, the Plan. The Plan also considered whether there are organizations that are fiscally dependent on it. It was determined that there are no component units of the Plan.

The Plan is included in the Pension and Other Employee Benefit Trust Funds section of the City's Comprehensive Annual Financial Report (CAFR).

Members of the Plan have the option to participate in a Tax-Deferred Annuity (TDA) Program, which provides members a means of deferring income tax payments on their voluntary tax-deferred contributions until the period after retirement or upon withdrawal of contributions. The TDA Program was created pursuant to Internal Revenue Code Section 403(b). Contributions to the TDA Program are made by the members only. The TDA Program is maintained as a separate plan and is not included in these financial statements.

At June 30, 2005 and June 30, 2004, the dates of the Plan's most recent actuarial valuations, the Plan's membership consisted of:

## PLAN MEMBERSHIP

|  | As of June 30 |  |
| :--- | ---: | ---: |
|  | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 4}$ |
| Retirees and beneficiaries receiving benefits | 65,168 | 62,728 |
| Terminated vested members not yet receiving benefits | 5,172 | 4,754 |
| Other Inactives* | 12,638 | 9,094 |
| Active members receiving salaries | 104,850 | 105,391 |
| TOTAL | $\mathbf{1 8 7 , 8 2 8}$ | $\mathbf{1 8 1 , 9 6 7}$ |

* Represents members who are no longer on payroll but not otherwise classified.

Under the One-Year Lag Methodology (OYLM) in effect for fiscal years beginning 2006, the actuarial valuation determines the Employer Contribution for the second following fiscal year. June 30, 2005 and June 30, 2004 are the dates used for calculating Fiscal Year 2007 and Fiscal Year 2006 Employer Contributions, respectively.

The State Constitution provides that the pension rights of public employees are contractual and shall not be diminished or impaired. In 1973, 1976 and 1983, amendments made to the State Retirement and Social Security Law (RSSL) modified certain benefits for employees joining the Plan on or after the effective date of such amendments. As such, benefits under the Plan fall into various categories based on the year when an employee joined the Plan. The service retirement benefits under the Plan are as follows:

■ Members who joined prior to July 1, 1973 (Tier I) are entitled to service retirement benefits of $50 \%$ of "final salary" (as defined within State statutes and City laws) after 20 years of service; a portion is provided from member contributions, plus additional benefits equal to specified percentages (as defined within State statutes and City laws) per year of service of "final salary" for years in excess of the 20 -year minimum. These additional benefits are increased, where applicable, by an annuity attributable to accumulated member contributions in excess of the minimum required balance and by any benefits attributable to the Increased-Take-Home-Pay (ITHP) contributions accumulated after the twentieth year of member qualifying service. ITHP represents amounts contributed by the City in lieu of members' own contributions. These amounts reduce the contributions that members would have to make to the Plan during their service and thereby increase their take-home pay. Members have the choice of waiving their ITHP reduction, which would reduce their take-home pay, but provide them with increased benefits upon retirement.
In addition, these same members could elect a service retirement benefit with no minimum service requirement that provides an annual benefit for each year of service equal to a specified percentage (as described within State statutes and City laws) of "final salary" payable on attainment of age 55 . This benefit is increased, where applicable, by an annuity attributable to the member's contributions and by any benefits attributable to the Employer's contributions with respect to such service under the ITHP contributions.

- Members who joined the Plan after June 30, 1973 and before July 27, 1976 (Tier II) have provisions similar to Tier I, except that the eligibility for retirement and the salary base for benefits are different and there is a limitation on the maximum benefit.
- Members who joined the Plan on or after September 1, 1983 (Tier IV) were required to make contributions of $3 \%$ of salary until termination of service. Effective October 1, 2000, these members are not required to make contributions after the tenth anniversary of their membership date or completion of ten years of credited service, whichever is earlier. The annual benefit is $1.67 \%$ of "final average salary" per year of service for members with less than 20 years of service and $2 \%$ of "final average salary" per year of service for members with 20 to 30 years of service, plus a $1.5 \%$ addition of "final average salary" per year of service for service in excess of 30 years of service.
- Members who joined the Plan on or after July 27, 1976 and prior to September 1, 1983 (Tier III) were mandated into Tier IV. However, these members could elect to remain in Tier III which requires member contributions of $3.0 \%$ of salary for a period not to exceed 30 years, reduces benefits by one-half of the primary Social Security benefit attributable to service with the Employer and provides an annual cost-of-living escalator in pension benefits of not more than $3.0 \%$. Effective October 1, 2000, these members are not required to make contributions after the tenth anniversary of their membership date or completion of ten years of credited service, whichever is earlier.
For members enrolled in the Plan prior to July 27, 1976, ITHP contributions made on their behalf, as well as their own contributions, are invested, at their election, in either the Fixed or Variable Annuity Programs. Members can elect to invest in multiples of $5 \%$ and change their elections once a year. The Employer guaranteed a $7.5 \%$ return on member contributions to the Fixed Annuity Program until June 30, 1982, increased the guaranteed return to $8.0 \%$ as of July 1, 1982 and to $8.25 \%$ as of July 1, 1988 for members who enrolled in the Plan prior to July 27, 1976. (Members enrolled on or after July 27, 1976 receive a guaranteed return of $5.0 \%$ on member contributions.) The Variable Annuity Programs include only member contributions and ITHP contributions made on their behalf, as described above, and are expressed in terms of units that are valued monthly based on investment experience.

At retirement, monthly annuities attributable to member contributions and ITHP contributions can be paid in both fixed and variable amounts, based on the member's election, which can be changed once a year. Other benefits are paid only in fixed amounts. Variable annuities are not fixed in amount, but are based on investment experience through the preceding month.

Under all service retirement categories, annuities attributable to member contributions are reduced on an actuarial basis for any loans with unpaid balances outstanding at the date of retirement.

Subject to certain conditions, members become fully vested and eligible for benefits upon the completion of five years of service.

In addition, the Plan provides death benefits and retirement benefits on the occurrence of accidental or ordinary disability.

During the Spring 2000 session, the State Legislature approved and the State Governor (Governor) signed laws that provide automatic Cost-of-Living Adjustments (COLA) for certain retirees and beneficiaries (Chapter 125 of the Laws of 2000), additional service credit for certain Tier I and Tier II members, and reduced member contributions for certain Tier III and Tier IV members (Chapter 126 of the Laws of 2000).

## 2. Summary of Significant Accounting Policies and Plan Asset Matters

## (a) Basis of Accounting

The Plan uses the accrual basis of accounting where the measurement focus is on the flow of economic resources. Revenues are recognized in the accounting period in which they are earned and expenses are recognized in the period incurred. Contributions from members are recognized when the

Employer makes payroll deductions from Plan members' salary. Employer contributions are recognized when due and the Employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan.

## (b) Investment Valuation

Investments are reported at fair value. Securities purchased pursuant to agreements to resell are carried at the contract price, exclusive of interest, at which the securities will be resold. Fair value is defined as the quoted market value on the last trading day of the period, except for the Short-Term Investment Fund (STIF) (a money market fund), International Investment Fund (IIF) and Private Equity (PE). The IIF and PE are private funds, which are managed by various investment managers on behalf of the Plan. Fair value is determined by Plan management based on information provided by the various investment managers.

Purchases and sales of securities are reflected on the trade date.
Dividend income is recorded on the ex-dividend date. Interest income is recorded as earned on an accrual basis.

No investment in any one organization represents 5\% or more of the Plan net assets held in trust for pension benefits.

## (c) Investment Programs

The Plan's investments are composed of the assets of three investment programs. These are the Fixed Annuity Program and two Variable Annuity Programs: Variable A, which consists primarily of equity securities and Variable B, which consists primarily of guaranteed investment contracts.

Assets of the Fixed Annuity Program of the Plan are co-invested with certain assets of the TDA Program. The TDA Program is funded by voluntary member contributions. Assets of the Variable Annuity Programs of the Plan are co-invested with certain assets of the TDA Program and BERS. These financial statements reflect the Plan's proportionate share of the investments and the related activity of each of these programs.

## (d) Income Taxes

Income earned by the Plan is not subject to Federal income tax.

## (e) Accounts Payable

Accounts payable is principally comprised of amounts owed to the Plan's banks for overdrawn bank balances. The Plan's practice is to fully invest cash balances in most bank accounts on a daily basis. Overdrawn balances result primarily from outstanding benefit checks that are presented to the banks for payment on a daily basis and these balances are routinely settled each day.

## (f) Benefits Payments and Withdrawals

Plan deductions are primarily due to benefits payments and withdrawals. Included in withdrawals is the interest fixed income ( $8.25 \% \mathrm{APR}$ ) owed and transferred to the TDA program. TDA interest payments of $\$ 547$ million and $\$ 452$ million were classified as part of the benefit payments and withdrawals for Fiscal Year 2007 and Fiscal Year 2006.

## (g) Securities-Lending Transactions

State statutes and Board policies permit the Plan to lend its investments to broker-dealers and other entities for collateral with a simultaneous agreement to return the collateral for the same securities in the future. The Plan's custodian lends the following types of securities: short-term securities, common stock, long-term corporate bonds, U. S. Government and U. S. Government agency bonds, asset-backed securities and international equities and bonds held in collective investment funds. In return, it receives collateral in the form of cash and U.S. Treasury and U.S. Government agency securities at $100 \%$ to $105 \%$ of the principal plus accrued interest for reinvestment. Management believes the Plan has limited credit risk exposure to borrowers because the amounts the Plan owed the borrowers equaled or exceeded the amounts the borrowers owed the Plan. In addition, the contracts with the Plan's custodian require borrowers to indemnify the Plan if the borrowers fail to return the securities and if the collateral is inadequate to replace the securities loaned or fail to pay the Plan for income distributions by the securities' issuers while the securities are on loan. All securities loans can be terminated on demand within a period specified in each agreement by either the Plan or the borrowers. Cash collateral is invested in the lending agents' short-term investment pools, which have a weighted average maturity of 90 days. Underlying fixed income securities have an average maturity of ten years.

During Fiscal Year 2003, the value of certain underlying securities became impaired because of the credit failure of the issuer. Accordingly, the carrying amount of the collateral reported in the Plan's Statements of Plan Net Assets for Fiscal Year 2003 was reduced by $\$ 25$ million to reflect this impairment and reflect the net realizable value of the securities purchased with collateral from securities-lending transactions. In May 2004, the Plan received $\$ 1.8$ million from a distribution in bankruptcy proceeds from the defaulted issuer. Also, in Fiscal Years 2004, 2006, and 2007, the Plan received $\$ 5.7$ million, $\$ 1.5$ million, and $\$ 2.2$ million as partial settlements from parties involved in the initial purchase of the impaired security.

The securities-lending program in which the Plan participates only allows pledging or selling securities in the case of borrower default.

GASB Statement No. 28, Accounting and Financial Reporting for Securities-Lending Transactions, requires that securities loaned as assets and related liabilities be reported in the Statements of Plan Net Assets. Cash received as collateral on securities-lending transactions and investments made with that cash are reported as assets. Securities received as collateral are also reported as assets if the government entity has the ability to pledge or sell them with a borrower default. Accordingly, the Plan recorded the investments purchased with the cash collateral from securities lending with a corresponding liability for securities lending.

## (h) Pronouncement Issued but Not Yet Effective

In May, 2007, GASB issued Statement No. 50, Pension Disclosures, an amendment of GASB Statements No. 25 and No. 27. The Statement establishes and modifies requirements related to financial reporting by pension plans and by employers that provide defined-benefit and defined-contribution pensions. The Statement more closely aligns the financial reporting requirements for pensions with those for Other Postemployment Benefits (OPEB) and consequently, enhances information disclosed in notes to financial statements or presented as required supplementary information (RSI) by pension plans and by employers that provide pension benefits. The reporting changes required by Statement No. 50 amend applicable note disclosure and RSI requirements of Statements No. 25, Financial Reporting for Defined Benefit Pension Plans and Note Disclosures for Defined Contribution Plans, and No. 27, Accounting for Pensions by State and Local Governmental Employers, to conform with requirements of Statements No. 43, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans, and No. 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions. The Statement is intended to
improve the transparency and decision usefulness of reported information about pensions by state and local governmental plans and employers.

The requirements of Statement No. 50 are effective for periods beginning after June 15, 2007, except for requirements related to the use of the entry age actuarial cost method for the purpose of reporting a surrogate funded status and funding progress of plans that use the aggregate actuarial cost method, which are effective for periods for which the financial statements and RSI contain information resulting from actuarial valuations as of June 15, 2007, or later. The Plan is currently evaluating the impact of Statement No. 50 on its period ending June 30, 2008 financial statements.

## 3. Investments and Deposits

The Comptroller of The City of New York (the Comptroller) acts as an investment advisor to the Plan. In addition, the Plan employs an independent investment consultant as an investment advisor. The Plan utilizes several investment managers to manage the long-term debt and equity portfolios. The managers are regularly reviewed, with regard to both their investment performance and their adherence to investment guidelines.

## (a) Concentration of Credit Risk

The Plan does not have any investments in any one entity that represent $5 \%$ or more of Plan net assets.
The legal requirements for Plan investments are as follows:
(i) Fixed income, equity and other investments may be made as permitted by New York State RSSL $\$ \$$ 176-178(a) and Banking Law $\$ 235$, the New York City Administrative Code, and the Legal Investments for New York Savings Banks list as published by The New York State Banking Department, subject to Note 3(b).
(ii) Investments up to $25 \%$ of total pension fund assets may be made in instruments not expressly permitted by the State RSSL.
Mellon Global Securities Services was the primary custodian for significantly all of the Variable A and B securities for the years ended June 30, 2007 and 2006. Bank of New York (BONY) was the primary custodian for substantially all of the other securities of the Plan. On December 4, 2006, Bank of New York and Mellon Global Securities Services announced their intent to merge companies. The merger was completed on July 2, 2007 forming the Bank of New York Mellon Corporation. Cash deposits are insured by the Federal Deposit Insurance Corporation for up to $\$ 100,000$ per Plan member and are, therefore, fully insured. The information reflected in the Credit Ratings and in the Years to Maturity is derived from the Custodian's Risk and Performance Analytics Reporting System.

## (b) Credit Risk

Portfolios other than U.S. Government and related portfolios have credit rating limitations. Investment Grade portfolios are limited to mostly ratings of BBB and above except that they are also permitted a $10 \%$ maximum exposure to BB \& B rated securities. While Non Investment grade managers are primarily invested in $\mathrm{BB} \& \mathrm{~B}$ rated securities, they can also invest up to $7 \%$ of their portfolio in securities rated CCC or lower. Not rated securities are considered to be non-investment grade. The quality ratings of investments, by percentage of the rated portfolio, as described by nationally recognized statistical rating organizations, are as follows:

## Investment Type*

| June 30, 2007 | AAA | AA | A | BBB | BB | B |  <br> Below | Short <br> Term | Not Rated | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | 13.73\% | - | - | - | 0.04\% | - | - | - | - | 13.77\% |
| Corporate Bonds | 11.56\% | 6.06\% | 11.41\% | 12.00\% | 9.78\% | 16.99\% | 3.65\% | - | 1.06\% | 72.51\% |
| Yankee Bonds | - | - | 0.66\% | 0.73\% | 0.05\% | 0.01\% | - | - | - | 1.45\% |

Short Term

| Commercial Paper | - | - | $2.35 \%$ | - | - | - | - | - | $0.25 \%$ | $2.60 \%$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Pooled Funds | - | - | - | - | - | - | - | $9.52 \%$ | - | $9.52 \%$ |
| Certificates of Deposit | - | - | - | - | - | - | - | - | - | - |
| U.S. Treasuries | - | - | - | - | - | - | - | - | $0.15 \%$ | $0.15 \%$ |
| U.S. Agencies | - | - | - | - | - | - | - | - | - | - |
|  |  |  | - | - | - |  |  |  |  |  |
| Percent of Rated Portfolio | $25.29 \%$ | $6.06 \%$ | $14.42 \%$ | $12.73 \%$ | $9.87 \%$ | $17.00 \%$ | $3.65 \%$ | $9.52 \%$ | $1.46 \%$ | $100.00 \%$ |


| June 30, 2006 | AAA | AA | A | BBB | BB | B | CCC \& Below | Short Term | Not Rated | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | 19.41\% | - | - | - | - | - | - | - | - | 19.41\% |
| Corporate Bonds | 9.62\% | 3.87\% | 13.18\% | 10.20\% | 8.51\% | 15.84\% | 1.84\% | - | 0.99\% | 64.05\% |
| Yankee Bonds | 0.02\% | 0.08\% | 0.49\% | 0.81\% | 0.05\% | 0.05\% | - | - | - | 1.50\% |

Short Term

| Commercial Paper | - | - | - | - | - | - | - | 5.03\% | - | 5.03\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pooled Funds | - | - | - | - | - | - | - | - | 7.33\% | 7.33\% |
| Certificates of Deposit | - | - | - | - | - | - | - | 0.26\% | 0.16\% | 0.42\% |
| U.S. Treasuries | 0.23\% | - | - | - | - | - | - | - | - | 0.23\% |
| U.S. Agencies | - | - | - | - | - | - | - | 0.66\% | 1.37\% | 2.03\% |
| Percent of Rated Portfolio | 29.28\% | 3.95\% | 3.67 | . 01 | 8.56 | 15.8 | 1.84 | 5.95\% | 9.85\% | 00.00\% |

* U.S. Treasury Bonds, Notes and Treasury inflation-protected securities are obligations of the U.S. government or explicitly guaranteed by the U.S. government and therefore not considered to have credit risk and are not included above.


