2017

Comprehensive Annual Financial Report

FOR THE FISCAL YEARS ENDED JUNE 30, 2017 AND JUNE 30, 2016

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - A FIDUCIARY FUND OF THE CITY OF NEW YORK

THE NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

BROOKLYN, NEW YORK

A FIDUCIARY FUND OF THE CITY OF NEW YORK

COMPREHENSIVE ANNUAL FINANCIAL REPORT

FOR THE FISCAL YEARS ENDED
JUNE 30, 2017 AND JUNE 30, 2016

Prepared by:	**The Finance Division of the New York City Employees' Retirement System**
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COMPREHENSIVE ANNUAL FINANCIAL REPORT
FOR THE FISCAL YEARS ENDED JUNE 30, 2017 AND JUNE 30, 2016

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PART 1

INTRODUCTORY SECTION

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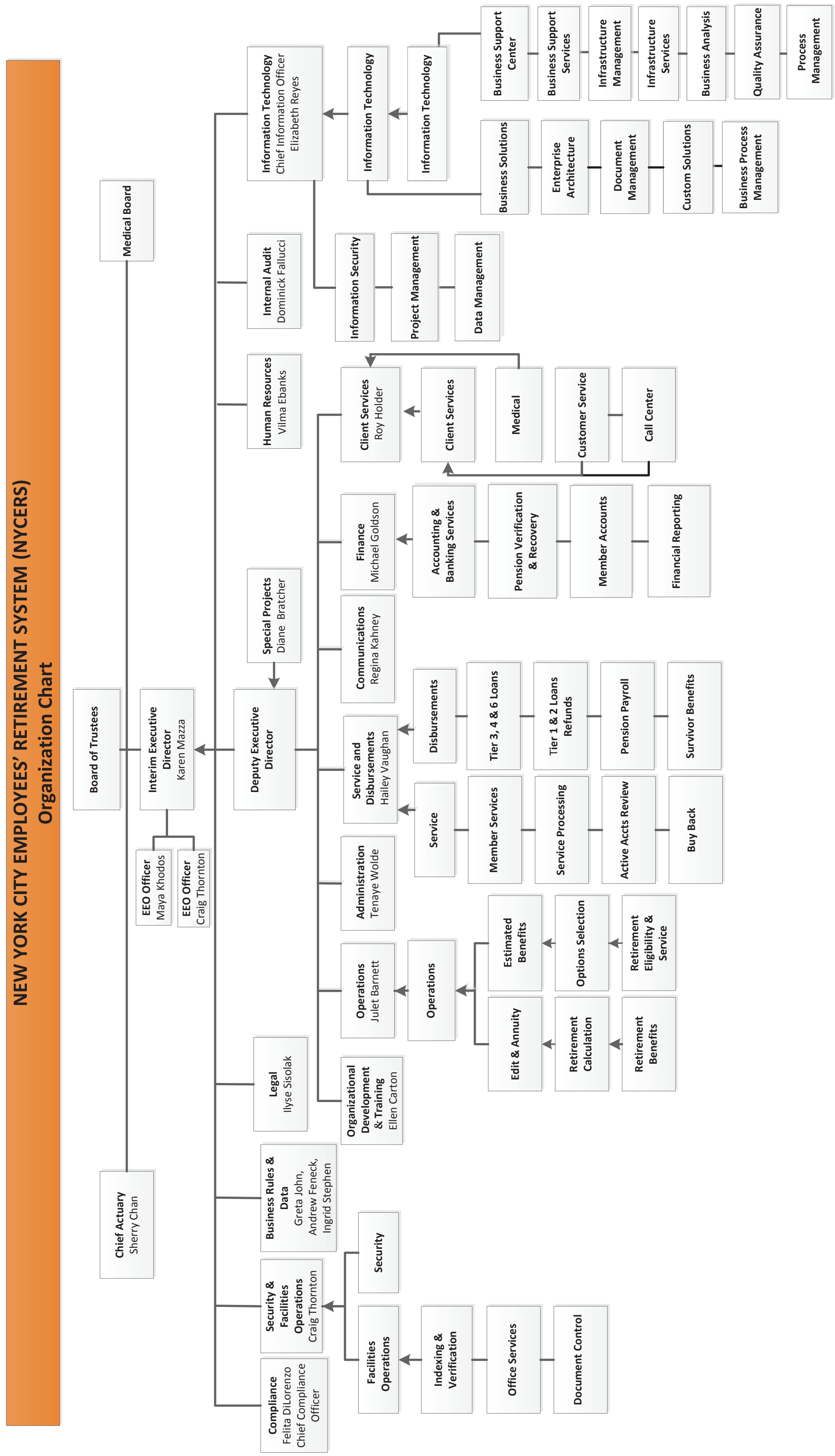
BOARD OF TRUSTEES



NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM (NYCERS)
Organization Chart
Medical Board
Board of Trustees
Chief Actuary
Sherry Chan
Interim Executive Director
Karen Mazza
EEO Officer
Maya Khodos
EEO Officer
Craig Thornton
Deputy Executive Director
Special Projects
Diane Bratcher
Information Technology
Chief Information Officer
Elizabeth Reyes
Internal Audit
Dominick Fallucci
Human Resources
Vilma Ebanks
Legal
Ilyse Sisolak
Business Rules & Data
Greta John,
Andrew Feneck,
Ingrid Stephen
Security & Facilities Operations
Craig Thornton
Compliance
Felita DiLorenzo
Chief Compliance Officer
Information Technology
Information Technology
Business Support Center
Business Support Services
Infrastructure Management
Infrastructure Services
Business Analysis
Quality Assurance
Process Management
Business Solutions
Enterprise Architecture
Document Management
Custom Solutions
Business Process Management
Information Security
Project Management
Data Management
Client Services
Roy Holder
Client Services
Medical
Customer Service
Call Center
Finance
Michael Goldson
Accounting & Banking Services
Pension Verification & Recovery
Member Accounts
Financial Reporting
Communications
Regina Kahney
Service and Disbursements
Hailey Vaughan
Disbursements
Tier 3, 4 & 6 Loans
Tier 1 & 2 Loans Refunds
Pension Payroll
Survivor Benefits
Service
Member Services
Service Processing
Active Accts Review
Buy Back
Administration
Tenaye Wolde
Operations
Julet Barnett
Operations
Estimated Benefits
Options Selection
Retirement Eligibility & Service
Edit & Annuity
Retirement Calculation
Retirement Benefits
Organizational Development & Training
Ellen Carton
Security
Facilities Operations
Indexing & Verification
Office Services
Document Control

Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

New York City

Employees' Retirement System

New York

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2016

Executive Director/CEO

Public Pension Coordinating Council

Public Pension Standards Award For Funding and Administration 2017

Presented to

New York City Employees' Retirement System

In recognition of meeting professional standards for
plan funding and administration as
set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA)
National Conference on Public Employee Retirement Systems (NCPERS)
National Council on Teacher Retirement (NCTR)

Alan H. Winkle
Program Administrator

December 31, 2017

Board of Trustees
New York City Employees' Retirement System
335 Adams Street
Brooklyn, NY 11201-3724

We are pleased to submit the Comprehensive Annual Financial Report (CAFR) of the New York City Employees' Retirement System (Plan) for the fiscal year ended June 30, 2017. The CAFR consists of five sections:

1. The *Introductory Section,* which contains this Letter of Transmittal, the Administrative Organization, the Certificate of Achievement for Excellence in Financial Reporting, the Public Pension Standards Award, the Summary of Plan Provisions, and a summary of legislation enacted during the fiscal year.
2. The *Financial Section,* which contains the opinion of the independent certified public accountant, the Management Discussion and Analysis (MD&A), the financial statements of the Plan and other required supplementary financial information and tables. The MD&A provides an overview of the current year's financial activity with an analysis of the effects of any significant changes from the prior year.
3. The *Investment Section,* which contains a report on investment policies and activity, investment results, and various investment schedules.
4. The *Actuarial Section,* which contains the Plan's actuarial certification letter and various actuarial tables.
5. The *Statistical Section,* which contains various statistical tables consisting of significant data pertaining to the Plan.

ACCOUNTING SYSTEM AND REPORTS

This CAFR has been prepared in conformity with generally accepted accounting principles (GAAP) for governmental units, as set forth by the Governmental Accounting Standards Board (GASB), as well as the reporting requirements prescribed by the Government Finance Officers Association of the United States and Canada (GFOA). Preparation of the CAFR is the responsibility of the Plan's management. The accrual basis of accounting is used to record assets and liabilities, and revenue and expenses. Revenues for the system are taken into account when earned, without regard to date of collection, and expenses are recorded when the corresponding liabilities are incurred, regardless of when payment is made. Investments are valued at fair value.

The management of the Plan is responsible for establishing and maintaining a system of internal accounting control. In fulfilling this responsibility, estimates and judgments made by management are required to assess the expected benefits and related costs of control procedures so that the cost of a control does not exceed the benefits to be derived. The objective of a system of internal accounting control is to provide management with reasonable, but not necessarily absolute, assurance that assets are safeguarded against loss from unauthorized use or disposition. It should also ensure that transactions are executed in accordance with management's authorization, and recorded properly to permit the preparation of financial statements in conformity with generally accepted accounting principles.

The internal accounting controls of the system are adequate to meet the above objectives. There have been no irregularities that would have a material effect on the financial statements. The supporting schedules and statistical tables also fairly reflect the status and operations of the system.

In fiscal year 2015, the Plan adopted GASB Statement No. 72, *Fair Value Measurement and Application*. GASB 72 requires the funds to use valuation techniques which are appropriate under the circumstances and are either a market approach, a cost approach, or an income approach. GASB 72 also requires additional related note disclosures. There was no material impact on the Plan's financial statement as a result of the implementation of Statement No. 72.

AWARDS

The GFOA awarded a Certificate of Achievement for Excellence in Financial Reporting to NYCERS for its CAFR for the fiscal year ended June 30, 2016. In order to be awarded a Certificate of Achievement, a governmental unit must publish an easily readable and efficiently organized CAFR, the contents of which conform to program standards. Such financial reports must satisfy both generally accepted accounting principles and applicable legal requirements. The Plan has received this certificate for the last 31 years.

A Certificate of Achievement is valid for a period of one year only. We believe our CAFR for the fiscal year ended June 30, 2017 continues to conform to the Certificate of Achievement Program requirements, and we are submitting it to the GFOA to determine its eligibility for another certificate.

The Public Pension Coordinating Council (PPCC) awarded a Public Pension Standards Award for Funding and Administration to NYCERS for 2017. This is the eighth year that NYCERS has applied for and received this prestigious award. In order to be awarded a Public Pension Standards Award, a public pension program must meet professional standards for plan design, administration, and funding, as set forth in the Public Pension Standards. The Public Pension Standards are intended to reflect minimum expectations for public retirement system management and administration, as well as serve as a benchmark by which all defined benefit public plans should be measured. A Public Pension Standards Award is valid for a period of one year.

ADMINISTRATION

NYCERS was established by an act of the Legislature of the State of New York under Chapter 427 of the laws of 1920. Chapter 427 created a retirement system in accordance with sound actuarial principles. The governing statutes are contained in the New York State Retirement and Social Security Law (RSSL), and the New York City Administrative Code. The head of the retirement system is the Board of Trustees. The system became operational on October 1, 1920 with 13,331 original members. As of June 30, 2015, the date of the Plan's most recent actuarial valuation, the Plan's membership included 185,758 members in active pay status, 144,526 retirees and beneficiaries receiving benefits, 9,402 terminated vested members who are not yet receiving benefits, and 16,907 members who are no longer on payroll, but not otherwise classified.

INITIATIVES

NYCERS is on a journey of transformation through the accomplishment of key initiatives that will span the next 5 to 6 years. We have been preparing for our upcoming multi-year legacy system replacement project, including developing the Request for Proposals, data analysis and data cleansing. In November 2016, we expanded our Disaster Recovery Plan by securing a tertiary site in Virginia to back up our data. This ensures the availability of our pension data in the event of a regional disaster. In December 2016, a wireless infrastructure was implemented to facilitate collaboration and expand capabilities in Client Services. Client Services is now able to service customers while they wait, reducing overall wait times. Our crisis response if the Customer Service Center is unavailable to visitors was also improved, as Client Service Representatives are no longer confined to wired workstations.

MEMBERSHIP

Membership in NYCERS is available to all New York City employees who are not eligible to participate in the New York City Teachers' Retirement System, the New York City Police Pension Fund, the New York City Fire Department Pension Fund, or the New York City Board of Education Retirement System.

All persons holding permanent civil service positions in the competitive or labor class are required to become members of the system six months after their date of appointment, but may voluntarily elect to join the system prior to their mandated membership date. All other eligible employees have the option of joining the system upon appointment or at any time thereafter.

All members who joined NYCERS prior to July 1, 1973 are Tier 1 members.

All members who joined NYCERS on or after July 1, 1973, but prior to July 27, 1976, and Investigator Members employed in any New York City District Attorney Office who joined NYCERS on or after July 1, 1973, but prior to April 1, 2012, are Tier 2 members subject to Article 11 of the RSSL.

All members of the uniformed force of the NYC Department of Correction who joined NYCERS on or after July 27, 1976, but prior to April 1, 2012, are Tier 3 members subject to Article 14 of the RSSL.

All members (except members of the uniformed force of the Department of Correction and Investigator Members employed in a New York City District Attorney Office) who joined NYCERS on or after July 27, 1976, but prior to April 1, 2012, are Tier 4 members subject to Article 15 of the RSSL. Tier 4 members who joined NYCERS on or after July 27, 1976, but prior to September 1, 1983, retain all rights, benefits, and privileges provided under Article 14 of the RSSL (Tier 3).

All members who joined or join NYCERS on or after April 1, 2012 are Tier 6 members except members of the uniformed force of the Department of Correction, members of the uniformed force of the Department of Sanitation, and Investigator Members employed in a New York City District Attorney Office. These members are subject to Article 14 of the RSSL.

EMPLOYERS

The Plan is a cost-sharing, multiple-employer public employee retirement system. In addition to the various departments of the City of New York, members of NYCERS are also employed by the New York City Transit Authority, the Triborough Bridge and Tunnel Authority, the New York City Housing Authority, the New York City Health and Hospitals Corporation, the New York City

Housing Development Corporation, the City University of New York, the New York City School Construction Authority, and the New York City Municipal Water Finance Authority. A table listing these employers and the number of their respective participating employees may be found on page 184 in the Actuarial Section.

CONTRIBUTIONS

The benefits of the system are financed by employer contributions, employee contributions, and from earnings on the invested funds of the system.

As of July 1, 1970, Tier 1 and Tier 2 Transit operating-force employees enrolled in the Transit 20-Year Plan are non-contributory. For all other Tier 1 and Tier 2 members, contributions are dependent upon the member's age and the retirement plan elected. For Tier 3 and Tier 4 members, Basic Member Contributions (BMCs) are 3% of gross wages and cease upon the attainment of 10 years of Credited Service or the tenth anniversary of membership (except for certain Corrections, Sanitation and District Attorney members as noted below), whichever occurs first. Tier 4 Transit operating-force members, however, pay 2% of gross wages for as long as they remain in service. Certain Tier 2, Tier 3, and Tier 4 members who are participants in special retirement plans are required to make Additional Member Contributions (AMCs) in addition to their BMCs.

Tier 6 members are generally mandated to contribute BMCs until they separate from City service or until they retire. The BMC rate for most Tier 6 members is dependent on annual wages earned during a plan year; the rate ranges from 3% for salaries up to $45,000, to 6% for salaries greater than $100,000. Tier 6 Special Plan members, such as those in the Special Peace Officer 25-Year Plan, must also contribute AMCs in accordance with the rates and durations specified for their particular special plan.

Uniformed members of the Department of Correction, uniformed members of the Department of Sanitation and District Attorney ("DA") Investigator members employed in a District Attorney office, who became employed in one of these titles on or after April 1, 2012, participate in a 22-year Plan. These members are required to contribute 3% of gross wages until the later of 25 years of service or until they retire.

Employer contributions are determined annually by the Chief Actuary of the system.

REVENUES

As mentioned previously, the funds needed to finance retirement benefits are accumulated from a combination of employer contributions, employee contributions, and through income on investments. Contributions and investment income for fiscal year 2017 totaled $10.8 billion, an increase of $5.8 billion from $5.0 billion for fiscal year 2016. As discussed further in the Management Discussion and Analysis in the Financial Section, this increase in revenue is primarily the result of the increased net investment income in Fiscal Year 2017. The Table of Revenue by Source on page 200 presents figures for the last 10 years.

EXPENSES

The primary expenses of a retirement system relate to the purpose that the system was created - to pay benefits to eligible retirees and beneficiaries. Consequently, recurring monthly retirement benefit payments, death benefit payments, and refunds of contributions to terminated members comprise the major expenses of the Plan. The Table of Benefit Payments by Type on page 202 and the Table of Changes in Fiduciary Net Position on page 201 present the details of the different expenses over the last 10 years.

FUNDING

One of the most important measures for a retirement system is the level of funding. A higher funding percentage translates into a larger ratio of assets available to meet the system's future obligations. A well-funded plan improves the likelihood that the assets that are irrevocably committed to the payment of benefits will be adequate to cover the required benefit payments. The goal is to fund members' future retirement benefits during their working careers. As of June 30, 2015, the Plan's most recent actuarial valuation date, the Plan's funded ratio is 69.9%. This ratio was determined by the Actuary using the Entry Age Actuarial Cost Method. Please refer to the Actuarial Section for details concerning the actuarial methods and assumptions used in determining the required funding.

Under the Accounting Standard "GASB Statement No. 67, *Financial Reporting for Pension Plans,"* a defined-benefit pension plan is also required to report fiduciary net position as a percentage of the plan's total pension liability. This method reports assets at current fair value and, as such, is more sensitive to market volatility. As of June 30, 2017, the fiduciary net position represents 74.8% of total pension liability for NYCERS and the 5 VSFs.

INVESTMENTS

The investment portfolio is a significant component in the funding of the system. The Administrative Code of the City of New York authorizes the investment of Plan assets subject to the terms, conditions, limitations and restrictions imposed by law for investments by savings banks. The New York State Retirement and Social Security Law (RSSL) establishes the criteria for permissible investments.

The Plan's Board of Trustees adopts investment policies. The Board creates the overall investment policy under which the Plan's funds are invested and, in defining the investment objectives, develops a framework under which specific objectives are established with regard to allocating the assets of the Plan among various investment types. The current policy target mix consists of 29.0% in Domestic Equities, 20.0% in an International Equity fund, 33.0% in Domestic Fixed Income, and 18.0% in Alternative Investments.

For the one-year period that ended on June 30, 2017, the Plan's rate of return on investments was 12.99%, considerably higher than the 1.52% return experienced during the year ending June 30, 2016. Further details concerning the criteria for the Plan's investments, policies, investment performance, and other investment tables may be found in the Investment Section. Listings of the Plan's major domestic equity and long-term bond holdings can be found on pages 137 and 138. Although this CAFR does not include a full list of the Plan's investment securities, such information is available upon request.

ECONOMIC CONDITIONS

The City's economy in Fiscal Year 2017 grew 2.1% in real gross city product, lower than the 3.1% in fiscal year 2016. While this was the slowest growth since 2012, the City has outperformed national GDP growth for the fifth consecutive year.

The unemployment rate fell to 4.8% in fiscal year 2017, the lowest level since fiscal 2007. The labor force grew by 37,427, rising to a record level of almost 4.2 million. All five boroughs within the city enjoyed a broad decline in the unemployment rate during the fiscal year.

The City added 69,600 private sector jobs, a gain of 1.9%, in fiscal year 2017, less than the 2.7% added in fiscal year 2016. About 54.5% of those new jobs were in the low-wage sector (below $60,000 per year); 22.1% were in middle-wage sector ($60,000 to $119,000); 23.4% were in higher-wage sector (over $119,000).

Earnings and wages continued to increase in Fiscal Year 2017. Average hourly earnings of all private New York City employees rose 2.7%, nearly double the 1.4% growth in Fiscal Year 2016.

PROFESSIONAL SERVICES

The opinion of the independent certified public accounting firm on the Plan's financial statements is included in this CAFR. The Comptroller of the City of New York is the custodian of the Plan's assets and provides investment services through independent advisors and consultants who are listed in the Investment Section's Schedule of Fees paid to Investment Managers and Consultants on page 140. A listing of brokerage firms, and the amounts paid to such firms, can be found in the Schedule of Brokers' Commissions on page 147. Other consultant services are shown in the Financial Section's Schedule of Payments to Consultants on page 127. Actuarial services are provided to the Plan by the Chief Actuary employed by the Board of Trustees. The City's Corporation Counsel provides legal services to the Plan.

ACKNOWLEDGMENTS

The compilation of this CAFR reflects the combined effort of NYCERS' staff, under the leadership of the Board of Trustees. It is intended to provide complete and reliable information as a basis for making management decisions, as a means of determining compliance with legal provisions, and as a means for determining responsible stewardship for the assets contributed by the members and their employers.

On behalf of the Board of Trustees, we would like to take this opportunity to express our gratitude to the staff, the advisors, and to the many people who have worked diligently to ensure the continued successful operation of the system.

Respectfully submitted,

Melanie Whinnery
Executive Director

Michael A. Goldson
Director, Finance

LEGISLATION ENACTED DURING FISCAL YEAR 2017
(July 1, 2016 – June 30, 2017)

Laws of 2016
(enacted between July 1, 2016 and December 31, 2016)

Chapter 347 – Increase in Special Accidental Death Benefit
Chapter 347 of the Laws of 2016 increases the salary used in the computation of the special accidental death benefit provided under Section 208-f of the NYS General Municipal Law by 3%. The beneficiaries of the following NYCERS members are covered: members of the Uniformed Correction Force, Housing and Transit Police, Emergency Medical Technicians and Triborough Bridge and Tunnel Authority (TBTA) members. The benefit is payable to the widow, widower, or the children of the deceased (under 18 years of age or under 23 if the child is a student) if the widow or widower is deceased. Chapter 347 is deemed to have been in full force and effect on September 29, 2016.

Chapter 428 – Transit Managers Refund of Additional Member Contributions
Chapter 428 of the Laws of 2016 amends Retirement and Social Security Law Sections 604-c and 604-d relating to refunding contributions for NYC Transit Authority members in the title Transit Manager. Specifically, this law provides certain NYC Transit Authority NYCERS members who were employed as Transit Managers as of October 1, 2006 a refund of the employee portion of Additional Member Contributions that were paid while participants of one of the Chapter 96/1995 Retirement Programs (55/25 and 57/5). This law is effective November 14, 2016.

Chapter 438 – Elimination of Restrictions on Transfer
Chapter 438 of the Laws of 2016 amends Retirement and Social Security Law Section 43 to eliminate restrictions upon transferring between public retirement systems. This law is effective November 14, 2016.

Laws of 2017
(enacted between January 1, 2017 and June 30, 2017)

Chapter 61
Chapter 61 of the Laws of 2017 adds section 209-ff to the General Municipal Law. This new section provides that 22-Year Plan Members are eligible for accidental disability benefits under RSSL 507 regardless of the fact that the member also qualifies for normal service retirement. In addition, the law amends RSSL 507(d), which states that a member can be put on the preferred eligible list without a medical examination if his or her Social Security Administration (SSA) disability benefits cease or he or she was awarded accident disability without a determination from SSA, but is earning a salary that would be greater than what is permitted under the SSA. Under the new law, 22-Year Sanitation and IDA members are now subject to safeguards under NYCERS Rules and the provisions of 507(d) do not apply. For 22-Year Correction members, the member must have a medical examination and be found not disabled before 507(d) is applied. This law is effective June 28, 2017.

SUMMARY OF PLAN PROVISIONS

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SUMMARY OF PLAN PROVISIONS
GLOSSARY OF TERMS

Accumulated Deductions
The total of all contributions made by members, **plus** compounded interest earned on such contributions (8.25% for Tiers 1 and 2; 5% for Tiers 3, 4 and 6).

Active Service
Service rendered while a member is on the payroll and being paid by the City of New York or a Participating Employer.

Additional Member Contributions (AMCs)
Contributions made by participants in a special plan in addition to Basic Member Contributions. AMC rates vary according to special plan provisions. AMCs are held in the Retirement Reserve Fund for each special plan.

Allowable Correction Service
Service rendered in the uniformed force of the New York City (NYC) Department of Correction or any of the following uniformed forces:

- NYC Housing Police
- NYC Transit Police
- NYC Department of Sanitation
- NYC Police Department
- NYC Fire Department

Service in one of the above-mentioned uniformed forces must have been rendered immediately prior to becoming a member of the uniformed force of the NYC Department of Correction to count as Allowable Correction Service.

Note: The 22-Year Plan for Uniformed Correction Force members (CF-22) is a Credited Service plan, not an Allowable Service plan.

Allowable Sanitation Service
Service rendered in the uniformed force of the New York City (NYC) Department of Sanitation or any of the following uniformed forces:

- NYC Housing Police
- NYC Transit Police
- NYC Department of Correction
- NYC Police Department
- NYC Fire Department

Service in one of the above-mentioned uniformed forces must have been rendered immediately prior to becoming a member of the uniformed force of the NYC Department of Sanitation to count as Allowable Sanitation Service.

Note: The 22-Year Plan for Uniformed Sanitation Force members (SA-22) is a Credited Service plan, not an Allowable Service Plan.

Allowable Service as a Dispatcher Member

Service rendered while employed by the City of New York as a Fire Alarm Dispatcher, Supervising Fire Alarm Dispatcher, levels 1 and 2, Director of Dispatch Operations or Deputy Director of Dispatch Operations, and all service rendered in the following NYC Civil Service titles, or in a title whose duties require the supervision of employees serving in such titles:

Chief Fire Alarm Dispatcher	Administrative Fire Alarm Dispatcher	Bus Operator (Transit)
Train Dispatcher (Transit)	Firefighter	Police Officer
Correction Officer	Fire Marshal	Probation Officer
Police Communications Technician	Supervising Police Communications Technician	Principal Police Communications Technician
Police Administrative Aide	Senior Police Administrative Aide	Emergency Medical Technician
Advanced Emergency Medical Technician	Emergency Medical Service Specialist, Levels 1 and 2	Fire Prevention Inspector
Fire Protection Inspector	Senior Fire Prevention Inspector	Principal Fire Prevention Inspector
Associate Fire Protection Inspector	County Detective	Detective (NYPD)
Detective Investigator	Senior Detective Investigator	Deputy Sheriff
Senior Deputy Sheriff	Inspector of Fire Alarm Boxes	Radio Operator
Radio Repair Technician	Supervisor of Radio Repair Operations	Taxi and Limousine Inspector
Senior Taxi and Limousine Inspector	MTA Bridge and Tunnel Officer	

Allowable Service as an EMT Member

Service rendered while employed by the City of New York or the NYC Health & Hospitals Corporation in a title whose duties are those of an Emergency Medical Technician or Advanced Emergency Medical Technician, or in a title whose duties require the supervision of employees serving in such titles. Service rendered in the title of Motor Vehicle Operator with the City of New York or NYC Health & Hospitals Corporation is also considered Allowable Service as an EMT Member.

Allowable Service as a Special Officer

Service rendered in the following titles whose duties are those of a peace officer under the NYS Criminal Procedure Law:

- Special Officer (employed by a City agency, the NYC Health and Hospitals Corporation, or the NYC Housing Authority)
- Urban Park Ranger (employed by the NYC Parks Department)
- Parking Control Specialist (employed by the NYC Department of Transportation)
- School Safety Agent (employed by the NYPD/NYC Department of Education)
- Campus Peace Officer (employed by the City University of New York)
- Taxi and Limousine Inspector (employed by the NYC Taxi and Limousine Commission)

Allowable Service in the Transit Authority

Membership Service (not purchased service) while employed by the New York City Transit Authority in a Career and Salary title or Transit Operating Force title.

Annuity

Payments made for the life of a Tier 1 or Tier 2 retiree derived from his or her Accumulated Deductions. These payments are typically based on the contributions the employee made to NYCERS throughout his or her membership.

Average Compensation (applies only to certain Tier 1 and 2 plans)

The average of compensation earned from the completion of 20 years to the date of retirement.

Career Pension Plan Position

Any position in City service other than a Transit Operating Force position, a position in the uniformed force of the NYC Department of Sanitation, or the uniformed force of the NYC Department of Correction.

Career Pension Plan Qualifying Service

In general, Membership Service rendered in a Career Pension Plan Position or Membership Service rendered prior to July 1, 1968, Transferred Service from another New York City or New York State public employee retirement system, up to six months of Purchased Service, provided such service was continuous and immediately preceded membership prior to January 1, 1968, or Pension Enhancement Service.

Credited Service

The total amount of service used for members' pension calculations, except for participants of special plans that exclusively have an Allowable Service requirement. The following types of service are included in the total:

- Service rendered while a member of NYCERS, and
- Service rendered while a member of another retirement system within New York City or New York State and transferred to NYCERS, and
- Service purchased under applicable laws and rules for buy-back
- Membership Reinstatement Service
- Military Service
- Union Leave Service

Designated Beneficiary

The person(s) nominated by a member or retiree to receive an Ordinary Death Benefit or Post-Retirement Death Benefit, respectively, upon his or her death. A Designated Beneficiary can be a Primary Beneficiary or a Contingent Beneficiary (entitled to receive benefits only if there are no surviving Primary Beneficiaries).

Eligible Beneficiary

A person who is eligible to be paid an Accidental Death Benefit, in the following order of priority:

- o a surviving spouse who has not remarried (A surviving spouse of a Tier 1 or Tier 2 uniformed worker of the NYC Department of Sanitation may subsequently remarry and still retain the Accidental Death Benefit.)
- o dependent child - up to age 18 for Tiers 1 and 2 members
- o dependent child - up to age 25 for Tiers 3, 4 and 6 members
- o dependent parents, or for Tiers 3, 4 and 6 members only, any person up to age 21 who qualified as a dependent on the member's final Federal income tax return.
- o Anyone you name as your beneficiary for your Ordinary Death Benefit (not applicable to 22-Year Plan members)

An Eligible Beneficiary must apply for an Accidental Death Benefit and NYCERS' Medical Board and Board of Trustees must approve the application.

In the event that a class of Eligible Beneficiaries consists of more than one person (for example, two or more children under the age of 25), benefits will be divided equally among such persons.

Enhanced Disability Benefit (EDB)

A retirement benefit enhancement program for eligible 22-Year Plan members of the Uniformed Correction Force and Uniformed Sanitation Force.

Excess Contributions

Contributions a Tier 1 or Tier 2 member makes, and all interest earned on such contributions, after the member has satisfied the requirements for his or her plan.

Excess Increased-Take-Home-Pay

Contributions made by the employer of a Tier 1 or Tier 2 member after the member has satisfied the requirements for his or her plan.

Final Average Salary (FAS)

For Tiers 2, 3 and 4:

The greater of the average annual wages earned during any three consecutive calendar years or the final 36 months immediately preceding a member's retirement date. **But**, if the salary earned during any year included in the calculation of the member's FAS exceeds the specific limits for Tier 2, Tier 3 or Tier 4 members, the amount in excess of such limits is excluded from the computation.

For 22-Year Plans and Tier 6:

The greater of the average annual wages earned during any five consecutive calendar years or the final 60 months immediately preceding a member's retirement date. **But**, if the salary earned during any year included in the calculation of the member's FAS exceeds the specific limits for Tier 6 members, the amount in excess of such limits is excluded from the computation.

Final Compensation

The average compensation earned during the five-year period immediately preceding a member's retirement date or any consecutive five calendar years prior to the member's retirement date that would provide him or her with the greatest average compensation.

Final Salary (Tier 1 Members and Tier 2 DA Investigators in the 20-Year Plan)

For members of the uniformed forces of the departments of Sanitation and Correction who joined the retirement system prior to July 1, 1973:

- the annual rate of salary earnable on the day before the date of retirement.

For all others:

- Earned or earnable salary in the year before retirement or the average of annual compensation earned during any three calendar years.

Tier 1 members with a membership date after June 17, 1971 and Tier 2 DA Investigators in the 20-Year Plan are subject to certain limits if their Final Salary exceeds that of the prior year by more than 20%.

Increased-Take-Home-Pay (ITHP)

Contributions for Tier 1 and Tier 2 members that are contributed by their employer equal to 2% of the members' gross salaries; 2.5% for Correction Officers.

Pension Reserve

The total amount computed to pay retirement benefits over a retiree's lifetime, including ITHP but excluding Accumulated Deductions.

Physically-Taxing Position

A position in City service included on the Official List of Physically-Taxing Positions promulgated and maintained by the NYC Office of Labor Relations.

Post-Retirement Death Benefit (Death Benefit Plan 2 only)

A lump-sum death benefit payable to the person(s) designated by certain Tier 2, 3, 4 and 6 members. The amount of the benefit is dependent upon the date of the member's death after retirement. This benefit is in addition to any benefit payable under a retirement option.

Primary Social Security Benefit

The benefit payable by the Social Security Administration which is determined by a formula based upon wages earned from a public employer from which Social Security deductions were taken.

Reserve for Increased-Take-Home-Pay (ITHP)

For some Tier 1 and Tier 2 members, an amount which at the time of death or retirement is equal to the accumulation of the contributions for ITHP, **plus** interest earned thereon.

Total Reserve

The total amount computed to pay retirement benefits over a retiree's lifetime, including ITHP and Accumulated Deductions.

CAREER PENSION PLAN (PLAN A)

SERVICE RETIREMENT

- Participants may retire: at age 55 with 25 or more years of Career Pension Plan (CPP) Qualifying Service; at age 50 with 25 or more years of physically-taxing service; with 20 or more years of CPP service, but benefits are payable when member would have completed 25 years of service or reached age 55 (age 50 for physically-taxing)
- The Service Retirement Benefit is:
  - *For the first 25 years of CPP Qualifying Service: 2.20% of Final Salary; less Required Amount; plus Accumulated Deductions; plus*
  - *For all years other than the first 25 years of CPP Qualifying Service: 1.20% of Final Salary (years prior to 07/01/68); plus 1.70% of Final Salary (years after 06/30/68); plus*
  - *A Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity for Excess Contributions*

VESTED RETIREMENT

- No provision for vesting. CPP members must withdraw from Plan A and switch to Plan B (See Plan B)

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x Final Salary for each year after June 30, 1968; 1.20% x Final Salary for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary; 20 or more years - 24 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

FIFTY-FIVE YEAR INCREASED SERVICE FRACTION PLAN (PLAN B)

SERVICE RETIREMENT

- Participants may retire at age 55 with benefits payable immediately
- The Service Retirement Benefit is:
  - *For each year of Credited Service prior to July 1, 1968: 1.20% of Final Salary; plus*
  - *For each year of Credited Service after June 30, 1968: 1.53% of Final Salary; plus*
  - *a Pension for Increased-Take-Home-Pay (ITHP); plus*
  - *Annuity of Accumulated Deductions*

VESTED RETIREMENT

- Eligible with at least five years of service; benefit payable at age 55
- Vested Retirement Benefit is calculated the same as the Service Retirement Benefit

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x Final Salary for each year after June 30, 1968; 1.20% x Final Salary for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

TRANSIT 20-YEAR RETIREMENT PLAN (T-20) TRANSIT 20-YEAR NON-CONTRIBUTORY RETIREMENT PLAN (20N/C)

SERVICE RETIREMENT

- Participants may retire at age 50 with 20 or more years of Transit Operating Service (TOS)
- The Service Retirement Benefit is:
  - *First 20 years of TOS: 50% of Final Salary, plus*
  - *Each year of TOS above 20: 1.5% x Final Compensation x TOS rendered on or after 07/01/68, plus*
  - *Each year of other service: 1% x Final Compensation x years of other service, plus*
  - *Pension for Increased-Take-Home-Pay (ITHP), plus*
  - *Pension for members prior to 07/01/70 who elected to make voluntary contributions.*
  - *If 55 with less than 20 years of TOS, may switch to the Age 55 1/100 Plan and retire with immediate payability*

VESTED RETIREMENT

- No provision for vesting

DISABILITY RETIREMENT

- Ordinary: Must have ten or more years of Credited Service
- Accidental: No minimum service but disability resulted from an on-the-job accident
  - *Ordinary: Less than age 50: 2.5% x Final Compensation x TOS up to 20; plus 1.5% x Final Compensation x TOS above 20 rendered on or after 07/01/68; plus 1% x Final Compensation x all other service. If 20 or more years of TOS and age 50, benefit equals Service Retirement Benefit*
  - *Accidental: Pension of 75% of Final Compensation; plus a pension based on the ITHP; plus an annuity based on any Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service: six months of Earnable Salary; 10 or more years: 12 months of Earnable Salary
- Accidental: Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

SANITATION 20-YEAR RETIREMENT PLAN (S-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Allowable Sanitation Service
- The Service Retirement Benefit is:
  - *For the first 20 years of Allowable Service: 50% of Final Salary, less Required Amount, plus Accumulated Deductions*
  - *For each year of service (other than the first 20) prior to July 3, 1965: 1% of Final Compensation; plus*
  - *For each year of service (other than the first 20) after July 2, 1965: 1.5% of Final Compensation, plus*
  - *a Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity for Excess Contributions*

VESTED RETIREMENT

- Must have five or more years of Allowable Sanitation Service, but less than 20; payable the date the member would have reached 20 years if he/she had not discontinued service
- For each year of Allowable Service: 2.5% of Final Salary; plus
- For years other than Allowable Service: 1% of Final Compensation

DISABILITY RETIREMENT

- Ordinary - must have five or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: If 10 or more years of Allowable Service – 50% of Final Salary; If less than 10 years – 1/3 of Final Salary; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Salary; plus ITHP; plus Accumulated Deductions; plus if more than 20 years of Allowable Service, 1% x Average Compensation x years in excess of 20; plus .5% x Average Compensation x years in excess of 20 rendered on or after July 1, 1967*
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- Members may file for benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Heart Presumption: Death due to heart ailment presumed accidental; accidental death benefit payable
- Death Benefit for Vested Members (See Plan B)
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

SANITATION 25-YEAR RETIREMENT PLAN (S-25)

SERVICE RETIREMENT

- Participants may retire with 25 or more years of Allowable Sanitation Service
- The Service Retirement Benefit is:
  - *For the first 25 years of Allowable Service: 50% of Final Salary, less Required Amount plus Accumulated Deductions*
  - *For each year of service (other than the first 20) prior to July 3, 1965: 1% of Final Compensation; plus*
  - *For each year of service (other than the first 20) after July 2, 1965: 1.5% of Final Compensation; plus*
  - *a Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity for Excess Contributions*

VESTED RETIREMENT

- Must have five or more years of Allowable Sanitation Service, but less than 25; benefit payable when member would have reached 25 years if he/she had not discontinued service
- For each year of Allowable Service: 1% x Final Compensation; plus
- For each year of Allowable Sanitation Service rendered after July 2, 1965: .5% x Final Compensation

DISABILITY RETIREMENT

- Ordinary - must have five or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: If 10 or more years of Allowable Service – 50% of Final Salary; If less than 10 years – 1/3 of Final Salary; If eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Salary; plus ITHP; plus Accumulated Deductions*
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- Members may file for benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Heart Presumption: Death due to heart ailment presumed accidental; accidental death benefit payable
- Death Benefit for Vested Members (See Plan B)
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

AGE 55 ONE-PERCENT RETIREMENT PLAN (1/100)

SERVICE RETIREMENT

- Participants may retire at age 55 irrespective of the amount of Credited Service attained by such age
- The Service Retirement Benefit is:
  - *For each year of Credited Service: 1% of Final Compensation; plus*
  - *A Pension for Increased-Take-Home-Pay (ITHP); plus*
  - *An Annuity for Accumulated Member Contributions*

VESTED RETIREMENT

- There is no provision for vesting

DISABILITY RETIREMENT

- Ordinary – must have 10 or more years of Membership Service; Accidental – no minimum service, but disability resulted from on-the-job accident.
- Disability Retirement Benefit:
  - *Ordinary: If age 55, benefit = Service Retirement Benefit*
    - *If less than age 55, benefit = 2 x 1/100 for each year of service that would have been completed upon reaching age 55 for eligibility for service retirement x Final Compensation, up to 25% of Final Compensation; or, if greater:*
    - *2 x 1/100 for each year of actual service completed to date x Final Compensation*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DISPATCHERS 25-YEAR RETIREMENT PLAN (D-25)

SERVICE RETIREMENT

- Participants may retire after 25 years of Allowable Service as a Dispatcher Member
- The Service Retirement Benefit is:
  - *For the first 25 years of Allowable Service: An Annuity (the actuarial equivalent of the member's required contributions), plus a Pension for Increased-Take-Home-Pay (ITHP), plus a Pension, which when added to the Annuity and Pension for ITHP equals 55% of Final Salary; plus*
  - *For each year beyond the first 25 years of Allowable Service: 1.70% of Final Salary; plus*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- Must have five or more years of Allowable Service as a Dispatcher Member, but less than 25
- Payability Date: The date the member would have reached 25 years if he/she had not discontinued service
- Vested Benefit: For each year of Allowable Service as a Dispatcher Member: 2.2% of Final Salary

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x Final Salary for each year after June 30, 1968; 1.20% x Final Salary for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

EMERGENCY MEDICAL TECHNICIAN (EMT) 25-YEAR RETIREMENT PLAN (E-25)

SERVICE RETIREMENT

- Participants may retire after 25 years of Allowable Service as an EMT Member
- The Service Retirement Benefit is:
  - *For the first 25 years of Allowable Service: An Annuity (the actuarial equivalent of the member's required contributions), plus a Pension for Increased-Take-Home-Pay (ITHP), plus a Pension, which when added to the Annuity and Pension for ITHP equals 55% of Final Salary; plus*
  - *For each year beyond the first 25 years of Allowable Service: 1.7% of Final Salary; plus*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- Need five or more years of Allowable Service, but less than 25; payable when member would have reached 25 years
- For each year of Allowable Service: 2.2% of Final Salary

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental - no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x Final Salary for each year after June 30, 1968; 1.20% x Final Salary for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit=Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Heart Presumption: Heart ailments resulting in disability presumed line-of-duty; accidental benefit payable
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; accidental benefit payable
- Members may file for benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Heart Presumption: Death due to heart ailment presumed line-of-duty; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

SPECIAL OFFICER 25-YEAR RETIREMENT PLAN (SPO)

SERVICE RETIREMENT

- Participants may retire after 25 years of Allowable Service as a Special Officer Member
- The Service Retirement Benefit is:
  - *For the first 25 years of Allowable Service: An Annuity (the actuarial equivalent of the member's required contributions), plus a Pension for Increased-Take-Home-Pay (ITHP), plus a Pension, which when added to the Annuity and Pension for ITHP equals 55% of Final Salary; plus*
  - *For each year beyond the first 25 years of Allowable Service: 1.70% of Final Salary; plus*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- Must have five or more years of Allowable Service as a Special Officer Member, but less than 25
- Payability Date: The date the member would have reached 25 years if he/she had not discontinued service
- Vested Benefit: For each year of Allowable Service: 2.2% of Final Salary

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x Final Salary for each year after June 30, 1968; 1.20% x Final Salary for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- A Presumptive Death Benefit (Death Gamble): If eligible for Service Retirement at time of death, payable to the Designated Beneficiary(ies)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Gamble: The greater of the Ordinary Death Benefit or Total Reserve
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

20-YEAR RETIREMENT PLAN FOR CORRECTION OFFICERS (P-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Allowable Correction Service (ACS) regardless of age
- The Service Retirement Benefit is:
  - *First 20 years of ACS: 50% of Final Salary, plus*
  - *For years other than the first 20 years of ACS: 1.67% of the Average Compensation, plus*
  - *a Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity for Excess Contributions, plus*
  - *75% x 1.67% x Final Compensation x Credited Service on or after 09/30/51*
  - *55% x 1.67% x Final Compensation x Credited Service prior to 10/1/51*

VESTED RETIREMENT

- Need at least five years but less than 20 years of ACS; payable when member would have reached 20 years of ACS
- The Vested Retirement Benefit is:
  - *2.5% x Final Salary x Years of ACS up to 20 years, plus*
  - *75% x 1.67% x Final Compensation x Credited Service on or after 09/30/51, plus*
  - *55% x 1.67% x Final Compensation x Credited Service prior to 10/1/51*

DISABILITY RETIREMENT

- Ordinary: If less than 10 years of ACS - 1/3 of Final Salary; more than 10, but less than 20 - 50% of Final Salary; more than 20 - 2.5% x Final Salary x Credited Service
- Accidental: 75% of Final Salary; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed accidental; accidental benefit payable
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary: lump sum of ITHP; plus lump sum of Accumulated Deductions; plus if less than 10 years of service - six months of Earnable Salary; 10 or more years - 12 months of Earnable Salary
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; 50% of salary payable
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

TIER 1 RETIREMENT OPTIONS

MAXIMUM RETIREMENT ALLOWANCE

If a member upon retirement does not elect one of the options below, his or her benefit will be paid as a Maximum Retirement Allowance payable in monthly installments throughout his or her life, with all payments ceasing at death.