## (c) Custodial Credit Risk

Deposits are exposed to custodial credit risk if they are uninsured and uncollateralized. Custodial credit risk is the risk that, in the event of a failure of the counterparty, the Plan will not be able to recover the value of its investment or collateral securities that are in the possession of an outside party.
Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the Plan and are held by either the counterparty or the counterparty's trust department or agent but not in the Plan's name.

Consistent with the Plan's investment policy, the investments are held by the Plan's custodian and registered in the Plan's name.

All of the Plan's deposits are insured and/or collateralized by securities held by a financial institution separate from the Plan's depository financial institution.

All of the Plan's securities are held by the Plan's custodial bank in the Plan's name.

## (d) Interest Rate Risk

Interest rate risk is the risk that the fair value of investments could be adversely affected by the change in interest rates. Duration limits, in relation to a relevant benchmark, are used to control the portfolios' exposure to interest rate changes. Duration is limited to a range of -1 to 0.75 years. Duration range is a measure of the overall portfolio, while statements of the stated maturity reflect the specific maturities of the individual securities held. The lengths of investment maturities (in years), as shown by the percent of the rated portfolio, are as follows:

## Years to Maturity

Investment Type
June 30, 2007

|  | Investment Maturities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fair Value | Less than one year | One to five years | Six to ten years | More than ten years |
| U.S. Government | 45.40\% | 2.81\% | 6.24\% | - | 36.35\% |
| Corporate Bonds | 45.89\% | 0.87\% | 14.81\% | 17.19\% | 13.02\% |
| Yankee Bonds | 0.92\% | - | 0.37\% | 0.19\% | 0.36\% |
| Short Term |  |  |  |  |  |
| Commercial Paper | 1.63\% | 1.63\% | - | - | - |
| Pooled Funds | 6.06\% | 6.06\% | - | - | - |
| Certificates of Deposit | - | - | - | - | - |
| U.S. Treasuries | 0.10\% | 0.10\% | - | - | - |
| U.S. Agencies | - | - | - | - | - |
| Percent of Rated Portfolio | 100.00\% | 11.47\% | 21.42\% | 17.38\% | 49.73\% |


| June 30, 2006 | Fair <br> Value | Less than <br> one year | One to five <br> years | Six to ten <br> years | More than <br> ten years |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $43.72 \%$ | $1.37 \%$ | $2.70 \%$ | $5.04 \%$ | $34.61 \%$ |
| U.S. Government | $42.49 \%$ | $1.03 \%$ | $17.75 \%$ | $14.06 \%$ | $9.65 \%$ |
| Corporate Bonds | $1.05 \%$ | $0.07 \%$ | $0.35 \%$ | $0.20 \%$ | $0.43 \%$ |
| Yankee Bonds |  |  |  | - | - |
| Short Term | $3.33 \%$ | $3.33 \%$ | - | - | - |
| Commercial Paper | $4.85 \%$ | $4.85 \%$ | - | - | - |
| Pooled Funds | $0.27 \%$ | $0.27 \%$ | - | - | - |
| Certificates of Deposit | $0.15 \%$ | $0.15 \%$ | - | - | - |
| U.S. Treasuries | $4.14 \%$ | $4.14 \%$ | - | - | - |
| U.S. Agencies | Percent of Rated Portfolio | $100.00 \%$ | $15.21 \%$ | $20.80 \%$ | $19.30 \%$ |

(e) Securities-Lending Transactions
Credit Risk—The quality ratings of investments held as collateral for Securities Lending are as follows:
Investment Type and Fair Value of Securities-Lending Transactions (In Thousands)
June 30, 2007

|  | AAA | AA | A |  | BBB |  | BB |  | B |  | CCC \& Below |  | Short Term | Not Rated |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ - | \$ | - | \$ - |
| Corporate Bonds | 622,096 | 413,001 |  | 417,247 |  | - |  | - |  | - |  | - | 516,392 |  | 25,406 | 1,994,142 |
| Yankee Bonds | - | - |  | - |  | - |  | - |  | - |  | - | 50,727 |  | - | 50,727 |
| Short-Term |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial Paper | - | - |  | - |  | - |  | - |  | - |  | - | 174,779 |  | - | 174,779 |
| Pooled Funds | 513,658 | - |  | - |  | - |  | - |  | - |  | - | - |  | - | 513,658 |
| Repurchase Agreements | - | - |  | - |  | - |  | - |  | - |  | - | 26,172 |  | 873,799 | 899,971 |
| Certificates of Deposit | - | 350,273 |  | 201,193 |  | - |  | - |  | - |  | - | 540,394 |  | - | 1,091,860 |
| Bank Notes | 92,825 | 657,073 |  | 331,413 |  | - |  | - |  | - |  | - | 143,782 |  | - | 1,225,093 |
| Other | 83 | 974 |  | - |  | - |  | - |  | - |  | - | 126,375 |  | - | 127,432 |
| Total | \$1,228,662 | \$1,421,321 | \$ | 949,853 | \$ | - | \$ | - | \$ | - | \$ | - | \$1,578,621 |  | 899,205 | \$6,077,662 |
| Percent of SecuritiesLending Portfolio | 20.22\% | 23.39\% |  | 15.63\% |  | .00\% |  | 0.00\% |  | 0.00\% |  | 0.00\% | 25.97\% |  | 14.80\% | 100.00\% |

\footnotetext{
June 30, 2006

|  | AAA | AA | A | BBB |  | BB |  | B |  | CCC \& Below |  | Short Term |  | Not Rated |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government \$ | \$ - | \$ - | \$ - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 4,105 | \$ | - | \$ 4,105 |
| Corporate Bonds | 354,495 | 258,436 | 684,747 |  | - |  | - |  | - |  | - |  | 164,022 |  | 12,028 | 1,473,728 |
| Yankee Bonds | - | - | - |  | - |  | - |  | - |  | - |  | 37,647 |  | - | 37,647 |
| Short Term |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commercial Paper | - | - | 14,780 |  | - |  | - |  | - |  | - |  | 320,210 |  | - | 334,990 |
| Pooled Funds | 615,508 | - | - |  | - |  | - |  | - |  | - |  | - |  | - | 615,508 |
| Repurchase Agreements | - | - | - |  | - |  | - |  | - |  | - |  | 30,266 |  | 868,907 | 899,173 |
| Certificates of Deposit | 1,752 | 683,761 | 197,216 |  | - |  | - |  | - |  | - |  | 67,412 |  | - | 950,141 |
| Bank Notes | 5,328 | 298,054 | 239,562 |  | - |  | - |  | - |  | - |  | 58,571 |  | - | 601,515 |
| Other | - | 5,629 | 762 |  | - |  | - |  | - |  | - |  | 39,364 |  | - | 45,755 |
| Total | \$ 977,083 | \$1,245,880 | \$1,137,067 | \$ | - | \$ | - | \$ | - | \$ | - |  | 721,597 | \$ | 880,935 | \$4,962,562 |
| Percent of SecuritiesLending Portfolio | 19.69\% | 25.11\% | 22.91\% |  | .00\% |  | .00\% |  | 0.00\% |  | 0.00\% |  | 14.54\% |  | 17.75\% | 100.00\% |

Interest Rate Risk-The lengths of investment maturities (in years) of the collateral for Securities Lending are as follows:

## Years to Maturity

Investment Type
(In Thousands)
June 30, 2007 Investment Maturities

|  | Fair <br> Value | Less than one year | One to five years | Six to ten years |  | More than ten years |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | \$ | \$ - | \$ | \$ | - | \$ | - |
| Corporate Bonds | 1,994,142 | 539,879 | 1,454,263 |  | - |  | - |
| Yankee Bonds | 50,727 | 20,846 | 29,881 |  | - |  | - |
| Short Term |  |  |  |  |  |  |  |
| Commercial Paper | 174,779 | 174,779 | - |  | - |  | - |
| Pooled Funds | 513,658 | 513,658 | - |  | - |  | - |
| Repurchase Agreements | 899,971 | 899,971 | - |  | - |  | - |
| Certificates of Deposit | 1,091,860 | 593,758 | 498,102 |  | - |  | - |
| Bank Notes | 1,225,093 | 349,942 | 875,151 |  | - |  | - |
| Other | 127,432 | 118,859 | 8,573 |  | - |  | - |
| Total | \$6,077,662 | \$3,211,692 | \$2,865,970 | \$ | - | \$ | - |
| Percent of Securities-Lending Portfolio | 100.00\% | 52.84\% | 47.16\% |  | 0.00\% |  | .00\% |

June 30, 2006

|  | Fair Value | Less than one year | One to five years | Six to ten years |  | More than ten years |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | \$ 4,105 | \$ 4,105 | S | S | - | \$ | - |
| Corporate Bonds | 1,473,728 | 201,528 | 1,272,200 |  | - |  | - |
| Yankee Bonds | 37,647 | 15,132 | 22,515 |  | - |  | - |
| Short Term |  |  |  |  |  |  |  |
| Commercial Paper | 334,990 | 334,990 | - |  | - |  | - |
| Pooled Funds | 615,508 | 615,508 | - |  | - |  | - |
| Repurchase Agreements | 899,173 | 899,173 | - |  | - |  | - |
| Certificates of Deposit | 950,141 | 72,008 | 878,133 |  | - |  | - |
| Bank Notes | 601,515 | 36,598 | 564,917 |  | - |  | - |
| Other | 45,755 | 44,951 | 804 |  | - |  | - |
| Total | \$4,962,562 | \$2,223,993 | \$2,738,569 | \$ | - | \$ | - |
| Percent of Securities-Lending Portfolio | 100.00\% | 44.82\% | 55.18\% |  | 0.00\% |  | 0.00\% |

## 4. Contributions and Actuarial Assumptions

The financial objective of the Plan is to fund members' retirement benefits during their active service and to establish Employer contribution rates which, expressed as a percentage of annualized covered payroll, will remain approximately level from year to year. Under current law, the Employer contributes statutorily-required contributions (Statutory Contributions) that together with Member Contributions and investment income would ultimately be sufficient to accumulate assets to pay benefits when due.

## (a) Actuarial Change

The changes in actuarial assumptions and methods effective Fiscal Year 2006 resulted in approximately a $\$ 159$ million decrease in Employer Contributions for Fiscal Year 2006 and an increase in Employer Contributions for future fiscal years.

## (b) Member Contributions

Members who joined prior to July 27, 1976 contribute by salary deductions on the basis of a normal rate of contribution that is assigned by the Plan at membership. This member normal rate, which is dependent upon age, years of prior service, and actuarial tables in effect at the time of membership, is determined so as to provide approximately one-third of the service retirement allowance at the earliest age for service retirement. For age at membership equal to 20 and with no prior service, the member normal rate is equal to $4.6 \%$. For age at membership equal to 40 with no prior service, the member normal rate is equal to $3.6 \%$.

Members who joined on or after July 27, 1976 are mandated to contribute 3\% of salary. Effective October 1, 2000, these members are not required to make contributions after the tenth anniversary of their membership date or completion of ten years of credited service, whichever is earlier.

## (c) Employer Contributions

Statutory Contributions to the Plan, determined by the Plan's Chief Actuary of the Office of the Actuary (the Actuary) in accordance with the State statutes and City laws, are generally funded by the Employer within the appropriate fiscal year.

The June 30, 2005 (Lag) actuarial valuation was used to determine the Fiscal Year 2007 Employer Contribution. There were no changes in actuarial assumptions and methods from the prior actuarial valuation.

The June 30, 2004 (Lag) actuarial valuation was used to determine the Fiscal Year 2006 Employer Contribution based on revised actuarial assumptions and methods proposed by the Actuary. Where required, the Retirement Board of the Plan adopted those changes to the actuarial assumptions that required Board approval and the State Legislature and Governor enacted Chapter 152 of the Laws of 2006 (Chapter 152/06) to provide for those changes in actuarial assumptions and methods that required legislation, including the continuation of the Actuarial Interest Rate (AIR) assumption of $8.0 \%$ per annum.

Chapter 152/06 established the One-Year Lag Methodology to determine the Fiscal Year 2006 Employer Contribution using a June 30, 2004 valuation date. This methodology requires technical adjustments to certain components used to determine the Fiscal Year 2006 Employer Contribution.

Chapter 152/06 also eliminated the use of the ten-year phase-in of Chapter 278 of the Laws of 2002 (Chapter 278/02) for funding the additional actuarial liabilities created by the benefits provided by Chapter 125 of the Laws of 2000 (Chapter 125/00).

The Frozen Initial Liability Actuarial Cost Method is utilized by the Actuary to calculate the contributions from the Employer. Under this actuarial cost method, the Initial Liability was reestablished by the Entry Age Actuarial Cost Method as of June 30, 1999, but with the Unfunded Actuarial Accrued

Liability (UAAL) not less than zero. The excess of the Actuarial Present Value (APV) of projected benefits of members as of the valuation date, over the sum of the Actuarial Asset Value (AAV) plus UAAL, if any, and the APV of future employee contributions is allocated on a level basis over the future earnings of members who are on the payroll as of the valuation date. Actuarial gains and losses are reflected in the employer normal contribution rate.

Chapter 85/00 reestablished the UAAL and eliminated the Balance Sheet Liability (BSL) for actuarial purposes as of June 30, 1999. The schedule of payments toward the reestablished UAAL provides that the UAAL, if any, be amortized over a period of 11 years beginning Fiscal Year 2000, where each annual payment after the first equals $103 \%$ of its preceding annual payment.

Chapter 69 of the Laws of 2002 established the UAAL as of June 30, 2003, for an Early Retirement Incentive (Part A only). This UAAL is being amortized on a level basis over a period of five years beginning Fiscal Year 2004.

For the June 30, 2004 (Lag) actuarial valuation, the Actuarial Asset Valuation Method (AAVM) was changed to a method which reset the AAV to Market Value (i.e., Market Value Restart) as of June 30, 1999. As of each June 30 thereafter the AAVM recognizes investment returns greater or less than expected over a period of six years.

Under this revised AAVM, any Unexpected Investment Returns (UIR) for Fiscal Years 2000 and later are phased into the AAV beginning the following June 30 at a rate of $15 \%, 15 \%, 15 \%, 15 \%, 20 \%$ and $20 \%$ per year (or cumulative rates of $15 \%, 30 \%, 45 \%, 60 \%, 80 \%$ and $100 \%$ over a period of six years).

These revised averaging factors were applied against the UIR computed under the prior five-year AAVM used for Fiscal Years 2000 to 2004.

The revised AAV was utilized for the first time in the June $30,2004(\mathrm{Lag})$ actuarial valuation to determine the Fiscal Year 2006 Employer Contribution in conjunction with the One-Year Lag Methodology and the revised economic and noneconomic assumptions.

For Fiscal Years 2000 through 2005 inclusive, the AAVM was changed as of June 30, 1999 to reflect a market basis for investments held by the Plan. This AAVM recognized expected investment returns immediately and phased in UIR.

Under this AAVM, any UIR for Fiscal Years 2000 through 2005 inclusive were phased into the AAV beginning the following June 30 at a rate of $10 \%, 15 \%, 20 \%, 25 \%$ and $30 \%$ per year (i.e., cumulative rates of $10 \%, 25 \%, 45 \%, 70 \%$ and $100 \%$ over a period of five years).

For assets of the Variable Annuity Program, current market value is used.
Chapter 125/00 provided eligible retirees and eligible beneficiaries with increased Supplementation as of September 2000 and with automatic Cost-of-Living Adjustments (COLA) beginning September 2001. Chapter 125/00 also provided for a five-year phase-in schedule for funding the additional actuarial liabilities created by the benefits provided by this law. Chapter 278/02 required the Actuary to revise the methodology and timing for determining the Statutory Contributions on account of the additional actuarial liabilities attributable to the benefits provided under Chapter 125/00 by extending the phase-in period for funding these liabilities from five years to ten years. The impact of the ten-year phase-in of Chapter 278/02 was to postpone funding of the additional actuarial liabilities attributable to Chapter 125/00, resulting in greater Employer Contributions in later years.

Chapter 152/06 eliminated the ten-year phase-in. All actuarial liabilities attributable to Chapter 125/00 are now recognized in the actuarial valuation.

Statutory Contributions for Fiscal Years 2007 and 2006 were equal to the amounts calculated by the Actuary.

## 5. Member Loans

Members are permitted to borrow up to $75 \%$ of their own contributions, including accumulated interest. The balance of member loans receivable at June 30,2007 and 2006 is $\$ 131.7$ million and $\$ 130.8$ million, respectively. Upon termination of employment before retirement, certain members are entitled to refunds of their own contributions, including accumulated interest, less any loans outstanding.

## 6. Related Parties

The Comptroller has been appointed by law as custodian for Fixed Annuity Program assets with discretionary authority. Securities are held by certain banks under custodial agreements with the Comptroller. The Comptroller, Financial Information Services Agency (FISA) and Office of Payroll Administration (OPA) provide cash receipt and cash disbursement services to the Plan. Actuarial services are provided to the Plan by the Office of the Actuary employed by the Boards of Trustees of the City's main pension systems. The City's Corporation Counsel provides legal services to the Plan. The City also provides other administrative services. The cost of providing such services amounted to $\$ 8.6$ million and $\$ 7.3$ million in Fiscal Years 2007 and 2006.

## 7. Administrative and Investment Expenses

Chapter 593 of the Laws of 1996, effective July 1, 1996, authorized the Board of Trustees to draw upon its assets to pay the administrative expenses incurred by the Plan. Prior to Fiscal Year 1997, the City and Variable A and Variable B Annuity Programs had paid all administrative expenses. In Fiscal Year 2007, total expenses attributed to the Plan were approximately $\$ 46.2$ million; $\$ 37.6$ million was paid from the assets of the Plan. The remaining $\$ 8.6$ million were incurred on behalf of the Plan by other City agencies, primarily the Comptroller's office. In Fiscal Year 2006, total expenses attributed to the Plan were approximately $\$ 41.2$ million, $\$ 33.9$ million was paid from the assets of the Plan and the remaining $\$ 7.3$ million was paid by other City agencies on behalf of the Plan. Investment expenses charged to the investment earnings of the Plan amounted to $\$ 81.7$ million in 2007 and $\$ 63.3$ million in 2006.

## 8. Contingent Liabilities and Other Matters

## Contingent Liabilities

In February 1997, a former New York City school principal filed an action in New York State Supreme Court challenging the investment policies and practices of the Retirement Board with regard to the Variable B Annuity Program. The plaintiff alleges that the Trustees of the Plan illegally maintained the Variable B Annuity Program as a fixed-income fund and ignored a requirement that a substantial amount of the Program's assets be invested in equity securities. The Plan and the individual Trustees are the defendants in the case. Plaintiff seeks damages on behalf of all Variable B Annuity Program participants in excess of $\$ 250$ million. In May 1999, the Appellate Division, First Department, affirmed the Supreme Court's earlier denial of the defendant's motion for summary judgment. The discovery process has been completed and a motion for summary judgment is pending. Subsequently, during September 2005, this case was tried in New York Supreme Court. The plaintiff failed to meet his burden of proof that the Trustees of the Plan breached their fiduciary duty to the members. As such, the within complaint was dismissed, and judgment was entered for the defendants. The plaintiff filed a notice of appeal in June 2006.

In August 2002, a lawsuit was instituted on behalf of retired Plan members seeking service credit for work performed as "per session employment." Plaintiffs' request to proceed as a class action was granted by the lower court. Subsequently, the parties have developed an initial settlement agreement and negotiations continue. Final agreement, if consistent with the initial agreement, is expected to result in substantial costs to the Employer.

In March 2005, the President of the UFT and three retired teachers commenced two related lawsuits alleging miscalculation of the retirement formula applicable to TRS members who retire under the 20 -Year Pension Plan. If the plaintiffs were to prevail in the action, it could result in substantial costs to the Employer. The City moved to dismiss one of the lawsuits in April 2006.

The Plan also has certain other contingent liabilities. Management of the Plan, on advice from legal counsel, believes that such proceedings and contingencies will not have a material effect on Plan net assets or cause changes in Plan net assets. Under the State statutes and City laws that govern the functioning of the Plan, increases in the obligation of the Plan to members and beneficiaries ordinarily result in increases in the obligations of the Employer to the Plan.

## Other Matters

During Fiscal Years 2007 and 2006, certain events described below took place which, in the opinion of Plan management, could have the effect of increasing benefits to members and/or their beneficiaries and therefore would increase the obligations of the Plan. The effect of such events has not been fully quantified. However, it is the opinion of Plan management that such developments would not have a material effect on Plan net assets held in trust for pension benefits or cause changes in Plan net assets held in trust for pension benefits.

## (a) Actuarial Audit

Pursuant to Section 96 of the New York City Charter, studies of the actuarial assumptions used to value liabilities of the five actuarially-funded New York City Retirement Systems (NYCRS) are conducted every two years. The most recent study was published by The Segal Company (Segal) dated November 2006 and analyzed experience for Fiscal Years 2002 through 2005. Segal made recommendations to the actuarial assumptions and methods based on their analysis. The Actuary is reviewing these recommendations.

## (b) Revised Actuarial Assumptions and Methods

In accordance with the ACNY and with appropriate practice, the Boards of Trustees of the five actuarially-funded NYCRS are to periodically review and adopt actuarial assumptions as proposed by the Actuary for use in the determination of Employer Contributions.

Based upon a review of an October 2003 experience study by Gabriel, Roeder, Smith \& Company (GRS), the Actuary issued an August 31, 2005 Report entitled "Proposed Changes in Actuarial Assumptions and Methods for Determining Employer Contributions for Fiscal Years Beginning On and After July 1, 2005 for the New York City Teachers' Retirement System" (August 2005 Report). Where required, the Retirement Board of the Plan adopted those changes to actuarial assumptions that required Board approval and the State Legislature and the Governor enacted Chapter 152/06 to provide for those changes to the actuarial assumptions and methods that required legislation, including the AIR assumption of $8.0 \%$ per annum.

The changes in actuarial assumptions and methods effective Fiscal Year 2006 result in somewhat lesser Employer Contributions for Fiscal Years 2007 and 2006 and increased Employer Contributions for future fiscal years.

## (c) New York State Legislation

Chapter 104 of the Laws of 2005, as amended by Chapter 93 of the Laws of 2005, created a presumptive eligibility for accidental disability in connection with the World Trade Center attack on September 11, 2001.

Chapter 152/06 provided for the changes in actuarial assumptions and methods that require legislation, including the continuation of the AIR assumption of $8.0 \%$ per annum and continuation of the current Frozen Initial Liability (FIL) Actuarial Cost Method and the existing Unfunded Actuarial (Accrued) Liability (UAL). In addition, Chapter 152/06 provides for elimination of the use of the ten-year phase-in of Chapter 278/02 for funding the additional actuarial liabilities created by the benefits provided by Chapter 125/00.

Chapter 445 of the Laws of 2006 creates a presumptive eligibility for accidental death benefits in connection with the World Trade Center attack on September 11, 2001.

| SCHEDULE 1: FUNDING PROGRESS (UNAUDITED) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (In Thousands) |  |  |  |  |  |  |  |

* Based on the Frozen Initial Liability Actuarial Cost Method.
** The annualized covered payroll under the One-Year Lag Methodology used for the Fiscal Year 2006 Employer Contribution differs from that as of June 30, 2004 to compute Fiscal Year 2005 Employer Contribution due to changes in actuarial assumptions and more recent information on labor contract settlements.


## NOTES

(A) The AAVM in use for the June 30, 2004 (Lag) and later actuarial valuation resets the AAV to Market Value (i.e., "Market Value Restart") as of June 30, 1999. As of each June 30 thereafter the AAVM recognizes investment returns greater or less than expected over a period of six years. Under this revised AAVM, actual UIR for Fiscal Years 2000, 2001, etc., are phased into the AAV beginning June 30, 2000, 2001, etc., at rates of $15 \%$, $15 \%, 15 \%, 15 \%, 20 \%$, and $20 \%$ per year (i.e., cumulative rates of $15 \%, 30 \%, 45 \%, 60 \%, 80 \%$ and $100 \%$ over a period of six years).
These revised averaging factors were applied against the UIR computed under the prior five-year AAVM used for Fiscal Years 2000 to 2004.
The revised AAV was utilized for the first time in the June 30, 2004 (Lag) actuarial valuation to determine the Fiscal Year 2006 Employer Contribution in conjunction with the One-Year Lag Methodology and the revised economic and noneconomic assumptions in accordance with the August 2005 Report.
As of June 30, 1999, the economic and noneconomic assumptions were revised due to experience review. The AAVM was changed as of June 30, 1999 to reflect a market basis for investments held by the Plan and was made as one component of an overall revision of actuarial assumptions and methods as of June 30, 1999.
Under the AAVM used for the June 30, 1999 to June 30, 2004 actuarial valuations, any UIR for Fiscal Years 2000 and later were phased into the AAV beginning the following June 30 at a rate of $10 \%, 15 \%, 20 \%, 25 \%$ and $30 \%$ per year (i.e., cumulative rates of $10 \%, 25 \%, 45 \%, 70 \%$ and $100 \%$ over a period of five years).
(B) To effectively assess the funding progress of the Plan, it is necessary to compare the AAV and the AAL calculated in a manner consistent with the Plan's funding method over a period of time. The AAL is the portion of the Actuarial Present Value of pension plan benefits and expenses which is not provided for by future Employer normal costs and future Member Contributions.
(C) The UAAL is the excess of the AAL over the AAV. This is the same as the unfunded frozen AAL, which is not adjusted from one actuarial valuation to the next to reflect actuarial gains and losses.
\(\left.\begin{array}{ccc}\hline SCHEDULE 2: EMPLOYER CONTRIBUTIONS (UNAUDITED) <br>

(In Thousands)\end{array}\right]\)| Annual Required Contribution | Percentage Contributed |  |
| :---: | :---: | :---: |
| Fiscal Year Ended June 30 | $\$ 1,600,904$ | $100.0 \%$ |
| 2007 | $1,316,611$ | 100.0 |
| 2006 | $1,304,033$ | 94.2 |
| 2005 | $1,015,331$ | 90.6 |
| 2004 | 805,782 | 79.4 |
| 2003 | 607,763 | 83.9 |

Under the requirements of Governmental Accounting Standards Board Statement Number 25 (GASB 25), the Annual Required Contribution (ARC) is determined through an actuarial valuation reflecting all liabilities of the Plan. The Employer Contribution to the Plan is determined in accordance with statute (i.e., Statutory Contribution). For Fiscal Years 2005, 2004 and 2003, the difference between the ARC and the Statutory Contribution is the consequence of Chapter 278/02 which phased in over 10 years the additional actuarial liabilities attributable to the benefits provided by Chapter 125/00 (i.e., automatic COLA). For Fiscal Years 2002 and 2001, the difference between the ARC and the Statutory Contribution is the consequence of Chapter 125/00 which phased in over 5 years the additional actuarial liabilities attributable to this law.
The Statutory Contributions of $\$ 1.2$ billion, $\$ 920.3$ million, $\$ 639.6$ million and $\$ 509.9$ million for Fiscal Years 2005, 2004, 2003 and 2002, respectively, were computed in accordance with Chapter 125/00, which provides for a five-year phase-in of the additional actuarial liabilities attributable to Chapter 125/00 and Chapter 278/02 which extended the phase-in period for funding these liabilities from five years to ten years.
Chapter 152/06 eliminated the use of the ten-year phase-in of Chapter 278/02 for funding the additional actuarial liabilities created by the benefits provided by Chapter 125/00. For Fiscal Years 2007 and 2006 the Statutory Contribution equals the ARC.

## SCHEDULE 3: ACTUARIAL METHODS AND ASSUMPTIONS (UNAUDITED)

The information presented in the required supplementary schedules was determined as part of the actuarial valuations as of June 30, 2005 (Lag) and June 30, 2004 (Lag). These actuarial valuations were used to determine Employer Contributions for Fiscal Years 2007 and 2006, respectively. Additional information as of the last two actuarial valuations follows:

June 30, 2005 (Lag) ${ }^{1}$
June 30, 2004 (Lag) ${ }^{1}$
Actuarial cost method
Amortization method for Unfunded
Actuarial Accrued Liabilities

## Remaining amortization period

Actuarial asset valuation method
Frozen Initial Liability
Level dollar for UAAL attributable to 2002
(Part A only) Early Retirement Incentive
(ERI). All outstanding components of
UAAL are being amortized over closed
periods. ${ }^{3}$
2 years for 2002 ERI (Part A only)
Modified six-year moving average of
market values with a "market value
restart" as of June 30, 1999. For assets of
Variable Annuity Program, current market
value. value.
$8.0 \%$ per annum ${ }^{4}$ (4.0\% per annum for benefits payable under the Variable Annuity Programs).

Tables adopted by Retirement Board during Fiscal Year 2006.

Tables adopted by Retirement Board during Fiscal Year 2006.

In general, merit and promotion increases plus assumed general wage increases of $3.0 \%$ per year. ${ }^{4}$
$1.3 \%$ per annum ${ }^{4}$

Frozen Initial Liability ${ }^{2}$
Level dollar for UAAL attributable to 2002 (Part A only) Early Retirement Incentive (ERI). All outstanding components of UAAL are being amortized over closed periods. ${ }^{3}$

3 years for 2002 ERI (Part A only)
Modified six-year moving average of market values with a "market value restart" as of June 30, 1999. For assets of Variable Annuity Program, current market value.

## Actuarial assumptions:

| Investment rate of return | $8.0 \%$ per annum ${ }^{4}(4.0 \%$ per annum for <br> benefits payable under the Variable <br> Annuity Programs). | $8.0 \%$ per annum ${ }^{4}(4.0 \%$ per annum for <br> benefits payable under the Variable |
| :--- | :--- | :--- |
| Annuity Programs). |  |  |

## SCHEDULE 4: INVESTMENT EXPENSES <br> Year Ended June 30, 2007 (Unaudited)

| INVESTMENT EXPENSES Investment Agent | Service | TRS' Share of Fees and Commissions Paid |
| :---: | :---: | :---: |
| FIXED ANNUITY PROGRAM |  |  |
| Adelante Capital Management | Investment Manager | \$1,368,455 |
| Aeltus Investment Management, Inc. | Investment Manager | 914,456 |
| AFL-ClO Housing Invest. | Investment Manager | 332,517 |
| Aisling | Investment Manager | 107,980 |
| AMB Alliance Fd III | Investment Manager | 52,350 |
| Apollo Investment VI | Investment Manager | 178,601 |
| Apollo Real Estate Fund V | Investment Manager | 204,477 |
| ARES Corp. | Investment Manager | 75,376 |
| ARES Corp. OPP II | Investment Manager | 528,673 |
| Ariel Capital Mgmt. Inc.-Mid. Cap. \& Small Cap. | Investment Manager | 1,203,769 |
| Arsenal Cap. Ptnrs II | Investment Manager | 136,459 |
| Aurora Capital Equity Partners | Investment Manager | 330,156 |
| Avista Capital Ptnrs | Investment Manager | 793,124 |
| Bank of Ireland Asset Management (U.S.) Limited | Investment Manager | 713,168 |
| Barclays Global Investors N.A. | Investment Manager | 366,442 |
| BDCM OPP | Investment Manager | 549,259 |
| BDCM OPP Fund II | Investment Manager | 437,162 |
| BlackRock TIPS MTA | Investment Manager | 149,141 |
| BlackRock Financial Management - Corp. | Investment Manager | 258,003 |
| BlackRock Financial Management - Mortgage | Investment Manager | 338,703 |
| Blackstone Capital | Investment Manager | 33,124 |
| Blackstone Capital V | Investment Manager | 309,003 |
| Blackstone Mezz Partners II | Investment Manager | 167,175 |
| Blackstone RE | Investment Manager | 172,538 |
| Bridgepoint Europe III | Investment Manager | 423,976 |
| Canyon Johnson | Investment Manager | 422,907 |
| Canyon Johnson URB | Investment Manager | 450,001 |
| Capital Guardian Trust Co. (Domestic Eq.) | Investment Manager | 438,649 |
| Capital Guardian Trust Co. ( $\mathrm{Int}^{\prime}$ ) | Investment Manager | 5,366,655 |
| Catterton Ptnrs VI | Investment Manager | 792,073 |
| CCMP Capital Investors II | Investment Manager | 271,555 |
| CD \& R Fund VII, L.P. | Investment Manager | 280,316 |
| Celtic Pharm HIdgs, L.P. | Investment Manager | 4,160,000 |
| Chicago Equity Partners | Investment Manager | 615,977 |
| City Investment Fund | Investment Manager | 1,875,832 |
| Coller Capital | Investment Manager | 434,612 |
| Cony EAFE | Investment Manager | 94,665 |
| Cony GTM EAFE | Investment Manager | 8,522 |
| Cypress Associates | Investment Manager | 215,705 |
| Erasmus NYC Growth Fund, L.P. | Investment Manager | 689,685 |
| Ethos Private Equity Fund | Investment Manager | 266,495 |
| Fairview Capital Partners | Investment Manager | 213,176 |
| FdG Capital Partners | Investment Manager | 298,502 |
| FdG Capital Partners II | Investment Manager | 442,992 |
| First Reserve Fd XI | Investment Manager | 315,840 |
| Fisher, Francis, Trees \& Watts, Inc. - Gov't | Investment Manager | 438,708 |
| Fisher, Francis, Trees \& Watts, Inc. - Int'\| | Investment Manager | 271,530 |
| Fourth Cinven Fd | Investment Manager | 465,186 |
| Freeman Spogli \& Co., Inc. | Investment Manager | 310,890 |
| FT Ventures Fd III | Investment Manager | 174,590 |
| G.E. Investment Management, Inc. | Investment Manager | 2,330,934 |
| G I Partners | Investment Manager | 162,487 |
| GSC Recovery | Investment Manager | 125,000 |
| Heitman America | Investment Manager | 18,301 |
| Intermedia Partners VII, L.P. | Investment Manager | 263,933 |
| J.P. Morgan | Investment Manager | 134,023 |
| Landmark Eq. XI | Investment Manager | 170,832 |
| Landmark Fund XIII | Investment Manager | 125,000 |
| Leeds Weld Equity Partners | Investment Manager | 314,638 |
| Lehman Brothers - (Alternative Inv.) | Investment Manager | 462,360 |
| Lehman Brothers - Govt | Investment Manager | 71,503 |
|  |  | Continued on page 63 |