OPTION 1:
UNMODIFIED AND MODIFIED INITIAL RESERVE

Option 1 provides the pensioner with a reduced monthly lifetime allowance. If the pensioner dies before his or her payments equal the total value of the initial reserve set aside to provide his or her benefits on the date of retirement, the balance is paid to the designated beneficiary(ies) in either a lump-sum or monthly payments. More than one beneficiary may be named and the beneficiary(ies) may be changed at any time.

OPTION 2:
100% JOINT-AND-SURVIVOR

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives 100% of the reduced allowance for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 3:
50% JOINT-AND-SURVIVOR

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives 50% of the reduced allowance for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTIONS 4-2 AND 4-3:
POP-UP JOINT-AND-SURVIVOR OPTIONS

These pop-up options are variations of Options 2 and 3. The pensioner receives a reduced monthly lifetime allowance under either a 100% or 50% joint-and-survivor arrangement, but if the beneficiary dies before the pensioner, the pensioner's benefit "pops-up," that is, it automatically becomes the Maximum Retirement Allowance, and all payments cease at death.

OPTION 4:
LUMP-SUM PAYMENT

The pensioner receives a reduced monthly lifetime allowance with the provision that when he or she dies, the beneficiary receives a limited lump-sum payment specified by the pensioner at the time he or she chose this option. More than one beneficiary can be named and the beneficiary(ies) can be changed at any time.

NOTE: A pensioner may elect to receive any form of payment that is the actuarial equivalent of his or her Maximum Retirement Allowance, as certified by NYCERS' Chief Actuary and approved by the Board of Trustees.

OPTION 4:
FIVE-YEAR CERTAIN, TEN-YEAR CERTAIN

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within five years (or ten years) from the date of retirement having designated only one primary beneficiary, the reduced monthly retirement benefit will continue to be paid to the designated primary beneficiary for the unexpired balance of the five year (or ten-year) period. In the event of the death of the primary beneficiary after such beneficiary has begun to receive payment, the unexpended benefit will be paid in a lump sum to the contingent beneficiary or, if no contingent beneficiary exists, to the estate of the primary beneficiary.

If multiple primaries have been designated, the unexpended benefit will be paid in a lump sum divided equally to the surviving primary beneficiaries. In the event that all primary beneficiaries predecease the pensioner, then upon the death of the pensioner the unexpended benefit will be paid in a lump sum divided equally to the surviving contingent beneficiaries. If all beneficiaries predecease the pensioner, the unexpended benefit will be paid in a lump sum to the pensioner's estate. If the pensioner dies later than five years (or ten years) following the effective retirement date, all retirement allowance payments will cease.

The pensioner may change the beneficiary(ies) any time within the five or ten-year period.

OPTION 4:
CONTINUING BENEFIT

The pensioner receives a reduced monthly lifetime benefit with the provision that when he or she dies, a percentage of the reduced monthly benefit or a specific dollar amount will continue to be paid to the beneficiary. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 4-4:
CONTINUING BENEFIT WITH POP-UP

The pensioner receives a reduced monthly lifetime benefit with the provision that when he or she dies, a percentage of the reduced monthly benefit or a specific dollar amount will continue to be paid to the beneficiary. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect. If the beneficiary predeceases the pensioner, the pensioner's benefit "pops up," that is, it automatically becomes the Maximum Retirement Allowance, and all payments cease at death.

SPLIT OPTION

Under certain circumstances, you may split your retirement allowance and receive payment of your Pension Reserve (City portion and ITHP) and your Annuity Reserve (your accumulated salary deductions) under different options. If you wish to elect a split option, NYCERS will supply you with figures and the necessary forms, upon request.

MODIFIED CAREER PENSION PLAN (PLAN C)

SERVICE RETIREMENT

- Participants may retire at age 62, or 55 on a reduced basis, with 25 years of Career Pension Plan Qualifying Service
- The Service Retirement Benefit is:
  - *55% of Final Average Salary (FAS), plus*

  For all years other than the first 25:
  - *1.7% x FAS x years after June 30, 1968, plus*
  - *1.2% x FAS x years before July 1, 1968, plus*
  - *A Pension based on excess Increased-Take-Home-Pay (ITHP) and an Annuity based on Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. Plan C members must switch to Plan D to become eligible for a Vested Retirement Benefit (See Plan D). However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service
- Accidental – no minimum service requirement, but disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

MODIFIED INCREASED SERVICE FRACTION PLAN (PLAN D)

SERVICE RETIREMENT

- Participants may retire at age 62, or 55 on a reduced basis, with five or more years of Credited Service
- The Service Retirement Benefit is:
  - *1.53% x Final Average Salary (FAS) x years of service after June 30, 1968, plus*
  - *1.20% x FAS x years of service before July 1, 1968, plus*
  - *a Pension based on Increased-Take-Home-Pay (ITHP), plus*
  - *An Annuity based on Accumulated Deductions*

VESTED RETIREMENT

- Need a minimum of five years of Credited Service
- Payability Date: Age 62 on an unreduced basis or age 55 on a reduced basis
- Vested Retirement Benefit is the same as the Service Retirement Benefit

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service
- Accidental – no minimum service requirement, but disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

AGE 55 IMPROVED BENEFIT RETIREMENT PLAN (CPP-I)

SERVICE RETIREMENT

- Participants may retire at age 55, or age 50 in a physically-taxing position, with 25 years of Career Pension Plan Qualifying Service
- The Service Retirement Benefit is:
  - *First 25 years of Career Pension Plan Qualifying Service: 55% of Final Average Salary (FAS), plus*
  - *1.7% x FAS x years of service after June 30, 1968, plus*
  - *1.2% x FAS x years of service before July 1, 1968, plus*
  - *a Pension based on excess Increased-Take-Home-Pay (ITHP) and an Annuity based on Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. Plan CPP-I members must switch to Plan ISF-I to become eligible for a Vested Retirement Benefit (See Plan ISF-I). However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service
- Accidental – no minimum service requirement, but disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions (basic and employee portion of Additional Member Contributions). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions (basic and employee portion of Additional Member Contributions).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

AGE 55 IMPROVED INCREASED SERVICE FRACTION PLAN (ISF-I)

SERVICE RETIREMENT

- Participants may retire at age 55 with twenty-five or more years of Credited Service
- The Service Retirement Benefit is:
  - *1.53% x Final Average Salary x years of service after June 30, 1968, plus*
  - *1.20% x FAS x years of service before July 1, 1968, plus*
  - *A Pension based on Increased-Take-Home-Pay (ITHP), plus*
  - *an Annuity based on Accumulated Deductions*

VESTED RETIREMENT

- Need a minimum of five years of Credited Service
- Payability Date: Age 62 on an unreduced basis or Age 55 on a reduced basis
- Vested Retirement Benefit is the same as the Service Retirement Benefit

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service
- Accidental – No minimum service requirement, but disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit.*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental: Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

MODIFIED 20-YEAR PLAN FOR CORRECTION OFFICERS (P-20)

SERVICE RETIREMENT

- Participants may retire with an unreduced pension after completing 25 years of Allowable Correction Service (ACS):
- The Service Retirement Benefit is:
  - *First 20 years of ACS: 50% of Final Average Salary (FAS), plus*
  - *Each year of ACS after 20: 1.67% x Average Compensation (or FAS if the comp period is less than 3 years) x the years of ACS in excess of 20, plus*
  - *Each year of Credited Service: 75% x 1.67% x Final Compensation x Credited Service, plus*
  - *Pension based on the excess Increased-Take-Home-Pay (ITHP), and an Annuity for excess contributions*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Need at least five but less than 20 years of ACS; payable when member would have reached 20 years of ACS
- Vested Retirement Benefit is:
  - *2.5% x FAS x the years of ACS, plus*
  - *75% x 1.67% x Final Compensation x Credited Service on or after 10/01/51*

DISABILITY RETIREMENT

- Ordinary: If less than 10 years of ACS - 1/3 of FAS; more than 10, but less than 20 - 50% of FAS; more than 20 - 2.5% x FAS x Credited Service
- Accidental: 75% of FAS; 1.67% x Average Compensation x years of ACS in excess of 20; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed accidental; accidental benefit payable
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Designated Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: Need more than 90 days of service; benefit equal to three times current salary in a lump sum, plus a return of Accumulated Deductions
- Accidental Death Benefit: A pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Vested Members: With 10 or more years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

MODIFIED ONE PERCENT RETIREMENT PLAN (1/100) TRANSIT ONLY

SERVICE RETIREMENT

- Participants may retire at age 62 with an unreduced benefit or at age 55 with a reduced benefit regardless of the amount of Credited Service attained
- The Service Retirement Benefit is:
  - *For each year of Credited Service 1% of Final Compensation; plus*
  - *A Pension based on Increased-Take-Home-Pay (ITHP), plus*
  - *An Annuity based on Accumulated Member Contributions*

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary – must have 10 or more years of Membership Service; Accidental – no minimum service, but disability resulted from on-the-job accident.
- Disability Retirement Benefit:
  - *Ordinary: If age 62, benefit = Service Retirement Benefit*
    - *If less than age 62, benefit = 2 x 1/100 for each year of service that would have been completed upon reaching age 62 for eligibility for service retirement x Final Compensation, up to 25% of Final Compensation; or, if greater:*
    - *2 x 1/100 for each year of actual service completed to date x Final Compensation*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary: Need more than 90 days of service; benefit equal to three times current salary in a lump sum
- Accidental: Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of the death benefit in force at time of separation from service
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

MODIFIED TRANSIT 20-YEAR RETIREMENT PLAN (20N/C)

SERVICE RETIREMENT

- Participants may retire at age 55 with 25 or more years of Transit Operating Service (TOS) but may retire with a reduced benefit as early as age 50 with at least 20 years of TOS.
- The Service Retirement Benefit is:
  - *First 20 years of TOS: 50% of Final Average Salary (FAS), plus*
  - *Each year of TOS above 20: 1.5% x Final Compensation x years of TOS on or after 07/01/68, plus*
  - *Each year of other service: 1% x Final Compensation x years of other service*
- The Reduced Service Retirement Benefit is:
  - *2% x FAS x Credited Service (exclusive of any benefit provided on account of member contributions)*
- Members may switch to the Modified Age 55 1/100 Plan and retire with immediate payability (See Modified 1/100 Plan)

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary: Must have ten or more years of Credited Service
- Accidental: No minimum service but disability resulted from an on-the-job accident
  - *Ordinary: Less than age 55 and less than 25 years of TOS: 2.5% x Final Compensation x TOS up to 20; plus 1.5% x Final Compensation x TOS above 20 rendered on or after 07/01/68; plus 1% x Final Compensation x all other service. If 25 or more years of TOS and age 55, benefit equals Service Retirement Benefit*
  - *Accidental: Pension of 75% of Final Compensation; plus a pension based on the ITHP; plus an annuity based on any Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary: Need more than 90 days of service; benefit equal to three times current salary in a lump sum
- Accidental: Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of the death benefit in force at time of separation from service
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

20-YEAR PLAN FOR CORRECTION MEMBERS BELOW THE RANK OF CAPTAIN (CI-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Allowable Correction Service (ACS) regardless of age (Benefit limited to 30 years)
- The Service Retirement Benefit is:
  - *First 20 years of ACS: 50% of Final Average Salary (FAS), plus*
  - *For years other than the first 20 years of ACS: 1.67% of the Average Compensation, plus*
  - *a Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity based on Excess Contributions, plus*
  - *75% x 1.67% x Final Compensation for each year on or after 09/30/51*
  - *55% x 1.67% x Final Compensation x Credited Service prior to 10/1/51*
- Not eligible for service retirement with a deficit in Additional Member Contributions (AMCs).

VESTED RETIREMENT

- Need at least five years but less than 20 years of ACS; benefit payable when member would have reached 20 years of ACS
- The Vested Retirement Benefit is:
  - *2.5% x FAS x years of ACS up to 20 years, plus*
  - *75% x 1.67% x Final Compensation x Credited Service on or after 09/30/51, plus*
  - *55% x 1.67% x Final Compensation x Credited Service prior to 10/1/51*

DISABILITY RETIREMENT

- Ordinary: If less than 10 years of ACS - 1/3 of FAS; more than 10, but less than 20 - 50% of FAS; more than 20 - 2.5% x FAS x Credited Service
- Accidental: 75% of FAS; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed accidental; accidental benefit payable
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: Need more than 90 days of service; benefit equal to three times current salary in a lump sum, plus a return of Accumulated Deductions (basic and additional)
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions (basic and additional); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Vested Members: With 10 or more years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions (basic and additional)
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

20-YEAR PLAN FOR CORRECTION MEMBERS ABOVE THE RANK OF CAPTAIN (CP-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Allowable Correction Service (ACS) regardless of age
- The Service Retirement Benefit is:
  - *First 20 years of ACS: 50% of Final Average Salary (FAS), plus*
  - *For years other than the first 20 years of ACS: 1.67% of the Average Compensation, plus*
  - *a Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity based on Excess Contribution, plus*
  - *75% x 1.67% x Final Compensation for each year on or after 09/30/51*
  - *55% x 1.67% x Final Compensation x Credited Service prior to 10/1/51*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Need at least five years but less than 20 years of ACS; payable when member would have reached 20 years of ACS
- The Vested Retirement Benefit is:
  - *2.5% x FAS x Years of ACS up to 20 years, plus*
  - *75% x 1.67% x Final Compensation x Credited Service on or after 09/30/51, plus*
  - *55% x 1.67% x Final Compensation x Credited Service prior to 10/1/51*

DISABILITY RETIREMENT

- Ordinary: If less than 10 years of ACS - 1/3 of FAS; more than 10, but less than 20 - 50% of FAS; more than 20 - 2.5% x FAS x Credited Service
- Accidental: 75% of FAS; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed accidental; accidental benefit payable
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: Need more than 90 days of service; benefit equal to three times current salary in a lump sum, plus a return of Accumulated Deductions (basic and additional)
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions (basic and additional); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Vested Members: With 10 or more years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions (basic and additional)
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

MODIFIED SANITATION 20-YEAR RETIREMENT PLAN (S-20)

SERVICE RETIREMENT

- Participants may retire with 25 years of Allowable Sanitation Service or with a reduced benefit after 20 years
- The Service Retirement Benefit is:
  - *First 20 years of Allowable Sanitation Service: 50% of Final Average Salary (FAS), plus*
  - *1.5% x Final Compensation x Allowable Sanitation Service after first 20 years, plus*
  - *1% x Final Compensation x all other service, plus*
  - *A Pension based on excess Increased-Take-Home-Pay (ITHP) and an Annuity based on Excess Contributions*
- The Reduced Service Retirement Benefit is:
  - *Same as above except employer portion of the benefit cannot exceed 2% x FAS x years of Credited Service*

VESTED RETIREMENT

- Need at least 5, but less than 20 years of Allowable Sanitation Service; payable when member would have reached 20 years of such service
- 2.5% x FAS x each year of Allowable Sanitation Service; plus
- 1% x Final Compensation x each year of Credited Service

DISABILITY RETIREMENT

- Ordinary: Need 5 or more years of Credited Service;
- Accidental: No minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: Less than 10 years of Allowable Sanitation Service: 1/3 of FAS; 10 - 20 years: 50% of FAS; more than 25 years: Benefit = Service Retirement Benefit*
  - *Accidental: 75% of FAS; plus ITHP; plus Accumulated Deductions, plus if more than 25 years of Allowable Sanitation Service, 1% x Average Compensation x years in excess of 20, plus .5% x Average Compensation x years of Allowable Sanitation Service in excess of 20*
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary: Need more than 90 days of service; benefit equal to three times current salary in a lump sum; plus Accumulated Deductions
- Accidental: Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of the death benefit in force at time of separation from service, plus Accumulated Deductions
- Heart Presumption: Death due to heart ailment presumed accidental; accidental death benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

20-YEAR RETIREMENT PLAN FOR UNIFORMED SANITATION MEMBERS (SI-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Allowable Sanitation Service regardless of age
- The Service Retirement Benefit is:
  - *First 20 years of Allowable Sanitation Service: 50% of Final Average Salary (FAS), plus*
  - *Other than the first 20 years of such service: 1.5% of Final Compensation, plus*
  - *For each year of all other Credited Service: 1% of Final Compensation, plus*
  - *a Pension based on excess Increased-Take-Home-Pay (ITHP) and an Annuity for Excess Contributions*
  - *Benefit limited to 30 years*
- Not eligible for service retirement with a deficit in Additional Member Contributions (AMCs).

VESTED RETIREMENT

- Need at least five years but less than 20 years of Allowable Sanitation Service; benefit payable when member would have reached 20 years of such service
- The Vested Retirement Benefit is:
  - *2.5% x FAS x each year of Allowable Sanitation Service, plus*
  - *1% x Final Compensation x each year of Credited Service*

DISABILITY RETIREMENT

- Ordinary - must have five or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: If 10 or more years of Allowable Sanitation Service – 50% of FAS; If less than 10 years – one-third of FAS; If eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of FAS; plus ITHP; plus Accumulated Deductions*
- Heart Presumption: Diseases of the heart resulting in disability presumed accidental; accidental benefit payable
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: Need more than 90 days of service; benefit equal to three times current salary in a lump sum, plus a return of Accumulated Deductions (basic and additional)
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions (basic and additional); plus a lump sum of ITHP
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions (basic and additional)
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

20-YEAR, AGE-50 RETIREMENT PLAN FOR TBTA OFFICERS, SERGEANTS & LIEUTENANTS (2050I)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Allowable Service at age 50
- The Service Retirement Benefit is:
  - *For the first 20 years of Allowable Service: 50% of Final Average Salary (FAS), plus*
  - *For each additional year of Allowable Service (up to a maximum of 30 years): 1.5% x FAS*
- Not eligible for service retirement with a deficit in Additional Member Contributions (AMCs).

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; If eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions, basic and additional (if less than 15 years of service); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

25-YEAR RETIREMENT PLAN FOR DISTRICT ATTORNEY INVESTIGATORS (25IDA)

SERVICE RETIREMENT

- Participants may retire with 25 or more years of Credited Service regardless of age
- The Service Retirement Benefit is:
  - *For the first 25 years of Credited Service: 55% x Final Salary, plus*
  - *For each additional year (up to a maximum of 32): 1.70% x Final Average Salary (FAS)*
  - *A Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity for Excess Contributions*

VESTED RETIREMENT

- Need at least 15 but less than 25 years of Credited Service
- Benefit payable when member could have completed 25 years of such service
- The Vested Retirement Benefit is:
  - *2.20% x FAS x each year of Credited Service*

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

20-YEAR RETIREMENT PLAN FOR DISTRICT ATTORNEY INVESTIGATORS (20IDA)

SERVICE RETIREMENT

- Participants may retire with credit for 20 or more years of Allowable Service in a District Attorney's Office as an Investigator (Allowable IDA Service)
- The Service Retirement Benefit is:
  - *For the first 20 years of Allowable IDA Service: 50% of Final Salary, plus*
  - *For each additional year of Allowable IDA Service: 1.67% of Average Compensation, plus*
  - *75% x 1.67% x Final Compensation x Credited Service on or after September 30, 1951, plus*
  - *55% x 1.67% x Final Compensation x Credited Service prior to October 1, 1951*
  - *A Pension for excess Increased-Take-Home-Pay (ITHP) and an Annuity for Excess Contributions*
  - *Benefit limited to 32 years*

VESTED RETIREMENT

- Need at least 5 but less than 20 years of Allowable IDA Service
- Benefit payable when member could have reached 20 years of such service
- Vested Retirement Benefit is: 2.5% of Final Salary for each year of Allowable IDA Service

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions; plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

25-YEAR RETIREMENT PLAN FOR DISPATCHERS (DIS-I)

SERVICE RETIREMENT

- Participants may retire with 25 or more years of Allowable Service as a Dispatcher Member
- The Service Retirement Benefit is:
  - *An Annuity (the actuarial equivalent of contributions for the first 25 years of Allowable Service), plus*
  - *A Pension for Increased-Take-Home-Pay (ITHP) for the first 25 years, plus*
  - *A Pension, which when added to the Annuity and ITHP equals 50% of Final Average Salary (FAS), plus*
  - *2% of FAS for each year beyond the first 25 years of Allowable Service (not to exceed five years)*
  - *A Pension for excess (ITHP) and an Annuity for Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions, basic and additional (if less than 15 years of service); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

25-YEAR RETIREMENT PLAN FOR EMERGENCY MEDICAL TECHNICIANS (EMT-I)

SERVICE RETIREMENT

- Participants may retire with 25 or more years of Allowable Service as an EMT Member
- The Service Retirement Benefit is:
  - *An Annuity (the actuarial equivalent of contributions for the first 25 years of Allowable Service), plus*
  - *A Pension for Increased-Take-Home-Pay (ITHP) for the first 25 years, plus*
  - *A Pension, which when added to the Annuity and ITHP equals 50% of Final Average Salary (FAS), plus*
  - *2% of FAS for each year beyond the first 25 years of Allowable Service (not to exceed five years)*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Heart Presumption: Diseases of the heart resulting in disability presumed line-of-duty; accidental benefit payable
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; accidental benefit payable
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions, basic and additional (if less than 15 years of service); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Heart Presumption: Diseases of the heart resulting in death presumed line-of-duty; accidental benefit payable
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

25-YEAR RETIREMENT PLAN FOR NYC DEPUTY SHERIFFS (DSH-I)

SERVICE RETIREMENT

- Participants may retire after having credit for 25 or more years of Credited Service regardless of age
- The Service Retirement Benefit is:
  - *An Annuity (the actuarial equivalent of contributions for the first 25 years of Credited Service), plus*
  - *A Pension for Increased-Take-Home-Pay (ITHP) for the first 25 years, plus*
  - *A Pension, which when added to the Annuity and ITHP equals 55% of Final Average Salary (FAS), plus*
  - *1.7% of FAS for each year beyond the first 25 years of Credited Service (not to exceed five years)*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional (if less than five years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions, basic and additional (if less than five years of service); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional (if less than five years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

25-YEAR/AGE-50 RETIREMENT PLAN FOR AUTOMOTIVE WORKERS (AUT-I)

SERVICE RETIREMENT

- Participants with 25 or more years of Credited Service may retire at age 50
- The Service Retirement Benefit is:
  - *An Annuity (the actuarial equivalent of contributions for the first 25 years of Credited Service), plus*
  - *A Pension for Increased-Take-Home-Pay (ITHP) for the first 25 years, plus*
  - *A Pension, which when added to the Annuity and ITHP equals 50% of Final Average Salary (FAS), plus*
  - *2% of FAS for each year beyond the first 25 years of Credited Service (not to exceed five years)*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional (if less than five years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions, basic and additional (if less than five years of service); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional (if less than five years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

25-YEAR RETIREMENT PLAN FOR SPECIAL OFFICERS (SPO-I)

SERVICE RETIREMENT

- Participants may retire with 25 or more years of Allowable Service as a Special Officer regardless of age
- The Service Retirement Benefit is:
  - *An Annuity (the actuarial equivalent of contributions for the first 25 years of Allowable Service), plus*
  - *A Pension for Increased-Take-Home-Pay (ITHP) for the first 25 years, plus*
  - *A Pension, which when added to the Annuity and ITHP equals 50% of Final Average Salary (FAS), plus*
  - *2% of FAS for each year beyond the first 25 years of Allowable Service (not to exceed five years)*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions, basic and additional (if less than 15 years of service); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional (if less than 15 years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

25-YEAR RETIREMENT PLAN FOR POLICE COMMUNICATION OPERATORS (911)

SERVICE RETIREMENT

- Participants with 25 or more years of Credited Service may retire regardless of age
- The Service Retirement Benefit is:
  - *An Annuity (the actuarial equivalent of contributions for the first 25 years of Credited Service), plus*
  - *A Pension for Increased-Take-Home-Pay (ITHP) for the first 25 years, plus*
  - *A Pension, which when added to the Annuity and ITHP equals 50% of Final Average Salary (FAS), plus*
  - *2% of FAS for each year beyond the first 25 years of Credited Service (not to exceed five years)*
  - *A Pension for excess ITHP and an Annuity for Excess Contributions*

VESTED RETIREMENT

- No provision for Vesting. However, all Tier 2 members with at least 10 years of Credited Service are eligible for the Death Benefit for Vested Members (see below).

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service; Accidental – no minimum service, but disability resulted from an on-the-job accident
- Disability Retirement Benefit:
  - *Ordinary: 1.53% x FAS for each year after June 30, 1968; 1.20% x FAS for each year before July 1, 1968; plus ITHP; plus Accumulated Deductions; if eligible for service retirement, benefit = Service Retirement Benefit*
  - *Accidental: 75% of Final Compensation; plus ITHP; plus Accumulated Deductions; less 100% of Workers' Compensation payments for same injury*
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional (if less than five years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of Final Compensation; plus a lump sum of Accumulated Deductions, basic and additional (if less than 5 years of service); plus a lump sum of ITHP; less 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional (if less than five years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

TIER 2 RETIREMENT OPTIONS

MAXIMUM RETIREMENT ALLOWANCE

If a member, upon retirement, does not elect one of the options listed below, his or her benefit will be paid as a Maximum Retirement Allowance payable in monthly installments throughout his or her life, with all payments ceasing at death.

OPTION 1:
RETURN OF ANNUITY RESERVE

Option 1 provides the pensioner with a reduced monthly lifetime allowance. If the pensioner dies before the Annuity portion of his or her payments equal the total value of the Annuity reserve set aside to pay his or her Annuity on the date of retirement, the balance is paid to the designated beneficiary in either a lump sum or monthly payments. Option 1 cannot be elected for the ITHP or Pension portions of the retirement allowance. More than one beneficiary may be named and the beneficiary(ies) may be changed at any time.

OPTION 2:
100% JOINT-AND-SURVIVOR

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives 100% of the reduced monthly allowance for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 3:
50% JOINT-AND-SURVIVOR

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives 50% of the reduced monthly allowance for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTIONS 4-2 AND 4-3:
POP-UP JOINT-AND-SURVIVOR OPTIONS

These options are variations of Options 2 and 3. The pensioner receives a reduced monthly lifetime allowance under either a 100% or 50% joint-and-survivor arrangement, but if the beneficiary dies before the pensioner, the pensioner's benefit "pops-up," that is, it automatically becomes the Maximum Retirement Allowance, and all payments cease at death.

OPTION 4:
LUMP-SUM PAYMENT

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary(ies) receives a limited lump-sum payment specified by the pensioner at the time he or she chose this option. More than one beneficiary can be named and the beneficiary(ies) can be changed at any time.

OPTION 4:
CONTINUING BENEFIT

The pensioner receives a reduced monthly lifetime benefit with the provision that when he or she dies, a percentage of the reduced monthly benefit or a specific dollar amount will continue to be paid to the beneficiary. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 4-4:
CONTINUING BENEFIT WITH POP-UP

The pensioner receives a reduced monthly lifetime benefit with the provision that when he or she dies, a percentage of the reduced monthly benefit or a specific dollar amount will continue to be paid to the beneficiary. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect. If the beneficiary predeceases the pensioner, the pensioner's benefit "pops up," that is, it automatically becomes the Maximum Retirement Allowance, and all payments cease at death.

NOTE: A pensioner may elect to receive any form of payment that is the actuarial equivalent of their Maximum Retirement Allowance, as certified by NYCERS' Chief Actuary and approved by the Board of Trustees.

OPTION 5 (FIVE-YEAR CERTAIN)

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within five years from the date of retirement having designated only one primary beneficiary, the reduced monthly retirement benefit will continue to be paid to the designated primary beneficiary for the unexpired balance of the five-year period. In the event of the death of the primary beneficiary after such beneficiary has begun to receive payment, the unexpended benefit will be paid in a lump sum to the contingent beneficiary or, if no contingent beneficiary exists, to the estate of the primary beneficiary.

If multiple primaries have been designated, the unexpended benefit will be paid in a lump sum divided equally to the surviving primary beneficiaries. In the event that all primary beneficiaries predecease the pensioner, then upon the death of the pensioner the unexpended benefit will be paid in a lump sum divided equally to the surviving contingent beneficiaries. If all beneficiaries predecease the pensioner, the unexpended benefit will be paid in a lump sum to the pensioner's estate. If the pensioner dies later than five years following the effective retirement date, all retirement allowance payments will cease.

The pensioner may change the beneficiary(ies) any time within the five-year period.

OPTION 6 (TEN-YEAR CERTAIN)

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within ten years from the date of retirement having designated only one primary beneficiary, the reduced monthly retirement benefit will continue to be paid to the designated primary beneficiary for the unexpired balance of the ten-year period. In the event of the death of the primary beneficiary after such beneficiary has begun to receive payment, the unexpended benefit will be paid in a lump sum to the contingent beneficiary or, if no contingent beneficiary exists, to the estate of the primary beneficiary.

If multiple primaries have been designated, the unexpended benefit will be paid in a lump sum divided equally to the surviving primary beneficiaries. In the event that all primary beneficiaries predecease the pensioner, then upon the death of the pensioner the unexpended benefit will be paid in a lump sum divided equally to the surviving contingent beneficiaries. If all beneficiaries predecease the pensioner, the unexpended benefit will be paid in a lump sum to the pensioner's estate. If the pensioner dies later than ten years following the effective retirement date, all retirement allowance payments will cease.

The pensioner may change the beneficiary(ies) any time within the ten-year period.

SPLIT OPTION

Under certain circumstances, you may split your retirement allowance and receive payment of your Pension Reserve (City portion and ITHP) and your Annuity Reserve (your accumulated salary deductions) under different options. If you wish to elect a split option, NYCERS will supply you with figures and the necessary forms, upon request.

RETIREMENT PLAN FOR GENERAL MEMBERS

SERVICE RETIREMENT

- Participants may retire with an unreduced benefit at age 62 and as early as age 55, with a reduced benefit
- Service Retirement Benefit is:
  - *Less than 20 years of Credited Service: 1.67% x each year of Credited Service x Final Average Salary (FAS)*
  - *20 or more years of Credited Service: 2% x each year of Credited Service x FAS*
- Benefit is reduced by 50% of the Primary Social Security Benefit (PSSB) beginning at age 62
- Post-retirement escalations depending on age at retirement

VESTED RETIREMENT

- A member with five or more years of Credited Service at age 62 may receive an unreduced vested retirement benefit or the member may elect to receive a reduced benefit prior to age 62, as early as age 55
- Benefit calculation same as service retirement benefit calculation

DISABILITY RETIREMENT

- May receive an Ordinary Disability Benefit (ODB) or Accidental Disability Benefit (ADB)
- ODB: If you have at least five years of service and deemed disabled by the Social Security Administration the ODB is equal to the greater of one-third of FAS or 2% x Credited Service x FAS (both are reduced by 50% of the PSSB & 100% of Workers' Compensation payments for any injury)
- ADB: Eligible if your disability is deemed to be the result of an accidental injury sustained in the performance of duty. The benefit is 60% of FAS minus 50% of the PSSB and 100% of Workers' Compensation payments for any injury.
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum. A return of Basic Member Contributions included. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Accumulated Deductions
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service. A return of Basic Member Contributions included.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

UNIFORMED CORRECTION FORCE 25 - YEAR PLAN (CO-25)

SERVICE RETIREMENT

- Correction Officers appointed after July 27, 1976 can retire after 25 years of Credited Service without regard to age, and without a benefit reduction due to retirement prior to age 62
- The Service Retirement Benefit is 50% of Final Average Salary (FAS)

VESTED RETIREMENT

- There is no Vesting provision with this plan; however, members may vest under the basic Tier 3 vesting provisions (See "Retirement Plan for General Members") and are eligible for the Death Benefit for Vested Members if they have 10 or more years of Credited Service (see below)

DISABILITY RETIREMENT

- May receive an Ordinary Disability Benefit (ODB), special disability benefit, performance of duty disability benefit or Accidental Disability Benefit (ADB)
- ODB: See "Retirement Plan for General Members"
- Dual Purpose Disability Benefit: Eligible with 10 or more years of Credited Service. If less than 10 years, may qualify if injury is due to an on-the-job accident. Benefit = 1/3 of FAS or 1.67% x each year of Credited Service x FAS. If eligible for service retirement, benefit = Service Retirement Benefit.
- Performance of Duty Disability Benefit: Eligible if your disability is deemed to be the result of an accidental injury sustained in the performance of duty, by an act of an inmate; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury.
- ADB: See "Retirement Plan for General Members"
- Heart Presumption: Diseases of the heart resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: members with more than 90 days of service will receive a death benefit equal to three times current salary in a lump sum, plus a return of Basic Member Contributions
- Accidental Death Benefit: A Pension equal to 50% of salary payable
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Basic Member Contributions
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

UNIFORMED CORRECTION OFFICER 20 - YEAR RETIREMENT PLAN (CO-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Credited Service or Allowable Correction Service (ACS) (type of service required depends on membership date), without regard to age.
- The Service Retirement Benefit is:
  - *For the first 20 years of Credited Service or ACS: 50% of FAS*
  - *For all years of Credited Service or ACS, other than the first 20 years of such service, 1.67% x years of service x FAS (not to exceed 30 years)*
- Not eligible for service retirement with a deficit in Additional Member Contributions (AMCs).

VESTED RETIREMENT

- Must have at least five years of Credited Service or ACS, but less than 20 years of such service
- Benefit payable on the earliest date the member could have retired with 20 years of Credited Service or ACS
- The Vested Retirement Benefit is: 2.5% x years of service x FAS
- Not eligible for vested retirement with a deficit in AMCs.