| INVESTMENT EXPENSES Investment Agent | Service | TRS' Share of Fees and Commissions Paid |
| :---: | :---: | :---: |
| Lehman Brothers - Mortgage | Investment Manager | 226,333 |
| Lincolnshire Equity Fund III | Investment Manager | 359,990 |
| Mackay Shields | Investment Manager | 1,845,246 |
| Markstone Capital Partners | Investment Manager | 799,900 |
| Mellon Capital Management | Investment Manager | 126,911 |
| Midocean Partners III | Investment Manager | 1,005,227 |
| Mondrian MTA | Investment Manager | 3,526,397 |
| Montreux Eq. Partners IV | Investment Manager | 183,078 |
| Morgan Stanley (Domestic Eq.) | Investment Manager | 2,822,119 |
| Morgan Stanley Mortgage | Investment Manager | 640,201 |
| New Mountain Partners | Investment Manager | 229,351 |
| New Mountain Partners II | Investment Manager | 392,047 |
| OCM Re Opp Fund | Investment Manager | 172,593 |
| Paladin Homeland Security | Investment Manager | 393,133 |
| Palladium Equity Partners | Investment Manager | 528,211 |
| PIMCO Advisor - Gov't | Investment Manager | 281,293 |
| PIMCO Advisor - Mortgage | Investment Manager | 802,057 |
| PIMCO TIPS MTA | Investment Manager | 482,037 |
| PRE Colony Realty Partners | Investment Manager | 242,164 |
| PRE JPMC SP Fd | Investment Manager | 255,609 |
| PRE JPMC SS Fd | Investment Manager | 142,107 |
| PRE Urban America II | Investment Manager | 137,500 |
| PRE Ventures Fund IV | Investment Manager | 104,320 |
| Prisa | Investment Manager | 213,834 |
| Prism Venture Partners V | Investment Manager | 437,176 |
| Quadrangle Capital Partners II | Investment Manager | 181,060 |
| Relational Investors X, L.P. | Investment Manager | 406,994 |
| Ripplewood Partners | Investment Manager | 160,199 |
| Rowe Price Fleming International Inc. | Investment Manager | 1,590,287 |
| RRE Ventures III, L.P. | Investment Manager | 520,703 |
| RRE Ventures IV, L.P. | Investment Manager | 625,000 |
| RREEF Amer. II | Investment Manager | 234,244 |
| SCP Private Equity Partners | Investment Manager | 229,436 |
| Security Capital | Investment Manager | 1,222,684 |
| Seix | Investment Manager | 680,027 |
| Shamrock Capital | Investment Manager | 515,000 |
| Shenkman Capital | Investment Manager | 1,334,860 |
| Silver Lake | Investment Manager | 334,877 |
| Solera Partners | Investment Manager | 356,602 |
| Sprucegrove Investment Management, Ltd. | Investment Manager | 2,806,421 |
| State Street TIPS MTA | Investment Manager | 15,067 |
| Stone Harbor | Investment Manager | 847,649 |
| T. Rowe Price - Corp. | Investment Manager | 305,718 |
| T. Rowe Price Associates, Inc. | Investment Manager | 1,172,334 |
| Taplin, Canida \& Habacht | Investment Manager | 480,217 |
| Terra Firma Cap. III | Investment Manager | 529,620 |
| Thomas H Lee Equity Fd VI | Investment Manager | 713,577 |
| Thomas McNerney Ptnrs | Investment Manager | 227,092 |
| Thomas McNerney Ptnrs II | Investment Manager | 375,000 |
| Tishman Speyer | Investment Manager | 798,260 |
| U.S. Power Fund II | Investment Manager | 384,163 |
| UBS Resa | Investment Manager | 340,675 |
| VSS Comm | Investment Manager | 340,792 |
| Westpeak Investment Advisors L.P. | Investment Manager | 439,699 |
| Yucaipa American Alliance Fund | Investment Manager | 877,884 |
| Legal Fees |  | 135,401 |
| Consultant Fees | Investment Consultant | 2,112,549 |
| TOTAL FIXED ANNUITY PROGRAM |  | \$71,281,086 |

# SCHEDULE 4: INVESTMENT EXPENSES (Continued) <br> Year Ended June 30, 2007 (Unaudited) 

| INVESTMENT EXPENSES |  | TRS' Share of Fees <br> Investment Agent |
| :--- | :--- | ---: |
| VARIABLE A ANNUITY PROGRAM | Service |  |
| and Commissions Paid |  |  |

* Total Investment Expenses does not include $\$ 2,082,451$ Variable $A$ and $B$ provisions for expenses.

See Notes to Financial Statements, No. 7, Administrative and Investment Expenses.

## SCHEDULE 5: PROFESSIONAL FEES <br> Year Ended June 30, 2007 (Unaudited)

Professional
Bank of New York
Interactive Data
Mellon
Pacific Group
Rocaton Investment Advisors
Townsend Real Estate

Nature of Service

| Custody Services | $\$ 601,105$ |
| :--- | ---: |
| Investment Service | 22,608 |
| Custody Services | 160,869 |
| Consulting Services | 975,992 |
| Investment Advisors | 517,046 |
| Consulting Services | 226,114 |

## SCHEDULE 6: ADMINISTRATIVE EXPENSES Year Ended June 30, 2007 (Unaudited)

| PERSONNEL SERVICES |  |  |  |
| :---: | :---: | :---: | :---: |
| Staff Salaries | \$18,537,723 |  |  |
| Social Security | 1,022,510 |  |  |
| Insurance (Health) | 1,646,307 |  |  |
| Welfare Benefit Fund | 795,350 |  |  |
| TOTAL PERSONNEL SERVICES |  | \$22,001,890 |  |
| PROFESSIONAL SERVICES |  |  |  |
| Data Processing Support Services | \$ 3,619,253 |  |  |
| Temporary and Consulting Services | 1,087,934 |  |  |
| Professional Services | 534,419 |  |  |
| TOTAL PROFESSIONAL SERVICES |  | \$ 5,241,606 |  |
| COMMUNICATION |  |  |  |
| Telephone | \$ 284,858 |  |  |
| Postage | 503,890 |  |  |
| Local Traveling Expenses* | 31,702 |  |  |
| Non-Local Traveling Expenses** | 31,922 |  |  |
| TOTAL COMMUNICATION |  | \$ 852,372 |  |
| RENTALS |  |  |  |
| Office Space | \$ 4,162,923 |  |  |
| Equipment Leasing | 355,798 |  |  |
| Cold Site | 203,069 |  |  |
| Relocation Expenses | 3,127,002 |  |  |
| TOTAL RENTALS |  | \$ 7,848,792 |  |
| MISCELLANEOUS |  |  |  |
| Utilities | \$ 287,150 |  |  |
| Supplies and Materials | 61,766 |  |  |
| Maintenance, Repairs, and Services | 356,708 |  |  |
| Office Equipment and Furniture | 146,597 |  |  |
| Advertising Expenses | 61,894 |  |  |
| Storage | 84,802 |  |  |
| Printing | 356,487 |  |  |
| Training Program | 197,306 |  |  |
| Books | 7,053 |  |  |
| Miscellaneous | 60,550 |  |  |
| TOTAL MISCELLANEOUS |  | \$ 1,620,313 |  |
| TOTAL ADMINISTRATIVE EXPENSES*** |  |  | \$ 37,564,973 |

* Includes Local Travel Fare \$14,419, Courier \$10,928, and Meals \& Refreshments \$6,355.
** Includes Hotels \& Meals \$12,490, Travel Fare \$7,814, and Conferences \$11,618.
*** The Plan's expenses account for $76 \%$ of total TRS administrative expenses, the balance or $\$ 10,855,415$ paid by the TDA plan and loan service charge revenues. Other administrative expenses of $\$ 8,611,335$ were paid on TRS' behalf by other City agencies under Regulation 85 of the New York State Superintendent of Insurance Regulations.
See Notes to Financial Statements, No. 7, Administrative and Investment Expenses.


# Financial Section (TDA) 

Independent Auditors' Report<br>69<br>Management's Discussion and Analysis 70<br>Statement of Plan Net Assets 74<br>Statement of Changes in Plan Net Assets 75<br>Notes to Financial Statements 76<br>Schedule 1—Investment Expenses 83<br>Schedule 2-Professional Fees 84<br>Schedule 3—Administrative Expenses 84

## Deloitte.

## Independent Auditors' Report

To the Board of Trustees<br>Teachers' Retirement System of the City of New York<br>Tax-Deferred Annuity Program

We have audited the accompanying statements of Plan net assets of the Teachers' Retirement System of the City of New York Tax-Deferred Annuity Program (the TDA Program or the Plan) as of June 30, 2007 and 2006, and the related statements of changes in Plan net assets for the years then ended. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such financial statements present fairly, in all material respects, the net assets of the Plan as of June 30, 2007 and 2006, and the changes in its net assets for the years then ended in conformity with accounting principles generally accepted in the United States of America.

Management's Discussion and Analysis is not a required part of the financial statements, but is supplementary information required by the Governmental Accounting Standards Board (GASB). We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the required supplementary information. However, we did not audit this information and express no opinion on it.

## Debitte +Touche LLA

October 30, 2007

## Management's Discussion and Analysis (Unaudited)

This narrative discussion and analysis of the Teachers' Retirement System of the City of New York Tax-Deferred Annuity Program's (the TDA Program or the Plan) financial performance provides an overview of the Plan's financial activities for the fiscal years ended June 30, 2007, 2006, and 2005. It is meant to assist the reader in understanding the TDA Program's financial statements by providing an overall review of the financial activities during the two years and the effects of significant changes, as well as a comparison with prior years' activity and results. This discussion and analysis is intended to be read in conjunction with the Plan's financial statements, which begin on page 74.

The Teachers' Retirement System of the City of New York (TRS) maintains the TDA Program and the TRS Qualified Pension Plan (QPP). The TDA Program became effective February 1, 1970 and was established pursuant to and is administered according to the rules and regulations of Internal Revenue Code Section 403(b).

Members of the TRS QPP have the option to participate in the TDA Program, which provides a means of deferring income tax payments on members' voluntary contributions until the period after retirement or upon withdrawal of contributions.

## Overview of Basic Financial Statements

The following discussion and analysis is intended to serve as an introduction to the TDA Program's basic financial statements. The basic financial statements are as follows:

- The Statement of Plan Net Assets presents the financial position of the Plan at fiscal year-end. It indicates the assets available for payment of future benefits and any current liabilities that are owed as of the statement date. Investments are shown at fair value. All other assets and liabilities are determined on an accrual basis.
- The Statement of Changes in Plan Net Assets presents the results of activities during the fiscal year. All changes affecting the assets and liabilities of the Plan are reflected on an accrual basis when the activity occurred, regardless of the timing of the related cash flows. In that regard, changes in the fair values of investments are included in the year's activity as net appreciation (depreciation) in fair value of investments.
- The Notes to Financial Statements provide additional information that is essential to a full understanding of the data provided in the financial statements. The notes present information about the TDA Program's accounting policies, significant account balances and activities, material risks, obligations, contingencies, and subsequent events, if any.
The financial statements are prepared in accordance with Governmental Accounting Standards Board (GASB) Pronouncements.


## Financial Highlights

The TDA Program's total assets exceeded its liabilities by $\$ 16.4$ billion, $\$ 14.1$ billion and $\$ 12.6$ billion as of June 30, 2007, 2006, and 2005, respectively. These net assets are held in trust for the payment of future benefits to members and pensioners.

The TDA Program's net assets held in trust, at June 30, 2007, increased by $\$ 2.3$ billion from June 30, 2006 and $\$ 3.8$ billion from June 30, 2005. These represent respective increases of $16.0 \%$ and $29.9 \%$.

| STATEMENT OF PLAN NET ASSETS |  |  |  |
| :---: | :---: | :---: | :---: |
|  | As of June 30 |  |  |
|  | 2007 | 2006 | 2005 |
| Cash | 40,982 | \$ 40,445 | 62,440 |
| Receivables for investment securities sold | 71,559,142 | 3,013,855 | 2,144,954 |
| Receivables for accrued interest and dividends | 36,885,825 | 21,725,178 | 15,763,443 |
| Receivable from TRS QPP | 14,417,484 | 23,337,320 | 27,316,963 |
| Member loan receivables | 220,544,412 | 194,890,597 | 180,501,089 |
| Investments, at fair value | 18,132,080,518 | 15,217,609,401 | 14,148,825,064 |
| TOTAL ASSETS | \$ 18,475,528,363 | \$ 15,460,616,796 | \$ 14,374,613,953 |
| Accounts payable | 109,482,019 | 97,515,589 | 93,390,372 |
| Payable for investment securities purchased | 70,851,101 | 4,518,431 | 4,704,086 |
| Accrued benefits payable | 48,565,295 | 54,244,650 | 45,436,185 |
| Payables for securities-lending transactions | 1,866,632,503 | 1,184,099,879 | 1,620,904,840 |
| TOTAL LIABILITIES | \$ 2,095,530,918 | \$ 1,340,378,549 | \$ 1,764,435,483 |
| PLAN NET ASSETS HELD IN TRUST FOR BENEFITS | \$ 16,379,997,445 | \$ 14,120,238,247 | \$ 12,610,178,470 |

Receivables for investment securities sold at June 30, 2007 amounted to $\$ 71.6$ million, an increase of $\$ 68.6$ million ( $2,274.3 \%$ ) from June 30 , 2006 and an increase of $\$ 69.4$ million ( $3,236.2 \%$ ) from June 30, 2005. This balance is principally composed of receivables for securities that have been sold but have not yet settled (i.e., the cash has not been collected). This increase resulted from timing differences in trading and settlement dates. Trades typically do not settle until a few days after the trade date.

Receivables for accrued earnings at June 30 , 2007 were $\$ 36.9$ million, an increase of $\$ 15.2$ million (69.8\%) over June 30, 2006 and $\$ 21.1$ million ( $134.0 \%$ ) over June 30, 2005.

Receivables from QPP represent the TDA share of investment income and receivables for securities from Variable Funds. Receivables from the TRS QPP at June 30, 2007 were $\$ 14.4$ million, a decrease of $\$ 8.9$ million (38.2\%) over June 30, 2006 and $\$ 12.9$ million ( $47.2 \%$ ) over June 30, 2005.

Member loan receivables amounted to $\$ 220.5$ million, an increase of $\$ 25.6$ million ( $13.2 \%$ ) from the prior June and $\$ 40.0$ million (22.2\%) from June 30, 2005. For Fiscal Year 2007, loan disbursements amounted to $\$ 115.5$ million and principal and interest payments amounted to $\$ 101.5$ million.

Investments at June 30, 2007 were $\$ 18.1$ billion, an increase of $\$ 2.9$ billion (19.2\%) from June 30, 2006 and $\$ 4.0$ billion ( $28.2 \%$ ) from June 30, 2005. Investments in equity securities accounted for $72.7 \%$ of the TDA Program's investments as of June 30, 2007 and $76.1 \%$ as of June 30, 2006.

Accounts payable at June 30,2007 amounted to $\$ 109.5$ million, compared to $\$ 97.5$ million at June 30 , 2006 for an increase of $12.3 \%$, and $\$ 93.4$ million at June 30,2005 for an increase of $17.2 \%$. The TDA Program's accounts payable balance primarily funds the TDA Program's investment and administrative expense payments.

Payables for investment securities purchased at June 30, 2007 amounted to $\$ 70.8$ million, increasing $\$ 66.3$ million ( $1,468.1 \%$ ) from June 30, 2006 and $\$ 66.1$ million ( $1,406.2 \%$ ) from June 30, 2005. Investments purchased are accounted for on a trade-date basis. This increase resulted from timing differences in settlement dates, similar to receivables for investments sold discussed earlier.

Accrued benefits payable at June 30, 2007 amounted to $\$ 48.6$ million, a decrease of $\$ 5.7$ million ( $10.5 \%$ ) from June 30, 2006 and an increase of $\$ 3.1$ million ( $6.9 \%$ ) from June 30, 2005. The $\$ 5.7$ million accrued benefit decrease from the period ended June 30, 2006 to June 30,2007 is attributed to a decline in pending membership withdrawals and benefits payable to beneficiaries.