DISABILITY RETIREMENT

- May receive an Ordinary Disability Benefit (ODB), special disability benefit, performance of duty disability benefit or Accidental Disability Benefit (ADB)
- ODB: See "Retirement Plan for General Members"
- Dual Purpose Disability Benefit: Eligible with 10 or more years of Credited Service. If less than 10 years, may qualify if injury is due to an on-the-job accident. Benefit = 1/3 of FAS or 1.67% x each year of Credited Service x FAS. If eligible for service retirement, benefit = Service Retirement Benefit.
- Performance of Duty Disability: Eligible if your disability is deemed to be the result of an injury sustained in the performance of duty by an act of an inmate; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- ADB: See "Retirement Plan for General Members"
- Heart Presumption: Diseases of the heart resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: members with more than 90 days of service will receive a death benefit equal to three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

CORRECTION CAPTAIN 20 - YEAR RETIREMENT PLAN (CC-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Credited Service or Allowable Correction Service (ACS) (type of service required depends on membership date), without regard to age.
- The Service Retirement Benefit is:
  - *For the first 20 years of Credited Service or ACS: 50% of FAS*
  - *For all years of Credited Service or ACS, other than the first 20 years of such service, 1.67% of FAS times the years of such service (not to exceed 30 years)*

VESTED RETIREMENT

- Must have at least five years of Credited Service or ACS, but less than 20 years of such service
- Benefit payable on the earliest date the member could have retired with 20 years of Credited Service or ACS
- The Vested Retirement Benefit is: 2.5% x years of service x FAS

DISABILITY RETIREMENT

- May receive an Ordinary Disability Benefit (ODB), special disability benefit, performance of duty disability benefit or Accidental Disability Benefit (ADB)
- ODB: See "Retirement Plan for General Members"
- Dual Purpose Disability Benefit: Eligible with 10 or more years of Credited Service. If less than 10 years, may qualify if injury is due to an on-the-job accident. Benefit = 1/3 of FAS or 1.67% x each year of Credited Service x FAS. If eligible for service retirement, benefit = Service Retirement Benefit.
- Performance of Duty Disability Benefit: Eligible if your disability is deemed to be the result of an injury sustained in the performance of duty by an act of an inmate; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- ADB: See "Retirement Plan for General Members"
- Heart Presumption: Diseases of the heart resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: members with more than 90 days of service will receive a death benefit equal to three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional
- Accidental Death Benefit: A pension equal to 50% of salary payable, plus a return of Additional Member Contributions
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

UNIFORMED CORRECTION FORCE 20 - YEAR RETIREMENT PLAN (CF-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Allowable Correction Service (ACS), without regard to age
- The Service Retirement Benefit is:
  - *For the first 20 years of ACS: 50% of Final Average Salary (FAS)*
  - *For all years of ACS other than the first 20 years of such service: 1.67% of FAS times years of such service (not to exceed 30 years)*

VESTED RETIREMENT

- Must have at least five years of ACS, but less than 20 years of such service
- Benefit payable on the earliest date the member could have retired with 20 years of ACS
- The Vested Retirement Benefit is: 2.5% of FAS for each year of ACS

DISABILITY RETIREMENT

- May receive an Ordinary Disability Benefit (ODB), special disability benefit, performance of duty disability benefit or Accidental Disability Benefit (ADB)
- ODB: See "Retirement Plan for General Members"
- Dual Purpose Disability Benefit: Eligible with 10 or more years of Credited Service. If less than 10 years, may qualify if injury is due to an on-the-job accident. Benefit = 1/3 of FAS or 1.67% x each year of Credited Service x FAS. If eligible for service retirement, benefit = Service Retirement Benefit.
- Performance of Duty Disability Benefit: Eligible if your disability is deemed to be the result of an injury sustained in the performance of duty by an act of an inmate; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- ADB: See "Retirement Plan for General Members"
- Heart Presumption: Diseases of the heart resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: members with more than 90 days of service will receive a death benefit equal to three times current salary in a lump sum, plus a return of Accumulated Deductions, basic and additional
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions, basic and additional
- Heart Presumption: Diseases of the heart resulting in death presumed accidental; accidental benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DA INVESTIGATORS 22-YEAR RETIREMENT PLAN (DA-22)

SERVICE RETIREMENT

- Participants may retire for service with 22 years of Credited Service regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS), minus*
  - *50% of Primary Social Security Benefit commencing at age 62.*
- Participants may retire with Early Service Retirement benefit with at least 20 years of Credited Service:
  - *2.1% x FAS x years of Credited Service at the completion of 20 years of Credited Service; plus*
  - *.33% x FAS x each month of service in excess of 20 years, but not more than 50% of FAS; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62*

VESTED RETIREMENT

- Must have at least five years of Credited Service
- Payability Date: the date member would have attained 20 years of Credited Service
- The Vested Retirement Benefit is:
  - *2.1% x FAS x years of Credited Service; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62*
- May elect to receive reduced vested benefit prior to date member would have attained 20 years of Credited Service but not earlier than age 55

DISABILITY RETIREMENT

- Ordinary Disability: Must have at least five years of Credited Service and be considered disabled by Social Security Administration. Benefit equal to the greater of:
  - *1/3 of FAS or*
  - *2% x FAS x Credited Service, if eligible for service retirement, not in excess of 22 years of such service, minus*
  - *50% of Primary Social Security Disability Benefit and 100% of Workers' Compensation payments for any injury*
- Accidental Disability: Disabled because of a natural or proximate result of an accident sustained on the job. Benefit is:
  - *50% of FAS, minus*
  - *50% of Primary Social Security Disability Benefit or Primary Social Security Benefit, whichever begins first, and 100% of Workers' Compensation payments for any injury*

DEATH BENEFITS

- An Ordinary Death Benefit payable to the designated beneficiary(ies) if member was in City service for at least 90 days and in active service at time of death. Benefit is three times salary lump sum, plus a return of Accumulated Deductions
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law): A Pension equal to 50% of salary payable
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service plus a return of Accumulated Deductions

ESCALATION

- Escalation of Service Retirement, Vested Retirement, or Early Service Retirement benefit based on years of service and date of election of payment
- Escalation of Ordinary Disability benefits, Accident Disability benefits, and Accidental Death benefits first day of the month following date retiree or beneficiary becomes eligible for benefit.

UNIFORMED CORRECTION FORCE 22-YEAR RETIREMENT PLAN (CF-22)

SERVICE RETIREMENT

- Participants may retire for service with 22 years of Credited Service regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS), minus*
  - *50% of Primary Social Security Benefit commencing at age 62.*
- Participants may retire with Early Service Retirement benefit with at least 20 years of Credited Service:
  - *2.1% x FAS x years of Credited Service at the completion of 20 years of Credited Service; plus*
  - *.33% x FAS x each month of service in excess of 20 years, but not more than 50% of FAS; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62.*

VESTED RETIREMENT

- Must have at least five years of Credited Service
- Payability Date: the date member would have attained 20 years of Credited Service
- The Vested Retirement Benefit is:
  - *2.1% x FAS x years of Credited Service; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62.*
- May elect to receive reduced vested benefit prior to date member would have attained 20 years of Credited Service but not earlier than age 55

DISABILITY RETIREMENT

- Ordinary Disability: Must have at least five years of Credited Service and be considered disabled by Social Security Administration. Benefit equal to the greater of:
  - *1/3 of FAS or*
  - *2% x FAS x years of Credited Service, if eligible for service retirement, not in excess of 22 years of such service, minus*
  - *50% of Primary Social Security Disability Benefit and 100% of Workers' Compensation payments for any injury*
- Accidental Disability: Disabled because of a natural or proximate result of an accident sustained on the job. Benefit is:
  - *50% of FAS, minus*
  - *50% of Primary Social Security Disability Benefit or Primary Social Security Benefit, whichever begins first, and 100% of Workers' Compensation payments for any injury*

DEATH BENEFITS

- An Ordinary Death Benefit payable to designated beneficiary(ies) if member was in City service for at least 90 days and in active service at time of death. Benefit is three times salary lump sum, plus a return of Accumulated Deductions
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable annually to the Eligible Beneficiary(ies) (defined in law): A Pension equal to 50% of salary payable
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments.
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service plus a return of Accumulated Deductions

ESCALATION

- Escalation of Service Retirement, Vested Retirement, or Early Service Retirement benefit based on years of service and date of election of payment
- Escalation of Ordinary Disability benefits, Accidental Disability benefits, and Accidental Death benefits first day of the month following date retiree or beneficiary becomes eligible for benefit.

UNIFORMED CORRECTION FORCE 22-YEAR ENHANCED DISABILITY RETIREMENT PLAN (CF-22E)

SERVICE RETIREMENT

- Participants may retire with Service Retirement benefit upon attaining 22 years of Credited Service regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS), minus*
  - *50% of Primary Social Security Benefit commencing at age 62.*
- Participants may retire with Early Service Retirement benefit after attaining at least 20 years of Credited Service
- The Early Service Retirement Benefit is:
  - *2.1% x FAS x years of Credited Service at the completion of 20 years of Credited Service; plus*
  - *.33% x FAS x each month of service in excess of 20 years, but not more than 50% of FAS; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62*

VESTED RETIREMENT

- Must have at least five years of Credited Service
- Payability Date: the date member would have attained 20 years of Credited Service
- The Vested Retirement Benefit is:
  - *2.1% x FAS x years of Credited Service; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62*
- May elect to receive reduced vested benefit prior to date member would have attained 20 years of Credited Service, but not earlier than age 55

ENHANCED DISABILITY RETIREMENT

- Ordinary Disability Benefit: Must have at least five years of Credited Service and be considered disabled by Social Security Administration. Benefit equal to the greater of:
  - *1/3 of FAS or*
  - *2% x FAS x years of Credited Service, but not in excess of 22 years of such service*
- Disability Retirement RSSL §507-a: Must have at least 10 years of Credited Service or disabled because of a natural or proximate result of an accident sustained on-the-job. Benefit equal to the greater of:
  - *1/3 of FAS or*
  - *1.67% x FAS x years of Credited Service up to 22 years, or*
  - *If eligible to retire for service, the service retirement benefit*
- Accidental Disability Benefit: Must be awarded Primary Social Security Disability Benefits or found to be disabled by NYCERS Medical Board, and the Board of Trustees determines the disability is the natural and proximate result of an accident sustained on-the-job. Benefit equal to:
  - *60% of FAS less*
  - *50% of Primary Social Security Disability Benefit, if any, and 100% of any Workers' Compensation.*
- Heart Law: Certain diseases of the heart resulting in disability presumed line-of-duty. Benefit equal to 75% of FAS minus 100% of Workers' Compensation payments for same injury.
- HAT Law: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty. Benefit equal to 75% of FAS minus 100% of Workers' Compensation payments for same injury.
- Act of an Inmate: Eligible for Accidental Disability benefit if disabled as a natural and proximate result of an act of an inmate. Benefit equal to 75% of FAS minus 100% of Workers' Compensation payments for same injury.
- World Trade Center Law: Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met. Benefit equal to 75% of FAS minus 100% of Workers' Compensation payments for same injury.

DEATH BENEITS

- Ordinary Death Benefit payable to the designated beneficiary(ies) if member was in City service for at least 90 days and in active service at time of death. Benefit is three times salary lump sum, plus a return of Accumulated Deductions – basic and additional.
- Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law). Benefit equal to 50% of member's wages during last year in City service.
- Death Benefit for Vested Members who die prior to retirement payable if member had at least 10 years of Credited Service. Benefit equal to 50% of death benefit in force at time of separation from service plus a return of Accumulated Deductions.

ESCALATION AND COLA

- Escalation of Service Retirement, Vested Retirement, or Early Service Retirement benefit based on years of service and date of election of payment.
- Disability retirees who have been retired for at least five years are eligible for Cost-of-Living Adjustment (COLA), not escalation.

UNIFORMED SANITATION FORCE 22-YEAR RETIREMENT PLAN (SA-22)

SERVICE RETIREMENT

- Participants may retire for service with 22 years of Credited Service regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS), minus*
  - *50% of Primary Social Security Benefit commencing at age 62.*
- Participants may retire with Early Service Retirement benefit with at least 20 years of Credited Service:
  - *2.1% x FAS x years of Credited Service at the completion of 20 years of Credited Service; plus*
  - *.33% x FAS x each month of service in excess of 20 years, but not more than 50% of FAS; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62.*

VESTED RETIREMENT

- Must have at least five years of Credited Service
- Payability Date: the date member would have attained 20 years of Credited Service
- The Vested Retirement Benefit is:
  - *2.1% x FAS x years of Credited Service; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62.*
- May elect to receive reduced vested benefit prior to date member would have attained 20 years of Credited Service but not earlier than age 55

DISABILITY RETIREMENT

- Ordinary Disability: Must have at least five (5) years of Credited Service and be considered disabled by Social Security Administration. Benefit equal to the greater of:
  - *1/3 of FAS or*
  - *2% x FAS x Credited Service, if eligible for service retirement, not in excess of 22 years of such service, minus*
  - *50% of Primary Social Security Disability Benefit*
- Accidental Disability: Disabled because of a natural or proximate result of an accident sustained on the job. Benefit is:
  - *50% of FAS, minus*
  - *50% of Primary Social Security Disability Benefit or Primary Social Security Benefit, whichever begins first*

DEATH BENEFITS

- An Ordinary Death Benefit payable to designated beneficiary(ies) if member was in City service for at least 90 days and in active service at time of death. Benefit is three times salary lump sum, plus a return of Accumulated Deductions
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable annually to an Eligible Beneficiary(ies) (defined in law): A Pension equal to 50% of salary payable
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service plus a return of Accumulated Deductions

ESCALATION

- Escalation of Service Retirement, Vested Retirement, or Early Service Retirement benefit based on years of service and date of election of payment
- Escalation of Ordinary Disability benefits, Accidental Disability benefits, and Accidental Death benefits first day of the month following date retiree or beneficiary becomes eligible for benefit.

UNIFORMED SANITATION FORCE 22-YEAR ENHANCED DISABILITY RETIREMENT PLAN (SA-22E)

SERVICE RETIREMENT

- Participants may retire with Service Retirement benefit upon attaining 22 years of Credited Service regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS), minus*
  - *50% of Primary Social Security Benefit commencing at age 62.*
- Participants may retire with Early Service Retirement benefit after attaining at least 20 years of Credited Service:
- The Early Service Retirement Benefit is:
  - *2.1% x FAS x years of Credited Service at the completion of 20 years of Credited Service; plus*
  - *.33% x FAS x each month of service in excess of 20 years, but not more than 50% of FAS; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62*

VESTED RETIREMENT

- Must have at least five years of Credited Service
- Payability Date: the date member would have attained 20 years of Credited Service
- The Vested Retirement Benefit is:
  - *2.1% x FAS x years of Credited Service; minus*
  - *50% of member's Primary Social Security Benefit commencing at age 62*
- May elect to receive reduced vested benefit prior to date member would have attained 20 years of Credited Service but not earlier than age 55

ENHANCED DISABILITY RETIREMENT

- Ordinary Disability: Must have at least five years of Credited Service and be considered disabled by Social Security Administration. Benefit equal to the greater of:
  - *1/3 of FAS or*
  - *2% x FAS x years of Credited Service, but not in excess of 22 years of such service*
- Accidental Disability Benefit: Must be awarded Primary Social Security Disability Benefits or found to be disabled by NYCERS Medical Board, and Board of Trustees determines disability is the natural and proximate result of an accident sustained on-the-job. Benefit equal to 75% of FAS.
- Heart Law: Certain diseases of the heart resulting in disability presumed line-of-duty. Benefit equal to 75% of FAS.
- World Trade Center Law: Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met. Benefit equal to 75% of FAS.

DEATH BENEITS

- Ordinary Death Benefit payable to the designated beneficiary(ies) if member was in City service for at least 90 days and in active service at time of death. Benefit is three times salary in a lump sum, plus a return of Accumulated Deductions -- basic and additional.
- Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law). Benefit equal to 50% of member's wages during last year in City service.
- Death Benefit for Vested Members who die prior to retirement payable if member had at least 10 years of Credited Service. Benefit equal to 50% of death benefit in force at time of separation from service plus a return of Accumulated Deductions.

ESCALATION AND COLA

- Escalation of Service Retirement, Vested Retirement, or Early Service Retirement benefit based on years of service and date of election of payment.
- Disability retirees who have been retired for at least five years are eligible for an annual Cost-of-Living Adjustment (COLA), not escalation.

TIER 3 RETIREMENT OPTIONS

MAXIMUM RETIREMENT ALLOWANCE

If a member, upon retirement, does not elect one of the options listed below, his or her benefit will be paid as a Maximum Retirement Allowance, payable in monthly installments throughout his or her life, with all payments ceasing at death.

OPTION 1:
100% JOINT-AND-SURVIVOR

The pensioner receives a reduced monthly lifetime benefit. When the pensioner dies, the surviving beneficiary receives the same reduced monthly benefit for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 2:
OTHER JOINT-AND-SURVIVOR OPTIONS

The pensioner receives a reduced monthly lifetime benefit. When the pensioner dies, the surviving beneficiary receives a benefit of 90% or less (amount depends on the pensioner's choice, in increments of not less than 10%) of the pensioner's reduced monthly benefit for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 3:
FIVE-YEAR CERTAIN

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within five years from the date of retirement having designated only one primary beneficiary, the reduced monthly retirement benefit will continue to be paid to the designated primary beneficiary for the unexpired balance of the five-year period. In the event of the death of the primary beneficiary after such beneficiary has begun to receive payment, the unexpended benefit will be paid in a lump sum to the contingent beneficiary or, if no contingent beneficiary exists, to the estate of the primary beneficiary.

If multiple primary beneficiaries have been designated, the unexpended benefit will be paid in a lump sum divided equally to the surviving primary beneficiaries. In the event that all primary beneficiaries predecease the pensioner, then upon the death of the pensioner the unexpended benefit will be paid in a lump sum divided equally to the surviving contingent beneficiaries. If all beneficiaries predecease the pensioner, the unexpended benefit will be paid in a lump sum to the pensioner's estate. If the pensioner dies later than five years following the effective retirement date, all retirement allowance payments will cease. The pensioner may change the beneficiary(ies) any time within the five-year period.

OPTION 4:
TEN-YEAR CERTAIN

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within ten years from the date of retirement having designated only one primary beneficiary, the reduced monthly retirement benefit will continue to be paid to the designated primary beneficiary for the unexpired balance of the ten-year period.

In the event of the death of the primary beneficiary after such beneficiary has begun to receive payment, the unexpended benefit will be paid in a lump sum to the contingent beneficiary or, if no contingent beneficiary exists, to the estate of the primary beneficiary.

If multiple primary beneficiaries have been designated, the unexpended benefit will be paid in a lump sum divided equally to the surviving primary beneficiaries. In the event that all primary beneficiaries predecease the pensioner, then upon the death of the pensioner the unexpended benefit will be paid in a lump sum divided equally to the surviving contingent beneficiaries. If all beneficiaries predecease the pensioner, the unexpended benefit will be paid in a lump sum to the pensioner's estate. If the pensioner dies later than ten years following the effective retirement date, all retirement allowance payments will cease.

The pensioner may change the beneficiary(ies) any time within the ten-year period.

Members who retire on or after November 21, 1992 are eligible to elect Option 5, the *Pop-Up* Option.

OPTION 5:
POP-UP OPTION

The Pop-Up Option is a variation of a joint-and-survivor option. The pensioner receives a reduced monthly lifetime benefit under a 100% or 50% joint-and-survivor option. If the beneficiary dies before the pensioner, the pensioner's benefit "pops-up," that is, it automatically becomes the Maximum Retirement Allowance, and all payments cease at death.

BASIC 62/5 RETIREMENT PLAN

SERVICE RETIREMENT

- Participants may retire at age 62 with five or more years of Credited Service
- Participants may retire as early as age 55 with a reduced benefit
- The Service Retirement Benefit is:
  - *Less than 20 years of Credited Service: 1.67% x each year of Credited Service x Final Average Salary (FAS)*
  - *Between 20 and 30 years of Credited Service: 2% x each year of Credited Service x FAS*
  - *More than 30 years of Credited Service: 2% x each year for first 30 years of Credited Service x FAS, plus 1.5% x each year of Credited Service in excess of 30 years x FAS*

VESTED RETIREMENT

- Need a minimum of five years of Credited Service, two of which must be Membership Service
- Payability Date: Age 62
- Benefit calculation same as Service Retirement Benefit calculation for the 62/5 Plan

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

55/25 RETIREMENT PLAN – CHAPTER 96 OF THE LAWS OF 1995

SERVICE RETIREMENT

- Participants may retire at age 55 with at least 25 years of Credited Service
- The Service Retirement Benefit is:
  - *Between 25 and 30 years of Credited Service: 2% x each year of Credited Service x FAS*
  - *More than 30 years of Credited Service: 2% x each year for first 30 years of Credited Service x FAS, plus 1.5% x each year of Credited Service in excess of 30 years x FAS*

VESTED RETIREMENT

- There is no vesting provision under this plan; however, members always retain the right to vest under the basic 62/5 plan and are eligible for the Death Benefit for Vested Members if they have 10 or more years of Credited Service (see below)
- Benefit calculation same as Service Retirement Benefit calculation

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions - basic and employee portion (50%) of Additional Member Contributions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of the employee portion (50%) of Additional Member Contributions
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions - basic and employee portion (50%) of Additional Member Contributions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

57/5 RETIREMENT PLAN – CHAPTER 96 OF THE LAWS OF 1995

SERVICE RETIREMENT

- Participants may retire at age 57 with five or more years of Credited Service
- The Service Retirement Benefit is:
  - *Less than 20 years of Credited Service: 1.67% x each year of Credited Service x Final Average Salary (FAS)*
  - *Between 20 and 30 years of Credited Service: 2% x each year of Credited Service x FAS*
  - *More than 30 years of Credited Service: 2% x each year for first 30 years of Credited Service x FAS, plus 1.5% x each year of Credited Service in excess of 30 years x FAS*

VESTED RETIREMENT

- Need a minimum of five years of Credited Service, two of which must be Membership Service
- Payability Date: Age 57
- Benefit calculation same as Service Retirement Benefit calculation

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions – basic and employee portion (50%) of Additional Member Contributions (AMCs). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of the employee portion (50%) of Additional Member Contributions
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions – basic and employee portion (50%) of Additional Member Contributions (AMCs).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

SANITATION 30-YEAR RETIREMENT PLAN (SA-30)

SERVICE RETIREMENT

- Participants may retire at age 55 with 30 or more years of Credited Service
- The Service Retirement Benefit is:
  - *With 30 years of Credited Service: 2% x each year of Credited Service x FAS*
  - *More than 30 years of Credited Service: 2% x each year for first 30 years of Credited Service x FAS, plus 1.5% x each year of Credited Service in excess of 30 years x FAS*

VESTED RETIREMENT

- Need a minimum of five years of Credited Service, two of which must be Membership Service
- Payability Date: Age 62
- Benefit calculation same as Service Retirement Benefit calculation in the Basic 62/5 Plan

DISABILITY RETIREMENT

- Ordinary - must have ten or more years of Credited Service, unless disability resulted from accident sustained on-the-job
- Accidental - no minimum service, but disability resulted from an on-the-job accident
- Ordinary: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS; If eligible for service retirement, the benefit equals the Service Retirement Benefit
- Accidental: 75% of FAS
- Heart Presumption: Heart ailment presumed accidental; member eligible for benefit of 75% of FAS
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary: Need more than 90 days of service; benefit equal to three times current salary in a lump sum, plus Accumulated Deductions
- Accidental Death Benefit: A Pension equal to 50% of salary payable
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of the death benefit in force at time of separation from service, plus Accumulated Deductions
- Heart Presumption: Death due to heart ailment presumed accidental; accidental death benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

UNIFORMED SANITATION 20-YEAR RETIREMENT PLAN (SA-20)

SERVICE RETIREMENT

- Participants may retire after 20 years of Allowable Sanitation Service, without regard to age
- The Service Retirement Benefit is:
  - *For the first 20 years of Allowable Sanitation Service: 50% of Final Average Salary (FAS)*
  - *For all years of Allowable Sanitation Service in excess of the first 20: 1.5% of Final Compensation x years of such service; plus*
  - *For each year of Credited Service, other than Allowable Sanitation Service: 1% of Final Compensation*
  - *Benefit limited to 30 years*
- Not eligible for service retirement with a deficit in Additional Member Contributions (AMCs).

VESTED RETIREMENT

- Must have five or more years of Allowable Sanitation Service but less than 20
- Payability Date: The date the participant would have reached 20 years if he/she had not discontinued service
- Vested Benefit: For each year of Allowable Sanitation Service: 2.5% of FAS; plus, for each year of Credited Service other than Allowable Sanitation Service: 1% of Final Compensation
- Not eligible for vested retirement with a deficit in AMCs.

DISABILITY RETIREMENT

- Ordinary Disability: Must have ten or more years of Credited Service: Benefit equals the greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Accidental Disability: Disabled because of a natural or proximate result of an accident sustained on-the-job; benefit equal to 75% of FAS
- Heart Presumption: Heart ailment presumed accidental; member eligible for benefit of 75% of FAS
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit: Need at least 90 days of service; benefit equal to three times current salary in a lump sum, plus Accumulated Deductions - basic and additional
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus Accumulated Deductions - basic and additional
- Heart Presumption: Heart ailment presumed accidental; Accidental Death Benefit payable
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

TRANSIT 25 - YEAR / AGE - 55 RETIREMENT PLAN (T2555)

SERVICE RETIREMENT

- Participants may retire at age 55 with credit for 25 or more years of Allowable Service in the Transit Authority
- The Service Retirement Benefit is:
  - *For the first 25 years of Allowable Service in the Transit Authority, 50% of Final Average Salary (FAS), plus*
  - *For each additional year beyond the first 25 (up to 30 years of such service), 2% of FAS, plus*
  - *For each additional year in excess of 30 years of such service, 11⁄2% of FAS*

VESTED RETIREMENT

- A participant must have at least 25 years of Allowable Service and not have attained age 55; payable on his/her 55th birthday and calculated the same as the Service Retirement Benefit
- A participant with at least five years of Allowable or Credited Service, but less than 25, can vest under the Basic 62/5 Plan

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions.
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

TRIBOROUGH BRIDGE AND TUNNEL AUTHORITY 20 - YEAR / AGE - 50 RETIREMENT PLAN (TBTA-20/50)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Credited Service and as early as age 50
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 20 years of Credited Service, plus*
  - *1.5% of FAS for each year of Credited Service in excess of 20*
  - *Benefit limited to 30 years*
- Not eligible for service retirement with a deficit in Additional Member Contributions (AMCs).

VESTED RETIREMENT

- Must have at least five years but less than 20 years of Credited Service
- Payable on the earliest date the member could have retired for service
- 2.5% of FAS for each year of Credited Service
- Not eligible for vested retirement with a deficit in AMCs.

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions – basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions – basic and additional (if less than 15 years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DISPATCHER 25 - YEAR RETIREMENT PLAN (DIS-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Allowable Service as a Dispatcher Member, regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Allowable Service, plus*
  - *2% of FAS for each year of Allowable Service in excess of 25*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Must have at least five years but less than 25 years of Allowable Service
- Payable on the date the member would have completed 25 years of Allowable Service
- 2% of FAS for each year of Allowable Service

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions – basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions – basic and additional (if less than 15 years of service.)
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

EMERGENCY MEDICAL TECHNICIAN 25-YEAR RETIREMENT PLAN (EMT-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Allowable Service as an EMT Member, regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Allowable Service, plus*
  - *2% of FAS for each year of Allowable Service in excess of 25*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Must have at least five years but less than 25 years of Allowable Service
- Payable on the date the member would have completed 25 years of Allowable Service
- 2% of FAS for each year of Allowable Service

DISABILITY RETIREMENT

- Ordinary Disability: Must have ten or more years of Credited Service; Benefit equals the greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Line-of-Duty Disability: Disabled because of an injury sustained in the performance of duty; benefit equal to 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- Heart Presumption: Heart ailment presumed line-of-duty; benefit equals 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; benefit equals 75% of FAS payable minus 100% of Workers' Compensation payments for same injury
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions – basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions – basic and additional (if less than 15 years of service).
- Heart Presumption: Heart ailment presumed accidental; Accidental Death Benefit payable
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 (or 23 if student). A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

NYC DEPUTY SHERIFFS 25 - YEAR RETIREMENT PLAN (DSH-25)

SERVICE RETIREMENT

- Participants may retire with 25 or more years of Credited Service, without regard to age
- The Service Retirement Benefit is:
  - *For the first 25 years of Credited Service: 55% of Final Average Salary (FAS), plus*
  - *1.7% of FAS for each year of Credited Service in excess of 25*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Must have at least five, but less than 25 years of Credited Service
- Payable on the date the member would have completed 25 years of Credited Service
- 2.2% of FAS for each year of Credited Service

DISABILITY RETIREMENT

- Ordinary Disability: Must have ten or more years of Credited Service and are deemed physically or mentally incapacitated
- Ordinary Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Accidental Disability: Disabled because of a natural or proximate result of an accident sustained on-the-job; benefit equal to 75% of Final Compensation, minus 100% of Workers' Compensation payments for same injury
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions - basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions - basic and additional (if less than 15 years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

AUTOMOTIVE SERVICE WORKERS 25 - YEAR / AGE - 50 RETIREMENT PLAN (AUT-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Credited Service, at age 50
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Credited Service, plus*
  - *An additional 2% of FAS for each year in excess of 25*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Must have at least five but less than 25 years of Credited Service
- Payable on the date the member reaches at least age 50 AND would have completed 25 years of Credited Service
- 2% of FAS for each year of Credited Service

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions - basic and additional (if less than five years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than five years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions - basic and additional (if less than five years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

SPECIAL OFFICER 25 - YEAR RETIREMENT PLAN (SPO-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Allowable Service as a Special Officer, regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Allowable Service, plus*
  - *2% of FAS for each year of Allowable Service in excess of 25*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Must have at least five years but less than 25 years of Allowable Service
- Payable on the date the member would have completed 25 years of Allowable Service
- 2% of FAS for each year of Allowable Service

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions - basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions - basic and additional (if less than 15 years of service)
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

POLICE COMMUNICATIONS (911) TECHNICIANS 25-YEAR RETIREMENT PLAN (PCT 25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Credited Service, regardless of age
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Credited Service, plus*
  - *2% of FAS for each year of Credited Service in excess of 25*
  - *Benefit limited to 30 years*

VESTED RETIREMENT

- Must have at least five years but less than 25 years of Credited Service
- Payable on the date the member would have completed 25 years of Credited Service
- 2% of FAS for each year of Credited Service

DISABILITY RETIREMENT

- Eligibility: Must have ten or more years of Credited Service, unless disability resulted from an accident sustained on-the-job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x each year of Credited Service x FAS
- If eligible for Service Retirement, the benefit equals the Service Retirement Benefit if greater than above
- Members may file for disability benefits in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum, plus a return of Accumulated Deductions - basic and additional (if less than five years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than five years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service, plus a return of Accumulated Deductions - basic and additional (if less than five years of service).
- Eligible Beneficiaries may file for accidental death benefits if member's death deemed in connection with the World Trade Center tragedy on 9/11/01 provided certain criteria are met

TIER 4 RETIREMENT OPTIONS

MAXIMUM RETIREMENT ALLOWANCE

If a member, upon retirement, does not elect one of the options listed below, his or her benefit will be paid as a Maximum Retirement Allowance payable in monthly installments throughout his or her life, with all payments ceasing at death.

OPTION 1:
100% JOINT-AND-SURVIVOR

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives the same reduced monthly allowance for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 2:
OTHER JOINT-AND-SURVIVOR OPTIONS

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives a lifetime benefit of 25%, 50% or 75% of the pensioner's reduced monthly benefit, depending on the pensioner's choice. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 3:
FIVE-YEAR CERTAIN

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within five years from the date of retirement, the reduced monthly benefit will be paid to the surviving designated primary beneficiary for the unexpired balance of the five-year period. If the pensioner's designated primary beneficiary predeceases the pensioner, then upon the death of the pensioner the balance of the payments due for the unexpired balance of the five-year period is paid in a lump sum to the pensioner's contingent beneficiary or, if none exists, to the estate of the pensioner. Should a designated primary beneficiary die after having started to receive payments and before the unexpired balance of the five-year period, the balance will be paid in a lump sum to the designated contingent beneficiary or, if none exists, to the estate of the primary beneficiary. The pensioner may change the beneficiary(ies) any time within the five-year period.

OPTION 4:
TEN-YEAR CERTAIN

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within 10 years from the date of retirement, the reduced monthly benefit will be paid to the surviving designated primary beneficiary for the unexpired balance of the 10-year period. If the pensioner's designated primary beneficiary predeceases the pensioner, then upon the death of the pensioner the balance of the payments due for the unexpired balance of the 10-year period is paid in a lump sum to the pensioner's contingent beneficiary or, if none exists, to the estate of the pensioner.

Should a designated primary beneficiary die after having started to receive payments and before the unexpired balance of the 10-year period, the balance will be paid in a lump sum to the designated contingent beneficiary or, if none exists, to the estate of the primary beneficiary. The pensioner may change the beneficiary(ies) any time within the ten-year period.

OPTION 5:
POP-UP OPTION

The Pop-Up Option is a variation of a joint-and-survivor option. The pensioner receives a reduced monthly lifetime benefit under a 100% or 50% joint-and-survivor option. If the beneficiary dies before the pensioner, the pensioner's benefit "pops-up," that is, it automatically becomes the Maximum Retirement Allowance, and all payments cease at death.

BASIC 63/10 RETIREMENT PLAN

SERVICE RETIREMENT

- Participants may retire at age 63 with 10 or more years of Credited Service
- Participants may retire as early as age 55 with a reduced benefit
- The Service Retirement is:
  - *Less than 20 years of Credited Service: 1.67% x Final Average Salary (FAS) x years of Credited Service*
  - *20 or more years of Credited Service: 35% of FAS for the first 20 years of Credited Service, plus 2% x FAS x each year of Credited Service in excess of 20*

VESTED RETIREMENT

- Need a minimum of 10 years of Credited Service, two of which must be Membership Service
- Payability Date: age 63
- Benefit calculation same as Service Retirement calculation for the 63/10 Plan

DISABILITY RETIREMENT

- Must have 10 or more years of Credited Service unless disability resulted from an accident sustained on the job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable.
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service plus return of Accumulated Deductions.

TRANSIT 25-YEAR/AGE 55 RETIREMENT PLAN (6TR-25)

SERVICE RETIREMENT

- Participants may retire at age 55 with 25 or more years of Allowable Service in the Transit Authority
- The Service Retirement Benefit is:
  - *2% x Final Average Salary (FAS) x the number of years of Allowable Service, up to 30 years of such service, plus*
  - *1.5% x FAS x the number of years of Allowable Service in excess of 30 years of such service.*

VESTED RETIREMENT

- A Participant with at least 25 years of Allowable Service who has not yet attained the age of 55 is eligible for a Vested Retirement Benefit that becomes payable at age 63. The Vested Benefit payable is:
  - *2% x Final Average Salary (FAS) x the number of years of Allowable Service, up to 30 years of such service, plus*
  - *1.5% x FAS x the number of years of Allowable Service in excess of 30 years of such service.*
- A Participant with at least 10 years of Credited Service (all service, at least two years of which are membership service) is entitled to a Vested Retirement Benefit that becomes payable at age 63. The Vested Benefit payable is:
  - *For a participant with less than 20 years of Credited Service: 1.67% x FAS x years of Credited Service*
  - *For a participant with more than 20 years of Credited Service: 35% of FAS for the first 20 years of Credited Service, plus 2% x FAS x each year of Credited Service in excess of 20*

DISABILITY RETIREMENT

- Must have 10 or more years of Credited Service unless disability resulted from an accident sustained on the job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions. Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable.
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation from service plus return of Accumulated Deductions.

TRIBOROUGH BRIDGE AND TUNNEL AUTHORITY 20-YEAR/AGE 50 RETIREMENT PLAN (6TB-20)

SERVICE RETIREMENT

- Participants may retire with 20 or more years of Credited Service and as early as age 50.
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 20 years of Credited Service, plus*
  - *1.5% x FAS x the number of years of Credited Service in excess of 20, up to a maximum of 30 years.*
- Not eligible for service retirement with a deficit in Additional Member Contributions (AMCs).

VESTED RETIREMENT

- Must have at least 10 but less than 20 years of Credited Service
- Payability Date: age 63
- 2.5% x FAS x the number of years of Credited Service
- Not eligible for vested retirement with a deficit in AMCs.

DISABILITY RETIREMENT

- Must have 10 or more years of Credited Service, unless disability resulted from an accident sustained on the job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions -- basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation plus return of Accumulated Deductions – basic and additional (if less than 15 years of service)
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 or child under 23 if student. A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury.

DISPATCHER 25-YEAR RETIREMENT PLAN (6DI-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Allowable Service as a Dispatcher Member regardless of age.
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Allowable Service, plus*
  - *2% of FAS for each additional year of Allowable Service, up to a maximum of 30 years of such service.*

VESTED RETIREMENT

- Must have at least 10 but less than 25 years of Allowable Service
- Payability Date: age 63
- 2% x FAS x the number of years of Allowable Service

DISABILITY RETIREMENT

- Must have 10 or more years of Credited Service unless disability resulted from an accident sustained on the job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions -- basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation plus return of Accumulated Deductions – basic and additional (if less than 15 years of service)

EMERGENCY MEDICAL TECHNICIAN 25-YEAR RETIREMENT PLAN (6EM-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Allowable Service regardless of age.
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Allowable Service, plus*
  - *2% of FAS for each additional year of Allowable Service, up to a maximum of 30 years of such service.*

VESTED RETIREMENT

- Must have at least 10 but less than 25 years of Allowable Service
- Payability Date: age 63
- 2% x FAS x the number of years of Allowable Service

DISABILITY RETIREMENT

- Ordinary Disability: Must have 10 or more years of Credited Service; benefit equals the greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.
- Line-of-Duty Disability: Disabled because of an injury sustained in the performance of duty; benefit equal to 75% of FAS minus 100% of Workers' Compensation payments for same injury.
- Heart Presumption: Heart ailment presumed line-of-duty; benefit equals 75% of FAS minus 100% of Workers' Compensation payments for same injury.
- HAT Presumption: HIV, tuberculosis or hepatitis resulting in disability presumed line-of-duty; benefit equals 75% of FAS minus 100% of Workers' Compensation payments for same injury.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions -- basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation plus return of Accumulated Deductions – basic and additional (if less than 15 years of service).
- Special Accidental Death Benefit (resulted from accident on-the-job or while in military service) payable to widow or widower or child under 18 or child under 23 if student. A Pension equal to 50% of salary payable, minus Social Security benefits and 100% of Workers' Compensation payments for same injury.
- Heart Presumption: Heart ailment presumed accidental; Accidental and Special Accidental Death Benefits payable.

NYC DEPUTY SHERIFF 25-YEAR RETIREMENT PLAN (6DS-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Credited Service regardless of age.
- The Service Retirement Benefit is:
  - *55% of Final Average Salary (FAS) for the first 25 years of Credited Service, plus*
  - *1.7% of FAS for each additional year of Credited Service, up to a maximum of 30 years of such service.*

VESTED RETIREMENT

- Must have at least 10 but less than 25 years of Credited Service
- Payability Date: age 63
- 2.2% x FAS x the number of years of Credited Service

DISABILITY RETIREMENT

- Ordinary Disability: Must have 10 or more years of Credited Service; benefit equals the greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.
- Accidental Disability: Disabled because of a natural or proximate result of an accident sustained on the job; benefit equal to 75% of Final Compensation minus 100% of Workers' Compensation payments for same injury.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions -- basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation plus return of Accumulated Deductions – basic and additional (if less than 15 years of service)

AUTOMOTIVE MEMBER 25-YEAR/AGE 50 RETIREMENT PLAN (6AU-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Credited Service at age 50 or older.
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Credited Service, plus*
  - *2% of FAS for each additional year of Credited Service, up to a maximum of 30 years of such service.*

VESTED RETIREMENT

- Must have at least 10 but less than 25 years of Credited Service
- Payability Date: age 63
- 2% x FAS x the number of years of Credited Service

DISABILITY RETIREMENT

- Eligibility: Must have 10 or more years of Credited Service unless disability resulted from an accident sustained on the job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions -- basic and additional (if less than five years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than five years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation plus return of Accumulated Deductions – basic and additional (if less than five years of service)

SPECIAL PEACE OFFICER 25-YEAR RETIREMENT PLAN (6SO-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Allowable Service as a Special Peace Officer regardless of age.
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Allowable Service, plus*
  - *2% of FAS for each additional year of Allowable Service, up to a maximum of 30 years of such service.*

VESTED RETIREMENT

- Must have at least 10 but less than 25 years of Allowable Service
- Payability Date: age 63
- 2% x FAS x the number of years of Allowable Service

DISABILITY RETIREMENT

- Eligibility: Must have 10 or more years of Credited Service, unless disability resulted from an accident sustained on the job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions -- basic and additional (if less than 15 years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than 15 years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation plus return of Accumulated Deductions – basic and additional (if less than 15 years of service).

POLICE COMMUNICATIONS TECHNICIAN 25-YEAR RETIREMENT PLAN (6PC-25)

SERVICE RETIREMENT

- Participants may retire for service with 25 or more years of Credited Service regardless of age.
- The Service Retirement Benefit is:
  - *50% of Final Average Salary (FAS) for the first 25 years of Credited Service, plus*
  - *2% of FAS for each additional year (or fraction thereof) of Credited Service, up to a maximum of 30 years of such service.*

VESTED RETIREMENT

- Must have at least 10 but less than 25 years of Credited Service
- Payability Date: age 63
- 2% x FAS x the number of years of Credited Service

DISABILITY RETIREMENT

- Eligibility: Must have 10 or more years of Credited Service, unless disability resulted from an accident sustained on the job
- Disability Retirement Benefit: The greater of 1/3 of FAS or 1.67% x FAS x years of service
- If eligible for Service Retirement, the benefit equals the Service Retirement if greater than above.

DEATH BENEFITS

- An Ordinary Death Benefit (need not have been on-the-job) payable to the Designated Beneficiary(ies) (member's designation)
- An Accidental Death Benefit (resulted from an accident on-the-job or while in military service) payable to the Eligible Beneficiary(ies) (defined in law)
- Ordinary Death Benefit (Plan 2): 1-2 years of service = one year's current salary in a lump sum; 2-3 years of service = two times current salary in a lump sum; 3 or more years of service = three times current salary in a lump sum; plus a return of Accumulated Deductions -- basic and additional (if less than five years of service). Retirees are eligible for a Post-Retirement Death Benefit.
- Accidental Death Benefit: A Pension equal to 50% of salary payable, plus a return of Additional Member Contributions (if less than five years of service)
- Death Benefit for Vested Members: Need at least 10 years of Credited Service; 50% of death benefit in force at time of separation plus return of Accumulated Deductions – basic and additional (if less than five years of service)

TIER 6 RETIREMENT OPTIONS

MAXIMUM RETIREMENT ALLOWANCE

If a member, upon retirement, does not elect one of the options listed below, his or her benefit will be paid as a Maximum Retirement Allowance payable in monthly installments throughout his or her life, with all payments ceasing at death.

OPTION 1:
100% JOINT-AND-SURVIVOR

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives the same reduced monthly allowance for life. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 2:
OTHER JOINT-AND-SURVIVOR OPTIONS

The pensioner receives a reduced monthly lifetime allowance. When the pensioner dies, the surviving beneficiary receives a lifetime benefit of 25%, 50% or 75% of the pensioner's reduced monthly benefit, depending on the pensioner's choice. Only one beneficiary may be named, and the beneficiary may not be changed once named and the option is in effect.

OPTION 3:
FIVE-YEAR CERTAIN

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within five years from the date of retirement, the reduced monthly benefit will be paid to the surviving designated primary beneficiary for the unexpired balance of the five-year period. If the pensioner's designated primary beneficiary predeceases the pensioner, then upon the death of the pensioner the balance of the payments due for the unexpired balance of the five-year period is paid in a lump sum to the pensioner's contingent beneficiary or, if none exists, to the estate of the pensioner. Should a designated primary beneficiary die after having started to receive payments and before the unexpired balance of the five-year period, the balance will be paid in a lump sum to the designated contingent beneficiary or, if none exists, to the estate of the primary beneficiary. The pensioner may change the beneficiary(ies) any time within the five-year period.

OPTION 4:
TEN-YEAR CERTAIN

The pensioner receives a reduced monthly lifetime benefit. If the pensioner dies within 10 years from the date of retirement, the reduced monthly benefit will be paid to the surviving designated primary beneficiary for the unexpired balance of the 10-year period. If the pensioner's designated primary beneficiary predeceases the pensioner, then upon the death of the pensioner the balance of the payments due for the unexpired balance of the 10-year period is paid in a lump sum to the pensioner's contingent beneficiary or, if none exists, to the estate of the pensioner. Should a designated primary beneficiary die after having started to receive payments and before the unexpired balance of the 10-year period, the balance will be paid in a lump sum to the designated contingent beneficiary or, if none exists, to the estate of the primary beneficiary. The pensioner may change the beneficiary(ies) any time within the 10-year period.

OPTION 5:
POP-UP OPTION

The Pop-Up Option is a variation of a joint-and-survivor option. The pensioner receives a reduced monthly lifetime benefit under a 100% or 50% joint-and-survivor option. If the beneficiary dies before the pensioner, the pensioner's benefit "pops-up," that is, it automatically becomes the Maximum Retirement Allowance, and all payments cease at death.

PART 2

FINANCIAL SECTION

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MARKS PANETH
ACCOUNTANTS & ADVISORS

INDEPENDENT AUDITORS' REPORT

To the Board of Trustees of the
New York City Employees' Retirement System

Report on the Combining Financial Statements

We have audited the accompanying combining statements of fiduciary net position of the New York City Employees' Retirement Fund, New York City Correction Officers' Variable Supplements Fund, New York City Housing Police Officers' Variable Supplements Fund, New York City Housing Police Superior Officers' Variable Supplements Fund, New York City Transit Police Officers' Variable Supplements Fund, and New York City Transit Police Superior Officers' Variable Supplements Fund, which collectively comprise the New York City Employees' Retirement System (the "Funds "), a fiduciary fund of the City of New York, as of June 30, 2017 and 2016, and the related combining statements of changes in fiduciary net position for the years then ended, and the related notes to the combining financial statements, which collectively comprise the Fund's basic combining financial statements as listed in the table of contents.

Management's Responsibility for the Combining Financial Statements

Management is responsible for the preparation and fair presentation of these combining financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the combining financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these combining financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require we plan and perform the audit to obtain reasonable assurance about whether the combining financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the combining financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the combining financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Fund's preparation and fair presentation of the combining financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Fund's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the combining financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the combining financial statements referred to above present fairly, in all material respects, the combining fiduciary net position of the Fund as of June 30, 2017 and 2016, and the changes in combining fiduciary net position for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Morison KSi
Independent member

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis, Schedule 1, Schedule 2, and Schedule 3, as listed in the table of contents, be presented to supplement the basic combining financial statements. Such information, although not a part of the basic combining financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic combining financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic combining financial statements, and other knowledge we obtained during our audits of the basic combining financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Supplementary Information

Our audits were conducted for the purpose of forming an opinion on the basic combining financial statements. The Introductory Section, Additional Supplementary Information, Investment Section, Actuarial Section, and Statistical Section, as listed in the foregoing table of contents, are presented for the purpose of additional analysis and are not a required part of the basic combining financial statements.

The Additional Supplementary Information (Schedules of Investment Expenses, Administrative Expenses and Payments to Consultants) is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic combining financial statements. Such information has been subjected to the auditing procedures, applied in the audit of the basic combining financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic combining financial statements or to the basic combing financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion the Additional Supplementary Information is fairly stated, in all material respects, in relation to the basic combining financial statements taken as a whole.

The Introductory Section, Investment Section, Actuarial Section and Statistical Section have not been subjected to the auditing procedures applied in the audit of the basic combining financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Marks Paneth LLP

October 27, 2017
(except for the Other Supplementary Information,
as to which the date is December 21, 2017)

MARKS PANETH
ACCOUNTANTS & ADVISORS

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)
JUNE 30, 2017 AND 2016

This narrative discussion and analysis of the New York City Employees' Retirement Funds (NYCERS or the Fund) financial performance provides an overview of the Funds' combining financial activities for the Fiscal Years ended June 30, 2017 and 2016. It is meant to assist the reader in understanding NYCERS' combining financial statements by providing an overall review of the combining financial activities during the years and the effects of significant changes, as well as a comparison with the prior year's activity and results. This discussion and analysis is intended to be read in conjunction with the Funds' combining financial statements.

NYCERS administers the New York City Employees' Retirement System Qualified Pension Plan (the QPP), Correction Officers' Variable Supplements Fund (COVSF), Housing Police Officers' Variable Supplements Fund (HPOVSF), Housing Police Superior Officers' Variable Supplements Fund (HPSOVSF), Transit Police Officers' Variable Supplements Fund (TPOVSF), and the Transit Police Superior Officers' Variable Supplements Fund (TPSOVSF) (collectively, the Funds).

OVERVIEW OF BASIC COMBINING FINANCIAL STATEMENTS

The following discussion and analysis are intended to serve as an introduction to the Funds' basic combining financial statements. The basic combining financial statements, which are prepared in accordance with Governmental Accounting Standards Board (GASB) pronouncements and include the financial statements of each of the Funds, are:

- **The Combining Statements of Fiduciary Net Position —** presents the financial position of the Funds at fiscal year-end. It provides information about the nature and amounts of resources with present service capacity that the Funds presently controls (assets), consumption of net assets by the Funds that is applicable to a future reporting period (deferred outflow of resources), present obligations to sacrifice resources that the Funds has little or no discretion to avoid (liabilities), and acquisition of net assets by the Funds that is applicable to a future reporting period (deferred inflow of resources) with the difference between assets/deferred outflow of resources and liabilities/deferred inflow of resources being reported as net position. Investments are shown at fair value. All other assets and liabilities are determined on an accrual basis.

- **The Combining Statements of Changes in Fiduciary Net Position**— presents the results of activities during the fiscal year. All changes affecting the assets/deferred outflow and liabilities/deferred inflow of the Funds 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 Combining Financial Statements** — provide additional information that is essential to a full understanding of the data provided in the combining financial statements. The notes present information about the Funds' accounting policies, significant account balances and activities, material risks, obligations, contingencies, and subsequent events, if any.

- **Required Supplementary Information** — as required by the GASB includes the management discussion and analysis and information presented after the notes to the combining financial statements.

FINANCIAL HIGHLIGHTS

The Funds' combined net position restricted for benefits increased by $6.1 billion (11.0%) from $55.5 billion at June 30, 2016 to $61.6 billion at June 30, 2017. The main reason for the increase was an increase in return on the investment portfolio, especially in the International and Domestic Equity markets.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)
JUNE 30, 2017 AND 2016

The Funds' combined net position restricted for benefits increased by $465 million (0.8%) from $55.0 billion at June 30, 2015 to $55.5 billion at June 30, 2016. The main reason for the slight increase was a decrease in the amount of payables for investment securities purchased.

The cash balances were $172 million on June 30, 2017. The Funds' practice is to fully invest its day-end cash balances in a pooled short term investment fund. A typical benefit payment account would show an overdrawn balance, since funds are only deposited as outstanding benefit checks are presented to the banks for payments each day. These overdrawn balances are the main component of accounts payable.

Receivables for investment securities sold amounted to $687 million as of June 30, 2017, a decrease of $726 million (-51.4%) from $1.4 billion as of June 30, 2016, which was a decrease of $226 million (-13.8%) from $1.6 billion as of June 30, 2015. Although trades typically do not settle until a few days after trade dates, sales of investment securities are reflected on trade dates. The resulting receivables are caused by these timing differences.

Fiduciary Net Position

June 30, 2017, 2016 and 2015

(in thousands)

	2017	2016	2015
Cash	$ 172,223	$ 166,041	$ 44,296
Receivables for investment securities sold	687,047	1,413,529	1,639,525
Receivables for member loans	1,102,986	1,081,783	1,027,069
Receivables for accrued earnings	301,717	280,765	267,572
Other receivables	12	11	11
Investments at fair value	60,784,591	54,756,585	55,679,831
Securities lending collateral	7,034,093	5,267,092	4,789,313
Other assets	93,948	84,632	140,813
Total assets	70,176,617	63,050,438	63,588,430
Accounts payable	209,227	177,909	142,088
Payable for investment securities purchased	955,572	1,794,940	3,368,991
Accrued benefits payable	371,690	314,386	257,254
Due to other retirement systems	1,088	1,590	1,754
Payables for securities lending transactions	7,034,093	5,267,092	4,789,313
Total liabilities	8,571,670	7,555,917	8,559,400
Net position restricted for pensions	$ 61,604,947	$ 55,494,521	$ 55,029,030

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)
JUNE 30, 2017 AND 2016

The receivables for member loans increased $21 million (2.0%), from $1.08 billion at June 30, 2016 to $1.10 billion at June 30, 2017. The principal reason for the increase is that the amount of loans issued was higher than that of fiscal year 2016.

The receivables for member loans increased $55 million (5.3%), from $1.03 billion at June 30, 2015 to $1.08 billion at June 30, 2016. The principal reason for the increase is that the amount of loans issued was higher than that of fiscal year 2015.

Fair value of investments, including securities lending collateral at June 30, 2017 was $67.8 billion, an increase of $7.8 billion (13.0%) from the June 30, 2016 investment value of $60.0 billion. The increase is due to the fact that the amount of holdings of debt securities and international equity increased by $6.5 billion from $20.7 billion at June 30, 2016 to $27.2 billion at June 30 2017.

Fair value of investments, including securities lending collateral at June 30, 2016 was $60.0 billion, a decrease of $445 million (-0.7%) from the June 30, 2015 investment value of $60.5 billion. The decrease is due to the fact that the amount of holdings of debt securities reduced by $785 million from $12.2 billion at June 30, 2015 to $11.4 billion at June 30 2016.

Other Assets increased $9 million (11.0%) from $85 million in Fiscal Year 2016 to $94 million in Fiscal Year 2017. This increase was due to an increase in the receivable resulted from unpaid employer pension contribution by New York City Off-Track Betting Corporation (OTB) for Fiscal Year 2017.

Other Assets decreased $56 million (-39.9%) from $141 million in Fiscal Year 2015 to $85 million in Fiscal Year 2016. The decrease was due to the City paying its additional required contribution to NYCERS by June 30; thereby decreasing receivables as of June 30, 2016.

Payables for investment securities purchased amounted to $956 million as of June 30, 2017, a decrease of $839 million (-46.8%) from $1.8 billion as of June 30, 2016, which was a decrease of $1.6 billion (-46.7%) from $3.4 million as of June 30, 2015. Although trades typically do not settle until a few days after trade dates, purchases of investment securities are reflected on trade dates. The resulting payables are the result of those timing differences.

Accrued benefits payable at June 30, 2017 increased $58 million (18.2%), from $314 million at June 30, 2016 to $372 million at June 30, 2017. The increase in payable was primarily due to an ongoing revision of the benefit payment of current pensioners whose salaries were affected, retroactively, by the settlement of union contracts.

Accrued benefits payable at June 30, 2016 increased $57 million (22.2%), from $257 million at June 30, 2015 to $314 million at June 30, 2016. The increase in the payable is mostly the result of a project that identifies former members who never applied for the refunds of the annuity balances in their accounts.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)
JUNE 30, 2017 AND 2016

Changes in Fiduciary Net Position

Years Ended June 30, 2017, 2016, and 2015

(in thousands)

	2017	2016	2015
Additions:			
Member contributions	$ 513,514	$ 485,508	$ 467,129
Employer contributions	3,328,193	3,365,454	3,160,258
Investment earnings:			
Interest and dividend income	1,685,569	1,529,447	1,431,016
Net appreciation (depreciation) in fair value of investments	5,489,005	(174,204)	(50,658)
Net securities lending income	31,334	29,657	26,511
Investment expenses	(223,756)	(212,996)	(231,760)
Net investment income	6,982,152	1,171,904	1,175,109
Other income	3,266	2,928	4,140
Total additions	10,827,125	5,025,794	4,806,636
Deductions:			
Benefit payments and withdrawals	4,648,941	4,496,180	4,325,756
Payments to other retirement systems	8,087	7,440	7,142
Administrative expenses	59,671	56,683	54,635
Total deductions	4,716,699	4,560,303	4,387,533
Net increase in net position	6,110,426	465,491	419,103
Net position restricted for pensions:			
Beginning of year	55,494,521	55,029,030	54,609,927
End of year	$ 61,604,947	$ 55,494,521	$ 55,029,030

Employer contributions remained relatively level in Fiscal Year 2017, decreasing by only $37 million (-1.1 %). The decrease was primarily due to the net result of actuarial gains and losses. Employer contributions increased $205 million (6.5%), from $3.2 billion in Fiscal Year 2015 to $3.4 billion in Fiscal Year 2016. The increase was primarily due to a change in the post-retirement mortality rates, an increase in the amortization payment of the 2010 initial unfunded liability, and a net actuarial gain.

Net investment income for Fiscal Year 2017 totaled $7 billion, compared to $1.2 billion in Fiscal Year 2016. This $5.8 billion increase in investment gains was a result of investment portfolio experiencing $5.5 billion appreciation in Fiscal Year 2017, as compared to the $174 million depreciation during Fiscal Year 2016. Domestic and International Equity portfolios were comparatively the best performers on a percentage basis.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)
JUNE 30, 2017 AND 2016

Net investment income remained relatively level in Fiscal Year 2016, a decrease of only $3 million (-0.3%) from $1.2 billion in Fiscal Year 2015. Almost all of the net investment income in FY 2016 and FY 2015 can be attributed to the interest and dividends.

Investment expenses for Fiscal Year 2017 were $224 million, compared to $213 million in Fiscal Year 2016. The $11 million increase (5.1%) was primarily due to increases in the Private Equity – Opportunistic/Global, Real Estate and International Equity expenses.

Investment expenses for Fiscal Year 2016 were $213 million, compared to $232 million in Fiscal Year 2015. The $19 million decrease (-8.1%) in total investment expenses was primarily due to decreased expenses in the Hedge Fund sector, from $40 million in Fiscal Year 2015 to $17 million in Fiscal Year 2016.

Benefit payments and withdrawals for the Fiscal Year ended June 30, 2017 totaled $4.6 billion, a $153 million (3.4%) increase from the $4.5 billion of Fiscal Year 2016. The increase is due to the increasing number of retirees and their corresponding higher average retirement allowances.

Benefit payments and withdrawals for the Fiscal Year ended June 30, 2016 totaled $4.5 billion, a $170 million (3.9%) increase from the $4.3 billion of Fiscal Year 2015. The increase is due to the increasing number of retirees and their corresponding higher average retirement allowances.

Administrative expenses increased $3 million (5.3%), from $57 million in Fiscal Year 2016 to $60 million in Fiscal Year 2017. Administrative expenses increased $2 million (3.7%), from $55 million in Fiscal Year 2015 to $57 million in Fiscal Year 2016. These increases were primarily due to the increase of employee salaries upon the settlement of union contracts, a project to modernize NYCERS' information technology systems, and the improvement of NYCERS' facilities.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)
JUNE 30, 2017 AND 2016

Investments — The table below summarizes the NYCERS investment allocation.

Investment Summary
June 30, 2017
(in thousands)

Investments -At fair value:	QPP	COVSF	Combined
Short-term investments:			
U.S. treasury bills and agencies	$ 49,816	$ -	$ 49,816
Commercial paper	422,635	-	422,635
Short-term investment fund	455,429	43,529	498,958
Discount notes	158,568	-	158,568
Debt securities:			
U.S. Government and agencies	7,299,927	-	7,299,927
Corporate and other	6,221,059	-	6,221,059
Equity securities	18,956,302	-	18,956,302
Alternative investments	9,258,955	-	9,258,955
Collective trust funds:			
International equity	13,360,204	-	13,360,204
Mortgage debt security	640,950	-	640,950
Treasury inflation protected securities	2,531,110	-	2,531,110
Fixed income	1,386,107	-	1,386,107
Collateral from securities lending	7,034,093	-	7,034,093
	$ 67,775,155	$ 43,529	$ 67,818,684

INVESTMENT PERFORMANCE

Total portfolio performance (net of fees) for Fiscal Year 2017 was 12.99%, more than NYCERS' Policy benchmark, which had a rate of return of 12.93%. Domestic equities returned 18.09%, less than the Russell 3000 benchmark of 18.51%. International equity holdings returned 22.69%, more than the MSCI AC World Index of 20.45%. Fixed income securities returned 3.14%.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED)
JUNE 30, 2017 AND 2016

Investment Summary
June 30, 2016
(in thousands)

Investments -At fair value:	QPP	COVSF	Combined
Short-term investments:			
U.S. treasury bills and agencies	$ 11,073	$ -	$ 11,073
Commercial paper	739,639	-	739,639
Short-term investment fund	760,635	43,693	804,328
Discount notes	59,860	-	59,860
Short-term hedge fund	-	-	-
Debt securities:			
U.S. Government and agencies	4,289,153	-	4,289,153
Corporate and other	7,157,423	-	7,157,423
Equity securities	18,523,033	-	18,523,033
Alternative investments	9,873,044	-	9,873,044
Collective trust funds:			
International equity	9,220,895	-	9,220,895
Mortgage debt security	607,685	-	607,685
Treasury inflation protected securities	2,448,307	-	2,448,307
Fixed income	1,022,145	-	1,022,145
Collateral from securities lending	5,267,092	-	5,267,092
	$ 59,979,984	$ 43,693	$ 60,023,677

INVESTMENT PERFORMANCE

Total portfolio performance (net of fees) for Fiscal Year 2016 was 1.52%, less than NYCERS' Policy benchmark, which had a rate of return of 2.28%. Domestic equities returned 1.68%, less than the Russell 3000 benchmark of 2.14%. International equity holdings returned (8.40)%, more than the MSCI AC World Index of (10.24)%. Fixed income securities returned 4.29%.

CONTACT INFORMATION

This financial report is designed to provide a general overview of the New York City Employees' Retirement System's finances. Questions concerning any data provided in this report or requests for additional information should be directed to Michael Goldson, Director of Finance, New York City Employees' Retirement System, 335 Adams Street, Suite 2300, Brooklyn, NY 11201-3751.

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NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
COMBINING STATEMENTS OF FIDUCIARY NET POSITION
JUNE 30, 2017
(In thousands)

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	Eliminations	Total
ASSETS:								
Cash and cash equivalents	$ 163,875	$ 8,106	$ 69	$ 58	$ 45	$ 70	$ -	$ 172,223
RECEIVABLES:								
Investment securities sold	687,047	-	-	-	-	-	-	687,047
Member loans (Note 7)	1,102,986	-	-	-	-	-	-	1,102,986
Accrued interest and dividends	301,680	37	-	-	-	-	-	301,717
Other receivables	-	12	-	-	-	-	-	12
Receivables from QPP to:								
VSFs (HPO, HPSO, TPO, TPSO)	-	-	901	1,274	1,886	1,432	(5,493)	-
COVSF	-	281,000	-	-	-	-	(281,000)	-
Total receivables	2,091,713	281,049	901	1,274	1,886	1,432	(286,493)	2,091,762
INVESTMENTS – At fair value (Notes 2 and 3):								
Short-term investments:								
U.S. treasury bills and agencies	49,816	-	-	-	-	-	-	49,816
Commercial paper	422,635	-	-	-	-	-	-	422,635
Short-term investment fund	455,429	43,529	-	-	-	-	-	498,958
Discount notes	158,568	-	-	-	-	-	-	158,568
Debt securities:								
U.S. government and agency	7,299,927	-	-	-	-	-	-	7,299,927
Corporate and other	6,221,059	-	-	-	-	-	-	6,221,059
Equity securities	18,956,302	-	-	-	-	-	-	18,956,302
Alternative investments	9,258,955	-	-	-	-	-	-	9,258,955
Collective trust funds:								
International equity	13,360,204	-	-	-	-	-	-	13,360,204
Mortgage debt securities	640,950	-	-	-	-	-	-	640,950
Treasury inflation protected securities	2,531,110	-	-	-	-	-	-	2,531,110
Fixed income	1,386,107	-	-	-	-	-	-	1,386,107
Collateral from securities lending	7,034,093	-	-		-	-		7,034,093
Total investments	67,775,155	43,529	-	-	-	-	-	67,818,684
OTHER ASSETS	93,948	-	-	-	-	-	-	93,948
Total assets	70,124,691	332,684	970	1,332	1,931	1,502	(286,493)	70,176,617
LIABILITIES:								
Accounts payable	209,206	-	-	-	21	-	-	209,227
Payable for investment securities purchased	955,572	-	-	-				955,572
Accrued benefits payable	321,457	44,519	970	1,332	1,910	1,502	-	371,690
Payable from QPP to:								
VSFs (HPO, HPSO, TPO, TPSO)	5,493	-	-	-	-	-	(5,493)	-
COVSF	281,000	-	-	-	-	-	(281,000)	-
Due to other retirement systems	1,088	-	-	-	-	-	-	1,088
Securities lending (Note 2)	7,034,093	-	-	-	-	-	-	7,034,093
Total liabilities	8,807,909	44,519	970	1,332	1,931	1,502	(286,493)	8,571,670
NET POSITION RESTRICTED FOR BENEFITS								
Benefits to be provided by QPP	61,316,782	-	-	-	-	-	-	61,316,782
Benefits to be provided by VSF		288,165	-	-	-	-	-	288,165
Total net position restricted for benefits	$ 61,316,782	$ 288,165	$ -	$ -	$ -	$ -	$ -	$ 61,604,947

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

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
COMBINING STATEMENTS OF FIDUCIARY NET POSITION
JUNE 30, 2016
(In thousands)

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	Eliminations	Total
ASSETS:								
Cash and cash equivalents	$ 165,685	$ 213	$ 30	$ 44	$ 29	$ 40	$ -	$ 166,041
RECEIVABLES:								
Investment securities sold	1,413,529	-	-	-	-	-	-	1,413,529
Member loans (Note 7)	1,081,783	-	-	-	-	-	-	1,081,783
Accrued interest and dividends	280,740	25	-	-	-	-	-	280,765
Other receivables	-	11	-	-	-	-	-	11
Receivables from QPP to:								
VSFs (HPO, HPSO, TPO, TPSO)	-	-	991	1,318	1,967	1,448	(5,724)	-
COVSF	-	3,000	-	-	-	-	(3,000)	-
Total receivables	2,776,052	3,036	991	1,318	1,967	1,448	(8,724)	2,776,088
INVESTMENTS – At fair value (Notes 2 and 3):								
Short-term investments:								
U.S. treasury bills and agencies	11,073	-	-	-	-	-	-	11,073
Commercial paper	739,639	-	-	-	-	-	-	739,639
Short-term investment fund	760,635	43,693	-	-	-	-	-	804,328
Discount notes	59,860	-	-	-	-	-	-	59,860
Debt securities:								
U.S. government and agency	4,289,153	-	-	-	-	-	-	4,289,153
Corporate and other	7,157,423	-	-	-	-	-	-	7,157,423
Equity securities	18,523,033	-	-	-	-	-	-	18,523,033
Alternative investments	9,873,044	-	-	-	-	-	-	9,873,044
Collective trust funds:								
International equity	9,220,895	-	-	-	-	-	-	9,220,895
Mortgage debt securities	607,685	-	-	-	-	-	-	607,685
Treasury inflation protected securities	2,448,307	-	-	-	-	-	-	2,448,307
Fixed income	1,022,145	-	-	-	-	-	-	1,022,145
Collateral from securities lending	5,267,092	-	-	-	-	-	-	5,267,092
Total investments	59,979,984	43,693	-	-	-	-	-	60,023,677
OTHER ASSETS	84,632	-	-	-	-	-	-	84,632
Total assets	63,006,353	46,942	1,021	1,362	1,996	1,488	(8,724)	63,050,438
LIABILITIES:								
Accounts payable	177,887	-	-	-	22	-	-	177,909
Payable for investment securities purchased	1,794,940	-	-	-				1,794,940
Accrued benefits payable	266,616	41,925	1,021	1,362	1,974	1,488	-	314,386
Payable from QPP to:								
VSFs (HPO, HPSO, TPO, TPSO)	5,724	-	-	-	-	-	(5,724)	-
COVSF	3,000	-	-	-	-	-	(3,000)	-
Due to other retirement systems	1,590	-	-	-	-	-	-	1,590
Securities lending (Note 2)	5,267,092	-	-	-	-	-	-	5,267,092
Total liabilities	7,516,849	41,925	1,021	1,362	1,996	1,488	(8,724)	7,555,917
NET POSITION RESTRICTED FOR BENEFITS								
Benefits to be provided by QPP	55,489,504	-	-	-	-	-	-	55,489,504
Benefits to be provided by VSF		5,017	-	-	-	-	-	5,017
Total net position restricted for benefits	$ 55,489,504	$ 5,017	$ -	$ -	$ -	$ -	$ -	$ 55,494,521

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

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
COMBINING STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION
FOR THE YEAR ENDED JUNE 30, 2017
(In thousands)

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	ELIM	Total
ADDITIONS:								
Contributions:								
Member contributions	$ 513,514	$ -	$ -	$ -	$ -	$ -	$ -	$ 513,514
Employer contributions	3,328,193	-	-	-	-	-	-	3,328,193
Total contributions	3,841,707	-	-	-	-	-	-	3,841,707
Investment income (Note 2):								
Interest income	753,789	300	-	-	-	-	-	754,089
Dividend income	931,480	-	-	-	-	-	-	931,480
Net appreciation in fair value of investments	5,489,457	(452)	-	-	-	-	-	5,489,005
Total investment income	7,174,726	(152)	-	-	-	-	-	7,174,574
Less:								
Investment expenses	223,756	-	-	-	-	-	-	223,756
Net income	6,950,970	(152)	-	-	-	-	-	6,950,818
Securities lending transactions:								
Securities lending income	33,703	-	-	-	-	-	-	33,703
Less - securities lending fees	2,369	-	-	-	-	-	-	2,369
Net securities lending income	31,334	-	-	-	-	-	-	31,334
Net investment income	6,982,304	(152)	-	-	-	-	-	6,982,152
Other - other income	3,266	-	-	-	-	-	-	3,266
Transfer from QPP to:								-
VSFs (HPO, HPSO, TPO, TPSO)	-	-	1,889	2,595	3,830	2,983	(11,297)	
COVSF	-	285,924	-	-	-	-	(285,924)	-
Total additions	10,827,277	285,772	1,889	2,595	3,830	2,983	(297,221)	10,827,125
DEDUCTIONS:								
Benefit payments and withdrawals (Note 1)	4,635,020	2,624	1,889	2,595	3,830	2,983	-	4,648,941
Payments to other retirement systems	8,087	-	-	-	-	-	-	8,087
Transfer from QPP to:								
VSFs (HPO, HPSO, TPO, TPSO)	11,297	-	-	-	-	-	(11,297)	-
COVSF	285,924	-	-	-	-	-	(285,924)	-
Administrative expenses	59,671	-	-	-	-	-	-	59,671
Total deductions	4,999,999	2,624	1,889	2,595	3,830	2,983	(297,221)	4,716,699
NET INCREASE IN NET POSITION	5,827,278	283,148	-	-	-	-	-	6,110,426
NET POSITION RESTRICTED FOR BENEFITS:								
Beginning of year	55,489,504	5,017	-	-	-	-	-	55,494,521
End of year	$ 61,316,782	$ 288,165	$ -	$ -	$ -	$ -	$ -	$ 61,604,947

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

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
COMBINING STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION
FOR THE YEAR ENDED JUNE 30, 2016
(In thousands)

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	ELIM	Total
ADDITIONS:								
Contributions:								
Member contributions	$ 485,508	$ -	$ -	$ -	$ -	$ -	$ -	$ 485,508
Employer contributions	3,365,454	-	-	-	-	-	-	3,365,454
Total contributions	3,850,962	-	-	-	-	-	-	3,850,962
Investment income (Note 2):								
Interest income	692,773	184	-	-	-	-	-	692,957
Dividend income	836,490	-	-	-	-	-	-	836,490
Net appreciation in fair value of investments	(174,204)	-	-	-	-	-	-	(174,204)
Total investment income	1,355,059	184	-	-	-	-	-	1,355,243
Less:								
Investment expenses	212,996	-	-	-	-	-	-	212,996
Net income	1,142,063	184	-	-	-	-	-	1,142,247
Securities lending transactions:								
Securities lending income	31,719	-	-	-	-	-	-	31,719
Less - securities lending fees	2,062	-	-	-	-	-	-	2,062
Net securities lending income	29,657	-	-	-	-	-	-	29,657
Net investment income	1,171,720	184	-	-	-	-	-	1,171,904
Other - other income	2,928	-	-	-	-	-	-	2,928
Transfer from QPP to:								
VSFs (HPO, HPSO, TPO, TPSO)	-	-	1,968	2,648	3,945	2,964	(11,525)	-
COVSF	-	(52,724)	-	-	-	-	52,724	-
Total additions	5,025,610	(52,540)	1,968	2,648	3,945	2,964	41,199	5,025,794
DEDUCTIONS:								
Benefit payments and withdrawals (Note 1)	4,402,506	82,149	1,968	2,648	3,945	2,964	-	4,496,180
Payments to other retirement systems	7,440	-	-	-	-	-	-	7,440
Transfer from QPP to:								-
VSFs (HPO, HPSO, TPO, TPSO)	11,525	-	-	-	-	-	(11,525)	-
COVSF	(52,724)	-	-	-	-	-	52,724	-
Administrative expenses	56,683	-	-	-	-	-	-	56,683
Total deductions	4,425,430	82,149	1,968	2,648	3,945	2,964	41,199	4,560,303
NET INCREASE IN NET POSITION	600,180	(134,689)	-	-	-	-	-	465,491
NET POSITION RESTRICTED FOR BENEFITS:								
Beginning of year	54,889,324	139,706	-	-	-	-	-	55,029,030
End of year	$ 55,489,504	$ 5,017	$ -	$ -	$ -	$ -	$ -	$ 55,494,521

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

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
NOTES TO COMBINING FINANCIAL STATEMENTS
JUNE 30, 2017 AND 2016

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 New York City Employees' Retirement System (NYCERS), the Teachers' Retirement System of the City of New York ("TRS"), the New York City Board of Education Retirement System (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.

NYCERS administers the New York City Employees' Retirement System Qualified Pension Plan (the QPP or Plan), Correction Officers' Variable Supplements Fund (COVSF), Housing Police Officers' Variable Supplements Fund (HPOVSF), Housing Police Superior Officers' Variable Supplements Fund (HPSOVSF), Transit Police Officers' Variable Supplements Fund (TPOVSF), and the Transit Police Superior Officers' Variable Supplements Fund (TPSOVSF), (collectively the Funds) which are included in the combining financial statements.

The QPP is a cost-sharing, multiple-employer PERS. The QPP provides a pension benefit for employees of The City and various related employers not covered by The City's four other main pension systems. The employers (collectively, the Employer), in addition to The City, principally include five authorities, four public benefit corporations, The City University of New York (CUNY) and the State. Substantially all employees of The City not covered by one of the other four pension systems are covered by the QPP. Permanent employees become QPP members within six months of their employment and may elect to become members earlier. All other employees may become members at their option.

The QPP functions in accordance with existing State statutes and City laws, which are the basis by which benefit terms and Employer and member contribution requirements are established and amended. The QPP combines features of a defined benefit pension plan with those of a defined contribution pension plan, but is considered a defined-benefit pension plan for financial reporting purposes.

The COVSF, HPOVSF, HPSOVSF, TPOVSF, and TPSOVSF (collectively, the VSFs) operate pursuant to the provisions of Title 13, Chapter 1 of the Administrative Code of the City of New York (ACNY) and provide supplemental benefits as follows:

COVSF: Retired Members of the Uniformed Correction Force (UCF). To be eligible to receive benefits, members of the UCF must retire, on or after July 1, 1999 with 20 or more years of service, and be receiving a service retirement benefit from the QPP.

HPOVSF: QPP retirees who retired for service, with 20 or more years of service as Housing Police Officers and who retired on or after July 1, 1987.

HPSOVSF: QPP retirees who retired for service, with 20 or more years of service as Housing Police Superior Officers and who retired on or after July 1, 1987.

TPOVSF: QPP retirees who retired for service, with 20 or more years of service as Transit Police Officers and who retired on or after July 1, 1987.

TPSOVSF: QPP retirees who retired for service, with 20 or more years of service as Housing Police Superior Officers and who retired on or after July 1, 1987.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
NOTES TO COMBINING FINANCIAL STATEMENTS
JUNE 30, 2017 AND 2016

Under current law, the VSFs are not to be construed as constituting a pension or retirement system. Instead, they provide defined supplemental payments, other than pension or retirement system allowances, in accordance with applicable statutory provisions. While The City guarantees these payments, the New York State Legislature has reserved to itself and the State of New York (the State) the right and power to amend, modify, or repeal the VSFs and the payments they provide. For financial reporting purposes, however, the VSFs are considered single-employer defined benefit pension plans.

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

Boards of Trustees

The QPP's Board of Trustees consists of 11 members; the Mayor's representative is the Chairperson of the Board, Borough Presidents of Manhattan, the Bronx, Brooklyn, Queens, and Staten Island, the Comptroller of The City of New York, the Public Advocate, and Presidents of the three unions with the largest number of participating employees, which are District Council 37 – AFSCME, International Brotherhood of Teamsters, Local 237, and the Transport Workers Union Local 100. The Board of Trustees for the VSFs each have one vote (unless noted otherwise) and consist of the Mayor's representative, the Comptroller and the Commissioner of Finance. Additional trustees are: For the COVSF, an officer of The New York City Correction Officers' Benevolent Association (1 ½ vote) and a representative of the Correction Captains employee organization (1/2 vote). For the HPOVSF, two members of the association designated by the board, each of whom are entitled to cast one vote. For the HPSOVSF, two representatives of the housing police superior officers recognized employee organization, each of whom are entitled to cast one vote. For TPOVSF, two members of the association designated by the board, each of whom are entitled to cast one vote. For TPSOVSF, two representatives of the transit police superior officers recognized employee organization, each of whom are entitled to cast one vote.