## STATEMENT OF CHANGES IN PLAN NET ASSETS

Year Ended June 30
2007
2006
2005

| Additions: |  |  |  |
| :---: | :---: | :---: | :---: |
| Member contributions | \$ 579,380,931 | \$ 556,812,734 | \$ 493,523,473 |
| Net investment income | 2,047,234,891 | 1,294,161,402 | 1,004,892,433 |
| TOTAL NET ADDITIONS | \$ 2,626,615,822 | \$ 1,850,974,136 | \$ 1,498,415,906 |
| Deductions: |  |  |  |
| Administrative expenses | 10,855,415 | 8,889,316 | 8,497,278 |
| Benefits payments and withdrawals | 356,001,209 | 332,025,043 | 279,660,786 |
| TOTAL DEDUCTIONS | \$ 366,856,624 | \$ 340,914,359 | \$ 288,158,064 |
| NET INCREASE | \$ 2,259,759,198 | \$ 1,510,059,777 | \$ 1,210,257,842 |

## Changes in Plan Net Assets

TRS received $\$ 579.4$ million in member contributions during Fiscal Year 2007, an increase of $\$ 22.6$ million (4.1\%) from Fiscal Year 2006 and $\$ 85.9$ million (17.4\%) from Fiscal Year 2005.

Net investment income increased by $\$ 753.1$ million (58.2\%) from Fiscal Year 2006 and $\$ 1.0$ billion (103.7\%) from Fiscal Year 2005.

Administrative expenses for the fiscal year ended June 30, 2007 totaled $\$ 10.9$ million, an increase of $\$ 2.0$ million (22.1\%) from Fiscal Year 2006 and $\$ 2.4$ million (27.8\%) from Fiscal Year 2005.

Benefit payments and withdrawals, consisting primarily of total and partial withdrawals, increased by $\$ 24.0$ million ( $7.2 \%$ ) from Fiscal Year 2006 and by $\$ 76.3$ million (27.3\%) from Fiscal Year 2005.

## Investments

TRS uses the S\&P 500 and Russell 3000 indices to provide benchmarks for equity domestic and private investment returns and the MSCI EAFE index for international equity returns. The Citigroup BB \& B Rated and NYC indices are used to provide benchmarks for debt securities. The Wilshire Real Estate and NCREIF NPI indices and Solomon's two-year US treasury fund are used to provide benchmarks for mortgage investments and investment contracts, respectively. TRS does not use benchmarks for short-term investments.

Investments held by TRS are listed according to their investment classification in the following table:

## INVESTMENT SUMMARY

Fair Value

| Type of Investment | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 6}$ |
| :--- | ---: | ---: |
| Short-term investments | $\mathbf{5 1 3 , 7 9 0 , 6 0 3}$ | $\$ 408,643,817$ |
| U.S. debt securities (bonds) | $2,173,324,851$ | $1,650,152,415$ |
| U.S. equity securities | $11,742,265,863$ | $10,519,381,996$ |
| Private equity | $212,311,067$ | $114,953,963$ |
| Mutual funds-International equity | $1,219,332,499$ | $944,058,197$ |
| Treasury inflation-protected securities | $238,154,722$ | $208,364,439$ |
| Mortgage | $17,763,143$ | $10,292,097$ |
| Promissory notes | $2,304,849$ | $1,211,506$ |
| Managed investment contracts | $121,092,239$ | $121,702,788$ |
| Guaranteed investment contracts | $25,108,179$ | $54,748,304$ |
| Collateral from securities lending | $1,866,632,503$ | $\mathbf{1 , 1 8 4 , 0 9 9 , 8 7 9}$ |
| TOTAL | $\mathbf{\$ 1 8 , 1 3 2 , 0 8 0 , 5 1 8}$ | $\mathbf{\$ 1 5 , 2 1 7 , 6 0 9 , 4 0 1}$ |

## Contact Information

This financial report is designed to provide a general overview of the Teachers' Retirement System of the City of New York Tax-Deferred Annuity Program's finances. Questions concerning any data provided in this report or requests for additional information should be directed to Paul J. Raucci, Chief Accountant, Teachers' Retirement System of the City of New York, 55 Water Street, New York, NY 10041.

## STATEMENT OF PLAN NET ASSETS-TDA

|  |  | As of June 30 |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2007 |  | 2006 |  |
| ASSETS |  |  |  |  |
| Cash | \$ | 40,982 | \$ | 40,445 |
| Receivables: |  |  |  |  |
| Accrued interest and dividends receivable |  | 36,885,825 |  | 21,725,178 |
| Receivables for investment securities sold |  | 71,559,142 |  | 3,013,855 |
| Receivables from TRS QPP (Note 5) |  | 14,417,484 |  | 23,337,320 |
| Member loans |  | 220,544,412 |  | 194,890,597 |
| TOTAL RECEIVABLES | \$ | 343,406,863 | \$ | 242,966,950 |

Investments, at Fair Value (Notes 2 and 3):
Fixed funds:
Short-term investment fund 264,043,276 227,393,449

Debt securities:

| U.S. Government | $878,785,663$ | $778,196,349$ |
| :--- | :--- | :--- |
| Corporate | $848,608,971$ | $749,180,890$ |

Foreign
Equity securities:
Domestic
Private equity
Mutual funds:

| Domestic | $9,626,750$ | - |
| :--- | ---: | ---: |
| International equity | $1,219,332,499$ | $944,058,197$ |


| Treasury inflation-protected securities | $238,154,722$ | $208,364,439$ |
| :--- | :--- | :--- |

Mortgages
17,763,143 10,292,097
Promissory notes
2,304,849 1,211,506
Securities-lending collateral
1,324,201,022 1,117,017,096
Variable A funds:
Short-term investments
152,851,950
112,028,532
Equity securities
$\begin{array}{rr}7,994,643,606 & 7,374,115,403 \\ 429,381,336 & 104,277,973\end{array}$
Corporate bonds
517,490,768
33,857,596
Variable B funds:

| Short-term investments | $96,895,377$ | $69,221,836$ |
| :--- | ---: | ---: |
| Managed investment contracts | $121,092,239$ | $121,702,788$ |
| Guaranteed investment contracts | $25,108,179$ | $54,748,304$ |
| Securities-lending collateral | $24,940,713$ | $33,225,187$ |
|  | $\mathbf{\$ 1 8 , 1 3 2 , 0 8 0 , 5 1 8}$ | $\mathbf{\$ 1 5 , 2 1 7 , 6 0 9 , 4 0 1}$ |
|  | $\mathbf{\$ 1 8 , 4 7 5 , 5 2 8 , 3 6 3}$ | $\mathbf{\$ 1 5 , 4 6 0 , 6 1 6 , 7 9 6}$ |


| LIABILITIES |  |  |
| :--- | ---: | ---: |
| Accounts payable | $109,482,019$ | $97,515,589$ |
| Payables for investment securities purchased | $70,851,101$ | $4,518,431$ |
| Accrued benefits payable | $48,565,295$ | $54,244,650$ |
| Securities lending (Note 2) | $1,866,632,503$ | $1,184,099,879$ |
| TOTAL LIABILITIES | $\mathbf{\$ 2 , 0 9 5 , 5 3 0 , 9 1 8}$ | $\mathbf{\$ 1 , 3 4 0 , 3 7 8 , 5 4 9}$ |
| PLAN NET ASSETS HELD IN TRUST FOR BENEFITS | $\mathbf{\$ 1 6 , 3 7 9 , 9 9 7 , 4 4 5}$ | $\mathbf{\$ 1 4 , 1 2 0 , 2 3 8 , 2 4 7}$ |

(The accompanying notes are an integral part of these financial statements.)

## STATEMENT OF CHANGES IN PLAN NET ASSETS-TDA

Year Ended June 30

|  | 2007 |  | 2006 |  |
| :---: | :---: | :---: | :---: | :---: |
| ADDITIONS |  |  |  |  |
| CONTRIBUTIONS: |  |  |  |  |
| Member contributions (Note 3) | \$ | 579,380,931 | \$ | 556,812,734 |
| INVESTMENT INCOME (Note 5): |  |  |  |  |
| Interest income |  | 580,354,351 |  | 471,515,823 |
| Dividend income |  | 71,876,224 |  | 23,986,039 |
| Net appreciation in fair value of investments |  | 1,409,235,237 |  | 815,552,286 |
| TOTAL INVESTMENT GAIN |  | 2,061,465,812 |  | 1,311,054,148 |
| Less: |  |  |  |  |
| Investment expenses |  | 15,268,783 |  | 17,061,552 |
| SECURITY-LENDING TRANSACTIONS: |  |  |  |  |
| Security-lending income |  | 19,510,026 |  | 4,070,913 |
| Security-lending fees |  | $(18,472,164)$ |  | $(3,902,107)$ |
| Net securities-lending income |  | 1,037,862 |  | 168,806 |
| NET INVESTMENT GAIN | \$ | 2,047,234,891 | \$ | 1,294,161,402 |
| TOTAL NET ADDITIONS | \$ | 2,626,615,822 | \$ | 1,850,974,136 |
| DEDUCTIONS: |  |  |  |  |
| Benefits payments and withdrawals (Note 4) |  | 356,001,209 |  | 332,025,043 |
| Administrative expenses (Note 8) |  | 10,855,415 |  | 8,889,316 |
| TOTAL DEDUCTIONS | \$ | 366,856,624 | \$ | 340,914,359 |
| NET INCREASE |  | 2,259,759,198 |  | 1,510,059,777 |
| NET ASSETS HELD IN TRUST FOR BENEFITS AT BEGINNING OF YEAR |  | 14,120,238,247 |  | 12,610,178,470 |
| NET ASSETS HELD IN TRUST FOR BENEFITS AT END OF YEAR |  | 16,379,997,445 |  | 14,120,238,247 |

[^6]
## Notes to Financial Statements-Tax-Deferred Annuity Program

## 1. TDA Program Description

The Teachers' Retirement System of the City of New York (TRS) maintains the TRS Tax-Deferred Annuity Program (the TDA Program or the Plan) and the TRS Qualified Pension Plan (QPP). The TDA Program was established pursuant to Internal Revenue Code Section 403(b) and became effective February 1, 1970. The TRS QPP is maintained as a separate plan and is not included in these financial statements.

Members of the TRS QPP have the option to participate in the TDA Program, which provides a means of deferring income tax payments on members' voluntary contributions until the period after retirement or upon withdrawal of contributions. The TDA Program is administered according to the rules and regulations of Internal Revenue Code Section 403(b).

## 2. Summary of Significant Accounting Policies and Plan Asset Matters

## (a) Basis of Accounting

The TDA Program is accounted for on an accrual basis of accounting in which the measurement focus is on a flow of economic resources. Revenues are recognized in the accounting period in which they are earned and expenses are recognized in the period incurred.

## (b) Investment Valuation

Investments are reported at fair value. Trading securities are stated at the last reported sales price on a national exchange on the last business day of the fiscal year. Fair value is defined as the quoted market value on the last trading day of the period, except for the Short-Term Investment Fund (the STI) (a money market fund), International Investment Funds (the IIF), and Private Equity (the PE). The IIF and PE are privately held funds, which are managed by various investment managers on behalf of the TDA Program. The TDA Program's management determines fair value based on information provided by the various investment managers. Management records the STI at cost, which approximates fair value.

Purchases and sales of securities are reflected on the trade date. Gains and losses on sale of securities are based on the average cost of securities.

Dividend income is recorded on the ex-dividend date. Interest income is recorded as earned on an accrual basis.

No investment in any one organization represents $5 \%$ or more of the Plan net assets held for benefits.

## (c) Income Taxes

Income of the TDA Program is not subject to federal income tax.

## (d) Securities-Lending Transactions

State statutes and Board policies permit the TDA Program to lend its securities to broker-dealers and other entities with a simultaneous agreement to return the collateral for the same securities in the future. The TDA Program's custodian lends the following types of securities: short-term securities, common stock, long-term corporate bonds, U.S. Government and U.S. Government agencies' bonds, asset-backed securities and international equities, and bonds held in collective investment funds. In return, it receives collateral in the form of cash and treasury and agency securities at $100 \%$ to $105 \%$ of the principal plus accrued interest for reinvestment. Management believes the TDA Program has limited credit risk exposure to borrowers because the amounts the TDA Program owed the borrowers equaled or exceeded the amounts the borrowers owed the TDA Program. The contracts with the TDA Program's custodian
require borrowers to indemnify the TDA Program if the borrowers fail to return the securities and if the collateral is inadequate to replace the securities loaned or if there is a failure to pay the TDA Program for income distributions by the securities' issuers while the securities are on loan. All securities loans can be terminated on demand within a period specified in each agreement by either the TDA Program or the borrowers. Cash collateral is invested in the lending agents' short-term investment pools, which have a weighted average maturity of 90 days. The underlying fixed-income securities in these pools have an average maturity of ten years.

The securities-lending program in which the TDA Program participates only allows pledging or selling securities in the case of borrower default.

The Governmental Accounting Standards Board Statement No. 28, Accounting and Financial Reporting for Securities Lending Transactions, requires that securities loaned as assets and the related liabilities be reported in the statements of Plan net assets. Cash received as collateral on securities-lending transactions and investments made with that cash are reported as assets. Securities received as collateral are also reported as assets if the government entity has the ability to pledge or sell them with a borrower default. Liabilities resulting from these transactions are reported in the statements of Plan net assets. Accordingly, the TDA Program recorded the investments purchased with the cash collateral as collateral from securities lending with a corresponding liability as securities lending.

## 3. Funding and Contributions

Contributions to the TDA Program are made by the members only and are voluntary. Active members of the Plan are required to submit a salary-reduction agreement and enrollment request. Re-enrollment in the TDA Program is automatic, and members may choose to stop contributions at any time. A participant may elect to exclude an amount (within the maximum allowed by the IRS) of this compensation from current taxable income by contributing it to the TDA Program. This maximum amount is calculated based on various individual factors such as birth date, annual salary, years of employment with the New York City Department of Education or the City University of New York, accumulated contributions, Increased-Take-Home-Pay rate, and Annuity Savings Fund rate. Also, members can elect to invest their funds among the following investment programs: Fixed, Variable A, or Variable B Annuity Programs (see Note 5).

An expense charge is deducted from the TDA Program contributions to cover the expenses incurred in the operation of the TDA Program. This expense charge is determined by the Board of Trustees.

Benefits provided under the TDA Program are derived from members' accumulated contributions. No benefits are provided by employer contributions.

## 4. TDA Program Description and Benefits

A participant may withdraw all or part of the balance of his/her account prior to or at the time of retirement. As of January 1, 1989, the tax laws restrict withdrawals of tax-deferred annuity contributions and accumulated earnings thereon for reasons other than retirement or termination. Contributions made after December 31, 1988 and investment earnings credited after December 31, 1988 may only be withdrawn upon attainment of age $59^{1} / 2$ or for reasons of hardship (as defined by IRS regulations). However, hardship withdrawals are limited to contributions only.

An in-service member may withdraw all or part of the contributions made before January 1, 1989 and the earnings credited to accounts before January 1, 1989. If the withdrawal is prior to retirement, the member may not contribute to the TDA Program for the rest of the calendar year.

If a member dies while an in-service employee, the full value of his/her TDA account at the date of death is paid to the member's beneficiary or estate.

When a member resigns before attaining vested rights under the TRS QPP, (s)he may withdraw the value of the account or may leave the account in the TDA Program for a period of up to seven school years after the date of resignation, provided ( $s$ )he does not withdraw his/her account from the TRS QPP. If a member resigns after attaining vested rights under the TRS QPP, (s)he may leave his/her account in the TDA Program, provided the member does not withdraw his/her QPP funds. Once a withdrawal is made from the TRS QPP, the member's participation in the TDA Program is automatically terminated, and the value of the account in the TDA Program will be refunded to the member.

At retirement, several payment options are available to those who annuitize their TDA funds. Generally, the same optional selection of benefits that is available through the TRS QPP is available under the TDA Program.

## 5. Investment Programs

The TDA Program's investments comprise the assets of three investment programs. These are the Fixed Annuity Program and two Variable Annuity Programs, one of which consists primarily of equity securities (Variable A) and the other that consists primarily of guaranteed investment contracts and other stable-value investment vehicles (Variable B).

Assets of the Fixed Annuity Program of the TDA Program are co-invested with certain assets of the TRS QPP. Assets of the Variable Annuity Programs of the TDA Program are co-invested with certain assets of the TRS QPP and the New York City Board of Education Retirement System. These financial statements reflect the TDA Program's proportionate share of the assets and investment activities of each of these programs.

Payments and receivables from the TRS QPP represent, principally, amounts due from/due to the TDA Program for net benefits paid by the TRS QPP on behalf of the TDA Program.