At June 30, 2015 and June 30, 2014, the dates of the QPP's most recent completed actuarial valuations, the QPP's membership consisted of:

	2015	2014
Retirees and beneficiaries receiving benefits	144,526	142,095
Terminated vested members not yet receiving benefits	9,402	9,674
Other inactives *	16,907	16,527
Active members receiving salary	185,758	184,762
Total	356,593	353,058

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

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At June 30, 2016 and 2015, the dates of the VSF's most recent actuarial valuations, membership consisted of:

	COVSF		HPOVSF		HPSOVSF		TPOVSF		TPSOVSF	
	2016	2015	2016	2015	2016	2015	2016	2015	2016	2015
Retirees currently receiving payments	7,424	6,850	160	170	220	224	325	333	247	255
Active members	8,815	8,466	-	-	-	-	-	-	-	-
Total	16,239	15,316	160	170	220	224	325	333	247	255

The QPP provides three main types of retirement benefits: Service Retirements, Ordinary Disability Retirements (non-job-related disabilities) and Accident Disability Retirements (job-related disabilities) to members who are in different "Tiers." The members' Tiers are generally determined by the date of membership in the Plan.

The Service Retirement benefits provided by the QPP for employees who joined before July 1, 1973 (Tier 1), fall into four categories according to the level of benefits provided and the years of service required. Three of the four categories provide annual benefits of 50% to 55% of "final salary" (as defined within State statutes and City laws) after 20 or 25 years of service, with additional benefits equal to a specified percentage per year of service (currently 1.2% to 1.7%) of "final salary" payable for years in excess of the 20-year or 25-year minimum. These benefits are reduced on an actuarial basis for any loans with unpaid balances outstanding at the date of retirement. These benefits are increased, where applicable, by an annuity attributable to member contributions in excess of the required amount and by any benefits attributable to the Increased-Take-Home-Pay (ITHP) contributions accumulated after the 25th year of member's 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 QPP 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 additional benefits upon retirement.

The fourth category has no minimum service requirement and instead provides an annual benefit for each year of service equal to a specified percentage (currently 0.7% to 1.53%) of "final salary."

The State Constitution provides that the pension rights of public employees are contractual and shall not be diminished or impaired. In 1973, 1976, 1983, and 2012, significant 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.

Members who joined on or after July 1, 1973 and before July 27, 1976 (Tier 2), have provisions similar to Tier 1, except that the eligibility for retirement and the salary base for benefits are different and there is a limitation on the maximum benefit. This maximum benefit limitation was subsequently eliminated under Chapter 574 of the Laws of 2000 for all Tier 2 members who retired after December 8, 2000.

Members who joined the QPP on or after July 27, 1976 and prior to September 1, 1983 (Tier 3), were later mandated into Tier 4, but could retain their Tier 3 rights. Tier 3 requires member contributions of salary for a period not to exceed 30 years, has benefits reduced by one half of the primary Social Security benefit attributable to service with the Employer, and provides for an automatic 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 10th anniversary of their membership date or completion of ten years of credited service, whichever is earlier.

Members who joined the QPP on or after September 1, 1983 and prior to April 1, 2012 (Tier 4), must make basic contributions of 3.0% of salary until termination of service. Effective October 1, 2000, these members, except for certain Transit Authority employees, are not required to make contributions after the 10th anniversary of their membership date or completion of ten years of credited service, whichever is earlier. Effective December 2000, certain Transit Authority members make basic contributions of 2.0% of salary in accordance with Chapter 10 of the Laws of 2000. Certain members also make additional member contributions. The annual benefit is 1.67% of "final average salary" per year of service for members with less than 20 years of service, 2% of "final average salary" per year of service for members with 20 to 30 years, plus 1.5% of "final average salary" per year of service for service in excess of 30 years.

The QPP also provides death benefits; and certain retirees also receive supplemental benefits.

Subject to certain conditions, members generally become fully vested as to benefits upon the completion of 5 years of service.

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 credits for certain Tier 1 and Tier 2 members and reduced member contributions for certain Tier 3 and Tier 4 members (Chapter 126 of the Laws of 2000).

Subsequent legislation, affecting members of Tiers 2, 3 and 4, has created various improved early retirement benefit programs under which eligible employees may elect to pay additional contributions. Members first employed after the effective date of such legislation are generally mandated into these programs.

Tier 6 — During March 2012, the Governor signed Chapter 18 of the Laws of 2012 (Chapter 18/12) that placed certain limitations on the Tier 3 and Tier 4 benefits available to participants in most New York State PERS who join a system on and after April 1, 2012, including NYCERS. In general, these changes, commonly referred to as Tier 6, increase the age requirement to 63 for most non-uniformed employees to retire and receive a full pension, require member contributions for all years of service for non-uniformed employees, institute progressive member contributions for non-uniformed employees, lengthen the final average salary (FAS) period from 3 to 5 years, cap FAS for non-uniformed employees to an amount equal to the Governor's salary, extend and harmonize the Tier 3 benefits for POLICE and FIRE to other uniformed forces and to DA Investigators and offer an optional defined-contribution plan to certain non-represented employees. Note that the 22-year retirement plans for Correction, Sanitation and DA Investigator members established under Chapter 18/12 are not considered Tier 6 plans.

Certain members of Tier 1 and Tier 2 have the right to make voluntary member contributions (Voluntary Contributions) in excess of their required member contributions (Required Contributions). Both the Voluntary Contributions and the Required Contributions are credited with interest at a statutory rate (currently 8.25% APR). At the time of retirement or refund of contributions, a member's aggregate balance of actual Required Contributions and Voluntary Contributions, including statutory interest, less the outstanding balance of any member loans (Net Actual Contributions), may exceed (Excess of Contributions) or fall short of (Deficiency of Contributions) the member's Expected Balance. The

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Expected Balance is the sum of the Required Contributions which a member should have made during his or her credited service, plus statutory earnings thereon. The amount of the member's retirement annuity or the refund of contributions that he or she is entitled to is increased by any Excess of Contributions or reduced by any Deficiency of Contributions. The total value of members' Excesses of Contributions, net of all Deficiencies of Contributions, has not been determined, for the years ended June 30, 2017 and 2016, respectively. Actuarial estimates of the impacts of Excesses and Deficiencies are incorporated into calculation of the QPP's net pension liability (see footnote 6).

VSF's

COVSF

The COVSF provides supplemental benefits, varying by calendar year according to a schedule and available Fund assets, for those NYCERS members who retire for service as UCF members with 20 (25) or more years of service on or after July 1, 1999. The annual scheduled amount is $8,500 for Calendar Year 2000. The annual scheduled amount increases $500 each year thereafter to a maximum of $12,000 for Calendar Year 2007 and thereafter. In the calendar year of retirement or death, the annual scheduled amount is prorated.

Chapter 255/00 provides that prior to Calendar Year 2019, when COVSF provides for a guaranteed schedule of defined supplemental benefits, benefits are payable in a calendar year only if there are sufficient Fund assets to pay that year's scheduled amounts to all who are entitled to it unless The City guarantee becomes effective. The City guarantee of benefits payable prior to Calendar Year 2019 comes into effect if the market value of assets of the Fund exceeds the actuarial present value of the defined schedule of benefits payable through Calendar Year 2018.

The Funds' Chief Actuary (the Actuary) has also determined that benefits were payable for Calendar Year 2000 through Calendar Year 2005. However, the Actuary determined that no benefits were payable for Calendar Years 2006 through 2013. Benefits were payable for Calendar Years 2014 and 2015. No benefits were payable for Calendar Year 2016. Calculations as of June 30, 2017 are not yet final; however, benefits are expected to be paid for Calendar Year 2017.

In the past, the New York State Legislature, in recognition of inflation, has increased retirement benefits to retirees of its public pension systems. Any increase in the amount of ad-hoc cost-of-living increases (Supplementation) or automatic COLA payable from NYCERS to a retiree of the Fund under legislation enacted on or after December 29, 1999 will reduce benefits payable from the Fund to such retiree by an amount equal to such increase until the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) January 1, 2007.

Chapter 125 of the Laws of 2000 (Chapter 125/00) provided Supplementation benefits from NYCERS for certain retirees who retired before Calendar Year 1997 effective September 2000. In addition, Chapter 125/00 provided future COLA increases from NYCERS beginning September 2001 and on each subsequent September to these retirees.

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HPOVSF

For those Housing Police Officers who became members of NYCERS prior to July 1, 1988, and who retired between July 1, 1987 and December 31, 1991, the annual supplemental benefit was $4,500 for calendar year 1992. For those who retired during 1992, the benefit was a proportion of $4,500. The benefit increases $500 each year thereafter to a maximum of $12,000 in calendar year 2007 and thereafter.

For those who were members of NYCERS prior to July 1, 1988, and who retire after calendar year 1992, the benefit for the first year of retirement is a proportion of the annual scheduled amount as described above for the calendar year of retirement and the full amount thereafter.

For those Housing Police Officers who became members of NYCERS on or after July 1, 1988, the annual supplemental benefit is $2,500 for the first twelve months of retirement, increasing by $500 each year until a maximum of $12,000 is payable in the twentieth and later years of retirement. This was later modified by Chapter 719 of the Laws of 1994 as discussed below.

Chapter 375 of the Laws of 1993 (Chapter 375/93) provided that prior to calendar year 2007, the defined schedules of benefits are payable only if there are sufficient assets available in the Fund, or if the New York City (The City) guarantee comes into effect. The City guarantee of benefits comes into effect prior to calendar year 2007 if the market value of assets of the Fund exceeds the actuarial present value of the defined schedules of benefits payable through calendar year 2006 plus 15% of the assets of the Fund at that time.

Chapter 719 of the Laws of 1994 (Chapter 719/94), signed on August 2, 1994, made further changes to the Fund. Supplemental benefit payments became guaranteed. Also, Housing Police Officers who became members on or after July 1, 1988, will receive the maximum $12,000 benefit beginning in calendar year 2008.

Chapter 255 of the Laws of 2000 (Chapter 255/00) provided that in the event that, for any calendar year covered by a payment guarantee, the assets of the Fund are not sufficient to pay benefits, an amount sufficient to pay such benefits shall be appropriated from the Contingent Reserve Fund of NYCERS and transferred to the Fund. The law also provided that transfers to the Fund for supplemental benefits can begin as early as calendar year 2001, if needed.

In the past, the New York State Legislature, in recognition of inflation, has increased retirement benefits to retirees of its public pension systems. Any increase in the amount of ad-hoc cost-of-living increases (Supplementation) or automatic COLA payable from NYCERS to a retiree of the Fund under legislation enacted on or after January 1, 1993 will reduce benefits payable from the Fund to such retiree by an amount equal to such increase until the following date:

- For a retiree with a date of membership before July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) January 1, 2007.
- For a retiree with a date of membership on or after July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) the earlier of (1) the first day of the month following the 19th anniversary of such retiree's date of retirement and January 1, 2008.

Chapter 119 of the Laws of 1995 (Chapter 119/95) provided additional benefits for Supplementation payable from NYCERS on and after December 1, 1996, for certain retirees of the Fund effective as enacted by the City Council on October 25, 1995.

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Chapter 390 of the Laws of 1998 (Chapter 390/98) provided additional benefits for Supplementation payable from NYCERS on and after September 1, 1998 (with a second benefit increase commencing September 1, 1999).

Chapter 125 of the Laws of 2000 (Chapter 125/00) provided Supplementation benefits from NYCERS for certain retirees who retired before calendar year 1997 effective September 2000. In addition, Chapter 125/00 provided future COLA increases from NYCERS beginning September 2001 and on each subsequent September to eligible retirees.

HPSOVSF

For those Housing Police Superior Officers who became members of NYCERS prior to July 1, 1988 and who retired between July 1, 1987 and December 31, 1992, the annual supplemental benefit was $5,000 in calendar year 1993. For those who retired during 1993, the benefit was a proportion of $5,000. The benefit increases $500 each year thereafter to a maximum of $12,000 in calendar year 2007 and thereafter.

For those who were members of NYCERS prior to July 1, 1988 and who retired after calendar year 1993, the benefit for the first year of retirement is a proportion of the annual scheduled amount as described above for the calendar year of retirement and the full amount thereafter.

For those Housing Police Superior Officers who became members of NYCERS on or after July 1, 1988, the annual supplemental benefit is $2,500 for the first twelve months of retirement, increasing by $500 each year until a maximum of $12,000 is payable in the twentieth and later years of retirement.

Chapter 719 of the Laws of 1994 (Chapter 719/94) provided that after calendar year 2006 payments are guaranteed, while prior to calendar year 2007, the defined schedules of benefits are payable only if there are sufficient assets available in the Fund, or if The City guarantee comes into effect. The City guarantee of benefits comes into effect prior to calendar year 2007 if the market value of assets of the Fund exceeds the actuarial present value of the defined schedules of benefits payable through calendar year 2006 plus 15% of the assets of the Fund at that time.

Chapter 719/94 also provided that, whenever the guarantee of the defined schedules of benefits comes into effect, the Fund will then transfer 15% of the market value of its assets to The City's General Fund.

Based on the calculations of the Funds' Chief Actuary of the Office of the Actuary (the Actuary), The City guarantee of the defined schedules of benefits prior to calendar year 2007 had not yet come into effect as discussed more fully below.

Also, in conjunction with the April 30, 1995 merger of the Housing Police force into the New York City Police Department (the Merger), The City signed a letter of agreement with affected unions to ensure that the payment of benefits provided under the defined schedules prior to calendar year 2007 will be made. Thus, there will be no suspension of benefits prior to calendar year 2007 even if assets of the Fund become insufficient to pay these benefits.

Chapter 255 of the Laws of 2000 (Chapter 255/00) provided that in the event that, for any calendar year covered by a payment guarantee, the assets of the Fund are not sufficient to pay benefits, an amount sufficient to pay such benefits shall be appropriated from the Contingent Reserve Fund of NYCERS and transferred to the Fund. The law also provided that supplemental benefits become guaranteed commencing with calendar year 2001.

In the past, the New York State Legislature, in recognition of inflation, has increased retirement benefits to retirees of its public pension systems. Any increase in the amount of ad-hoc cost-of-living increases (Supplementation) or automatic COLAs payable from NYCERS to a retiree of the Fund under legislation

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enacted on or after January 1, 1994 will reduce benefits payable from the Fund to such retiree by an amount equal to such increase until the following date:

- For a retiree with a date of membership before July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) January 1, 2007.

- For a retiree with a date of membership on or after July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) the first day of the month following the 19th anniversary of such retiree's date of retirement.

Chapter 119 of the Laws of 1995 (Chapter 119/95) provided additional benefits for Supplementation from NYCERS payable on and after December 1, 1996 for certain retirees of the Fund, effective as enacted by The City Council on October 25, 1995.

Chapter 390 of the Laws of 1998 (Chapter 390/98) provided additional benefits for Supplementation payable from NYCERS on and after September 1, 1998 (with a second benefit increase commencing September 1, 1999).

Chapter 125 of the Laws of 2000 (Chapter 125/00) provided Supplementation benefits from NYCERS for certain retirees who retired before calendar year 1997 effective September 2000. In addition, Chapter 125/00 provided future COLA increases from NYCERS beginning September 2001 and on each subsequent September to eligible retirees.

TPOVSF

For those Transit Police Officers who became members of NYCERS prior to July 1, 1988 and who retired between July 1, 1987 and December 31, 1991, the annual supplemental benefit was $4,500 in Calendar Year 1992. For those who retired during 1992, the benefit was a proportion of $4,500. The benefit increases $500 each year thereafter to a maximum of $12,000 in Calendar Year 2007 and thereafter.

For those who were members of NYCERS prior to July 1, 1988, and who retired after Calendar Year 1992, the benefit for the first year of retirement is a proportion of the annual scheduled amount as described above for the calendar year of retirement and the full amount thereafter.

For those Transit Police Officers who became members of NYCERS on or after July 1, 1988, the annual supplemental benefit is $2,500 for the first 12 months of retirement, increasing by $500 each year until a maximum of $12,000 is payable in the twentieth and later years of retirement.

Chapter 577 of the Laws of 1992 (Chapter 577/92) also provided that prior to Calendar Year 2007, the defined schedules of benefits are payable only if there are sufficient assets available in the Fund, or if The City guarantee comes into effect. The City guarantee of benefits comes into effect prior to Calendar Year 2007 if the market value of assets of the Fund exceeds the actuarial present value of the defined schedules of benefits payable through Calendar Year 2006 plus 15% of the assets of the Fund at that time.

Chapter 577/92 also provided that, whenever the guarantee of the defined schedules of benefits comes into effect, the Fund will then transfer 15% of the market value of its assets to The City's General Fund.

As a result of calculations performed by the Funds' Chief Actuary of the Office of the Actuary (the Actuary) during November 1993, The City guarantee became effective.

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Chapter 255 of the Laws of 2000 (Chapter 255/00) provided that in the event that, for any calendar year covered by a payment guarantee, the assets of the Fund are not sufficient to pay benefits, an amount sufficient to pay such benefits shall be appropriated from the Contingent Reserve Fund of NYCERS and transferred to the Fund. The law also provides that transfers to the Fund for supplemental benefits can begin as early as Calendar Year 2001, if needed.

In the past, the New York State Legislature, in recognition of inflation, has increased retirement benefits to retirees of its public pension systems. Any increase in the amount of ad-hoc cost-of-living increases (Supplementation) or automatic COLAs payable from NYCERS to a retiree of the Fund under legislation enacted on or after January 1, 1992 will reduce benefits payable from the Fund to such retiree by an amount equal to such increase until the following date:

- For a retiree with a date of membership before July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) January 1, 2007.
- For a retiree with a date of membership on or after July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) the first day of the month following the 19^{th} anniversary of such retiree's date of retirement.

Chapter 119 of the Laws of 1995 (Chapter 119/95) provided additional benefits for Supplementation payable from NYCERS on and after December 1, 1996, for certain retirees of the Fund effective as enacted by the City Council on October 25, 1995.

Chapter 390 of the Laws of 1998 (Chapter 390/98) provided additional benefits for Supplementation payable from NYCERS on and after September 1, 1998 (with a second benefit increase commencing September 1, 1999).

Chapter 125 of the Laws of 2000 (Chapter 125/00) provided Supplementation benefits from NYCERS for certain retirees who retired before Calendar Year 1997 effective September 2000. In addition, Chapter 125/00 provided future COLA increases from NYCERS beginning September 2001 and on each subsequent September to eligible retirees.

TPSOVSF

For those Transit Police Superior Officers who became members of NYCERS prior to July 1, 1988, and who retired between July 1, 1987 and December 31, 1992, the annual supplemental benefit was $5,000 in calendar year 1993. For those who retired during 1993, the benefit was a proportion of $5,000. The benefit increases $500 each year thereafter to a maximum of $12,000 in calendar year 2007 and thereafter.

For those who were members of NYCERS prior to July 1, 1988, and who retired after calendar year 1993, the benefit for the first year of retirement is a proportion of the annual scheduled amount as described above for the calendar year of retirement and the full amount thereafter.

For those Transit Police Superior Officers who became members of NYCERS on or after July 1, 1988, the annual supplemental benefit is $2,500 for the first 12 months of retirement, increasing by $500 each year until a maximum of $12,000 is payable in the twentieth and later years of retirement.

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Chapter 720 of the Laws of 1994 (Chapter 720/94) also provided that after Calendar Year 2006 payments are guaranteed, while prior to calendar year 2007, the defined schedules of benefits are payable only if there are sufficient assets available in the Fund, or if The City guarantee comes into effect. The City guarantee of benefits comes into effect prior to calendar year 2007 if the market value of assets of the Fund exceeds the actuarial present value of the defined schedules of benefits payable through calendar year 2006 plus 15% of the assets of the Fund at that time.

Chapter 720/94 also provided that whenever the guarantee of the defined schedules of benefits comes into effect, the Fund will then transfer 15% of the market value of its assets to The City's General Fund.

Based on the calculations of the Funds' Chief Actuary of the Office of the Actuary (the Actuary), the City guarantee of the defined schedules of benefits prior to calendar year 2007 had not yet come into effect as discussed more fully below.

Also, in conjunction with the April 2, 1995 merger of the Transit Police force into the New York City Police Department (the Merger), The City signed a letter of agreement with the affected unions to ensure that the payment of benefits provided under the defined schedules prior to calendar year 2007 will be made. Thus, there will be no suspension of benefits prior to calendar year 2007, even if assets of the Fund become insufficient to pay these benefits.

Chapter 255 of the Laws of 2000 (Chapter 255/00) provided that in the event that, for any calendar year covered by a payment guarantee, the assets of the Fund are not sufficient to pay benefits, an amount sufficient to pay such benefits shall be appropriated from the Contingent Reserve Fund of NYCERS and transferred to the Fund. The law also provided that supplemental benefits become guaranteed commencing with calendar year 2001.

In the past, the New York State Legislature, in recognition of inflation, has increased retirement benefits to retirees of its public pension systems. Any increase in the amount of ad-hoc cost-of-living increases (Supplementation) or automatic COLAs payable from NYCERS to a retiree of the Fund under legislation enacted on or after January 1, 1994 will reduce benefits payable from the Fund to such retiree by an amount equal to such increase until the following date:

- For a retiree with a date of membership before July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) January 1, 2007.
- For a retiree with a date of membership on or after July 1, 1988, the later of: (a) the first day of the month following the month such retiree attains age 62 and (b) the first day of the month following the 19th anniversary of such retiree's date of retirement.

Chapter 119 of the Laws of 1995 (Chapter 119/95) provided additional benefits for Supplementation from NYCERS payable on and after December 1, 1996, for certain retirees of the Fund effective as enacted by the City Council on October 25, 1995.

Chapter 390 of the Laws of 1998 (Chapter 390/98) provided additional benefits for Supplementation payable from NYCERS on and after September 1, 1998 (with a second benefit increase commencing September 1, 1999).

Chapter 125 of the Laws of 2000 (Chapter 125/00) provided Supplementation benefits from NYCERS for certain retirees who retired before Calendar Year 1997 effective September 2000. In addition, Chapter 125/00 provided future COLA increases from NYCERS beginning September 2001 and on each subsequent September to eligible retirees.

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2. **SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND PLAN ASSET MATTERS**

Basis of Accounting — The Funds 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 employers makes payroll deductions from Plan members. Employer contributions are recognized when due and the employer has a legal obligation to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the Funds.

Use of Estimates — The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and revenues and expenses during the reporting period. Actual results could differ from those estimates.

Cash and Equivalents — Cash equivalents consist of financial instruments with original maturity dates of three months or less.

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 closing 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 Alternative Investment funds (ALTINVF). The IIF are private funds of publicly traded securities which are managed by various investment managers on behalf of the QPP. Fair value is determined by NYCERS management based on information provided by the various investment managers. The investment managers determine fair value using the last available quoted price for each security owned, adjusted by any contributions to or withdrawals from the fund during the period. The ALTINVF are investments for which exchange quotations are not readily available and are valued at estimated fair value, as determined in good faith by the General Partner (GP). These investments are initially valued at cost with subsequent adjustments that reflect third party transactions, financial operating results, and other factors deemed relevant by the GP. Fair value is determined by plan management based on information provided by the various GPs after review by an independent consultant and the custodian bank for NYCERS.

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.

Income Taxes — Income earned by the QPP and VSFs are not subject to Federal income tax.

Accounts Payable — Accounts payable is principally comprised of amounts owed to the QPP's banks for overdrawn bank balances. The QPP's practice is to fully invest the cash balances of 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. These balances are routinely settled each day.

Accrued Benefits Payable — Accrued benefits payable represent either: (1) benefits due and unpaid by the Funds as of year-end or (2) related to the VSFs, benefits deemed incurred and unpaid (an accrual for a portion of the current calendar year benefit) for the Fiscal Year ended on June 30.

Securities Lending Transactions — State statutes and Board policies permit the QPP 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 QPP'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.

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In return, it receives collateral in the form of cash and U.S. Treasury and U.S. Government agency securities at 102 percent to 105 percent of the principal plus accrued interest for reinvestment. At June 30, 2017, management believes the Plan had no credit risk exposure to borrowers because the amounts the Plan owed the borrowers equaled or exceeded the amounts the borrowers owed the Plan. The contracts with the Plan 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 QPP 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 QPP or the borrowers. Cash collateral is invested in the lending agents' short-term investment pools, which have a weighted average maturity of 47 days. The securities lending program in which QPP participates only allows pledging or selling securities in the case of borrower default. The underlying fixed income securities have an average maturity of 5 years.

During Fiscal Year 2003, the value of certain securities, which had been purchased with cash collateral, became impaired because of the credit failure of the issuer. Accordingly, the carrying amount of the collateral reported in the QPP's statement of plan net position for Fiscal Year 2003 was reduced by $30 million to reflect this impairment and reflect the net realizable value of the securities purchased with collateral from securities lending transactions. In the Fiscal Years 2004 to 2009, the QPP received $20 million from distributions in bankruptcy proceedings from the defaulted issuer, as well as litigation settlements. The Plan has received an additional recoupment of $5,000 during Fiscal Year 2015. The remaining amount due of $1.7 million was written off as a loss.

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 fiduciary net position. 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 without a borrower default. Accordingly, NYCERS recorded the investments purchased with the cash collateral as collateral from securities lending with a corresponding liability for securities lending.

Securities on loan are carried at fair value and the value as of June 30, 2017 and 2016 was $6.9 billion and $5.1 billion. Cash collateral received related to securities lending as of June 30, 2017 and 2016 was $7 billion and $5.3 billion. As of the date of the statements of fiduciary net position, the maturities of the investments made by the Plan with cash collateral, on average, exceed the maturities of the securities loans by approximately 30 days.

GASB Statement No. 72, *Fair Value Measurement and Application* requires the Funds to use valuation techniques which are appropriate under the circumstances and are either a market approach, a cost approach or income approach. GASB 72 establishes a hierarchy of inputs used to measure fair value consisting of three levels. Level 1 inputs are quoted prices in active markets for identical assets or liabilities. Level 2 inputs are inputs, other than quoted prices included within Level 1, that are observable for the asset or liability, either directly or indirectly. Level 3 inputs are unobservable inputs, and typically reflect management's estimates of assumptions that market participants would use in pricing the asset or liability. GASB 72 also contains note disclosure requirements regarding the hierarchy of valuation inputs and valuation techniques that was used for the fair value measurements. There was no material impact on the Funds' financial statements as a result of the implementation of GASB 72.

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3. **INVESTMENTS AND DEPOSITS**

The City Comptroller (the Comptroller) acts as an investment advisor to the Funds administered by NYCERS that have investments (the QPP and COVSF). In addition, the QPP employs an independent investment consultant as an investment advisor. The QPP 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. The COVSF investments are held in a short term investment fund. The other VSFs do not hold investments. The investment policy is approved by the Board of Trustees of the funds within NYCERS. The Boards create the overall investment policy under which the system's funds are invested and, in defining the investment objectives, develops a framework under which specific objectives are established with regard to allocating the assets of the funds among various investment types.

The Funds do not possess an investment risk policy statement. Nor do they actively manage QPP assets to specified risk targets. Rather, investment risk management is an inherent function of our asset allocation process. Assets are diversified over a broad range of asset classes and encompass multiple investment strategies aimed at limiting concentration risk.

The asset allocation targeted for the funds in Fiscal Year 2017 and 2016 included the securities in the following categories:

	2017	2016
Domestic Equities	29.0%	32.6%
International Equity Fund	20.0%	16.9%
Domestic Fixed Income	33.0%	33.5%
Alternative Investments	18.0%	17.0%
Total	100.0%	100.0%

Concentrations – The QPP does not have any investments in any one entity that represents 5% or more of fiduciary net position. The COVSF only holds one investment in a short term investment fund.

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 BB & B rated securities, they can also invest up to 7% of their portfolio in securities rated CCC. Non-rated securities are considered to be non-investment grade. The quality ratings of QPP investments, by percentage of the rated portfolio, as described by nationally recognized statistical rating organizations, are as follows:

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June 30, 2017	Moody's Quality Ratings																Caa & Below	Not	Total
Investment Type	Aaa	Aa1	Aa2	Aa3	A1	A2	A3	Baa1	Baa2	Baa3	Ba1	Ba2	Ba3	B1	B2	B3	Caa1	Rated	
(in percent)																			
U.S. Government	36.64%	0.07%	0.07%	0.02%	0.01%	0.03%	0.12%	0.01%	0.08%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	13.90%	50.99%
Corporate bonds	0.84%	0.29%	0.28%	0.46%	1.43%	1.40%	2.65%	4.37%	4.08%	4.36%	2.44%	1.74%	3.55%	2.77%	2.14%	3.00%	1.95%	5.12%	42.87%
Commercial Paper	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.91%	2.91%
Pooled Fund	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.88%	2.88%
Discount Notes & T-Bills	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.35%	0.35%
Percent of Rated Portfolio	37.48%	0.36%	0.35%	0.48%	1.44%	1.43%	2.77%	4.38%	4.16%	4.40%	2.44%	1.74%	3.55%	2.77%	2.14%	3.00%	1.95%	25.16%	100.00%

June 30, 2016	Moody's Quality Ratings																Caa & Below	Not	Total
Investment Type	Aaa	Aa1	Aa2	Aa3	A1	A2	A3	Baa1	Baa2	Baa3	Ba1	Ba2	Ba3	B1	B2	B3	Caa1	Rated	
(in percent)																			
U.S. Government	10.12%	0.04%	0.10%	0.02%	0.01%	0.02%	0.25%	0.00%	0.11%	0.11%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	23.15%	33.94%
Corporate bonds	1.60%	0.53%	0.73%	0.50%	2.40%	2.41%	4.32%	6.82%	6.53%	6.04%	2.98%	2.47%	3.12%	2.94%	1.58%	2.16%	2.38%	5.42%	54.94%
Commercial Paper	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.74%	5.74%
Pooled Fund	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.83%	4.83%
Discount Notes & T-Bills	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.55%	0.55%
Percent of Rated Portfolio	11.72%	0.57%	0.83%	0.52%	2.41%	2.43%	4.57%	6.82%	6.64%	6.15%	2.98%	2.47%	3.12%	2.94%	1.58%	2.16%	2.38%	39.70%	100.00%

*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.

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The quality ratings of the COVSF investments, by percentage of the rated portfolio, as described by nationally recognized statistical rating organizations, at June 30, 2017 and 2016 are as follows:

COVSF-2017 — Moody's Quality Ratings

Investment Type	Aaa	Aa1	Ba3	B1	B2	B3	Caa & Below Caa1	Not Rated	Total
(in percent)									
U.S. Government	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Corporate bonds	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Commercial Paper	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Pooled Fund	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Discount Notes & T-Bills	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent of Rated Portfolio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
									100.00%

COVSF-2016 — Moody's Quality Ratings

Investment Type	Aaa	Aa1	Ba3	B1	B2	B3	Caa & Below Caa1	Not Rated	Total
(in percent)									
U.S. Government	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Corporate bonds	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Commercial Paper	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Pooled Fund	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Discount Notes & T-Bills	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Percent of Rated Portfolio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
									100.00%

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

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, NYCERS 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 QPP or respective VSF and are held by either the counterparty or the counterparty's trust department or agent but not in the QPP or respective VSF's name.

Consistent with NYCERS' investment policy, the investments are held by the NYCERS' custodian and registered in the name of NYCERS or its Funds.

Cash deposits are insured by the Federal Deposit Insurance Corporation for up to $250,000 per Plan member and are, therefore, insured up to such limit.

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All of the NYCERS deposits are insured and or collateralized by securities held by a financial institution separate from NYCERS depository financial institution.

All of NYCERS' securities are held by NYCERS' custodial bank in NYCERS' name.

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 are used to control the portfolios exposure to interest rate changes. In the investment grade core Fixed Income portfolios duration is limited to a range of 0 to.75 years versus the duration of the benchmark indices. Duration range is a measure of the overall portfolio, while statements of the stated maturity reflect the specific maturities of the individual securities held. NYCERS has no formal risk policy. The lengths of investment maturities (in years) for QPP, as shown by the percent of the rated portfolio, are as follows:

Years to Maturity
Investment Type
(In Thousands)

		Investment Maturities (In Years)			
June 30, 2017	**Fair Value**	**Less Than One Year**	**One to Five Years**	**Six to Ten Rated**	**More Than Ten Years**
U.S. Government	50.99 %	0.77 %	11.87 %	16.35 %	22.00 %
Corporate bonds	42.87	1.36	13.25	18.03	10.23
Commerical paper	2.91	2.91	-	-	-
Pooled funds	2.89	2.89	-	-	-
Discount Notes & T-Bills	0.34	0.34	-	-	-
Percent of rated portfolio	100.00 %	8.27 %	25.12 %	34.38 %	32.23 %

Years to Maturity
Investment Type
(In Thousands)

		Investment Maturities (In Years)			
June 30, 2016	**Fair Value**	**Less Than One Year**	**One to Five Years**	**Six to Ten Rated**	**More Than Ten Years**
U.S. Government	33.82 %	0.39 %	1.68 %	5.52 %	26.23 %
Corporate bonds	54.76	1.44	17.14	20.65	15.52
Commerical paper	5.72	5.72	-	-	-
Pooled funds	5.15	5.15	-	-	-
Discount Notes & T-Bills	0.55	0.55	-	-	-
Percent of rated portfolio	100.00 %	13.25 %	18.82 %	26.17 %	41.75 %

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The length of investment maturities (in years) of the COVSF investments, as shown, by the percent of the rated portfolio, at June 30, 2017 and 2016 are as follows:

	Investment Maturities (In Years)				
Years to Maturity Investment Type June 30, 2017	**Fair Value**	**Less Than One Year**	**One to Five Years**	**Six to Ten Rated**	**More Than Ten Years**
U.S. Government	- %	- %	- %	- %	- %
Corporate bonds	-	-	-	-	-
Shrot-term - Pooled Funds:	100.00	100.00	-	-	-
Percent of rated portfolio	100.00 %	100.00 %	- %	- %	- %

	Investment Maturities (In Years)				
Years to Maturity Investment Type June 30, 2016	**Fair Value**	**Less Than One Year**	**One to Five Years**	**Six to Ten Rated**	**More Than Ten Years**
U.S. Government	- %	- %	- %	- %	- %
Corporate bonds	-	-	-	-	-
Shrot-term - Pooled Funds:	100.00	100.00	-	-	-
Percent of rated portfolio	100.00 %	100.00 %	- %	- %	- %

Foreign Currency Risk — Foreign currency risk is the risk that changes in the exchange rates will adversely impact the fair value of an investment. Currency risk is present in underlying portfolios that invest in foreign stocks and/or bonds. The currency markets have proven to be good diversifiers in a total portfolio context; therefore, NYCERS has numerous managers that invest globally. In general, currency exposure is viewed as a benefit for its diversification reasons and not as an inherent risk within the portfolio. NYCERS has no formal risk policy.

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In addition, the QPP has investments in foreign stocks and/or bonds denominated in foreign currencies. QPP's foreign currency exposures as of June 30, 2017 and 2016 are as follows (amounts in thousands of U.S. dollars):

Trade Currency		2017		2016
Euro Currency	$	2,717,126	$	1,617,805
Japanese Yen		1,674,327		1,011,527
British Pound Sterling		1,381,640		888,069
South Korean Won		1,115,952		832,431
Taiwan Dollar		817,601		600,479
Indian Rupee		692,019		541,808
Swiss Franc		716,251		476,458
South African Rand		459,367		404,313
Brazilian Real		358,508		323,868
Hong Kong Dollar		418,353		281,955
Mexican Nuevo Peso		219,483		196,789
Malaysian Ringgit		197,197		171,724
Australian Dollar		293,234		158,204
Swedish Krona		261,745		140,277
Danish Krone		207,664		112,553
Indonesian Rupiah		148,173		110,542
Turkish Lira		142,901		103,931
Philippines Peso		85,489		86,012
Polish Zloty		103,152		85,090
Canadian Dollar		310,303		71,687
Singapore Dollar		101,127		66,785
Chilean Peso		67,333		58,767
Norwegian Krone		70,838		41,290
Qatari Rial		40,140		34,187
Uae Dirham		35,817		33,130
Thai Baht		172,950		25,980
Colombian Peso		30,195		25,955
Hungarian Forint		22,918		21,101
Czech Koruna		16,192		13,723
New Zealand Dollar		16,311		11,996
Israeli Shekel		25,389		11,566
Moroccan Dirham		12,626		9,764
Egyptian Pound		-		6,969
Peruvian Nuevo Sol		4,000		5,329
Yuan Renminbi		3		2
Total	$	12,936,324	$	8,582,066

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Securities Lending Transactions

Credit Risk — The quality ratings of investments held as collateral for Securities Lending of the QPP at June 30, 2017 and 2016 are as follows:

Investment Type and Fair Value of Securities Lending Transactions (In Thousands)

June 30, 2017	S&P Quality Ratings									
	AAA	AA	AA-	A+	A	A-	BBB+ & Below	CCC & Below	Not Rated	Total
Corporate bonds	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Short-term:										
Reverse repurchase agreement	-	-	520,759	1,526,171	1,360,577	890,000	55,000	-	1,979,772	6,332,279
Money market	-	-	-	-	-	-	-	-	-	-
Bank notes	-	-	-	-	-	-	-	-	-	-
Cash or cash equivalents	-	-	-	698,809	-	-	-	-	-	698,809
Uninvested	-	-	-	-	-	-	-	-	1,751	1,751
Payable/receivable	-	-	-	-	-	-	-	-	1,254	1,254
Total	$ -	$ -	$ 520,759	$ 2,224,980	$ 1,360,577	$ 890,000	$ 55,000	$ -	$ 1,982,777	$ 7,034,093
Percent of securities lending portfolio	0.00%	0.00%	7.40%	31.63%	19.34%	12.65%	0.78%	0.00%	28.20%	100.00%

Investment Type and Fair Value of Securities Lending Transactions (In Thousands)

June 30, 2016	S&P Quality Ratings									
	AAA	AA	AA-	A+	A	A-	BBB+ & Below	CCC & Below	Not Rated	Total
Corporate bonds	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Short-term:										
Reverse repurchase agreement	-	-	318,668	785,758	2,572,854	-	62,862	-	648,212	4,388,354
Money market	342,530	-	-	-	-	-	-	-	-	342,530
Bank notes	-	-	-	-	-	-	-	-	6,431	6,431
Cash	-	-	-	-	525,251	-	-	-	-	525,251
Uninvested	-	-	-	-	-	-	-	-	2,775	2,775
Payable/Receivable	-	-	-	-	-	-	-	-	1,751	1,751
Total	$ 342,530	$ -	$ 318,668	$ 785,758	$ 3,098,105	$ -	$ 62,862	$ -	$ 659,169	$ 5,267,092
Percent of securities lending portfolio	6.50%	0.00%	6.05%	14.92%	58.82%	0.00%	1.19%	0.00%	12.51%	100.00%

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

Years to Maturity
Investment Type
(In thousands)

	Investment Maturities (In Years)				
Junes 30, 2017	**Fair Value**	**Less Than One Year**	**One to Five Years**	**Six to Ten Rated**	**More Than Ten Years**
Short-term:					
Reverse repurchase agreement	$ 6,332,279	$ 6,332,279	$ -	$ -	$ -
Money market	-	-	-	-	-
Bank notes	-	-	-	-	-
Cash	698,809	698,809	-	-	-
Uninvested	3,005	3,005	-	-	-
Total	$ 7,034,093	$ 7,034,093	$ -	$ -	$ -

Years to Maturity
Investment Type
(In thousands)

	Investment Maturities (In Years)				
Junes 30, 2016	**Fair Value**	**Less Than One Year**	**One to Five Years**	**Six to Ten Rated**	**More Than Ten Years**
Short-term:					
Reverse repurchase agreement	$ 4,388,354	$ 4,388,354	$ -	$ -	$ -
Money market	342,530	342,530	-	-	-
Bank notes	103,672	103,672	-	-	-
Cash	428,010	428,010	-	-	-
Uninvested	2,775	2,775	-	-	-
Payable/Receivable	1,751	1,751			
Total	$ 5,267,092	$ 5,267,092	$ -	$ -	$ -

Rate of Return – For the years ended June 30, 2017 and 2016, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, for the Funds were as follows:

	2017	**2016**
QPP	12.99%	1.45%
COVSF	0.64%	0.19%

The money-weighted rate of return expresses investment performance, net of investment expense adjusted for the changing amounts actually invested.