## 6. Investments and Deposits

The Comptroller of the City of New York (the Comptroller) acts as an investment advisor to the Plan. In addition, the Plan employs an independent investment consultant as an investment advisor. The Plan utilizes several investment managers to manage the long-term debt and equity portfolios. The managers are regularly reviewed, with regard to both their investment performance and their adherence to investment guidelines.

## (a) Concentration of Credit Risk

The Plan does not have any investments in any one entity that represent $5 \%$ or more of Plan net assets.
The legal requirements for Plan investments are as follows:
(i) Fixed income, equity, and other investments may be made as permitted by New York State RSSL $\$ \$$ 176-178(a) and Banking Law $\$ 235$, the New York City Administrative Code, and the Legal Investments for New York Savings Banks list as published by The New York State Banking Department, subject to Note 3(b).
(ii) Investments up to $25 \%$ of total pension fund assets may be made in instruments not expressly permitted by the State RSSL.
Mellon Global Securities Services was the primary custodian for significantly all of the Variable A and B securities for the years ended June 30, 2007 and 2006. Bank of New York (BONY) was the primary custodian for substantially all of the other securities of the Plan. On December 4, 2006, Bank of New York and Mellon Global Securities Services announced their intent to merge companies. The merger was completed on July 2, 2007 forming the Bank of New York Mellon Corporation.

Cash deposits are insured by the Federal Deposit Insurance Corporation for up to $\$ 100,000$ per Plan member and are, therefore, fully insured.

The information reflected in the Credit Ratings and in the Years to Maturity is derived from the Custodian's Risk and Performance Analytics Reporting System. Such information is prepared as a result of the Custodian's Risk Management Analysis.

## (b) Credit Risk

Portfolios other than U.S. Government and related portfolios have credit rating limitations. Investment Grade portfolios are limited to mostly ratings of BBB and above except that they are also permitted a $10 \%$ maximum exposure to BB \& $\mathrm{B}-\mathrm{rated}$ securities. While non-investment grade managers are primarily invested in BB \& B -rated securities, they can also invest up to $7 \%$ of their portfolio in securities rated CCC or lower. Non-rated securities are considered to be non-investment grade. The quality ratings of investments, by percentage of the rated portfolio, as described by nationally recognized statistical rating organizations, are as follows:

## Investment Type* S\&P Quality Ratings

| June 30, 2007 | AAA | AA | A | BBB | BB | B | $\begin{aligned} & \text { CCC \& } \\ & \text { Below } \end{aligned}$ | Short Term | Not Rated | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | 13.73\% | - | - | - | 0.04\% | - | - | - | - | 13.77\% |
| Corporate Bonds | 11.56\% | 6.06\% | 11.41\% | 12.00\% | 9.78\% | 16.99\% | 3.65\% | - | 1.06\% | 72.51\% |
| Yankee Bonds | - | - | 0.66\% | 0.73\% | 0.05\% | 0.01\% | - | - | - | 1.45\% |
| Short Term |  |  |  |  |  |  |  |  |  |  |
| Commercial Paper | - | - | 2.35\% | - | - | - | - | - | 0.25\% | 2.60\% |
| Pooled Funds | - | - | - | - | - | - | - | 9.52\% | - | 9.52\% |
| Certificates of Deposit | - | - | - | - | - | - | - | - | 0.15\% | 0.15\% |
| U.S. Treasuries | - | - | - | - | - | - | - | - | - | - |
| U.S. Agencies | - | - | - | - | - | - | - | - | - | - |
| Percent of Rated Portfolio | 25.29\% | 6.06\% | 14.42\% | 12.73\% | 9.87\% | 17.00\% | 3.65\% | 9.52\% | 1.46\% | 100.00\% |


| June 30, 2006 | AAA | AA | A | BBB | BB | B | CCC \& Below | Short Term | Not Rated | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | 19.41\% | - | - | - | - | - | - | - | - | 19.41\% |
| Corporate Bonds | 9.62\% | 3.87\% | 13.18\% | 10.20\% | 8.51\% | 15.84\% | 1.84\% | - | 0.99\% | 64.05\% |
| Yankee Bonds | 0.02\% | 0.08\% | 0.49\% | 0.81\% | 0.05\% | 0.05\% | - | - | - | 1.50\% |
| Short Term |  |  |  |  |  |  |  |  |  |  |
| Commercial Paper | - | - | - | - | - | - | - | 5.03\% | - | 5.03\% |
| Pooled Funds | - | - | - | - | - | - | - | - | 7.33\% | 7.33\% |
| Certificates of Deposit | - | - | - | - | - | - | - | 0.26\% | 0.16\% | 0.42\% |
| U.S. Treasuries | 0.23\% | - | - | - | - | - | - | - | - | 0.23\% |
| U.S. Agencies | - | - | - | - | - | - | - | 0.66\% | 1.37\% | 2.03\% |
| Percent of Rated Portfolio | 29.28\% | 3.95\% | 13.67\% | 11.01\% | 8.56\% | 15.89\% | 1.84\% | 5.95\% | 9.85\% | 0.00\% |

* U.S. Treasury Bonds, Notes and Treasury-inflation protected securities are obligations of the U.S. government or explicitly guaranteed by the U.S. government and therefore not considered to have credit risk and are not included above.


## (c) Custodial Credit Risk

Deposits are exposed to custodial credit risk if they are uninsured and uncollateralized. Custodial credit risk is the risk that, in the event of a failure of the counterparty, the Plan will not be able to recover
the value of its investment or collateral securities that are in the possession of an outside party. Investment securities are exposed to custodial credit risk if the securities are uninsured, are not registered in the name of the Plan, and are held by either the counterparty or the counterparty's trust department or agent, but not in the Plan's name.

Consistent with the Plan's investment policy, the investments are held by the Plan's custodian and registered in the Plan's name.

All of the Plan's deposits are insured and/or collateralized by securities held by a financial institution separate from the Plan's depository financial institution.

All of the Plan's securities are held by the Plan's custodial bank in the Plan's name.

## (d) Interest Rate Risk

Interest rate risk is the risk that the fair value of investments could be adversely affected by the change in interest rates. Duration limits, in relation to a relevant benchmark, are used to control the portfolios' exposure to interest rate changes. Duration is limited to a range of -1 to 0.75 years. Duration range is a measure of the overall portfolio, while statements of the stated maturity reflect the specific maturities of the individual securities held. The lengths of investment maturities (in years), as shown by the percent of the rated portfolio, are as follows:

Years to Maturity
Investment Type
June 30, 2007

|  | Investment Maturities |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Fair Value | Less than one year | One to five years | Six to ten years | More than ten years |
| U.S. Government | 45.40\% | 2.81\% | 6.24\% | - | 36.35\% |
| Corporate Bonds | 45.89\% | 0.87\% | 14.81\% | 17.19\% | 13.02\% |
| Yankee Bonds | 0.92\% | - | 0.37\% | 0.19\% | 0.36\% |
| Short Term |  |  |  |  |  |
| Commercial Paper | 1.63\% | 1.63\% | - | - | - |
| Pooled Funds | 6.06\% | 6.06\% | - | - | - |
| Ceriticates of Deposit | - | - | - | - | - |
| U.S. Treasuries | 0.10\% | 0.10\% | - | - | - |
| U.S. Agencies | - | - | - | - | - |
| Percent of Rated Portfolio | 100.00\% | 11.47\% | 21.42\% | 17.38\% | 49.73\% |


| June 30, 2006 | Fair <br> Value | Less than <br> one year | One to five <br> years | Six to ten <br> years | More than <br> ten years |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $43.72 \%$ | $1.37 \%$ | $2.70 \%$ | $5.04 \%$ | $34.61 \%$ |
| U.S. Government | $42.49 \%$ | $1.03 \%$ | $17.75 \%$ | $14.06 \%$ | $9.65 \%$ |
| Corporate Bonds | $1.05 \%$ | $0.07 \%$ | $0.35 \%$ | $0.20 \%$ | $0.43 \%$ |
| Yankee Bonds |  |  |  |  |  |
| Short Term | $3.33 \%$ | $3.33 \%$ | - | - | - |
| Commercial Paper | $4.85 \%$ | $4.85 \%$ | - | - | - |
| Pooled Funds | $0.27 \%$ | $0.27 \%$ | - | - | - |
| Certificates of Deposit | $0.15 \%$ | $0.15 \%$ | - | - | - |
| U.S. Treasuries | $4.14 \%$ | $4.14 \%$ | - | - | - |
| U.S. Agencies | Percent of Rated Portfolio | $100.00 \%$ | $15.21 \%$ | $20.80 \%$ | $19.30 \%$ |

(e) Securities-Lending Transactions
Credit Risk-The quality ratings of investments held as collateral for Securities Lending are as follows:
Investment Type and Fair Value of Securities-Lending Transactions

## (In Thousands)

June 30, 2007


Interest Rate Risk-The lengths of investment maturities (in years) of the collateral for Securities Lending are as follows:

## Years to Maturity Investment Type <br> (In Thousands)

June 30, 2007
Investment Maturities

|  | Fair <br> Value | Less than <br> one year | One to five <br> years | Six to ten <br> years | More than <br> ten years |
| :--- | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | $\$-$ | $\$ 181,473$ | $\$$ | - | $\$ 40,043$ |

June 30, 2006

| 边 | Fair <br> Value | Less than one year | One to five years | Six to ten years | More than ten years |
| :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Government | \$ 931 | \$ 931 | \$ | S | \$ |
| Corporate Bonds | 340,319 | 49,839 | 290,480 | - | - |
| Yankee Bonds | 8,542 | 3,433 | 5,109 | - | - |
| Short Term |  |  |  |  |  |
| Commercial Paper | 90,489 | 90,489 | - | - | - |
| Pooled Funds | 139,657 | 139,657 | - | - | - |
| Repurchase Agreements | 219,184 | 219,184 | - | - | - |
| Certificates of Deposit | 238,114 | 20,842 | 217,272 | - | - |
| Bank Notes | 136,482 | 8,304 | 128,178 | - | - |
| Other | 10,382 | 10,200 | 182 | - | - |
| Total | \$1,184,100 | \$ 542,879 | \$ 641,221 | \$ | \$ |
| Percent of Securities-Lending Portfolio | 100.00\% | 45.85\% | 54.15\% | 0.00\% | 0.00\% |

## 7. Member Loans

Members are permitted to borrow up to $75 \%$ of their own contributions, including accumulated interest. The balance of member loans receivable at June 30, 2007 and 2006 is $\$ 221$ million and $\$ 195$ million, respectively. Upon termination of employment before retirement, members are entitled to refunds of their own contributions, including accumulated interest, less any loans outstanding.

## 8. Related Parties

Administrative and investment-related expenses, except those related to the Variable Annuity Program, are paid by the City of New York (the City). The Comptroller is custodian of Plan assets. The Comptroller also provides administrative services to the TDA Program. Actuarial services are provided to
the TDA Program by the Plan's Chief Actuary of the Office of the Actuary employed by the Boards of Trustees of the City's main pension systems. The City's Corporation Counsel provides legal services to the TDA Program. Other administrative services are also provided by the City.

As discussed in Note 5, the TDA Program's Fixed Annuity Program assets, other than City obligations, are co-invested with those of the TRS QPP. The TDA Program's Variable Annuity Program assets are co-invested with those of the TRS QPP and the Board of Education Retirement System's Tax-Deferred Annuity Program.

## SCHEDULE 1: INVESTMENT EXPENSES Year Ended June 30, 2007 (Unaudited)

## INVESTMENT EXPENSES

## Investment Agent <br> Service <br> TRS' Share of Expenses



| SCHEDULE 2: PROFESSIONAL FEES <br> As of June 30, 2007 (Unaudited) |  |  |  |
| :---: | :---: | :---: | :---: |
| Professional | Nature of S |  |  |
| VARIABLE A ANNUITY PROGRAM <br> Rocaton Investment Advisors | Consulting | \$87,969 |  |
| TOTAL VARIABLE A ANNUITY PROGRAM |  |  | \$ 87,969 |
| VARIABLE B ANNUITY PROGRAM <br> Rocaton Investment Advisors | Consulting | \$24,909 |  |
| TOTAL VARIABLE B ANNUITY PROGRAM |  |  | \$ 24,909 |
| See page 64 for corresponding schedule for the Qualified Pe | (QPP). |  |  |
| SCHEDULE 3 <br> As of | MINISTR <br> 30, 2007 | XPENS |  |
| PERSONNEL SERVICES <br> Staff Salaries Social Security Insurance (Health) Welfare Benefit Fund | $\begin{array}{r} \$ 5,356,977 \\ 295,482 \\ 475,745 \\ 229,838 \\ \hline \end{array}$ |  |  |
| TOTAL PERSONNEL SERVICES |  | \$ 6,358,042 |  |
| PROFESSIONAL SERVICES Data Processing Support Services Temporary and Consulting Services Professional Services | $\begin{array}{r} \$ 1,045,881 \\ 314,388 \\ 154,435 \end{array}$ |  |  |
| TOTAL PROFESSIONAL SERVICES |  | \$ 1,514,704 |  |
| COMMUNICATIONS <br> Telephone Postage Local Traveling Expenses Non-Local Traveling Expenses |  |  |  |
| TOTAL COMMUNICATIONS |  | \$ 246,315 |  |
| RENTALS <br> Office Space <br> Equipment Leasing <br> Cold Site <br> Relocation Expenses | $\begin{array}{r} \$ 1,202,989 \\ 102,817 \\ 58,682 \\ 903,632 \\ \hline \end{array}$ |  |  |
| TOTAL RENTALS |  | \$ 2,268,120 |  |
| MISCELLANEOUS <br> Utilities <br> Supplies and Materials Maintenance, Repairs, and Services Office Equipment and Furniture Advertising Expenses Storage Printing Training Programs Books Miscellaneous | $\$ 82,980$ 17,849 103,080 42,363 17,886 24,506 103,017 57,017 2,038 17,498 |  |  |
| TOTAL MISCELLANEOUS |  | \$ 468,234 |  |
| TOTAL ADMINISTRATIVE EXPENSES |  |  | ,855,415 |

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# Actuarial Section 

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OFFICE OF THE ACTUARY

75 PARK PLACE • $9^{\text {m }}$ FLOOR<br>NEW YORK, NY 10007<br>(212) 442-5775 • FAX: (212) 442-5777<br>Robert C. North, Jr. CHIEF ACTUARY

December 6, 2007

Retirement Board<br>Teachers' Retirement System of the City of New York<br>55 Water Street<br>New York, NY 10041

Re: Actuarial Information for the Comprehensive Annual Financial Report (CAFR) for the Fiscal Year ended June 30, 2007

## Dear Members:

The financial objective of the Teachers' Retirement System of the City of New York-Qualified Pension Plan (the Plan) is to fund members' retirement benefits during their active service and to establish employer normal contribution rates that, expressed as a percentage of active member annualized covered payroll, would remain approximately level over the future working lifetimes of those active members and, together with member contributions and investment income, would ultimately be sufficient to accumulate assets to pay benefits when due.

An actuarial valuation of the Plan is performed annually as of the second June 30 preceding each fiscal year to determine the Employer Contributions to be paid for that fiscal year (i.e., June 30, 2005 (Lag) actuarial valuation to determine Fiscal Year 2007 Employer Contributions).

Under current law, Employers are required to contribute statutorily-required contributions (Statutory Contributions) and these contributions are generally funded by Employers within the appropriate fiscal year.

Statutory Contributions for Fiscal Year 2007 were equal to the Annual Required Contributions as defined under Governmental Accounting Standards Board Statement Number 25 (GASB 25).

The Annual Required Contributions were computed in accordance with GASB 25 and are consistent with generally accepted actuarial principles.

## Actuarial Assumptions and Methods

Provided in this Actuarial Section of the CAFR is a "Summary of Actuarial Assumptions and Methods in Effect for the June 30, 2005 (Lag) Actuarial Valuation." These actuarial assumptions and methods were first employed in the June 30, 2004 (Lag) actuarial valuation that was used to determine Fiscal Year 2006 Employer Contributions to the Plan.

These actuarial assumptions and methods are unchanged from those employed in the June 30, 2004 (Lag) actuarial valuation that was used to determine Fiscal Year 2006 Employer Contributions to the Plan.

After reviewing the results of an independent actuarial study dated October 2003 prepared by Gabriel, Roeder, Smith \& Company (GRS) in accordance with Section 96 of the New York City Charter, the Actuary issued an August 31, 2005 Report entitled "Proposed Changes in Actuarial Assumptions and Methods for

Determining Employer Contributions for Fiscal Years Beginning on and After July 1, 2005 for the New York City Teachers' Retirement System" (August 2005 Report).

Where required, the Retirement Board of the Plan adopted those changes in actuarial assumptions that required Board approval and the State Legislature and the Governor enacted Chapter 152/06 to provide for those changes to the actuarial assumptions and methods that required legislation, including the Actuarial Interest Rate (AIR) of $8.0 \%$ per annum.

## Benefits and Census Data

A summary of the benefits available under the Plan is shown later in this Actuarial Section of the CAFR.

Census data are submitted by the Plan's administrative staff, by the employers' payroll facilities and by the Comptroller of the City of New York, and are reviewed by the Office of the Actuary (OA) for consistency and reasonability.