In Fiscal Year 2015, the Fund adopted GASB Statement No. 72 (GASB 72), *Fair Value Measurement and Application*. GASB 72 was issued to address accounting and financial reporting issues related to fair value measurements.

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The Fund categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. The Fund has the following recurring fair value measurements as of June 30, 2017 and June 30, 2016:

	2017			
	Level One	Level Two	Level Three	Total
GASB 72 Disclosure				
(in thousands)				
INVESTMENTS – At fair value				
Short-term investments:				
Commercial Paper	$ -	$ 422,635	$ -	$ 422,635
Short-term investment fund	-	498,958	-	498,958
U.S. treasury bills and agencies	-	49,816	-	49,816
Discount notes	-	158,568	-	158,568
Short term hedge fund	-	-	-	-
Debt securities:				-
U.S. government and agency	-	7,299,927		7,299,927
Corporate and other	-	6,040,386	180,673	6,221,059
Equity securities	18,954,811	85	1,406	18,956,302
Alternative investments	-	-	9,162,968	9,162,968
Hedge Fund Investment	-	-	-	-
Collective trusts funds:				-
International equity	13,357,564	1	2,639	13,360,204
Mortgage debt security	-	106,404	534,546	640,950
Domestic equity	-	-	-	-
Treasury inflation protected securities	-	2,531,110	-	2,531,110
Fixed income	-	353,538	1,032,569	1,386,107
Collateral from securities lending	-	7,034,093	-	7,034,093
Total investments	$ 32,312,375	$ 24,495,521	$ 10,914,801	$ 67,722,697
Alternative Investments valued at net asset value				95,987
Total				$ 67,818,684

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	2016			
	Level One	Level Two	Level Three	Total
GASB 72 Disclosure				
(in thousands)				
INVESTMENTS – At fair value				
Short-term investments:				
Commercial Paper	$ -	$ 11,073	$ -	$ 11,073
Short-term investment fund	-	739,639	-	739,639
U.S. treasury bills and agencies	-	804,328	-	804,328
Discount notes	-	59,860	-	59,860
Short term hedge fund	-	-	-	-
Debt securities:				
U.S. government and agency	-	4,289,153	-	4,289,153
Corporate and other	-	6,962,773	194,650	7,157,423
Equity securities	18,523,033	-	-	18,523,033
Alternative investments	-	-	8,749,183	8,749,183
Collective trusts funds:				
International equity	8,801,003	419,892	-	9,220,895
Mortgage debt security	-	109,589	498,096	607,685
Domestic equity	-	-	-	-
Treasury inflation protected securities	-	2,448,307	-	2,448,307
Fixed income	6,498	79,785	935,862	1,022,145
Collateral from securities lending	-	5,267,092	-	5,267,092
Total investments	$ 27,330,534	$ 21,191,491	$ 10,377,791	$ 58,899,816
Alternative Investments valued at net asset value				1,123,861
Total				$ 60,023,677

Equity and Fixed Income Securities

Equity securities classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets issued by pricing vendors for these securities. Debt and equity securities classified in Level 2 of the fair value hierarchy are valued using prices determined by the use of matrix pricing techniques maintained by the various pricing vendors for these securities. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices. Debt and equity securities classified in Level 3 are securities whose stated market price is unobservable by the market place, many of these securities are priced by the issuers or industry groups for these securities. Fair value is defined as the quoted market value on the last trading day of the period. These prices are obtained from various pricing sources by our custodian bank. Debt and equity securities held in Collective Trust Funds are held in those funds on behalf of the pension system and there is no restriction on the use and or liquidation of those assets for the exclusive benefit of the funds participants.

Alternative Investments

Alternative investments include private equity, real estate, opportunistic fixed income, and infrastructure investments. These are investments for which exchange quotations are not readily available and are valued at estimated fair value, as determined in good faith by the General Partner (GP). These investments are initially valued at cost with subsequent adjustments that reflect third party transactions, financial operating results and other factors deemed relevant by the GP. The assets in our alternative investment program are classified as Level 3 assets. A more detailed explanation of the Level 3 valuation methodologies follows:

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Investments in non-public equity securities are valued by the GP using one or more valuation methodologies outlined in ASC 820, depending upon the availability of data required by each methodology. In some cases, the GP may use multiple approaches to estimate a valuation range. For the immediate time period following a transaction, the determination of fair value for equity securities, in which no liquid trading market exists, can generally be approximated based on the transaction price (absent any significant developments)

Thereafter, or in the interim, if significant developments relating to such portfolio company or industry occur which may suggest a material change in value, the GP should value each investment by applying generally accepted valuation methods including: (1) the market approach (such as market transaction and comparable public company multiples, which are based on a measurement of the company's historical and projected financial performance with typical metrics including enterprise value/latest 12 months EBITDA or projected fiscal year EBITDA) or (2) the income or discounted cash flow approach.

In the market approach, valuation multiples that are relevant to the industry and company in the investments held should be considered and relied upon. Valuation multiples should be assessed and may be adjusted on a go-forward basis based on the business risk associated with the subject company in which the investment is held. In addition, the implied entry multiples should be considered as benchmarks in valuing unlisted equity. In circumstances where no financial performance metrics are available, the GP should rely on other non-financial related metrics applicable to relevant progress from the original investment date to the valuation date. In the income or discounted cash flow approach, forecasted cash flows that may be generated by the subject company are discounted to present value at an appropriate discount rate. These methodologies can be utilized to determine an enterprise value (Enterprise Valuation Methodologies) from which net debt is subtracted to estimate equity value.

The determination of fair value using these methodologies should take into consideration a range of factors, including but not limited to, the price at which the investment was acquired, the nature of the investment, local market conditions, trading values on public exchanges for comparable securities, current and projected operating performance and financing transactions subsequent to the acquisition of the investment. Because of the subjective nature of estimated fair value of the private investments, such value may differ significantly from the values that would have been used had a ready market existed for these investments. These financial instruments have been classified as Level 3 in the fair value hierarchy.

In accordance within the scope of paragraphs 820-10-15-4, alternative investments that are measured at fair value using the net asset value per share (or its equivalent) practical expedient in paragraph 820-10-35-59 have not been classified in the fair value hierarchy. The fair value quantities presented in the table are intended to permit reconciliation of the fair value hierarchy to the amounts presented in the entity's financial statements.

Certain alternative investments have additional future commitments. Others have redemption notice requirements and redemption restrictions. Management does not believe these commitments, notice requirements, and redemption restrictions have a material effect on the fair value of the portfolio of investments.

4. TRANSFER TO VARIABLE SUPPLEMENTS FUNDS

The Administrative Code of the City of New York (ACNY) provides that the QPP transfer to the VSFs an amount equal to certain excess earnings in equity investments, limited to the unfunded Accumulated Benefit Obligation (ABO) for each VSF. Excess earnings are defined as the amount by which earnings on equity investments of the QPP exceed what the earnings would have been had such funds been invested at a yield comparable to that available from fixed income securities (Hypothetical Fixed Income Security Earnings or HFISE), less any cumulative deficiencies of prior years' excess earnings that fell below the yield of fixed income investments.

The calculation of the Hypothetical Fixed Income Security Earnings requires the determination of the Hypothetical

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Interest Rate (HIR), which is computed by the Comptroller.

Due to the merging of Housing Police and Transit Police into The City's Police Department, there are no active members of the Housing Police and Transit Police; therefore, excess earnings on equity investments from the QPP, if any, do not produce any transfers to the HPOVSF, HPSOVSF, TPOVSF and TPSOVSF (collectively, the Housing and Transit Police VSFs).

However, with the passage of Chapter 255/00, the QPP is required to transfer assets to the Housing and Transit Police VSFs whenever the assets of these VSFs are not sufficient to pay benefits. Such funding is provided through The City's annual required contributions to the QPP, which serves as the initial source of funding of VSF benefits. With respect to the benefits payable from HPSOVSF for Fiscal Years 2017 and 2016, the QPP was required to transfer approximately $2.6 million and $2.6 million, respectively. With respect to the benefits payable from TPSOVSF, for Fiscal Years 2017 and 2016, the QPP was required to transfer approximately $3.0 million and $3.0 million, respectively. With respect to the benefits payable from HPOVSF for Fiscal Years 2017 and 2016, the QPP was required to transfer approximately $1.9 million and $2.0 million, respectively. With respect to the benefits payable from TPOVSF for Fiscal Years 2017 and 2016, the QPP was required to transfer approximately $3.8 million and $3.9 million, respectively.

With respect to the COVSF, for Fiscal Year 2017, the excess earnings of the QPP, inclusive of prior years' cumulative deficiencies exceeded zero and a liability and transfer of $281 million, is due from the QPP to COVSF as of and for the year end June 30, 2017. For Fiscal Year 2016, the excess earnings of the QPP, inclusive of prior years' cumulative deficiencies, was estimated to be equal to zero and, therefore, no transfer was due from the Plan to the COVSF as of June 30, 2016.

The amount shown below as the ABO is a measure of the present value of scheduled supplemental benefits estimated to be payable in the future as a result of employee service-to-date. The ABO is calculated as the actuarial present value of credited projected benefits, prorated on service and is intended to help users assess the funded status of the Fund on an ongoing-concern basis, assess progress made in accumulating sufficient assets to pay benefits when due and make a comparison among VSFs.

Actuarial valuations of the VSFs are performed annually as of June 30.

A comparison of the ABO as calculated by the Actuary, with the net position restricted for pensions for the COVSF, HPOVSF, HPSOVSF, TPOVSF and TPSOVSF as of June 30, 2016 and June 30, 2015 follows (in millions):

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	COVSF*		HPOVSF		HPSOVSF		TPOVSF		TPSOVSF		Total	
	2016	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016	2015
Accumulated benefit obligation**												
Retirees currently receiving benefits	$ 1,019.1	$ 945.7	$ 15.0	$ 16.2	$ 20.9	$ 21.9	$ 30.7	$ 32.2	$ 23.4	$ 24.7	$ 1,109.1	$ 1,040.7
Active Members	338.2	348.8	-	-	-	-	-	-	-	-	338.2	348.8
Total accumulated benefit obligation	$ 1,357.3	$ 1,294.5	$ 15.0	$ 16.2	$ 20.9	$ 21.9	$ 30.7	$ 32.2	$ 23.4	$ 24.7	$ 1,447.3	$ 1,389.5
Net position held in trust for benefits	46.9	179.4	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	46.9	179.4
Unfunded accumulated benefit obligation	$ 1,310.4	$ 1,115.1	$ 15.0	$ 16.2	$ 20.9	$ 21.9	$ 30.7	$ 32.2	$ 23.4	$ 24.7	$ 1,400.4	$ 1,210.1

* Includes all non-guaranteed payments.

**Based on actuarial assumptions adopted by the Board of Trustees of the QPP during Fiscal Year 2012, with revisions adopted during Fiscal Year 2016.

For purposes of the June 30, 2016 and June 30, 2015 actuarial valuations of the Fund, Chapter 125/00 has been taken into account in the determination of the unfunded ABO related to the Supplementation benefit increases that began Fiscal Year 2001 and the automatic COLA that began Fiscal Year 2002 (see Note 1).

The June 30, 2016 and June 30, 2015 ABO's decreased by approximately $13.1 million and $13.4 million respectively, in actuarial liabilities attributable to Chapter 125/00.

Section 13-194 of the ACNY provides that the Board of Trustees of NYCERS shall adopt, upon the recommendation of the Actuary, actuarial assumptions as to interest rate, mortality of retirees and estimated number of active UCF members of NYCERS as of each June 30 who are expected to retire from service with at least 20 or 25 years of service as UCF members, depending on the Plan for use in making annual valuations of liabilities.

The following actuarial assumptions represent the recommendations of the Actuary and were used in the actuarial calculations to determine the preceding ABOs as of June 30, 2016 and June 30, 2015:

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	June 30, 2016	June 30, 2015
Investment rate of return	7.0% per annum.[1]	7.0% per annum.[1]
Post-retirement mortality	Tables adopted by NYCERS during Fiscal Year 2016 based on recent experience of UCF members of NYCERS for COVSF and on recent experience of POLICE for HPOVSF, HPSOVSF, TPOVSF and TPSOVSF.	Tables adopted by NYCERS during Fiscal Year 2016 based on recent experience of UCF members of NYCERS for COVSF and on recent experience of POLICE for HPOVSF, HPSOVSF, TPOVSF and TPSOVSF.
Active service: withdrawal death, and disability	Tables adopted by NYCERS during Fiscal Year 2012 based on recent experience of UCF members of NYCERS for COVSF. NA for HPOVSF, HPSOVSF, TPOVSF and TPSOVSF.	Tables adopted by NYCERS during Fiscal Year 2012 based on recent experience of UCF members of NYCERS for COVSF. NA for HPOVSF, HPSOVSF, TPOVSF and TPSOVSF.
Service retirement	Tables adopted by NYCERS during Fiscal Year 2012 based on recent experience of UCF members of NYCERS for COVSF. Varies from earliest age member is eligible to retire (age at completion of 20 years (25 years) of service) until age 63. Not applicable for HPOVSF, HPSOVSF, TPOVSF and TPSOVSF.	Tables adopted by NYCERS during Fiscal Year 2012 based on recent experience of UCF members of NYCERS for COVSF. Varies from earliest age member is eligible to retire (age at completion of 20 years (25 years) of service) until age 63. Not applicable for HPOVSF, HPSOVSF, TPOVSF and TPSOVSF.
COLA adjustments for future NYCERS' COLA benefits[1]	1.5% per annum for Auto COLA 2.5% per annum for Escalation.	1.5% per annum for Auto COLA 2.5% per annum for Escalation.

[1] Developed assuming a long-term Consumer Price Inflation assumption of 2.5% per year.

5. QPP CONTRIBUTIONS

The financial objective of the QPP 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. The Employer contributes amounts that, together with Member Contributions and investment income, are intended to ultimately be sufficient to accumulate assets to pay benefits when due.

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. The member normal rate, which is dependent upon age and actuarial tables in effect at the time of membership, is determined so as to provide approximately one-fourth of the service retirement allowance at the earliest age for service retirement. For age at membership equal to 20, the member normal rate ranges between 5.80% and 9.10%. For age at membership equal to 40, the member normal rate ranges between 4.30% and 4.80%.

Members who joined on or after July 27, 1976 and before April 1, 2012, are mandated to contribute 3.0% of salary during all years of coverage except for Department of Correction members who contribute 3.0% for not more than 30 years. Effective October 1, 2000, certain members are not required to make contributions after the 10th anniversary of their membership date or completion of ten years of credited service, whichever is earlier. In addition, certain members who are Tier 2 or Tier 3 corrections officers and certain other Tier 2 and Tier 4 members contribute additional amounts ranging from 1.85% to 7.46% for improved early retirement benefits.

Members who join on and after April 1, 2012 (Tier 6), are mandated to contribute Basic Member Contributions (BMC) until they separate from City service or until they retire. The BMC rate is dependent on annual wages earned during a plan year and ranges from 3.0% for salaries up to $45,000 and as much as 6.0% for salaries greater than $100,000.

In addition to the BMC, Tier 6 Special Plan members must contribute Additional Member Contributions (AMC). The AMC rate is plan-specific. Tier 6 Special Plan members must contribute AMC until they attain 30 years of service or retire, whichever comes first, except for TBTA 20/50 Plan members who must contribute AMC for 20 years.

Uniformed members of the Department of Correction, uniformed members of the Department of Sanitation and District Attorney (DA) Investigator members employed in a District Attorney office, who became employed in one of these titles on or after April 1, 2012, participate in a 22-year Plan. These members are required to contribute 3% of gross wages until the later of 25 years of service or until they retire, except DA Investigator members who must contribute 3% of gross wages until they retire.

Employer Contributions — Statutorily-required contributions (Statutory Contributions) to the QPP, determined by the Funds' Chief Actuary of the Office of the Actuary (the "Actuary") in accordance with State statutes and City laws, are generally funded by the Employer within the appropriate fiscal year. The Statutory Contribution for the year ended June 30, 2017, based on an actuarial valuation as of June 30, 2015 was $3,328,193 million, and the Statutory Contribution for the year ended June 30, 2016, based on an actuarial valuation as of June 30, 2014 was $3,365,454 million. The Statutory Contributions for Fiscal Years 2017 and 2016 were equal to the Actuarial Contributions. Refer to the Schedule of Employer Contributions in the accompanying required supplementary information for more information on the actuarial methods and assumptions applied by the Actuary to determine Statutory Contributions.

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6. NET PENSION LIABILITY

The components of the net pension liability of the Employer at June 30, 2017 and 2016, for the Funds, were as follows (in thousands):

	(in thousands)						
June 30, 2017	**QPP**	**COVSF**	**HPOVSF**	**HPSOVSF**	**TPOVSF**	**TPSOVSF**	**TOTAL**
Total pension liability	$ 80,897,611	$ 1,432,384	$ 15,685	$ 21,061	$ 30,950	$ 23,777	$ 82,421,468
Fiduciary net position 1	61,322,275	332,684	69	58	45	70	61,655,201
Employers' net pension liability	$ 19,575,336	$ 1,099,700	$ 15,616	$ 21,003	$ 30,905	$ 23,707	$ 20,766,267
Fiduciary net position as a percentage of the total pension liability	75.80%	23.23%	0.44%	0.28%	0.15%	0.29%	74.80%

	(in thousands)						
June 30, 2016	**QPP**	**COVSF**	**HPOVSF**	**HPSOVSF**	**TPOVSF**	**TPSOVSF**	**TOTAL**
Total pension liability	$ 78,411,108	$ 1,331,930	$ 16,498	$ 22,394	$ 32,415	$ 24,790	$ 79,839,135
Fiduciary net position 1	55,495,228	46,942	30	44	29	40	$ 55,542,313
Employers' net pension liability	$ 22,915,880	$ 1,284,988	$ 16,468	$ 22,350	$ 32,386	$ 24,750	$ 24,296,822
Fiduciary net position as a percentage of the total pension liability	70.77%	3.52%	0.18%	0.20%	0.09%	0.16%	69.57%

[1] Such amounts represent the preliminary Funds' fiduciary net position and may differ from the final Funds' fiduciary net position.

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Actuarial Methods and Assumptions

The total pension liability as of June 30, 2017 and 2016, were determined by actuarial valuations as of June 30, 2015 and June 30, 2014, respectively that were rolled forward to develop the total pension liability to the respective fiscal year end. The following actuarial assumptions were applied to all periods included in the measurement:

Projected Salary Increases	In general, merit and promotion increases, plus assumed General Wage Increases of 3.0% per annum
Investment Rate of Return	7.0% per annum, net of Investment Expenses
	1.5% per annum for Auto COLA. 2.5% per annum for Escalation.

The above assumptions were developed assuming a long-term Consumer Price Inflation assumption of 2.5% per annum.

Mortality tables for Service and Disability pensioners were developed from an experience study of the QPP's pensioners. Mortality tables for beneficiaries were also developed from an experience study of the QPP's beneficiaries.

Pursuant to Section 96 of the New York City Charter, studies of the actuarial assumptions used to value liabilities of the five actuarially-funded NYCRS are conducted every two years.

The June 30, 2015 (Lag) actuarial valuation was used to determine the Fiscal Year 2017 Employer Contributions. There were no changes in actuarial assumptions and methods from the prior actuarial valuation.

The June 30, 2010 (Lag) actuarial valuation used to determine the Fiscal Year 2012 Employer Contributions was based on revised actuarial assumptions and methods proposed by the Actuary (the "2012 A&M"). The Board of Trustees of the Plan adopted those changes to the actuarial assumptions and methods that require Board approval during Fiscal Year 2012. The New York State Legislature and the Governor enacted Chapter 3 of the Laws of 2013 (Chapter 3/13) to provide for those changes in actuarial assumptions and methods that require legislation, including the Actuarial Interest Rate (AIR) assumption of 7.0% per annum, net of investment expenses, the Entry Age Actuarial Cost Method and the amortization of Unfunded Actuarial Accrued Liabilities.

Beginning with the June 30, 2010 (Lag) actuarial valuation under the 2012 A&M, the Entry Age Actuarial Cost Method ("EAACM") of funding is utilized by the Plan's Actuary to calculate the contribution required of the Employer.

Under this method, the Actuarial Present Value (APV) of Benefits (APVB) of each individual included in the actuarial valuation is allocated on a level basis over the earnings (or service) of the individual between entry age and assumed exit age(s). The employer portion of this APV allocated to a valuation year is the Normal Cost. The portion of this APV not provided for at a valuation date by the APV of Future Normal Costs or future member contributions is the Actuarial Accrued Liability (AAL).

The excess, if any, of the AAL over the Actuarial Asset Value (AAV) is the Unfunded Actuarial Accrued Liability (UAAL).

Under this method, actuarial gains (losses), as they occur, reduce (increase) the UAAL and are explicitly identified and amortized.

Increases (decreases) in obligations due to benefit changes, actuarial assumption changes and/or actuarial method changes are also explicitly identified and amortized.

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The Fiscal Year 2017 and Fiscal Year 2016 Employer Contributions do not reflect any potential impact related to the bankruptcy filing on December 3, 2009 by the New York City Off-Track Betting Corporation (OTB) and to its shutdown on December 7, 2010. The results were developed herein assuming OTB is an ongoing concern.

The APV of projected benefits includes the obligations of the Plan to the HPOVSF, the HPSOVSF, the TPOVSF, the TPSOVSF and the COVSF (referred to collectively as the NYCERS VSFs), which are recognized through the Liability Valuation Method.

Under this method, the APV of Future SKIM from the Plan to the NYCERS VSFs is included directly as an actuarial liability of the Plan. SKIM is all or a portion of the excess earnings on equity securities of the Plan which are transferrable to the NYCERS VSFs. The APV of Future SKIM is computed as the excess, if any, of the APV of benefits of each individual NYCERS VSF offset by the AAV of that individual NYCERS VSF, respectively. Under the EAACM, a portion of the APV of Future SKIM is reflected in the APV of Future Normal Costs and a portion is reflected in the UAAL.

The concept in use for the Actuarial Asset Valuation Method (AAVM) for actuarial valuations on and after June 30, 2012 is the same as that in use for the June 30, 2009 (Lag) actuarial valuation.

In accordance with this AAVM, actual Unexpected Investment Returns (UIR) for Fiscal Years 2012, 2013, etc. are phased into the Actuarial Asset Value (AAV) beginning June 30, 2012, June 30, 2013, 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).

The Actuary reset the Actuarial Asset Value to the Market Value of Assets (MVA) as of June 30, 2011 (i.e., Market Value Restart).

For the June 30, 2010 (Lag) actuarial valuation, the AAV is defined to recognize Fiscal Year 2011 investment performance. The June 30, 2010 AAV is derived as equal to the June 30, 2011 MVA, discounted by the AIR assumption (adjusted for cash flow) to June 30, 2010.

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Expected Rate of Return on Investments

The long-term expected rate of return on pension plan investments was determined using a building block method in which best-estimate ranges of expected real rates of return (i.e., expected returns, net of investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected real rates of return by the target asset allocation percentage and by adding expected inflation. The target asset allocation and best estimates of arithmetic real rates of return for each major asset class are summarized in the following table:

Asset Class	Asset Allocation	Expected Real Rate of Return
U.S. Public Markets Equities	29.00%	5.70%
International Public Markets Equities	13.00%	6.10%
Emerging Public Markets Equities	7.00%	7.60%
Private Market Equities	7.00%	8.10%
Fixed Income (Core, TIPS, High Yield, Opportunistic, Convertibles)	33.00%	3.00%
Alternatives (Real Assets, Hedge Funds)	11.00%	4.70%
Total	100.00%	

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Discount Rate

The discount rate used to measure the total pension liability as of June 30, 2017 and 2016 was 7.0% per annum. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that City's contributions will be made in accordance with the Statutory contributions determined by the Actuary. Based on those assumptions, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

The following presents the net pension liability of the Employer for the Plans, calculated using the discount rate of 7.0%; as well as what the Employer's net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower (6.0%) or 1-percentage point higher (8.0%) than the current rate.

(In thousands) Employer net pension liability June 30, 2017	1% Decrease (6%)	Discount Rate (7%)	1% Increase (8%)
QPP	$ 28,666,146	$ 19,575,336	$ 11,582,982
COVSF	1,249,079	1,099,700	974,576
HPOVSF	16,632	15,616	14,710
HPSOVSF	22,437	21,003	19,732
TPOVSF	32,956	30,905	29,080
TPSOVSF	25,290	23,707	22,301
Total	$ 30,012,540	$ 20,766,267	$ 12,643,381

7. MEMBER LOANS

In general, members are permitted to borrow up to 75% of their own contributions, including accumulated interest. The balance of member loans receivable at June 30, 2017 and 2016 is $1.1 billion and $1.1 billion, respectively.

8. RELATED PARTIES

The Comptroller of The City of New York has been appointed by law as custodian for the assets of NYCERS. Securities are held by certain banks under custodial agreements with the Comptroller. The Comptroller also provides cash receipt and cash disbursement services to NYCERS. Actuarial services are provided to NYCERS 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 NYCERS. Other administrative services are also provided by the City.The aforementioned services are provided by employees or officers of The City who may also be participants in NYCERS.

9. ADMINISTRATIVE AND INVESTMENT EXPENSES

Chapter 593 of the Laws of 1996, effective July 1, 1997, authorized the Board of Trustees to draw upon QPP assets to pay the administrative expenses incurred by the QPP. Prior to that year, The City had directly paid all QPP administrative expenses. Under Chapter 593/96, both the administrative and investment expenses were billed to the participating employers in the following year. Under Chapter 152 of the Laws of 2006, those expenses are billed in the second following fiscal year.

In Fiscal Year 2017, the total non-investment expenses attributable to the Plan were approximately $67 million, of which $59.7 million was paid from the assets of the QPP and $7.3 million was incurred on behalf of the QPP by

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other City agencies. In Fiscal Year 2016, the total non-investment expenses attributable to the Plan were approximately $61.7 million, of which $56.7 million was paid from the assets of the QPP and $5.0 million was incurred on behalf of the QPP by other City agencies.

Investment expenses, exclusive of fees related to securities lending transactions, for Fiscal Year 2017 were $225.6 million, of which $223.7 million was charged to the investment earnings of the Plan; and $1.9 million was incurred by the Comptroller's Office. Investment expenses, exclusive of fees related to securities lending transactions, for Fiscal Year 2016 were $213.7 million, of which $213.0 million was charged to the investment earnings of the Plan; and $0.7 million was incurred by the Comptroller's Office.

During Fiscal Year 2000, the Plan entered into a new lease agreement to rent office space for its headquarters. The agreement expires in 2020, with options to renew the agreement through 2030. The future minimum rental payments required under this operating lease are shown in the table below.

Rent expenses, under the lease agreement, for the Fiscal Years ended June 30, 2017 and 2016, were approximately $4.5 million and $4.7 million, respectively.

During Fiscal Year 2006, the Plan entered into a new lease agreement to rent office space for a business recovery site in case its headquarters was not operational. The agreement expired in 2016, and the Plan exercised the options to renew the agreement through April 2021. The future minimum rental payments required under the renewed lease are shown in the table below.

Rent expenses, under the lease agreement, for the Fiscal Years ended June 30, 2017 and 2016, were approximately $927 thousand and $531 thousand, respectively.

	Headquarters		Business Recovery Site
Fiscal Years Ending	Minimum Rental Payments	Fiscal Years Ending	Minimum Rental Payments
2018	4,535,336	2018	1,234,278
2019	4,535,366	2019	1,262,087
2020	4,535,366	2020	1,290,507
		2021	1,319,538

10. CONTINGENT LIABILITIES AND OTHER MATTERS

Contingent Liabilities — The Fund has a number of claims pending against it and has been named as a defendant in a number of lawsuits and also has certain other contingent liabilities. Management of the Plan, on the advice of legal counsel, believes that such proceedings and contingencies will not have a material effect on the plan's net position or changes in the plan's net position. Under the State statutes and City laws that govern the functioning of the Fund, increases in the obligations of the Fund to members and beneficiaries ordinarily result in increases in the obligations of the employers to the Fund.

Other Matters — During Fiscal Years 2016 and 2015, certain events described below took place which, in the opinion of Fund management, could have the effect of increasing benefits to members and/or their beneficiaries and therefore would increase the obligations of the Fund. 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 the net position restricted for benefits or cause changes in the plan net position held in trust for pension benefits.

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 NYCRS are conducted every two years. Refer to Note 5 for a discussion of the most recent actuarial studies for NYCRS.

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

OTB Bankruptcy — During December 2009, the New York City Off-Track Betting Corporation (OTB) filed a petition with the United States Bankruptcy Court of the Southern District of New York under Chapter 9 of the Bankruptcy Code.

The Fiscal Year 2017 and Fiscal Year 2016 employer contributions do not take into account OTB's filing. The Fiscal Year 2017 and Fiscal Year 2016 employer contributions, and the allocation to OTB, assumed that OTB was a going-concern. Any amounts due but unpaid by OTB for Fiscal Year 2017 and Fiscal Year 2017 are treated as a receivable that is expected to be paid in full.

New York State Legislation (only significant laws since Fiscal Year 2012 are included) —

Chapter 18 of the Laws of 2012 placed certain limitations on Tier 3 and Tier 4 benefits available to participants hired on and after April 1, 2012 in most New York State PERS, including NYCERS. Some of the provisions in this law are commonly referred to as Tier 6.

Chapter 3 of the Laws of 2013 (Chapter 3/13) implemented changes in the actuarial procedures for determining Employer Contributions beginning Fiscal Year 2012. In particular, Chapter 3/13 continued the One-Year Lag Methodology (OYLM), employed the Entry Age Actuarial Cost Method (EAACM), an Actuarial Interest Rate (AIR) assumption of 7.0% per annum, net of expenses and defined the amortization of Unfunded Actuarial Accrued Liabilities (UAAL).

Chapter 489 of the Laws of 2013 extended the Notice of Participation filing deadline to September 11, 2014 for vested members to file a sworn statement indicating participation in the World trade Center Rescue, Recovery, and Clean-up Operations.

Chapter 427 of the Laws of 2014 (Chapter 427/14) provides non-contributory retirement service credit for members called to active military duty on or after September 11, 2001 and prior to January 1, 2006 who did not receive their full salary from a participating employer and is otherwise eligible to receive retirement service credit for such service. Such member would not be required to make member contributions to receive such credit.

Chapter 510 of the Laws of 2015 clarifies for Tier 6 the definition of multiple employers for the purpose of exclusion of wages and changes the plan year for contributions from plan year April 1 to March 31 to plan year January 1 to December 31.

Chapter 41 of the Laws of 2016 removes the specified periods of time, medal requirements, and theaters of operation in which military service would had to have been rendered for a service purchase pursuant to New York State Retirement and Social Security Law ("RSSL") § 1000. Accordingly, for a member to be eligible to purchase service credit pursuant to RSSL § 1000 for pre-membership military service, the member need only have been honorably discharged from the military; all other requirements of RSSL § 1000 remain the same. This law is not retroactive and does not permit retired members to purchase service credit.

Petition for Retirement Benefit Enhancement, dated August 15, 2016 and signed by the Mayor on August 30, 2016, provides enhanced disability benefits for Accidental Disability Retirement and Ordinary Disability Retirement benefits for Sanitation Workers. Sanitation Workers who become 22-Year Plan members before January 1, 2017 have the option to elect participation in the Enhanced Disability Benefits. Sanitation Workers who become 22-Year Plan members on and after January 1, 2017 are mandated into the Enhanced Disability Benefits. Members electing or mandated into this benefit will pay an extra 1.3% of wages.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
NOTES TO THE COMBINING FINANCIAL STATEMENTS
JUNE 30, 2017 AND 2016

Petition for Retirement Benefit Enhancement, dated November 2, 2016 and signed by the Mayor on November 29, 2016, provides enhanced disability benefits for Accidental Disability Retirement and Ordinary Disability Retirement benefits for Correction Officers. Correction Officers who become 22-Year Plan members before January 1, 2017 have the option to elect participation in the Enhanced Disability Benefits. Correction Officers who become 22-Year Plan members on and after January 1, 2017 are mandated into the Enhanced Disability Benefits. Members electing or mandated into this benefit will pay an extra 0.8% of wages.

Petition for Retirement Benefit Enhancement, dated November 21, 2016 and signed by the Mayor on November 29, 2016, provides enhanced disability benefits for Accidental Disability Retirement and Ordinary Disability Retirement benefits for Wardens, including Assistant Deputy Wardens, Deputy Wardens and Deputy Wardens in Command (collectively, ADW/DWs). ADW/DWs who become 22-Year Plan members before January 1, 2017 have the option to elect participation in the Enhanced Disability Benefits. ADW/DWs who become 22-Year Plan members on and after January 1, 2017 are mandated into the Enhanced Disability Benefits. Members electing or mandated into this benefit will pay an extra 0.8% of wages.

Petition for Retirement Benefit Enhancement, dated November 25, 2016 and signed by the Mayor on November 29, 2016, provides enhanced disability benefits for Accidental Disability Retirement and Ordinary Disability Retirement benefits for Correction Captains. Correction Captains who become 22-Year Plan members before January 1, 2017 have the option to elect participation in the Enhanced Disability Benefits. Correction Captains who become 22-Year Plan members on and after January 1, 2017 are mandated into the Enhanced Disability Benefits. Members electing or mandated into this benefit will pay an extra 0.8% of wages.

Chapter 61 of the Laws of 2017 permits NYCERS uniformed correction/sanitation revised plan members and investigator revised plan members ("Eligible Members"), who would be ineligible for disability retirement benefits solely on account of being eligible for a normal service retirement benefit, to be eligible for disability benefits. It also relaxed the safeguards provisions regarding restrictions on post-retirement employment for Eligible Members who are awarded Accidental Disability Retirement ("ADR") and modified the process for reducing or eliminating an ADR benefit based on post-retirement earnings, making said process more difficult.

The following outlines the changes for the New York City uniformed correction/sanitation revised plan members (i.e., a 22-Year Plan member).

1. Member Contributions

- Tier 3 Enhanced Members contribute 3% of pensionable earnings PLUS an additional contribution rate to help fund the enhanced disability benefit. Currently, the additional contribution rate is 1.3% for Sanitation Workers and 0.8% for Correction Officers, ADW/AWs and Correction Captains that can be raised to 3% based on a financial analysis by the Office of the Actuary every three years. At no time can the total contribution rate exceed 6%.

- Taxability
  - Base Member Contributions
  - Pre-tax
  - Increased Member Contributions for Enhanced Disability Provisions
    - Pre-tax for Sanitation Workers appointed September 1, 2016 and later and for Correction Officers, ADW/DWs and Correction Captains appointed January 1, 2017 and later (i.e., the dates the respective new members are mandated into the Plan).
    - Post-tax for those who were eligible to elect the Enhanced Disability Plan provisions and elected such provisions.

2. Accidental Disability Retirement (ADR)

- The ADR benefit for Tier 3 Enhanced Members is 75% of their Five-Year Final Average Salary (FAS5).
- Tier 3 Enhanced Members have statutory presumptions (i.e. Heart)

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
NOTES TO THE COMBINING FINANCIAL STATEMENTS
JUNE 30, 2017 AND 2016

3. **Ordinary Disability Retirement (ODR)**

    - The ODR benefit for Tier3 Enhanced Members is the greater of:
        - 33 1/3% of FAS5; or
        - FAS5 multiplied by years of credited service (not greater than 22 years).

4. **Escalation**

    - Tier 3 Enhanced Members who retire for ODR or ADR are not subject to escalation. Tier 3 Enhanced Members are subject to COLA, the same as Tier 1 and 2 members.

5. **Social Security Offset**

    - Tier 3 Enhanced Members who retire for ODR or ADR are not subject to the Social Security offset.
    - Tier 3 Enhanced Members who retire for a Service or Vested Retirement are subject to the Social Security offset.

6. **Final Average Salary**

    - Tier 3 Enhanced Members are subject to a FAS5 calculation for ODR, ADR, Service and Vested Retirement.

Chapter 61 of the Laws of 2017 permits Uniformed Correction/Sanitation Revised Plan Members and Investigator Revised Plan Members (Eligible Members) who would be ineligible for disability retirement benefits solely on account of being eligible for a normal service retirement benefit, to be eligible for disability benefits. It also relaxed the safeguards provisions regarding restrictions on post-retirement employment for Eligible Members who are awarded Accidental Disability Retirement (ADR) and modified the process for reducing or eliminating an ADR benefit based on post-retirement earnings.

The following changes apply to Eligible Members:

1. **Eligibility for ADR**
    - Members no longer cease to be eligible for ADR at 22 years, and can apply at any time as long as they are active.

2. **Safeguards**
    - RSSL § 507(d) no longer applies to ADR retirees. The safeguards in effect prior to April 1, 2012 apply to Uniformed Correction/Sanitation Revised Plan members and those in effect prior to July 1, 2009 apply to retired Investigator Revised Plan Members. The safeguards include earnings limitations and re-employment.
    - Safeguards remain unchanged for ODR retirees. Thus, they must continue to be in receipt of Social Security Disability benefits to maintain their receipt of pension benefits.

SCHEDULE 1

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)
SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS
(In thousands)

June 30, 2017

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	TOTAL
Total pension liability:							
Service cost	$ 1,897,067	$ 23,391	$ -	$ -	$ -	$ -	$ 1,920,458
Interest	5,446,543	93,708	1,088	1,464	2,151	1,654	5,546,608
Changes of benefit terms							-
Differences between expected and actual							-
experience	(221,856)	(16,615)	(51)	(216)	198	286	(238,254)
Changes of assumptions	-	-	-	-	-	-	$ -
Benefit payments and withdrawals	(4,635,251)	(30)	(1,850)	(2,581)	(3,814)	(2,953)	(4,646,479)
Net change in total pension liability	2,486,503	100,454	(813)	(1,333)	(1,465)	(1,013)	2,582,333
Total pension liability – beginning	78,411,108	1,331,930	16,498	22,394	32,415	24,790	79,839,135
Total pension liability – ending (a)	80,897,611	1,432,384	15,685	21,061	30,950	23,777	82,421,468
Plan fiduciary net position:							
Employer contributions	3,328,193	-	-	-	-	-	3,328,193
Member contributions	513,514	-	-	-	-	-	513,514
Net investment income	6,982,304	(152)	-	-	-	-	6,982,152
Benefit payments and withdrawals	(4,635,251)	(30)	(1,850)	(2,581)	(3,814)	(2,953)	(4,646,479)
Payments to Other Retirement Systems	(8,087)	-	-	-	-	-	(8,087)
Transfers to VSF's	(11,297)	-	1,889	2,595	3,830	2,983	-
Administrative Expenses	(59,671)	-	-	-	-	-	(59,671)
Other	3,266	-	-	-	-	-	3,266
Net change in plan fiduciary net position	6,112,971	(182)	39	14	16	30	6,112,888
Accrued Transfers to/From VSF's	(285,924)	285,924	-	-	-	-	-
Plan fiduciary net position – beginning	55,495,228	46,942	30	44	29	40	55,542,313
Plan fiduciary net position – ending (b) *	61,322,275	332,684	69	58	45	70	61,655,201
Employer's net pension liability – ending (a)-(b)	$ 19,575,336	$ 1,099,700	$ 15,616	$ 21,003	$ 30,905	$ 23,707	$ 20,766,267
Plan fiduciary net position as a percentage of the total pension liability	75.80%	23.23%	0.44%	0.28%	0.15%	0.29%	74.80%
Covered-employee payroll	$ 12,555,242	N/A	N/A	N/A	N/A	N/A	$ 12,555,242
Employer's net pension liability as a percentage of covered-employee payroll	155.91%	N/A	N/A	N/A	N/A	N/A	165.40%

Additionally, in accordance with GASB No. 67, paragraph 50, such information was not readily available for periods prior to 2014.

*Such amounts represent the preliminary Funds' fiduciary net position and may differ from the Funds' final fiduciary net position.

SCHEDULE 1

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)
SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS
(In thousands)

June 30, 2016

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	TOTAL
Total pension liability:							
Service cost	$ 1,875,969	$ 24,025	$ -	$ -	$ -	$ -	$ 1,899,994
Interest	5,276,141	89,794	1,145	1,553	2,251	1,720	5,372,604
Differences between expected and actual							-
experience	(793,016)	(25,259)	(195)	(57)	273	283	(817,971)
Changes of assumptions	2,539,112	21,269	479	625	915	692	2,563,092
Benefit payments and withdrawals	(4,402,729)	(79,917)	(1,968)	(2,643)	(3,932)	(2,957)	(4,494,146)
Net change in total pension liability	4,495,477	29,912	(539)	(522)	(493)	(262)	4,523,573
Total pension liability – beginning	73,915,631	1,302,018	17,037	22,916	32,908	25,052	75,315,562
Total pension liability – ending (a)	78,411,108	1,331,930	16,498	22,394	32,415	24,790	79,839,135
Plan fiduciary net position:							
Employer contributions	3,365,454	-	-	-	-	-	3,365,454
Member contributions	485,508	-	-	-	-	-	485,508
Net investment income	1,171,720	184	-	-	-	-	1,171,904
Benefit payments and withdrawals	(4,402,729)	(79,917)	(1,968)	(2,643)	(3,932)	(2,957)	(4,494,146)
Payments to Other Retirement Systems	(7,440)	-	-	-	-	-	(7,440)
Transfers to VSF's	(11,525)	-	1,968	2,648	3,945	2,964	-
Administrative Expenses	(56,683)	-	-	-	-	-	(56,683)
Other	2,928	-	-	-	-	-	2,928
Net change in plan fiduciary net position	547,233	(79,733)	-	5	13	7	467,525
Accrued Transfers to/From VSF's	52,724	(52,724)	-	-	-	-	-
Plan fiduciary net position – beginning	54,895,271	179,399	30	39	16	33	55,074,788
Plan fiduciary net position – ending (b) *	55,495,228	46,942	30	44	29	40	55,542,313
Employer's net pension liability – ending (a)-(b)	$ 22,915,880	$ 1,284,988	$ 16,468	$ 22,350	$ 32,386	$ 24,750	$ 24,296,822
Plan fiduciary net position as a percentage of the total pension liability	70.77%	3.52%	0.18%	0.20%	0.09%	0.16%	69.57%
Covered-employee payroll	$ 12,336,979	N/A	N/A	N/A	N/A	N/A	$ 12,336,979
Employer's net pension liability as a percentage of covered-employee payroll	185.75%	N/A	N/A	N/A	N/A	N/A	196.94%

Additionally, in accordance with GASB No. 67, paragraph 50, such information was not readily available for periods prior to 2014.

*Such amounts represent the preliminary Funds' fiduciary net position and may differ from the Funds' final fiduciary net position.

SCHEDULE 1

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)
SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS
(In thousands)

June 30, 2015

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	TOTAL
Total pension liability:							
Service cost	$ 1,808,955	$ 23,532	$ -	$ -	$ -	$ -	$ 1,832,487
Interest	4,976,487	87,727	1,184	1,588	2,288	1,741	5,071,015
Differences between expected and actual experience	(372,645)	84,301	(312)	131	(203)	129	(288,599)
Changes of assumptions	-	-	-	-	-	-	-
Benefit payments and withdrawals	(4,235,644)	(76,606)	(2,083)	(2,682)	(4,047)	(3,073)	(4,324,135)
Net change in total pension liability	2,177,153	118,954	(1,211)	(963)	(1,962)	(1,203)	2,290,768
Total pension liability – beginning	71,738,478	1,183,064	18,248	23,879	34,870	26,255	73,024,794
Total pension liability – ending (a)	73,915,631	1,302,018	17,037	22,916	32,908	25,052	75,315,562
Plan fiduciary net position:							
Employer contributions	3,160,258	-	-	-	-	-	3,160,258
Member contributions	467,129	-	-	-	-	-	467,129
Net investment income	1,175,099	10	-	-	-	-	1,175,109
Benefit payments and withdrawals	(4,235,644)	(76,606)	(2,083)	(2,682)	(4,047)	(3,073)	(4,324,135)
Payments to Other Retirement Systems	(7,142)	-	-	-	-	-	(7,142)
Transfers to VSF's	(11,918)	12	2,100	2,686	4,040	3,080	-
Administrative Expenses	(54,635)	-	-	-	-	-	(54,635)
Other	4,140	-	-	-	-	-	4,140
Net change in plan fiduciary net position	497,287	(76,584)	17	4	(7)	7	420,724
Accrued Transfers to VSF's	(30,000)	30,000	-	-	-	-	-
Plan fiduciary net position – beginning *	54,427,984	225,983	13	35	23	26	54,654,064
Plan fiduciary net position – ending (b) **	54,895,271	179,399	30	39	16	33	55,074,788
Employer's net pension liability – ending (a)-(b)	$ 19,020,360	$ 1,122,619	$ 17,007	$ 22,877	$ 32,892	$ 25,019	$ 20,240,774
Plan fiduciary net position as a percentage of the total pension liability	74.27%	13.78%	0.18%	0.17%	0.05%	0.13%	73.13%
Covered-employee payroll	$ 12,314,958	N/A	N/A	N/A	N/A	N/A	$ 12,314,958
Employer's net pension liability as a percentage of covered-employee payroll	154.45%	N/A	N/A	N/A	N/A	N/A	164.36%

Additionally, in accordance with GASB No. 67, paragraph 50, such information was not readily available for periods prior to 2014.

* Includes an adjustment of $(351,463,000).

**Such amounts represent the preliminary Funds' fiduciary net position and may differ from the Funds' final fiduciary net position.

SCHEDULE 1

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)
SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS
(In thousands)

June 30, 2014

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	TOTAL
Total pension liability:							
Service cost	$ 1,783,734	$ 23,329	$ -	$ -	$ -	$ -	$ 1,807,063
Interest	4,825,904	77,397	1,267	1,655	2,416	1,820	4,910,459
Changes of benefit terms	-	-	-	-	-	-	-
Differences between expected and actual experience	-	-	-	-	-	-	-
Changes of assumptions	-	-	-	-	-	-	-
Benefit payments and withdrawals	(3,990,569)	-	(2,187)	(2,782)	(4,054)	(3,089)	(4,002,681)
Net change in total pension liability	2,619,069	100,726	(920)	(1,127)	(1,638)	(1,269)	2,714,841
Total pension liability – beginning	69,119,408	1,082,338	19,169	25,006	36,508	27,524	70,309,953
Total pension liability – ending (a)	71,738,477	1,183,064	18,249	23,879	34,870	26,255	73,024,794
Plan fiduciary net position:							
Employer contributions	3,114,068	-	-	-	-	-	3,114,068
Member contributions	447,689	-	-	-	-	-	447,689
Net investment income	8,262,467	20	-	-	-	-	8,262,487
Benefit payments and withdrawals	(3,990,569)	-	(2,187)	(2,782)	(4,054)	(3,089)	(4,002,681)
Payments to Other Retirement Systems	(7,228)	-	-	-	-	-	(7,228)
Transfers to VSF's	(12,125)	-	2,168	2,797	4,070	3,090	-
Administrative Expenses	(50,431)	-	-	-	-	-	(50,431)
Other	4,881	-	-	-	-	-	4,881
Net change in plan fiduciary net position	7,768,752	20	(19)	15	16	1	7,768,785
Accrued Transfers to VSF's	(190,000)	190,000	-	-	-	-	
Plan fiduciary net position – beginning	47,200,695	35,963	32	20	7	25	47,236,742
Plan fiduciary net position – ending (b) *	54,779,447	225,983	13	35	23	26	55,005,527
Employer's net pension liability – ending (a)-(b)	$ 16,959,030	$ 957,081	$ 18,236	$ 23,844	$ 34,847	$ 26,229	$ 18,019,267
Plan fiduciary net position as a percentage of the total pension liability	76.36%	19.10%	0.07%	0.15%	0.07%	0.10%	75.32%
Covered-employee payroll	$ 12,183,011	N/A	N/A	N/A	N/A	N/A	$ 12,183,011
Employer's net pension liability as a percentage of covered-employee payroll	139.20%	N/A	N/A	N/A	N/A	N/A	147.90%

Additionally, in accordance with GASB No. 67, paragraph 50, such information was not readily available for periods prior to 2014.

*Such amounts represent the preliminary Funds' fiduciary net position and may differ from the Funds' final fiduciary net position.

SCHEDULE 2

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)
QUALIFIED PENSION PLAN
SCHEDULE OF CITY CONTRIBUTIONS

	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Actuarially determined contributions	$ 3,328,193	$ 3,365,454	$ 3,160,258	$ 3,114,068	$ 3,046,845	$ 3,017,004	$ 2,387,216	$ 2,197,717	$ 2,150,438	$ 1,874,242
Contributions in relation to the actuarially determined contributions	3,328,193	3,365,454	3,160,258	3,114,068	3,046,845	3,017,004	2,387,216	2,197,717	2,150,438	1,874,242
Contribution deficiency (excess)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Covered-employee payroll	12,555,242	12,336,979	12,314,958	12,183,011	11,954,975	11,812,858	11,465,975	10,977,607	10,454,244	9,863,912
Contribution as a percentage of covered-employee payroll	26.51 %	27.28 %	25.66 %	25.56 %	25.49 %	25.54 %	20.82 %	20.02 %	20.57 %	19.00 %

SCHEDULE 2

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)
QUALIFIED PENSION PLAN
SCHEDULE OF CITY CONTRIBUTIONS

Notes to Schedule:

The above actuarially determined contributions were developed using a One-Year Lag Methodology, under which the actuarial valuation determines the employer contribution for the second following fiscal year (e.g. Fiscal Year 2017 contributions were determined using an actuarial valuation as of June 30, 2015). The methods and assumptions used to determine the actuarially determined contributions are as follows:

Valuation Dates	June 30, 2015	June 30, 2014	June 30, 2013	June 30, 2012	June 30, 2011	June 30, 2010	June 30, 2009- June 30, 2006
Actuarial cost method	Entry Age	Entry Age	Entry Age	Entry Age	Entry Age	Entry Age	Frozen Initial Liability[1]
Amortization method for Unfunded Actuarial Accrued Liabilities:							
Initial Unfunded	Increasing Dollar	Increasing Dollar	Increasing Dollar	Increasing Dollar	Increasing Dollar	Increasing Dollar	NA[2]
Post-2010 Unfundeds	Level Dollar	Level Dollar	Level Dollar	Level Dollar	Level Dollar	Level Dollar	NA[2]
Remaining amortization period:							
Initial Unfunded	17 years (closed)	18 years (closed)	19 years (closed)	20 years (closed)	21 years (closed)	22 years (closed)	NA[2]
2010 ERI	1 years (closed)	2 years (closed)	3 years (closed)	4 years (closed)	5 years (closed)	NA	NA[2]
2011 Actuarial Gains/Losses	11 years (closed)	12 years (closed)	13 years (closed)	14 years (closed)	15 years (closed)	NA	NA[2]
2012 Actuarial Gains/Losses	12 years (closed)	13 years (closed)	14 years (closed)	15 years (closed)	NA	NA	NA[2]
2013 Actuarial Gains/Losses	13 years (closed)	14 years (closed)	15 years (closed)	NA	NA	NA	NA[2]
2014 Actuarial Gains/Losses	14 years (closed)	15 years (closed)	NA	NA	NA	NA	NA[2]
2015 Actuarial Gains/Losses	15 years (closed)	NA	NA	NA	NA	NA	NA[2]
Actuarial Asset Valuation (AAV) Method	Modified six-year moving average of market values with a "Market Value Restart" as of June 30, 2011. The June 30, 2011. The June 30, 2010 AAV is defined to recognize Fiscal Year 2011 investment performance. [4]	Modified six-year moving average of market values with a "Market Value Restart" as of June 30, 2011. The June 30, 2011. The June 30, 2010 AAV is defined to recognize Fiscal Year 2011 investment performance. [4]	Modified six-year moving average of market values with a "Market Value Restart" as of June 30, 2011. The June 30, 2011. The June 30, 2010 AAV is defined to recognize Fiscal Year 2011 investment performance.[4]	Modified six-year moving average of market values with a "Market Value Restart" as of June 30, 2011. The June 30, 2011. The June 30, 2010 AAV is defined to recognize Fiscal Year 2011 investment performance.[4]	Modified six-year moving average of market values with a "Market Value Restart" as of June 30, 2011. The June 30, 2011. The June 30, 2010 AAV is defined to recognize Fiscal Year 2011 investment performance.[4]	Modified six-year moving average of market values with a "Market Value Restart" as of June 30, 2011. The June 30, 2011. The June 30, 2010 AAV is defined to recognize Fiscal Year 2011 investment performance.[4]	Modified six-year moving average of market values with a "Market Value Restart" as of June 30, 1999.
Actuarial assumptions: Assumed rate of return	7.0% per annum, net of investment expenses[3]	7.0% per annum, net of investment expenses[3]	7.0% per annum, net of investment expenses[3]	7.0% per annum, net of investment expenses[3]	7.0% per annum, net of investment expenses[3]	7.0% per annum, net of investment expenses[3]	8.0% per annum, gross of investment expenses[3]
Post-retirement mortality	Tables adopted by Board of Trustees during Fiscal Year 2016	Tables adopted by Board of Trustees during Fiscal Year 2016	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2006
Active service: withdrawal, death, disability, service retirement	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2012	Tables adopted by Board of Trustees during Fiscal Year 2006[4]
Salary increases	In general, merit and promotion increases plus assumed General Wage Increases of 3.0% per year.[3]	In general, merit and promotion increases plus assumed General Wage Increases of 3.0% per year.[3]	In general, merit and promotion increases plus assumed General Wage Increases of 3.0% per year.[3]	In general, merit and promotion increases plus assumed General Wage Increases of 3.0% per year.[3]	In general, merit and promotion increases plus assumed General Wage Increases of 3.0% per year.[3]	In general, merit and promotion increases plus assumed General Wage Increases of 3.0% per year.[3]	In general, merit and promotion increases plus assumed General Wage Increases of 3.0% per year.[3]
Cost-of-Living Adjustments[3]	1.5% per annum for Auto COLA, 2.5% per annum for Escalation	1.5% per annum for Auto COLA, 2.5% per annum for Escalation	1.5% per annum for Auto COLA, 2.5% per annum for Escalation	1.5% per annum for Auto COLA, 2.5% per annum for Escalation	1.5% per annum for Auto COLA, 2.5% per annum for Escalation	1.5% per annum for Auto COLA, 2.5% per annum for Escalation	1.3% per annum

1 Under this actuarial cost method, the Initial Liability was reestablished as of June 30, 1999, by the Entry Age Actuarial Cost Method but with the unfunded actuarial accrued liability (UAAL) not less than $0. The financial results using this Frozen Initial Liability Actuarial Cost Method are the same as those that would be produced using the Aggregate Actuarial Cost Method.

2 In conjunction with Chapter 85 of the Laws of 2000, there is an amortization method. However, the June 30, 1999 UAAL for the QPP equaled $0 and no amortization period was required.

3 Developed using a long-term Consumer Price Inflation assumption of 2.5% per year.

4 As of the June 30, 2014 (Lag) valuation, the AAV is constrained to be no more than 20% from the Market Value

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)
QUALIFIED PENSION PLAN
SCHEDULE OF INVESTMENT RETURNS

SCHEDULE 3

The following table displays annual money-weighted rate of return, net of investment expense, for the Funds for each of the past four fiscal years:

Fiscal year ended	QPP	COVSF
June 30, 2017	12.99%	0.64%
June 30, 2016	1.45%	0.19%
June 30, 2015	3.10%	0.19%
June 30, 2014	17.006%	0.055%

Note: In accordance with GASB No. 67, paragraph 50, such information was not readily available for periods prior to 2014.

Additional Supplementary Information
SCHEDULE OF INVESTMENT EXPENSES
Year Ended June 30, 2017

Investment Expenses Paid from the Investment Earnings of the Plan

Fees Paid to Investment Managers for FY 2017 Services[1]	$ 151,491,489
Fees Paid to Investment Consultants[1]	2,772,256
Investment-related Legal Fees[1]	416,836
Fees Paid to Investment Managers and Consultants	**154,680,581**
Private Equity Organizational Costs	11,122,199
Real Estate Partnership Organizational Costs	8,917,342
Alternative Opportunity & Global fixed Organizational Costs	22,143,139
Foreign Taxes Withheld	21,038,089
Reimbursement to NYC Comptroller's Office for Investment Expenses Paid	3,918,385
Miscellaneous Investment Expenses	1,935,918
Total Investment Expenses Paid Directly by the Plan	**223,755,653**
Fees Related to Securities Lending Transactions	2,368,880
Total Investment Expenses and Fees Paid Directly by the Plan	**226,124,533**
Total Paid by the NYC Comptroller's Office	1,868,658
Total Investment Expenses and Fees	**227,993,191**

Note:
1) For details, see Schedule of Fees Paid to Investment Managers and Consultants beginning on Page 140.

Additional Supplementary Information
SCHEDULE OF ADMINISTRATIVE EXPENSES
Year Ended June 30, 2017

Personal Services	Employee Compensation	**$ 39,505,894**
Professional Services	Consultants[1]	3,003,626
	Medical Board and Medical Consultants	750,812
	Steno for Medical and Trustees' Boards	75,320
		3,829,758
Communication	Postage	659,451
	Telephone	639,974
	Printing	261,857
		1,561,282
Rentals	Office and Storage Space	**5,909,352**
Other	Office and Data Processing Equipment	2,495,399
	Software, Licenses, and Support	2,208,953
	Office Supplies and Services	1,579,316
	Facilities Services	1,406,176
	Equipment Maintenance	1,174,498
		8,864,342
NYCERS' Direct Expenses		**59,670,628**
Incurred by Other City Agencies	Financial Information Services	5,102,041
	Law Department	845,148
	Office of the Comptroller	817,249
	Office of Payroll Administration	394,399
	Office of Management and Budget	191,722
		7,350,559
Total Administrative Expenses		**67,021,187**

Note:
1) For details, see Schedule of Payments to Consultants on next page.

Additional Supplementary Information
SCHEDULE OF PAYMENTS TO CONSULTANTS
Year Ended June 30, 2017

Nature of Service	Firm	Fees
Consultant Services	Gartner Inc	$ 1,210,000
	IBM	183,013
	CWI Coaching and Consulting	157,055
	CDW Government, Inc.	147,640
	Cornerstone onDemand, Inc	113,000
	EFL Associates	56,333
	Mainline Information Systems	30,850
	Dell Marketing	27,706
	Crowe Horwath LLP	25,000
	Jean North Brewer	19,975
	Diane D'Alessandro	4,229
	Sanders, Susan	1,624
	enChoice	(301,917)
Computer Services	Granwood Inc	220,024
	Elegant Enterprise Wide Solutions Inc	188,496
	UTC Associates Inc	178,925
	Geomatrix Software Services Inc	174,965
	Diaspark Inc	172,744
	Spruce Technology Inc	148,031
	QED National	112,638
	Integrated Technology Solutions & Services Inc	81,395
	Questa Technology Inc	25,223
Architectural Services	Mancini Duffy	3,737
Mechanical and Electrical Engineering	Cosentini	22,940
Total Payment to Consultants		**3,003,626**

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PART 3

INVESTMENT SECTION

REPORT ON INVESTMENT ACTIVITY AND POLICIES

Investment Policies and Objectives

The purpose of the New York City Employees’ Retirement System is to provide its members the benefits to which they are legally entitled. The funds necessary to finance these benefits are accumulated through the contributions of the members and participating employers, and the investment earnings of the Plan.

The Plan’s Board of Trustees adopts investment policies. The Board is composed of eleven members: the Mayor’s representative, who is the chairperson; the City Comptroller; the Public Advocate; the heads of the three unions with the largest number of participating employees, which are District Council 37-AFSCME, Transport Workers Union Local 100, and the International Brotherhood of Teamsters; and the five Borough Presidents. The Board creates the overall investment philosophy under which the Plan’s funds are invested and, in defining the investment objectives, develops a framework under which specific objectives are established with regard to allocating the assets of the Plan among the various investment types. The following is a brief outline of the Plan’s philosophy and objectives:

- In order for the Plan to meet its responsibility of providing its members with their legally entitled retirement and other benefits, the level of investment risk should be prudent and not jeopardize the Plan’s financial stability. The Plan’s assets must be protected from severe adverse market conditions and wide fluctuations in investment results.

- Since higher investment returns are generally associated with a certain amount of risk, it is reasonable and justified to assume a moderate level of risk in order to strengthen long term results.

- Diversification reduces the overall portfolio risk. This is achieved by allocating funds among different asset categories and then, within each category, having a broad representation of industries and companies. The bulk of the portfolio is in a very wide variety of domestic stocks and bonds. The Policy Mix consists of 29.0% in U.S. Equities, 20.0% in an International Equity Fund involving only New York City pension plans, 33.0% in U.S. Fixed Income, and 18.0% in Alternative Investments, which includes private equity, real estate, and infrastructure investments. Public equity investments are allocated among actively and passively managed components, market sectors, and approaches that focus on companies of various size capitalizations. Fixed income securities are primarily allocated among government, government guaranteed mortgage-backed, and corporate securities. The Plan also invests a portion of its fixed income allocation in inflation-linked Treasury securities. As noted in the Asset Allocation chart on page 136, over the last six years, International Equity Investments have increased as a percentage of the overall portfolio, reducing the Plan’s concentration in U.S. equity securities.

- Since retirement benefits are paid on a monthly basis, and other payments such as loans, refunds and death benefits are made weekly, the liquidity of the portfolio must be considered. The cash flow from employer contributions, dividends and interest must be managed so that benefits can be paid in a timely manner. A portion of the portfolio is kept in short term investments to assure that this is so.

- Achieving long term results is a chief objective for an institution such as a retirement system that is accumulating resources for liabilities that are primarily due in the distant future.

- As has been the case for several years, the Plan is continuing to increase its holdings of economically targeted investments (ETIs). ETIs are investments that provide risk-adjusted market rates of return, while providing additional benefits to the geographic target area, which includes the five boroughs and the six New York State counties where City employees are permitted to live (Nassau, Orange, Putnam, Rockland, Suffolk and Westchester). With the Plan financing the underlying mortgages of low-, moderate-, and middle-income housing, residents have benefited from the increased access to affordable housing, as well as from the economic effect of the construction industry jobs that have been created. During fiscal year 2016, the ETI Plan issued additional investments and commitments for new loans to finance the rehabilitation or new construction of individual multifamily projects through its Public/Private Apartment Rehabilitation program. The Plan increased its investment in the Access Capital Strategies with the RBC Global Asset Management, which invests in mortgage-backed securities comprised of loans screened for anti-predatory lending compliance. The loans can be issued to single-family homeowners making below 200% of the Area Median Income and includes a new veterans housing target. In addition, the Plan maintained its investment with the AFL-CIO Housing Investment Trust to invest in union-constructed affordable housing through mortgages and bonds. The Plan also maintains an investment in the CPC construction loan facility. The construction loans are for low- and moderate-income housing.

- Investments are only made in accordance with the governing statutes of the New York City Administrative Code and the New York State Retirement and Social Security Law.

- The Board also determines the criteria used in evaluating the investment advisors. While the Board utilizes an investment consultant to provide technical support in evaluating asset mix and its investment advisors, Board members take a very active role in determining the direction that the Plan is taking towards achieving its objectives. In addition, as well as being a Board member, the City Comptroller is the custodian of the funds of the Plan and oversees all of the City's pension trust funds. The Comptroller's Office is the avenue by which the Board's directives are implemented. The Comptroller's Office manages the actual flow of funds to the investment advisors, and it assures that the investments recommended by the advisors meet the legal restrictions for plan investments. It also conducts its own performance analysis of individual advisors and of the different investment categories. The Comptroller is responsible for cash management related to the Plan, and provides various cash receipt and cash disbursement services to the Plan.

Investment Accounting

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 at the end of the last trading day of the period, except for the International Investment funds (the "IIF") and Alternative Investment funds (the "ALTINVF"). The IIF are private funds of publicly traded securities 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. The investment managers determine fair value using the last available quoted price for each security owned, adjusted by any contributions to or withdrawals from the fund during the period. The ALTINVF are investments for which exchange quotations are not readily available and are valued at estimated fair value as determined in good faith by the General Partner (GP). These investments are initially valued at cost with subsequent adjustments that reflect third party transactions, financial operating results and other factors deemed relevant by the GP. Fair value is determined by Plan management based on information provided by the various GPs after review by an independent consultant and the custodian bank for the fund.

Purchases and sales of securities are recorded on the trade date.

Dividend income is recorded on the ex-dividend date. Interest income is accrued as earned.

Investment Criteria

The criteria for non-equity investments are as follows:

Fixed income investments may be made only in U.S. Government securities, securities of government agencies backed by the U.S. Government, securities of companies rated BBB or better or securities rated below BBB (up to 10% of the total asset allocation) by both Standard & Poor's Corporation and Moody's Investors' Service, or any bond on the list of Legal Investments for New York Savings Banks as published by the Department of Financial Services.

Short-term investments may be made only in the following instruments:

- U.S. Government securities or government agencies' securities which are fully guaranteed by the U.S. Government.
- Commercial paper rated A1 or P1 or F1 by Standard & Poor's Corporation or Moody's Investors' Service, or Fitch, respectively.
- Repurchase agreements collateralized in a range of 102% to 105% of matured value, purchased through primary dealers of U.S. Government securities.
- Investments in bankers' acceptances, certificates of deposit, and time deposits are limited to banks with worldwide assets in excess of $50 billion that are rated within the highest categories of the leading bank rating services and selected regional banks which are also rated within the highest categories.

The criterion for equity investments is that they may consist only of those stocks that meet the qualifications of the New York State Retirement and Social Security Law, the New York State Banking Law, and the New York City Administrative Code.

In addition, investments of up to 25.0% of total pension fund assets may be made in instruments not specifically covered by the NY State Retirement and Social Security Law.

No investment in any one corporation may represent more than either 2% of the Plan net assets or 5% of the corporation's total outstanding issues.

Cash deposits are insured by the Federal Deposit Insurance Corporation for a maximum of $250,000 per plan member and are, therefore, fully insured.

Investment Returns

Over time, the Plan's returns on investments have generally constituted the most significant component of total Plan income, whether that is positive or negative for a given year. During Fiscal Year 2017 the net investment income earned by the portfolio, including interest and dividends, contributed $7 billion to the Plan's revenue, which was a significant increase from the $1.2 billion in net investment income that the portfolio earned in Fiscal Year 2016. The Table of Revenue by Source on page 200 outlines the contributions to Plan revenue from investment earnings as well as the contributions of employees and employers.

It is important that in the long term the value of the Plan's investment portfolio continues to grow and continues to generate increased income, so that the funding of the Plan does not become an undue burden to the participating employers. To the extent that the investment portfolio provides a sufficiently high return for the Plan, the amount necessary to be provided by employer contributions is decreased. The goal is to maintain a strong diversified investment portfolio that will provide a significant percentage of the long-term funding required to support benefit payments into the future.

The total fair value of the Plan's investment portfolio as of June 30, 2017 was $67.8 billion, which included Securities Lending Collateral of $7.0 billion. This is shown in detail in the Investment Summary on page 134, and is consistent with the Statement of Plan Fiduciary Net Position on page 78. However, the portfolio percentages that are used below and in the Asset Allocation charts on pages 134, 135, and 136 are based on $60.8 billion, which is net of the Securities Lending Collateral.

The total return on the investment portfolio during Fiscal Year 2017 was 12.99%, which is higher than the NYCERS' Policy Benchmark of 12.93%. Domestic Equities, which comprise 31.2% of the total portfolio, returned 18.09%, lower than the Russell 3000 Index of 18.51%. The majority of the domestic equity portfolio is passively managed, with the remaining being actively managed by various managers with diverse investment strategies, such as specializations in value, growth, small capitalization stocks, or emerging markets.

The International Equity portfolio is externally managed as part of a fund that only includes NYC retirement systems as shareholders. It makes up 22.5% of the total portfolio, and it contributed a return of 22.69%, which beat the MSCI AC World ex US Index of 20.45%.

The U.S. Fixed Income segment, externally managed and constituting 31.1% of the portfolio, returned 3.14%. This segment contains two main components -- the Structured Managed Program, which returned 0.34%, as compared to the NYC Core Plus Five Index of (0.21%); and the Enhanced Yield component, which returned 11.62% as compared to the Citigroup BB & B index of 11.47%.

The Alternative Investment segment accounted for 15.2% of the investment portfolio. This segment is comprised primarily of Private Equity, which returned 16.45% and Private Real Estate, which returned 10.24%. Hedge Funds, which make up only 0.1% of the portfolio, returned 2.49%. The corresponding index performance relating to these components are published in the Schedule of Investment Results on page 139.

All investment results are time-weighted rates of return that are reported net of fees, and are based on market values.

Listings of the Plan's investment securities are available upon request.

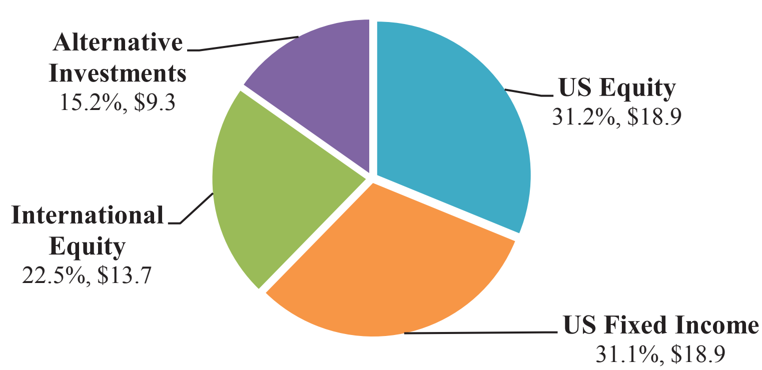
The Finance Division of the Plan has prepared this Report on Investment Activity and Policies. It is based on the investment policies of the Plan's Board of Trustees, New York State regulations governing the Plan, documents provided by the NYC Comptroller as the custodian of the Plan, and the Plan's internal documents.

INVESTMENT SUMMARY (QPP & VSF)
June 30, 2017

Type of Investment	Market Value (in thousands)	Percent of Total Market Value
US Equity	**$ 18,956,882**	**31.2%**
US Fixed Income		
Short Term Investments[1]	1,134,397	1.9%
Long Term Bonds - U.S. Government	7,261,949	11.8%
Long Term Bonds - Corporate	6,254,038	10.3%
Collective Trust Funds - Mortgages	640,950	1.1%
Collective Trust Funds - Fixed Income	1,091,294	1.8%
Collective Trust Funds - TIPS	2,531,110	4.2%
Total US Fixed Income	**18,913,738**	**31.1%**
International Equity	**13,655,017**	**22.5%**
Alternative Investments		
Private Equity Holdings	9,162,968	15.1%
Hedge Fund	95,986	0.1%
Total Alternative Investments	**9,258,954**	**15.2%**
Total Investments[2]	**60,784,591**	**100.0%**

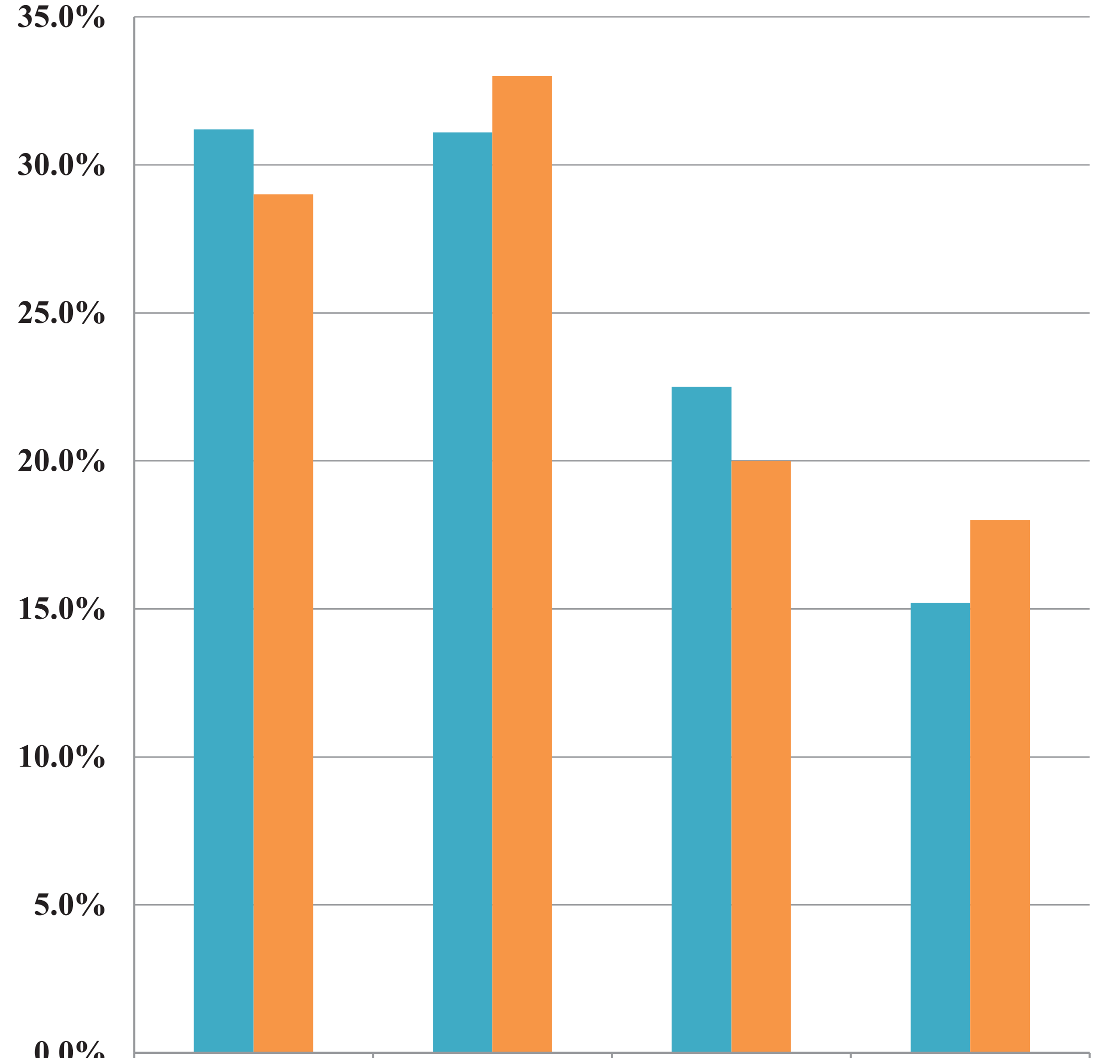
Notes:
1) Includes $43.529 million held separately by the Correction Officers' Variable Supplement Fund.
2) Excludes $7.034 billion in collateral from securities lending.