A summary of the census data used in the June 30, 2005 (Lag) actuarial valuation is included in this CAFR. A summary of the census data used in the June 30, 2004 (Lag) actuarial valuation of the Plan is available in the June 30, 2006 CAFR.

## Funded Status

The Funded Status of the Plan is usually expressed in various relationships of Assets to Liabilities.
With respect to the Funded Status of the Plan, included in the Financial Section of the CAFR is a Schedule of Funding Progress (Schedule 1).

Included in the Actuarial Section of the CAFR is a Solvency Test (i.e., Comparative Summary of Actuarial Values and Percentages Covered by Actuarial Value of Assets) as prescribed by the Government Finance Officers Association (GFOA). This Solvency Test represents an alternative approach to describing progress toward funding objectives.

In addition to the Schedule of Funding Progress and the Solvency Test, included for informational purposes in the Actuarial Section of the CAFR (following the Solvency Test) is an Additional Discussion of Plan Funding and Other Measures of Funded Status that provides different comparisons between the Assets and Liabilities of the Plan.

## Presentation Style and Sources of Information

The actuarial information herein is being presented in a manner believed to be consistent with the requirements of the GFOA and, where applicable, with GASB 25 which was adopted for financial reporting purposes beginning Fiscal Year 1995.

The Additional Discussion of Plan Funding and Other Measures of Funded Status represents additional information provided by the Actuary to assist those users who desire alternative analyses.

As prescribed by GASB 25, included in the Financial Section of the CAFR are the following schedules prepared by the OA:

- Schedule of Funding Progress.
- Schedule of Employer Contributions.
- Schedule of Actuarial Assumptions and Methods.

The following schedules in the Actuarial Section of the CAFR were prepared by the OA:

- Summary of Actuarial Assumptions and Methods in Effect for the June 30, 2005 (Lag) Actuarial Valuation.
- Active Member Valuation Data.
- Retirants and Beneficiaries Added to and Removed from Rolls.
- Comparative Summary of Actuarial Values and Percentages Covered by Actuarial Value of AssetsSolvency Test.
- Additional Discussion of Plan Funding and Other Measures of Funded Status.
- Statutory vs. Annual Required Contributions.
- Summary of Plan Provisions.

The following information and schedules in other sections of the CAFR were prepared by the OA:

- Summary of Plan Membership.
- Schedule of Participating Employers.

If you have any questions about any of the information in this Actuarial Section or any of the actuarial information elsewhere in this CAFR, please do not hesitate to contact Mr. John R. Gibney, Jr. or me.

Respectfully submitted,


Robert C. North, Jr., F.S.A.
Chief Actuary

RCN/bs

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cc: Mr. J.R. Gibney
Mr. E. Hue
Mr. S.S. Krasner
Mr. J.A. Petrovic
Mr. N. Serrano
```


# Summary of Actuarial Assumptions and Methods in Effect as of June 30, 2005 (Lag) Actuarial Valuation-Qualified Pension Plan 

1. Based upon a review of an October 2003 experience study by Gabriel, Roeder, Smith \& Company (GRS), the Actuary issued an August 31, 2005 Report entitled Proposed Changes in Actuarial Assumptions and Methods for Determining Employer Contributions for Fiscal Years Beginning on and After July 1, 2005 for the New York City Teachers' Retirement System (August 2005 Report). Where required, the Retirement Board of the Plan adopted those changes to actuarial assumptions that required Board approval and the State Legislature and the Governor enacted Chapter 152 of the Laws of 2006 (Chapter 152/06) to provide for those changes to the actuarial assumptions and methods that required legislation, including the Actuarial Interest Rate (AIR) assumption of $8.0 \%$ per annum.
Chapter 152/06 provided for the changes in actuarial assumptions and methods that require legislation, including the continuation of the AIR assumption of $8.0 \%$ per annum and continuation of the current Frozen Initial Liability (FIL) Actuarial Cost Method and the existing Unfunded Actuarial Accrued Liability (UAAL). In addition, Chapter 152/06 provided for elimination of the use of the ten-year phase-in of Chapter 278 of the Laws of 2002 (Chapter 278/02) for funding the additional actuarial liabilities created by the benefits provided by Chapter 125 of the Laws of 2000 (Chapter 125/00).
2. The investment rate of return assumption is $8.0 \%$ per annum ( $4.0 \%$ per annum for benefits payable under the Variable Annuity Programs).
3. The mortality tables for service and disability pensioners were developed from an experience study of the Plan's pensioners. Sample probabilities are shown in Table 1.
4. Active service tables are used to estimate various withdrawals from active service. Sample probabilities are shown in Table 2 for members withdrawing from active service due to death or disability, in Table 3 for members withdrawing from active service without employer-provided benefits or with Vested Benefits, and in Table 4 for members withdrawing from active service after eligibility for Service Retirement.
5. A Salary Scale is used to estimate salaries at termination, retirement or death. Sample percentage increases are shown in Table 5. The Salary Scale includes a General Wage Increase (GWI) assumption of $3.0 \%$ per annum.
6. The economic assumptions (i.e., the assumed investment return rate, GWI rate and Cost-of-Living Adjustments (COLA) rate) were developed assuming a long-term Consumer Price Inflation (CPI) assumption of $2.5 \%$ per annum. The COLA assumption is $1.3 \%$ per annum.
7. The valuation assumes a closed group. Salaries of members on the valuation date are assumed to increase in accordance with the Salary Scale.
8. The Frozen Initial Liability Actuarial Cost Method is utilized by the Plan's Actuary to calculate the contribution from the employers. Under this Actuarial Cost Method, the Initial Liability was reestablished by the Entry Age Actuarial Cost Method as of June 30, 1999 but with the Unfunded Actuarial Accrued Liability (UAAL) not less than $\$ 0$.
Under this method, the excess of the Actuarial Present Value (APV) of projected benefits of members as of the valuation date, over the sum of the Actuarial Asset Value (AAV) plus UAAL, if any, and the APV of future employee contributions, is allocated on a level basis over the future earnings of members who are on payroll as of the valuation date. Actuarial gains and losses are reflected in the employer normal contribution rate.

All outstanding components of the UAAL are being amortized over closed periods.
Chapter 85 of the Laws of 2000 (Chapter 85/00) reestablished the UAAL and eliminated the Balance Sheet Liability (BSL) for actuarial purposes as of June 30, 1999.

The schedule of payments toward the reestablished UAAL provides that the UAAL, if any, be amortized over a period of 11 years beginning Fiscal Year 2000, where each annual payment after the first annual payment equals $103 \%$ of its preceding annual payment.

However, the initial UAAL as of June 30, 1999 equaled $\$ 0$ and no amortization period was required. There is an amortization period for the UAAL established after that date.

Chapter 69 of the Laws of 2002 established the UAAL as of June 30, 2003 for an Early Retirement Incentive (Part A only). This UAAL is being amortized on a level basis over a period of five years beginning Fiscal Year 2004.
9. One-Year Lag Methodology uses a June 30, 2005 (Lag) valuation date to determine Fiscal Year 2007 Employer Contributions.

This methodology requires technical adjustments to certain components used to determine Fiscal Year 2007 Employer Contributions as follows:

- Present Value of Future Salary (PVFS)

The PVFS at June 30, 2005 is reduced by the value of salary projected to be paid during Fiscal Year 2006.

- Salary for Determining Employer Contributions

Salary used to determine the employer Normal Cost is the salary projected to be paid during Fiscal Year 2007 to members on payroll at June 30, 2005.

- Present Value of Future Normal Costs (PVFNC)

The PVFNC at June 30, 2005 is reduced by the discounted value of the Fiscal Year 2006 Employer Contribution (after offsetting for any UAAL payments).
10. Beginning with the June 30, 2004 (Lag) actuarial valuation, the Actuarial Asset Valuation Method (AAVM) was changed to a method that reset the AAV to Market Value (i.e., Market Value Restart) as of June 30, 1999. As of each June 30 thereafter the AAVM recognizes investment returns greater or less than expected over a period of six years.

Under this revised AAVM, any Unexpected Investment Returns (UIR) for Fiscal Years 2000 and later are phased into the AAV beginning the following June 30 at a rate of $15 \%, 15 \%, 15 \%, 15 \%, 20 \%$ and $20 \%$ per year (or cumulative rates of $15 \%, 30 \%, 45 \%, 60 \%, 80 \%$ and $100 \%$ over a period of six years).

These revised averaging factors were applied against the UIR computed under the prior five-year AAVM used for Fiscal Years 2000 to 2004.

The revised AAV was utilized for the first time in the June 30, 2004 (Lag) actuarial valuation to determine the Fiscal Year 2006 Employer Contribution in conjunction with the One-Year Lag Methodology and the revised economic and noneconomic assumptions.

The AAVM in effect for the June 30, $2005(\mathrm{Lag})$ actuarial valuation is unchanged from the AAVM used in the June 30, 2004 (Lag) actuarial valuation.
11. Chapter $125 / 00$ provided eligible retirees and eligible beneficiaries with increased Supplementation as of September 2000 and with automatic Cost-of-Living Adjustments (COLA) beginning September 2001.

Chapter 125/00 also provided for a five-year phase-in schedule for funding the additional actuarial liabilities created by the benefits provided by this law. Chapter 278/02 required the Actuary to revise the methodology and timing for determining the Statutory Contributions on account of the additional actuarial liabilities attributable to the benefits provided under Chapter 125/00 by extending the phase-in period for funding these liabilities from five years to ten years.

Chapter 152/06 eliminated the use of the ten-year phase-in of Chapter 278/02 for funding the additional actuarial liabilities created by Chapter 125/00.

## TABLE 1

DEATHS AMONG SERVICE AND DISABILITY PENSIONERS
Percentage of Pensioners Dying within Next Year

Service Pensioners

| Age | Males | Females |
| ---: | :---: | :---: |
| 40 | $.1151 \%$ | $.0645 \%$ |
| 50 | .2631 | .1543 |
| 60 | .6163 | .3832 |
| 70 | 1.8461 | 1.0802 |
| 80 | 4.6919 | 3.0798 |
| 90 | 12.9028 | 10.3790 |
| 100 | 30.1977 | 28.6331 |
| 110 | 100.0000 | 100.0000 |

Disability Pensioners

| Age | Males | Females |
| :---: | :---: | :---: |
| 40 | $1.5101 \%$ | $2.9247 \%$ |
| 50 | 1.8462 | 2.5618 |
| 60 | 2.2326 | 1.4957 |
| 70 | 3.1342 | 1.9287 |
| 80 | 6.0619 | 4.8143 |
| 90 | 12.9554 | 11.4430 |
| 100 | 30.1977 | 28.6331 |
| 110 | 100.0000 | 100.0000 |

TABLE 2
WITHDRAWALS FROM ACTIVE SERVICE (DUE TO DEATH OR DISABILITY) Percentage of Active Members Separating within Next Year

| Accidental Disability |  |  | Ordinary Disability |  |  | Death |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Males | Females | Age | Males | Females | Age | Males | Females |
| 20 | .00\% | .00\% | 20 | .02\% | .01\% | 20 | .040\% | .020\% |
| 25 | . 00 | . 00 | 25 | . 02 | . 01 | 25 | . 040 | . 020 |
| 30 | . 01 | . 00 | 30 | . 02 | . 01 | 30 | . 040 | . 020 |
| 35 | . 01 | . 01 | 35 | . 03 | . 02 | 35 | . 050 | . 025 |
| 40 | . 01 | . 01 | 40 | . 04 | . 06 | 40 | . 060 | . 030 |
| 45 | . 02 | . 01 | 45 | . 05 | . 09 | 45 | . 110 | . 055 |
| 50 | . 03 | . 02 | 50 | . 07 | . 10 | 50 | . 160 | . 080 |
| 55 | . 04 | . 02 | 55 | . 12 | . 13 | 55 | . 210 | . 105 |
| 60 | . 05 | . 03 | 60 | . 17 | . 15 | 60 | . 260 | . 130 |
| 65 | . 06 | . 04 | 65 | . 24 | . 17 | 65 | . 320 | . 160 |
| 70 | NA | NA | 70 | NA | NA | 70 | NA | NA |



## TABLE 5 SALARY SCALE

Years of

Service \begin{tabular}{c}

| Assumed Annual |
| :---: |
| Percentage Increases |
| Within Next Year | <br>

\hline 0

 

$11.00 \%$ <br>
\hline 5 \& 6.00 <br>
\hline 10 \& 5.00 <br>
\hline 15 \& 5.00 <br>
20 \& 5.00 <br>
\hline 25 \& 5.00 <br>
\hline 30 \& 5.00 <br>
\hline 35 \& 5.00 <br>
\hline 40 \& 5.00 <br>
\hline
\end{tabular}

* Salary Scale includes a General Wage Increase assumption of 3.0\% per annum.

ACTIVE MEMBER VALUATION DATA

| As of June 30 | Number | Annual Payroll | Annual Average Salary | Percentage Increase (Decrease) in Average Salary |
| :---: | :---: | :---: | :---: | :---: |
| 1999 | 86,682 | \$4,217,560,016 | \$48,656 | 5.4\% |
| 2000 | 91,494 | 4,721,526,309 | 51,605 | 6.1 |
| 2001 | 95,381 | 5,015,449,141 | 52,583 | 1.9 |
| 2002 | 95,678 | 5,469,239,283 | 57,163 | 8.7 |
| 2003 | 97,986 | 5,828,756,503 | 59,486 | 4.1 |
| 2004 | 105,391 | 6,219,808,501 | 59,017 | (0.8) |
| 2004 (Lag) | 105,391 | 6,175,939,608* | 58,600 | (1.5)** |
| 2005 (Lag) | 104,850 | 6,273,909,925 | 59,837 | 2.1 |

* The annualized covered payroll under the One-Year Lag Methodology used for the Fiscal Year 2006 Employer Contributions differs from that as of June 30, 2004 to compute Fiscal Year 2005 Employer Contributions due to changes in actuarial assumptions and more recent information on labor contract settlements.
** Decrease from June 30, 2003.

 Active Members'
Employer-
Financed Portion
(C)
$\$ 12,447,411^{*}$
$14,340,434^{*}$
$14,114,923$
$13,623,528^{*}$
12,561,516
11,465,947

AGGREGATE ACCRUED LI
AGGREGATE ACCRUED LIABILITIES FOR
Accumulated Current
Retirants and
Beneficiaries
\$15,748,859 $17,446,520$
$17,254,058$
$18,189,124$
 24,460,479 $\begin{array}{cc}0 & m \\ 0 & m \\ 0 & 0 \\ 0 & 8 \\ 6 & 0 \\ & 0\end{array}$ $2,624,824 \quad 26,590,313$
Also see following "SOLVENCY TEST-NOTES."


## COMPARATIVE SUMMARY OF ACTUARIAL VALUES AND PERCENTAGES COVERED BY ACTUARIAL VALUE OF ASSETS

## SOLVENCY TEST—NOTES

The ultimate test of financial soundness in a retirement system is its ability to pay all of its promised benefits when due. The retirement system's progress in accumulating assets to pay all promised benefits can be measured by comparing the Actuarial Value of Assets of the retirement system with the Aggregate Accrued Liabilities for:
(A) Accumulated Member Contributions;
(B) Current Retirants and Beneficiaries; and
(C) Active Members' Employer Financed Portion.

The Aggregate Accrued Liabilities are the APV of projected benefits produced by the projected benefit attribution approach prorated on service. The Aggregate Accrued Liabilities were calculated in accordance with Governmental Accounting Standards Board Statement No. 5 (GASB 5).

This comparative summary allocated assets as if they were priority groups, somewhat similar to (but not identical to) the priority categories of Section 4044 of the Employee Retirement Income Security Act of 1974 (ERISA).

The values in the table are dependent upon census data, benefit levels (which have changed on occasion over the past years), and the actuarial assumptions and methods employed at each valuation date. These underlying bases can be found within the Comprehensive Annual Financial Report for each respective year.

To fully evaluate trends in financial soundness, changes in assumptions need to be evaluated. The economic assumptions used in the actuarial calculations include the following:

| Valuation Date <br> June 30 | Assumed Annual Rate of <br> Return on Investments | Assumed <br> General Wage Increase |
| :---: | :---: | :---: |
| 1999 | $8.00 \%$ | $3.0 \%$ |
| 2000 | $8.00 \%$ | $3.0 \%$ |
| 2001 | $8.00 \%$ | $3.0 \%$ |
| 2002 | $8.00 \%$ | $3.0 \%$ |
| 2003 | $8.00 \%$ | $3.0 \%$ |
| 2004 | $8.00 \%$ | $3.0 \%$ |
| $2004($ Lag | $8.00 \%$ | $3.0 \%$ |
| $2005(L a g)$ | $8.00 \%$ | $3.0 \%$ |

## ADDITIONAL DISCUSSION OF PLAN FUNDING AND OTHER MEASURES OF FUNDED STATUS

## On-Going Funding of the Plan

Under the basic equation of pension funding, Contributions plus Investment Earnings pay for Benefits plus Expenses.
There are three major sources for financing those Benefits and Expenses paid from the Plan.
First, Member Contributions are established by statute and paid as percentages of member salaries.
Second, Investment Earnings reflect the rates of return achieved on the amounts of assets held in different asset classes in the Trust.
Third, Employer Contributions are determined by actuarial methodology to finance the Benefits payable by the Plan that are not provided by either Member Contributions or Investment Earnings and for the Administrative and Investment Expenses of the Plan.

This actuarial methodology includes demographic and certain tabular assumptions recommended by the Actuary and adopted by the Retirement Board, and certain economic assumptions and financing methods recommended by the Actuary, supported by the Retirement Board and, where required, enacted into law by the New York State Legislature and Governor.
Employer Contributions are particularly responsive to Investment Earnings and increase (decrease) on a smoothed basis whenever Investment Earnings are less (more) than expected.
For example, during Fiscal Years 2001 to 2003, the Assets of the Plan decreased because they earned less than expected. Consequently, over the following several years, the actuarial methodology responds by increasing Employer Contributions in order to bring the overall financial status of the Plan back into balance.

Due to Investment Earnings between Fiscal Years 2001 and 2003 being substantially less than anticipated, the increases in Employer Contributions to the Plan over the following few Fiscal Years are significant.

The New York City Charter requires an independent actuary to conduct an experience review of the Plan every two years. The Actuary utilizes this information and regularly proposes changes in actuarial assumptions and methods, most recently during Fiscal Year 2006.
These most recent changes, approved by the Retirement Board and implemented during Fiscal Year 2006, include (1) updated demographic assumptions, (2) full recognition of all Obligations of the Plan (i.e., removing the statutory phase-in of certain liabilities) and (3) revised methodologies for smoothing changes in Employer Contributions due to Plan experience. Together, these changes further enhance the long-term financial integrity of the Plan.
The ongoing process of actuarial rebalancing and periodic reviews of actuarial assumptions and methods by the Actuary and the Retirement Board, coupled with a financially responsible, long-duration employer like the City of New York (the City) and other participating Employers that can afford some variability of Employer Contributions, help provide financial security for the Plan and its participants and reasonable intergenerational budget equity for taxpayers.
With the City and other participating Employers that have always paid and are expected to continue to pay the statutorily-required Employer Contributions as calculated by the Actuary and approved by the Retirement Board, changes in Employer Contributions represent the source for rebalancing the basic equation of pension funding.

## Other Measures of Funded Status

Measures of Funded Status of the Plan are determined at specific points in time and are usually expressed in various relationships of Assets to Obligations. Assets as percentages of Obligations are referred to as Funded Ratios.

Comparisons of Funded Ratios over time can provide insight into the long-term financial trend of the Plan.
The Other Measures of Funded Status presented herein provide somewhat different insights into the financial condition of the Plan and comparisons amongst these Other Measures of Funded Status can provide even more.
As noted, there are multiple, possible definitions of the Plan's Assets and Obligations. Some of these definitions of and comments on Assets and Obligations are set forth immediately hereafter. Additional observations about the meanings and usefulness of and the relationships amongst certain of the Funded Ratios are provided following the table of Funded Ratios.

## Definition of and Comments on Assets

With respect to Assets, both Market Value of Assets (MVA) and the Actuarial Value of Assets (or Actuarial Asset Value (AAV)) are used to determine Funded Ratios.
In the case of the Plan, the AAVM currently in use provides for smoothing of the MVA by phasing any Unexpected Investment Returns (i.e., Investment Earnings greater or less than those expected under the actuarial assumption of $8.0 \%$ of AAV each year) into the AAV over a period of six years.
The advantage of using MVA is that it represents the tradable value of the Assets of the Plan at any point in time.
The advantage of using AAV is that it is smoothed to remove the volatility of MVA. The disadvantage of AAV is that it is not the tradable value of Assets in the marketplace and, therefore, does not show the volatility of the Assets.

## Definition of and Comments on Obligations

With respect to Obligations, the Actuarial Accrued Liability (AAL) under any particular Actuarial Cost Method (ACM) is that portion of the APV of projected benefits which is not provided by normal costs (employer and employee).
With respect to the Plan, where the ACM is the Frozen Initial Liability (FIL) ACM, the AAL mathematically can be recast as the Unfunded AAL (UAAL) plus the AAV. To the extent that the UAAL does not change much year to year, then the related AAL remains relatively consistent in value with the AAV each year.
With respect to the ongoing funding of the Plan, the use of the FIL ACM provides for amortizing actuarial gains and losses over the future working lifetimes of active employees. As used by the Plan, the FIL ACM generally results in funding that is more conservative (i.e., greater Employer Contributions) than that of most other Public Pension Plans.

The Entry Age Accrued Liability (EAAL) is defined as the APV of projected benefits less the sum of the APV of future employee contributions and the APV of future employer entry age normal costs.
The EAAL is a required disclosure in accordance with Governmental Accounting Standards Board (GASB) Statement Number 43 (GASB 43) and GASB Statement Number 45 (GASB 45) for Other PostEmployment Benefits (OPEB) under certain ACM.
In accordance with GASB Statement Number 50 (GASB 50), when effective, the EAAL will be a required disclosure for certain Public Pension Plans that utilize the Aggregate ACM.

The Entry Age ACM is the most-commonly utilized ACM for funding Public Pension Plans.
The Projected Benefit Obligation (PBO) is defined as the APV of all benefits attributed by the Plan's benefit formula to employee service rendered prior to the valuation date. The PBO was required reporting under GASB Statement Number 5 (GASB 5) prior to its replacement by GASB 25 and GASB 27. The Accumulated Benefit Obligation (ABO) is determined in the same manner as the PBO but without assuming future salary increases.
The Market Value Accumulated Benefit Obligation (MVABO) is determined in the same manner as an ABO using the same actuarial assumptions except that projected benefit payments are discounted using the expected yields on U.S. Treasury securities of like duration. The MVABO is sometimes described as a Mark-to-Market measure of Obligations or a Market Value of Liabilities (MVL).

## Table of Asset and Obligation Values

The following table presents the values of Assets and Obligations used to calculate alternative Funded Ratios.

| COMPONENT MEASURES OF FUNDED STATUS <br> (In Millions) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Valuation Date | Market Value of Assets (MVA) | Actuarial Asset Value (AAV) ${ }^{*}$ | Actuarial Accrued Liability (AAL)* | Entry Age Accrued Liability (EAAL)* | Projected Benefit Obligation (PBO) | Accumulated Benefit Obligation (ABO)** | Market Value Accumulated Benefit Obligation (MVABO)*** |
| 6/30/99 | \$34,626.1 | \$34,626.1 | \$34,626.1 | \$32,542.5 | \$31,307.3 | \$27,929.8 | \$31,828.0 |
| 6/30/00 | 36,751.2 | 36,142.4 | 36,147.6 | 36,743.6 | 35,141.7 | 31,150.1 | 35,581.1 |
| 6/30/01 | 31,593.0 | 35,410.2 | 35,414.5 | 36,140.1 | 34,446.5 | 30,721.5 | 36,393.4 |
| 6/30/02 | 27,025.9 | 34,177.8 | 34,181.1 | 36,531.2 | 34,744.1 | 30,677.2 | 36,575.1 |
| 6/30/03 | 26,078.0 | 33,169.2 | 33,182.7 | 37,622.9 | 35,776.9 | 31,945.0 | 42,682.0 |
| 6/30/04 | 28,975.4 | 32,817.1 | 32,827.5 | 40,486.9 | 38,554.8 | 35,175.5 | 43,053.6 |
| 6/30/04 (Lag) | 28,975.4 | 33,149.3 | 33,159.7 | 40,872.0 | 38,947.5 | 35,277.6 | 43,223.1 |
| 6/30/05 (Lag) | 30,492.2 | 32,865.1 | 32,872.3 | 42,644.4 | 40,633.9 | 37,033.8 | 51,957.2 |
| 6/30/06 (Lag) ${ }^{\text {+* }}$ | 32,206.7 | 32,405.6 | 32,410.6 | 44,861.7 | 42,619.6 | 38,580.8 | 47,892.4 |

[^8]
## Table of Funded Ratios

The following table presents alternative Funded Ratios comparing Assets to Obligations, including: (1) AAV divided by AAL, (2) AAV divided by EAAL, (3) MVA divided by EAAL, (4) AAV divided by PBO, (5) MVA divided by PBO, (6) AAV divided by ABO, (7) MVA divided by ABO and (8) MVA divided by MVABO.

## FUNDED RATIOS

| Valuation <br> Date | AAV/AAL | AAV/EAAL | MVA/EAAL | AAV/PBO | MVA/PBO | AAV/ABO | MVA/ABO | MVA/MVABO |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $6 / 30 / 99$ | $100 \%$ | $106 \%$ | $106 \%$ | $111 \%$ | $111 \%$ | $124 \%$ | $124 \%$ | $109 \%$ |
| $6 / 30 / 00$ | 100 | 98 | 100 | 103 | 105 | 116 | 118 | 103 |
| $6 / 30 / 01$ | 100 | 98 | 87 | 103 | 92 | 115 | 103 | 87 |
| $6 / 30 / 02$ | 100 | 94 | 74 | 98 | 78 | 111 | 88 | 74 |
| $6 / 30 / 03$ | 100 | 88 | 69 | 93 | 73 | 104 | 82 | 61 |
| $6 / 30 / 04$ | 100 | 81 | 72 | 85 | 75 | 93 | 82 | 67 |
| $6 / 30 / 04$ (Lag) | 100 | 81 | 71 | 85 | 74 | 94 | 82 | 67 |
| $6 / 30 / 05$ (Lag) | 100 | 77 | 72 | 81 | 75 | 89 | 82 | 59 |
| 6/30/06 (Lag)\# | 100 | 72 | 72 | 76 | 76 | 84 | 83 | 67 |
|  |  |  |  |  |  |  |  |  |
| \# Preliminary |  |  |  |  |  |  |  |  |

## Comments on Funded Ratios and Funding Methodology

With respect to the different Funded Ratios shown in the preceding table, the ratio of AAV/AAL is from the Schedule of Funding Progress (Schedule 1) presented in the Financial Section of this CAFR.
Due to the mathematics of the FIL ACM where AAL equals AAV plus UAAL, the AAV/AAL Funded Ratios tend to remain relatively constant from year to year and provide limited insight into the ongoing financial performance of the Plan.
The Other Measures of Funded Status shown in the preceding table provide different relationships between the Assets and Obligations of the Plan and are designed to offer additional insight into the Funded Status of the Plan that the Actuary believes useful to some users.
The ratios of AAV/EAAL reflect information that will be a required disclosure for certain Public Pension Plans that utilize the Aggregate ACM. This requirement currently exists for certain OPEB plans under GASB 43 and GASB 45.

The ratios of AAV/PBO present information that was previously required under GASB 5 and is a comparable but somewhat different representation of the information shown in the Solvency Test presented earlier in this Section of the CAFR.
The ratios of MVA/MVABO provide information on Funded Status that is (1) independent of the asset allocation of the Plan, (2) exclusive of any advance recognition of expected asset risk premia (e.g., equity risk premium) and (3) absent any smoothing of asset values.
Inherent in its design, the MVA/MVABO Funded Ratio is expected to be volatile due to the impact of asset gains and losses without smoothing and the impact of changes in interest rates in the economy. Such volatility is a reflection of markets and can provide useful disclosure information. However, such volatility is not consistent with the needs of budgeting. Those budgeting needs are met by the actuarial assumptions and FIL ACM currently in use to determine Employer Contributions.

Comparing the MVA/EAAL to AAV/EAAL, MVA/PBO to AAV/PBO or MVA/ABO to AAV/ABO provides an opportunity to evaluate the degree of smoothing provided by the Actuarial Asset Valuation Method.
Comparing Funded Ratios based on the same Assets (i.e., MVA or AAV) but different definitions of Obligations (e.g., EAAL versus PBO versus ABO) provides an opportunity to evaluate the differences in those different definitions of Obligations.
Comparing AAV/PBO with AAV/ABO provides insight into the impact of expected salary growth on the value of benefits earned to date.

Comparing MVA/ABO with MVA/MVABO provides an opportunity to compare the impact of alternative interest rates on discounting the ABO.
It should also be noted that Measures of Funded Status are best examined with more consideration of their trends over time than their values at any given point in time.

Finally, over time, it should be noted that as the City and other participating Employers pay into the Plan the actuarially-determined Employer Contributions, all Funded Ratios can be expected to increase from their current levels.

STATUTORY VS. ANNUAL REQUIRED CONTRIBUTIONS

| Fiscal Year <br> Ended June 30 | Statutory <br> Contribution* | Annual Required <br> Contribution | Employer Rate of <br> Contribution** |
| :---: | :---: | :---: | :---: |
| 2000 | $\$ 181,769,965$ | $\$ 181,769,965$ | $4.310 \%$ |
| 2001 | $444,965,372$ | $571,955,543$ | 9.424 |
| 2002 | $509,931,588$ | $607,762,939$ | 10.167 |
| 2003 | $639,617,910$ | $805,782,222$ | 11.695 |
| 2004 | $920,264,167$ | $1,015,331,185$ | 15.788 |
| 2005 | $1,228,275,356$ | $1,304,032,623$ | 19.748 |
| $2006^{* * *}$ | $1,316,610,517$ | $1,316,610,517$ | 21.293 |
| $2007^{* * *}$ | $1,600,904,278$ | $1,600,904,278$ | 25.471 |

[^9]

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[^0]:    * After expenses

[^1]:    * This category primarily consists of positions such as secretaries, guidance counselors, and social workers.

[^2]:    * Excludes \$6,077,662 in securities lending.

[^3]:    * Excludes \$1,849,576 in securities lending.

[^4]:    *A schedule of funding progress for the Plan is presented in Schedule 1.
    (See accompanying "Notes to Financial Statements—Qualified Pension Plan.")

[^5]:    (See accompanying "Notes to Financial Statements-Qualified Pension Plan.")

[^6]:    (The accompanying notes are an integral part of these financial statements.)

[^7]:    See page 65 for corresponding schedule for the Qualified Pension Plan (QPP).

[^8]:    \# The AAV used for the June 30, 1999 to June 30, 2004 actuarial valuations assumes the AAV was reset to MVA as of June 30, 1999. As of each June 30 thereafter, the AAV recognizes Investment Returns greater or less than expected over a period of five years (six years beginning with the June 30, 2004 (Lag) actuarial valuation).

    * Calculated in accordance with the Actuarial Cost Method (i.e., Frozen Initial Liability) and actuarial assumptions used for determining Employer Contributions.
    ** Calculated based on actuarial assumptions used for determining Employer Contributions.
    ${ }^{* * *}$ Calculated based on actuarial assumptions used for determining Employer Contributions except that projected benefit payments are discounted using U.S. Treasury Spot Rates as published by the Department of the Treasury Office of Thrift Supervision in its Selected Asset and Liability Price Tables. The Obligations shown here are more precisely determined and differ modestly from the amounts shown in prior years. The average, annual discount yields as of June 30, 1999, 2000, 2001, 2002, 2003, 2004, 2004 (Lag), 2005 (Lag) and 2006 (Lag) equal approximately 6.0\%, 6.0\%, 5.7\%, 5.8\%, 4.6\%, 5.5\%, 5.5\%, $4.2 \%$, and $5.4 \%$ respectively and the durations of the Obligations as of June 30, 1999, 2000, 2001, 2002, 2003, 2004, 2004 (Lag), 2005 (Lag) and 2006 (Lag) equal approximately 11.5 years, 11.8 years, 11.6 years, 10.9 years, 11.8 years, 11.1 years, 11.2 years, 13.0 years and 11.9 years, respectively.
    \#\# The June 30, 2006 (Lag) figures are preliminary and are generally based on the same census data, actuarial assumptions and methods used to develop published, preliminary Fiscal Year 2008 employer contributions.

[^9]:    * Represents total employer contributions accrued for fiscal year.

    The Statutory Contributions for Fiscal Years 2001 and 2002 were computed in accordance with Chapter 125/00 which provided for a five-year phase-in of the additional actuarial liabilities attributable to Chapter 125/00.

    The Statutory Contributions for Fiscal Years 2003 through 2005 were computed in accordance with Chapter 278/02 which extended from five to ten years the phase-in period for the funding of the additional actuarial liabilities attributable to Chapter 125/00.
    The Statutory Contributions for Fiscal Years 2006 and 2007 were computed in accordance with Chapter 152/06 which eliminated the use of a ten-year phase-in of Chapter 278/02 for funding the additional actuarial liabilities attributed to Chapter 125/00.
    ** The employer rates of contribution equal the Statutory Contributions as percentages of the salaries of members who were on payroll or projected to be on payroll (under One-Year Lag Methodology) as of the preceding June $30^{n}$ adjusted, where applicable, to be consistent with collective bargaining agreements estimated to be achieved.
    *** Based on June 30, 2004 (Lag) Actuarial Valuation.
    **** Based on June 30, 2005 (Lag) Actuarial Valuation.