TOTAL INVESTMENT ASSET ALLOCATION
June 30, 2017
(in billions)



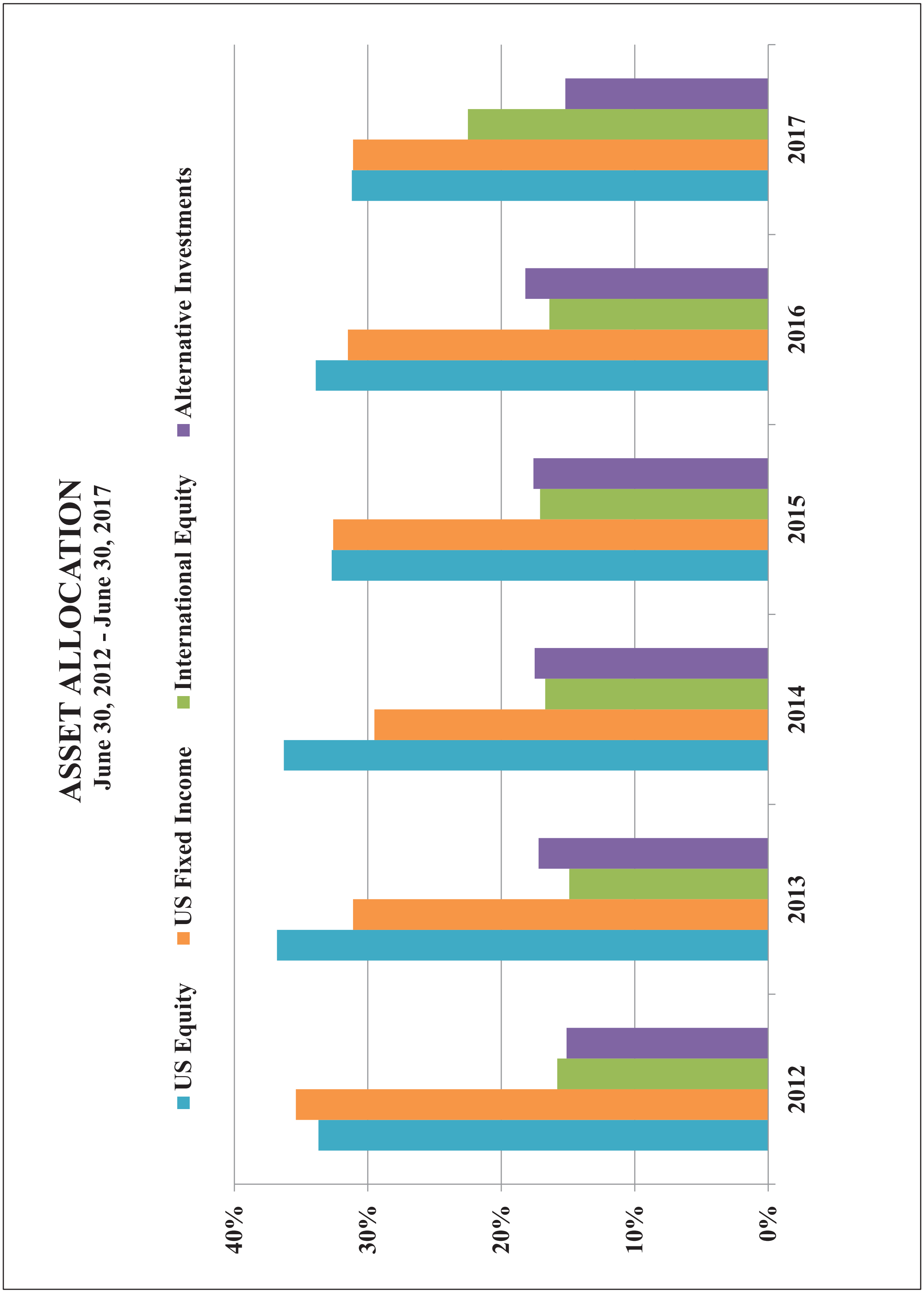
COMPARISON OF ASSET ALLOCATION AND POLICY MIX

June 30, 2017



	US Equity	US Fixed Income	International Equity	Alternative Investments
Asset Mix	31.2%	31.1%	22.5%	15.2%
Policy Mix	29.0%	33.0%	20.0%	18.0%

Note: Percentages exclude collateral from securities lending.


ASSET ALLOCATION
June 30, 2012 - June 30, 2017
US Equity
US Fixed Income
International Equity
Alternative Investments
40%
30%
20%
10%
0%
2012
2013
2014
2015
2016
2017

LIST OF LARGEST EQUITY HOLDINGS
(at Fair Value)
June 30, 2017

	Security	Shares	Fair Value	Percent of Domestic Equities
1	Apple Inc	3,753,707	$ 540,608,882	2.85%
2	Microsoft Corporation	5,288,243	364,518,590	1.92%
3	Alphabet Inc	391,788	360,064,291	1.90%
4	Exxon Mobil Corporation	3,242,068	261,732,150	1.38%
5	Amazon.com Inc	261,574	253,203,632	1.34%
6	Johnson & Johnson Company	1,866,226	246,883,038	1.30%
7	J.P. Morgan Chase & Company	2,691,315	245,986,191	1.30%
8	Facebook Inc	1,509,909	227,966,061	1.20%
9	Berkshire Hathaway Inc	1,310,564	221,970,225	1.17%
10	Wells Fargo & Company	3,213,729	194,896,592	1.03%
11	Bank Of America Corporation	7,454,609	188,001,656	0.99%
12	AT&T Inc	4,850,623	183,014,006	0.97%
13	General Electric Company	6,318,456	170,661,497	0.90%
14	Pfizer Inc	4,951,156	166,309,330	0.88%
15	Procter & Gamble Company	1,856,525	161,796,154	0.85%
16	Chevron Corporation	1,529,947	159,619,371	0.84%
17	Citigroup Inc	2,206,237	147,553,131	0.78%
18	UnitedHealth Group Inc	749,336	138,941,881	0.73%
19	Verizon Communications Inc	3,104,311	138,638,529	0.73%
20	Merck & Company Inc	2,106,532	135,007,636	0.71%
21	Comcast Corporation	3,404,100	132,487,572	0.70%
22	Home Depot Inc	857,244	131,501,230	0.69%
23	Intel Corporation	3,770,381	127,212,655	0.67%
24	International Business Machines Corporation	799,221	122,944,166	0.65%
25	PepsiCo Inc	1,050,801	121,357,007	0.64%
26	Coca-Cola Company	2,666,959	119,613,111	0.63%
27	Wal-Mart Stores Inc	1,562,343	118,238,118	0.62%
28	Cisco Systems Inc	3,581,564	112,102,953	0.59%
29	Visa Inc	1,191,544	111,742,996	0.59%
30	The Walt Disney Company	1,031,491	109,595,919	0.58%
31	Oracle Corporation	2,136,667	107,132,483	0.57%
32	Amgen Inc	530,040	91,288,789	0.48%
33	McDonald's Corporation	586,276	89,794,032	0.47%
34	3 M Company	413,436	86,073,241	0.45%
35	Boeing Company	407,516	80,586,289	0.43%
36	Abbvie Inc	1,073,145	77,813,744	0.41%
37	Medtronic PLC	876,014	77,746,243	0.41%
38	Master Card Inc	607,004	73,720,636	0.39%
39	Honeywell International Inc	511,781	68,215,289	0.36%
40	Union Pacific Corporation	621,810	67,721,327	0.36%
	Total		6,534,260,642	34.47%

Note: A full list of the plan's securities is available upon request.

LIST OF LARGEST BOND HOLDINGS
(at Fair Value)
June 30, 2017

	Security Description	Fair Value	Percent of Long Term Fixed Income
1	U.S. Treasury Securities	$ 5,213,118,322	38.57%
2	FNMA Securities	945,636,971	7.00%
3	GNMA Securities	511,620,462	3.79%
4	Federal Home Loan Mortgage Corporation	436,333,163	3.23%
5	Community/Economic Development Bonds	144,048,867	1.07%
6	Federal Home Loan Bank	88,235,820	0.65%
7	Citigroup & Subsidiaries	71,473,097	0.53%
8	Bank of America Corporation	68,494,598	0.51%
9	Charter Communications Operating LLC	68,132,999	0.50%
10	Verizon Communications Inc	63,208,586	0.47%
11	HCA Inc	59,720,635	0.44%
12	Morgan Stanley	59,651,195	0.44%
13	The Tennessee Valley Authority	57,840,906	0.43%
14	Goldman Sachs Group	57,345,654	0.42%
15	J.P. Morgan Chase & Subsidiaries	53,250,213	0.39%
16	Sprint Corporation	51,318,144	0.38%
17	Dish Network Corporation	45,103,115	0.33%
18	Tenet Healthcare Corporation	37,450,454	0.28%
19	Reynolds American Inc	32,449,322	0.24%
20	Frontier Communications Corporation	32,261,171	0.24%
21	Anheuser-Busch InBev	31,904,806	0.24%
22	Ford Company & Subsidiaries	30,760,495	0.23%
23	Valeant Pharmaceuticals International Inc	30,315,433	0.22%
24	Ally Financial Inc	30,290,287	0.22%
25	Apple Inc	29,767,719	0.22%
26	Becton Dickinson and Company	28,205,013	0.21%
27	T-Mobile US Inc	28,052,523	0.21%
28	Wells Fargo & Company	27,742,537	0.21%
29	Banco Santander, S.A. & Subsidiaries	27,012,571	0.20%
30	The Priceline Group Inc	26,320,610	0.19%
31	AT&T Inc	24,802,292	0.18%
32	Oracle Corporation	24,758,572	0.18%
33	CenturyLink Inc	24,346,722	0.18%
34	Energy Transfer Partners	23,311,386	0.17%
35	SBA Communications Corporation	22,790,798	0.17%
36	General Motors Company	22,786,529	0.17%
37	NRG Energy Inc	22,361,305	0.17%
38	Navient Corporation	21,872,559	0.16%
39	The European Investment Bank	21,736,880	0.16%
40	Abbott Laboratories	21,556,574	0.16%
	Total	8,617,389,303	63.76%

Note: This table lists the issuers of NYCERS' 40 largest long term fixed income securities. For most issuers, the amount shown is comprised of multiple securities with various maturity dates and interest rates. A full list of the plan's securities is available upon request.

SCHEDULE OF INVESTMENT RESULTS
Time-Weighted Rates of Return

	Year Ended June 30[1]			Trailing[2]		
	2017	2016	2015	3 Years	5 Years	10 Years
Total Portfolio	12.99%	1.52%	3.11%	6.01%	9.37%	5.65%
NYCERS' Policy Benchmark	12.93%	2.28%	3.95%	6.29%	9.51%	5.90%
Managed by Outside Advisors						
US Equity	18.09%	1.68%	6.35%	8.58%	14.45%	7.14%
Russell 3000 Index	18.51%	2.14%	7.29%	9.10%	14.58%	7.26%
International Equity	22.69%	-8.40%	-5.91%	2.18%	7.62%	1.51%
MSCI AC World ex US (Net) Index	20.45%	-10.24%	-5.26%	0.80%	7.22%	1.13%
Total Fixed Income	3.14%	4.44%	1.23%	3.04%	3.94%	5.86%
Fixed Income - Structured	0.34%	6.56%	1.88%	2.96%	3.15%	5.61%
NYC - Core Plus Five Index	-0.21%	7.16%	2.08%	2.97%	2.68%	5.20%
Fixed Income - Enhanced Yield	11.62%	0.28%	-0.46%	4.02%	6.87%	7.50%
Citigroup BB & B Index	11.47%	0.83%	0.28%	4.07%	6.21%	6.25%
Private Equity	16.45%	6.36%	12.24%	11.61%	11.66%	8.92%
NYC R3000 + 3% Lagged Index	21.56%	2.65%	15.71%	13.02%	16.43%	11.82%
Private Real Estate	10.24%	12.95%	16.06%	13.06%	13.05%	5.34%
NCREIF NFI-ODCE NET + 100 BP Index	7.96%	11.90%	14.51%	11.42%	11.86%	-
Hedge Funds	2.49%	-3.58%	3.89%	0.88%	3.54%	-
HFRI Composite + 1% Index	7.54%	-4.50%	4.99%	2.57%	4.90%	-
In-House Portfolio						
Short Term Investments	0.72%	0.51%	0.52%	0.58%	0.46%	1.14%

Notes:
1) For 2017, 2016, and 2015, the investment returns are reported net of fees.
2) For trailing 3, 5, and 10 years, the investment returns are reported gross of fees.

SCHEDULE OF FEES PAID TO INVESTMENT MANAGERS AND CONSULTANTS
Year Ended June 30, 2017

Entity Name	Assets under Management (in thousands)	Fees (in dollars)
Investment Managers' Fees		
Fixed Income		
Advent (Convertible Bonds)	$ 349,253	$ 1,726,881
Barrow, Hanley, Mewhinney & Strauss (Credit Sector)	578,312	968,082
BlackRock (Corporate)	662,697	386,278
BlackRock (Government Sector)	773,063	272,260
BlackRock (Mortgage)	887,173	415,586
Fort Washington (Enhanced Yield)	128,960	250,410
GIA Partners LLC (Emerging Mgrs)	105,091	256,680
Goldman Sachs-TCW (Mortgage)	180,092	484,728
Hillswick Asset (Emerging Mgrs)	9,886	36,660
Integrity Fixed Income (Emerging Mgrs)	11,982	44,486
Loomis Sayles (Enhanced Yield)	464,778	1,397,363
Neuberger Berman Fixed Income (Enhanced Yield)	388,905	1,389,736
Neuberger Berman Fixed Income (Mortgage Sector)	588,779	305,625
New Century Advisors-Core Plus (Emerging Mgrs)	26,817	91,628
Oaktree (Enhanced Yield)	364,960	1,413,262
Penn Capital Management (Enhanced Yield)	141,703	479,832
PIM Ramirez Asset (Emerging Mgrs)	37,894	128,531
Prudential (Corporate)	1,029,929	807,964
Pugh Capital Management-Core (Emerging Mgrs)	30,027	101,835
Shenkman Capital Management (Enhanced Yield)	192,357	654,656
Smith Breeden Associates-TCW (Mortgage)	251,053	181,929
SSGA 1-3 Treasury Inde (Gov't)	1,585,365	79,618
SSGA Int Gov Bond Inde (Gov't)	501,383	11,613
State Street Bank and Trust Co (Gov't)	1,074,975	315,977
Stone Harbor (Enhanced Yield)	223,107	804,806
T. Rowe Price (Corporate)	905,226	1,040,804
T. Rowe Price (Enhanced Yield)	458,801	1,163,972
Taplin Canida & Habacht (Corporate)	670,017	615,229
Victory (Convertible Bonds)	218,332	623,599
Wellington Management (Mortgage)	165,959	352,862
Total Fixed Income	**13,006,873**	**16,802,894**
Domestic Equity		
Amalgamated S&P 500	5,119,804	149,986
Attucks Asset Management (Emerging)	197,274	791,939
BlackRock Inst. R 1000 (Growth)	3,088,019	126,497
BlackRock Inst. R 1000 (Value)	2,964,127	122,427
Capital Prospects LLC (Emerging)	56,392	354,013
Ceredex SCV (Small Cap Value)	285,400	1,522,245
Daruma Asset Management LCC	-	(308,366)
F.I.S. Fund Mgmt. (Emerging)	149,218	1,049,996
RAFI Enhanced Large Companies	1,568,604	1,893,524
RAFI Enhanced Small Companies	977,073	2,007,122
State Street (Russell 3000)	1,885,753	125,076
State Street (S&P 400 Mid Cap)	1,013,705	74,386

Continued on next page

SCHEDULE OF FEES PAID TO INVESTMENT MANAGERS AND CONSULTANTS
Year Ended June 30, 2017

Entity Name	Assets under Management (in thousands)	Fees (in dollars)
Total Progress Investment Management Co	$ 248,170	$ 1,527,794
VTL S&P 500 (Large Cap)	531,780	558,072
Walden Asset Mgmt (Oppt. Strategic/Envir Global)	263,673	1,289,863
Wellington SCV (Small Cap Value)	182,568	1,293,920
Total Domestic Equity	**18,531,562**	**12,578,493**
Private Equity		
ACON Equity Partners III LP	10,124	86,805
Aisling Capital II LP	1,711	(1,490)
Aisling Capital III LP	8,817	240,447
Altaris Health Partners III LP	4,102	240,384
American Securities Partners VI LP	95,610	825,597
American Securities Partners VII LP	15,414	1,058,273
Apax Partners LLP	172	1,472,716
Apollo Investment Fund VIII	86,932	725,026
Ardian-ASF VII	10,152	(321,904)
Ardian Secondary VI	54,915	(205,000)
Ares Corp Opportunities Fund II	5,409	(24,629)
Ares Corp Opportunities Fund III	63,640	239,418
Ares Corp Opportunities Fund IV	108,737	1,359,574
Ares Corp Opportunities Fund V	2,117	439,639
Arsenal Capital Partners II	8,812	(10,537)
Avista Capital Partners	19,154	275,200
AXA Secondary Fund V BLP	68,079	(6,190)
BC European Capital IX	107,567	1,131,087
BDCM Opportunity Fund II	33,421	349,752
Blackstone Capital Partners IV	508	(201,059)
Blackstone Capital Partners V	26,468	54,889
Blackstone Capital Partners VI	111,945	399,710
Blackstone Mezz. Partners II	405	606
Bridgepoint Europe IV	13,026	119,702
Bridgepoint Europe V	21,704	837,753
Brookfield Infr Fund II	64,320	738,750
Capital Partners Private Equity Income Fund II LP	4,754	67,336
Carlyle Partners V	23,972	209,752
Carlyle Partners VI	42,319	284,041
Catterton Partners VI	31,398	421,162
CCMP Capital Investors II	10,753	(111,812)
Centerbridge Cap III	7,166	361,623
CO-Investment Partners Europe	12,896	100,213
Constellation Ventures III	13,552	234,879
Credit Suisse Custom Fund Investment Grade	55	(7,000)
Credit Suisse Emerging Market Domestic Mgrs Fund	85,292	1,002,681
Crestview Partners II	42,393	368,851
Crestview Partners III	20,349	316,585
CVC Capital Partners VI	60,183	705,941
EQT VI LP	108,269	1,084,047

Continued on next page

SCHEDULE OF FEES PAID TO INVESTMENT MANAGERS AND CONSULTANTS
Year Ended June 30, 2017

Entity Name	Assets under Management (in thousands)	Fees (in dollars)
EQT VII LP	$ 46,790	$ 1,989,506
Fairview Emerging Managers	49,535	(6,499)
First Reserve Fund XII	13,929	191,821
Fourth CINVEN Fund	6,426	(429,836)
FS Equity Partners V	2,253	12,157
FS Equity Partners VI	32,387	110,045
FT Ventures Fd III	16,604	683,490
FTV Capital IV	16,835	110,100
FTV Capital V	995	274,125
GI Partners Fund II	5,595	1,243
GI Partners Fund III	19,778	324,404
Green Equity Investors VI	127,678	190,520
Grey MT Ptnrs Fund III	2,754	57,361
GSC Recovery III	2,126	613
GSO Capital Opportunities Fund	2,745	59,661
Halyard Capital II	8,557	67,070
Incline Equity Partners III LP	7,152	98,764
InterMedia Partners VII	21,034	178,287
J.P. Morgan Fleming Tranche B	31,973	343,517
J.P. Morgan Investment Management	23,092	241,439
Lee Equity Partners	407	(50,000)
Levine Leichtman CAP Partners IV	10,172	34,360
Lexington Capital Partners VII	22,001	260,507
Lexington Capital Partners VIII	27,062	1,123,329
Lincolnshire Equity Fund III	23,286	348,004
Lincolnshire Equity Fund IV	23,662	130,539
Midocean Partners III	43,037	375,494
Mill City Capital	2,381	82,091
New Mainstream Capital II	4,043	79,122
New Mountain Partners III	78,984	366,761
NYC-ERS-Platinum IV	10,957	438,374
Olympus Growth Fund VI	42,179	682,985
Onex Partners III	62,881	(522,643)
Paladin Homeland Security III	30,709	459,084
Palladium EQ Partners IV	33,630	834,506
Pegasus Partners IV LP	13,776	211,551
Pegasus Partners V LP	25,739	259,457
Pine Brook Capital Partners	17,588	241,706
Platinum Equity Capital Partners III	63,121	(772,451)
Quaker BioVentures II LP	10,114	196,258
Raine Partners II	7,505	180,000
Riverstone/Carlyle GLB EP IV	23,133	154,187
RLJ Equity Partners Fund 1	21,684	72,990
RRE Ventures III	2,347	98,585
RRE Ventures IV	44,136	195,242
SCP Vitalife Partners II	12,285	(89,509)
Siris Capital Group LLC	12,845	221,333

Continued on next page

SCHEDULE OF FEES PAID TO INVESTMENT MANAGERS AND CONSULTANTS
Year Ended June 30, 2017

Entity Name	Assets under Management (in thousands)	Fees (in dollars)
Snow Phipps Group II	$ 30,243	$ 278,409
Snow, Phipps & Guggenheim	11,729	138,537
Stellex Capital Management LP	5,717	265,913
Terra Firma Cap III-Contingent	20,141	183,120
Trident V LP A160	114,904	917,545
Trilantic Capital Partners IV	15,249	149,593
Trilantic Capital Partners V	42,225	393,369
Valor Equity Partners	7,373	200,000
Vista Equity Partners III	13,447	59,830
Vista Equity Partners IV	119,953	1,187,367
Vista Equity Partners V	114,391	1,652,574
Vista Equity Partners VI	52,507	1,931,346
Vista Foundation Fund II	14,585	300,000
VSS Comm Partners IV	2,003	(30,000)
Warburg Pincus PE XII	34,932	1,952,250
Webster Capital Management LLC	8,278	169,435
Well Spring Capital Partners V	27,944	487,406
Yucaipa American Alliance Fund II	127,280	(60,495)
Yucaipa Corp Initiative II	24,954	139,308
Total Private Equity	**3,302,364**	**35,287,975**
Private Equity-Opport. & Global Fixed Income		
Angelo Gordon CT ST Partners	152,682	1,160,623
Apollo Centre St. Partnership LP	194,854	1,403,086
Contrarian C A LLC	91,466	629,596
Fortress CTR ST Partners	136,105	1,700,263
Golden Tree OD MTA 111	187,165	1,167,157
Lone Star Fund VIII	45,525	263,742
Marathon CTR ST Partners	271,867	1,877,479
NYC-ERS-ARES Centre Street	144,921	1,295,729
Oak Hill Ctr. St. Partners	166,051	1,243,648
Oaktree OPP FD IX	97,001	1,572,692
Prudential-Privest	190,468	(69,341)
Torchlight Investors	17,326	725,834
Total Private Equity-Opport. & Global Fixed Income	**1,695,433**	**12,970,508**
Private Real Estate		
Actis GP LLP	1,388	836,710
Almanac Realty Securities VII	26,380	816,195
Almanac Realty Securities VII-Side Car	866	3,068
Apollo Real Estate Fund V LP	11,373	114,878
Avanath Capital	6,758	105,964
Blackstone Real Estate Partners Europe III	32,377	379,255
Blackstone Real Estate Partners IV	143,087	1,907,362
Blackstone Real Estate Partners VI	44,125	386,612
Blackstone Real Estate Partners VII	157,437	1,423,992
Blackstone Real Estate Partners VIII	61,554	1,887,500
Brookfield Infra Fund III	15,351	846,828

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SCHEDULE OF FEES PAID TO INVESTMENT MANAGERS AND CONSULTANTS
Year Ended June 30, 2017

Entity Name	Assets under Management (in thousands)	Fees (in dollars)
Brookfield Strategic RE Partners GP LLC	$ 111,137	$ 407,243
Canyon Johnson Urban Fund II	439	3,571
Canyon Johnson Urban Fund III	584	4,142
Carlyle Partners R.P. Fund V	6,501	33,322
Carlyle Partners R.P. Fund VI	35,326	220,336
Carlyle Partners R.P. Fund VII	46,858	610,125
DRA Advisors LLC	7,367	65,259
EMMES Interborough Fund LLC	65,840	537,017
First Reserve Energy Infrastructure GP II	13,436	394,627
FRM Sandy Manager LLC	86,759	919,469
Global Infrastructure Prt. III	16,775	1,759,165
Heitman America RE Trust	220,272	715,989
Hudson Sandy Manager LLC	24,985	281,174
J.P. Morgan Chase SP Fund	267,315	3,277,954
J.P. Morgan Chase SS Fund	115,126	2,712,396
Jamestown Premier Fund	37,810	244,814
KKR GI Inf. Fd II	26,227	168,659
LaSalle US Property Fund	68,865	338,264
Prisa	113,704	185,000
Prisa II	193,263	376,859
Prisa III	130,318	2,321,049
PW Real Estate Fund III LP	11,401	514,699
RREEF America II Inc	114,971	1,080,925
RREEF America III Inc	1,544	28,058
Silverpeak Legacy Partners III	5,674	135,301
UBS Trumball Property Fund (TPF)	273,041	3,431,462
Westbrook RE Fund X CO-INVEST	3,793	519,448
Westbrook Real Estate VII LP	13,819	136,106
Westbrook Real Estate VIII LP	9,888	129,812
Total Private Real Estate	**2,523,734**	**30,260,610**
International Equity		
Acadian (Emerging Markets)	627,256	2,114,329
Acadian (Small Cap)	375,339	1,206,941
Baillie Gifford Overseas Ltd (Emerging Markets)	645,786	3,418,814
Baillie Gifford Overseas Ltd (Growth)	1,048,516	2,579,352
Causeway EAFE Large Cap Value	1,010,298	3,470,788
CONY GT NYCERS BlackRock-MSCI EM MKTS INDEX MTA	1,743,265	899,092
DFA (Emerging Markets)	667,544	2,883,329
Eaton Vance EM MTA 321 (Emerging Markets)	610,568	2,828,519
Generation GE (Opportunistic Strategic)	249,024	2,972,766
LM Capital MTA (Opportunistic Strategic)	291,805	435,060
Pyramis EAFE Small Cap MTA	355,871	2,191,656
Sprucegrove (Value)	1,044,221	2,147,209
SSGA EAFE MTA 121 (Value)	1,618,551	193,597
SSGA MSCI EAFE Small Cap Index MTA	332,990	153,721
Thornburg (EAFE Markets Equities-Core)	642	(30)

Continued on next page

SCHEDULE OF FEES PAID TO INVESTMENT MANAGERS AND CONSULTANTS
Year Ended June 30, 2017

Entity Name	Assets under Management (in thousands)	Fees (in dollars)
Total International Bivium	$ 95,149	$ 108,460
Total International FIS	94,964	65,514
Total International Leading Edge	95,687	118,906
Total Progress International	36,243	282,603
Walter Scott EAFE Large Cap	1,098,557	3,225,054
Total International Equity	**12,042,276**	**31,295,680**
Hedge Funds		
Brevan Howard	18,908	512,932
Brevan Howard Opp.	97,322	903,201
Caspian Select Credit Fund LP	111,818	270,720
CCP Quantitative Fund	66,010	958,993
D.E. Shaw Investment Management LLC	78,577	1,214,235
Fir Tree Value Fund LP	50,606	963,529
Permal Asset Mgt-Citco Fund Serv (Curacao) NV	145,441	218,014
Perry Capital	24,024	343,315
Pharo Gaia Fd Ltd	38,259	638,022
SRS Investment Management	8,039	127,900
Standard General	28,644	786,818
Total Hedge Funds	**667,647**	**6,937,679**
Mutual Fund - Mortgages		
Access Capital Strategies	105,744	247,984
AFL-CIO Housing Investment Trust	303,625	1,211,939
Total Mutual Funds - Mortgages	**409,369**	**1,459,923**
Treasury Inflation Protected Securities (TIPS)		
BlackRock	601,367	332,669
State Street (Passive)	1,851,067	92,129
Total TIPS	**2,452,434**	**424,799**
Mutual Fund - Domestic Equity		
BlackRock Inst. R 2000 (Growth)	237,848	9,733
BlackRock Inst. R 2000 (Value)	67,923	2,811
Total Mutual Funds - Domestic Equity	**305,771**	**12,544**
Mutual Fund - Fixed Income Bank Loan		
Babson Capital Management MTA	291,488	973,940
Credit Suisse BL MTA	299,718	664,152
Guggenheim BL MTA	189,982	749,416
Invesco BL MTA	290,933	1,072,876
Total Mutual Funds - Fixed Income Bank Loan	**1,072,121**	**3,460,385**
Total For All Investment Managers	**56,009,583**	**151,491,489**

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SCHEDULE OF FEES PAID TO INVESTMENT MANAGERS AND CONSULTANTS
Year Ended June 30, 2017

Entity Name	Assets under Management (in thousands)	Fees (in dollars)
Consultant Fees		
Aksia		$ 302,050
Callan Associates Inc		414,806
Courtland Partners Ltd		127,706
Ernst & Young		5,095
Institutional Shareholders Services		57,937
Price Waterhouse Coopers		8,975
SEC Board of India		83
Stepstone Group LLC		1,426,000
The Townsend Group		429,602
Total Consultant Fees		**2,772,256**
Legal Fees		
Bryan Cave LLP		
Cox, Castle & Nicholson LLP		65,821
Daypitney LLP		21,507
Foster, Pepper PLLC		76,457
Herrick Feinstein LLP		209
Morgan, Lewis & Bockius LLP		127,994
Nixon Peabody LLP		21,607
Phillsbury Winthrop Shaw Pittman LLP		9,296
Reinhart Boerner Van Deuren		56,682
Seward Kissel		37,263
Total Legal Fees		**416,836**
Total Fees FY 2017		**154,680,581**

Note: Investment managers' fees paid out of investment income

SCHEDULE OF BROKERS' COMMISSIONS
Year Ended June 30, 2017

Brokerage Firm	Number of Shares Traded	Total Commissions
ABLE NOSER	47,868	$ 1,078
ABN AMRO CLEARING BANK NV	390,744	2,596
ACADEMY SECURITIES INC	65,431	1,453
ALLEN & COMPANY LLC	19,283	738
AMERICAN PORTFOLIOS FINANCIAL	1,444	72
ARCTIC SECURITIES ASA SLUTTSED	32,200	149
ARQAAM CAPITAL LIMITED	40,626	1,037
ATTIJARIWAFA BANK	13,265	2,456
AUTONOMOUS	61,817	2,090
AUTONOMOUS RESEARCH US LP	139,766	3,130
AVONDALE PARTNERS LLC	1,418	53
B RILEY & CO LLC	14,918	573
BANCO PACTUAL SA	1,008,700	4,892
BANCO SANTANDER CENTRAL HISPANO	1,446,191	6,987
BANK J VONTOBEL UND CO AG	21,140	3,938
BANK OF NOVA SCOTIA SCUSA	28,189	14
BARCLAYS CAPITAL	9,586,122	53,118
BARCLAYS CAPITAL INC/LE	2,772,558	19,439
BARCLAYS CAPITAL LE	434,143	11,194
BARCLAYS CAPITAL SECURITES LIMITED	72,930	732
BARRINGTON RESEARCH ASSOCIATES	970	34
BB & T SECURITIES LLC	10,520	316
BLAYLOCK ROBERT VAN LLC	375,408	11,262
BLOOMBERG TRADEBOOK LLC	12,352	222
BMO CAPITAL MARKETS	90,598	2,813
BNP PARIBAS SECURITIES SERVICES	11,563,887	36,985
BNP PARIBAS SECURITIES SERVICES AUSTR BR	353,037	1,452
BNP PARIBAS SECURITIES SERVICES SA	230,198,791	131,538
BNY CONVERGEX EXECUTION SOLUTIONS LLC	13,535,724	57,036
BRADESCO SA CTVM	1,832,348	9,066
BREAN CAPITAL LLC	27,587	652
BROADCORT CAPITAL (THRU ML)	230,280	4,878
BROADCORT CAPITAL CORP	6,900	242
BTIG LLC	1,062,407	35,824
BUCKINGHAM RESEARCH GROUP INC	31,755	1,278
CABRERA CAPITAL MARKETS	782,330	12,266
CANACCORD GENUITY INC	126,134	3,556
CANACCORD GENUITY LIMITED	28,821	133
CANADIAN IMPERIAL BANK OF COMMERCE	2,422,843	5,393
CANTOR CLEARING SERVICES	161	5
CANTOR FITZGERALD & CO	2,588,624	37,010
CANTOR FITZGERALD & CO / CASTLEOAK SEC	1,134	34
CANTOR FITZGERALD EUROPE	67,500	283
CANTOR FITZGERALD/CANTOR CLEARING SERV	1,682,279	7,841
CAPITAL INSTITUTIONAL SVCS INC EQUITIES	63,796	3,168
CARNEGIE BANK AS	2,100	56

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SCHEDULE OF BROKERS' COMMISSIONS

Year Ended June 30, 2017

Brokerage Firm	Number of Shares Traded	Total Commissions
CARNEGIE SECURITIES FINLAND	43,400	$ 655
CESKA SPORITELNA	53,104	1,768
CHEEVERS & CO INC	3,735,801	49,179
CHINA INTERNATIONAL CAPITAL CO	1,390,600	6,495
CIBC WORLD MKTS INC	90,110	3,058
CITATION GROUP	375,585	18,779
CITIBANK CANADA	118,900	2,723
CITIBANK NA	133,322	3,760
CITIBANK OF COLOMBIA	6,477	63
CITIGROUP GLOBAL MARKETS AUSTRALIA PTY	89,214	129
CITIGROUP GLOBAL MARKETS INC	92,518,310	129,422
CITIGROUP GLOBAL MARKETS INDIA	3,058,987	11,479
CITIGROUP GLOBAL MARKETS KOREA SECS LTD	19,947	26,972
CITIGROUP GLOBAL MARKETS TAIWAN	29,664,492	143,562
CJS SECURITIES INC	13,309	665
CL SECURITIES TAIWAN COMPANY LIMITED	4,531,500	6,565
CLSA AMERICAS	19,800	792
CLSA AUSTRALIA PTY LTD	1,307,924	2,234
CLSA SECURITIES KOREA LTD	4,606	1,067
CLSA SECURITIES MALAYSIA SDN BHD	5,435,200	9,801
CLSA SINGAPORE PTE LTD	25,595,780	69,189
COMPASS POINT RESEARCH & TRADING LLC	180,458	7,171
CONVERGEX EXECUTION SOLUTIONS LLC	94,136,942	221,492
CONVERGEX LLC	459,319	12,091
CORREVAL SA	459,482	3,151
COWEN AND COMPANY LLC	430,032	14,909
CRAIG HALLUM	57,262	1,928
CREDIBOLSA SOCIEDAD AGENTE	2,351,008	8,181
CREDIT LYONNAIS SECURITIES (ASIA)	35,445,923	33,933
CREDIT LYONNAIS SECURITIES (USA) INC	358,900	1,444
CREDIT LYONNAIS SECURITIES INDIA	19,119,900	111,420
CREDIT SUISSE FIRST BOSTON	17,544,175	49,182
CREDIT SUISSE FIRST BOSTON (EUROPE)	100,102	5,308
CREDIT SUISSE FIRST BOSTON SA CTVM	443,600	2,601
CREDIT SUISSE SECS INDIA PRIVATE LTD	2,241,994	13,813
CREDIT SUISSE SECURITIES (EUROPE) LTD	7,728,873	76,320
CREDIT SUISSE SECURITIES (USA) LLC	67,287,501	120,337
CS FIRST BOSTON (HONG KONG) LIMITED	57,000	795
CSFB AUSTRALIA EQUITIES LTD	1,338,994	4,863
CSI US INSTITUTIONAL DESK	310	11
CUTTONE & CO	19,906	448
DAEWOO SECURITIES CO LTD	43,968	363
DAIWA SBCM EUROPE	182,000	5,880
DAIWA SECURITIES (HK) LTD	3,376,427	1,675
DAIWA SECURITIES AMERICA INC	3,802,300	26,722
DAIWA SECURITIES COMPANY LTD	21,898	4,804

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SCHEDULE OF BROKERS' COMMISSIONS
Year Ended June 30, 2017

Brokerage Firm	Number of Shares Traded	Total Commissions
DANSKE BANK AS	223,236	$ 9,716
DAVY STOCKBROKERS	40,850	2,615
DBS VICKERS (HONG KONG) LIMITED	229,000	3,110
DBS VICKERS SECURITIES (SINGAPORE)	172,000	937
DEN NORSKE BANK	431,025	5
DEUTSCHE BANK AG LONDON	5,515,169	27,580
DEUTSCHE BANK SECURITIES INC	16,511,874	77,324
DEUTSCHE MORGAN GRENFELL SECS	463,896	1,530
DEUTSCHE SECURITIES ASIA LIMITED	312,103	1,920
DOUGHERTY & COMPANY LLC	34,457	1,175
DREXEL HAMILTON LLC	297,870	6,080
DSP MERRILL LYNCH LTD	291,780	8,491
ERSTE BANK BEFEKTETESI RT	861,390	12,131
EUROMOBILIARE SIM SPA	59,200	308
EXANE SA	3,132,352	18,204
FBR CAPITAL MARKETS & CO	179,406	4,927
FEDERATED MANAGED GROWTH & INCOME 17 A7	288,804	2,165
FIDELITY CAPITAL MARKETS	854	30
FIDELITY CLEARING CANADA ULC	166,000	3,320
FIG PARTNERS LLC	9,440	234
FINANCIAL BROKERAGE GROUP (FBG)	6,914,579	28,406
FIRST ANALYSIS SECURITIES CORP	2,440	76
FIRST CLEARING LLC	5,946	178
FIS BROKERAGE & SECURITIES SERVICES LLC	74,450	1,489
GABELLI & COMPANY	17,221	689
GOLDMAN SACHS & CO	30,559,975	120,270
GOLDMAN SACHS (ASIA) LLC	1,200	22
GOLDMAN SACHS (INDIA)	4,154,500	14,932
GOLDMAN SACHS DO BRASIL CORRETORA	260,900	1,118
GOLDMAN SACHS INTERNATIONAL	1,760,261	20,848
GOODBODY STOCKBROKERS	1,169,822	1,832
GREEN STREET TRADING LLC	12,400	447
GUGGENHEIM CAPITAL MARKETS LLC	74,297	1,136
GUZMAN AND COMPANY	1,055,861	11,989
HEIGHT SECURITIES LLC	10,054	352
HSBC	1,926,253	7,222
HSBC BANK USA	16,280,095	71,812
HSBC MEXICO SA INSTITUCION DE BANCA MLT	8,549	122
HSBC SECURITIES	10,582,550	12,763
HSBC SECURITIES (USA) INC	7,950,336	15,214
HSBC SECURITIES INDIA HOLDINGS	2,454,900	5,676
ICAP DO BRASIL DTVM LTDA	7,071,175	42,115
ICBC FINCL SVCS, EQUITY CLEARANCE	813,684	2,492
ICICI BROKERAGE SERVICES	1,375,080	4,188
IM TRUST SA CORREDORES DE BOLSA	78,598,706	11,359
IMPERIAL CAPITAL LLC	45,104	1,804

Continued on next page

SCHEDULE OF BROKERS' COMMISSIONS

Year Ended June 30, 2017

Brokerage Firm	Number of Shares Traded	Total Commissions
INDUSTRIAL AND COMMERCIAL BANK	14,513	$ 298
INSTINET	42,420,742	338,988
INSTINET AUSTRALIA CLEARING SRVC PTY LTD	836,202	2,529
INSTINET PACIFIC LIMITED	48,718,419	50,086
INSTINET SINGAPORE SERVICES PT	5,767,400	6,973
INSTINET UK LTD	41,924,875	207,179
INVESTEC BANK PLC	936,630	1,830
INVESTEC SECURITIES LTD	1,058,050	1,820
INVESTMENT TECHNOLOGY GROUP INC	1,714,327	18,761
INVESTMENT TECHNOLOGY GROUP LTD	10,442,217	37,698
ISI GROUP INC	699,705	13,419
ITG AUSTRALIA LTD	10,846,380	19,276
ITG CANADA	744,607	3,978
ITG INC	292,121	5,262
ITG SECURITIES (HK) LTD	12,242,405	8,380
IVY SECURITIES INC	947,552	31,269
JANNEY MONTGOMERY SCOTT INC	119,352	3,515
JEFFERIES & COMPANY INC	6,530,257	67,928
JEFFERIES INDIA PRIVATE LIMITED	2,230,008	6,568
JEFFERIES INTERNATIONAL LTD	48,513,065	25,531
JM FINANCIAL INSTITUTIONAL SECURITIES PR	903,510	6,915
JMP SECURITIES	33,709	1,182
JNK SECURITIES INC	23,784	951
JOH BERENBERG GOSSLER AND CO	223,850	11,609
JOHNSON RICE & COMPANY LLC	66,419	1,866
JONESTRADING INSTITUTIONAL SERVICES LLC	506,747	11,990
JP MORGAN CLEARING CORP	503,560	3,257
JP MORGAN INDIA PRIVATE LTD	331,432	1,796
JP MORGAN SECURITIES (ASIA PACIFIC) LTD	12,129,626	6,390
JP MORGAN SECURITIES (FAR EAST) LTD SEOUL	897,211	16,145
JP MORGAN SECURITIES (TAIWAN) LTD	4,081,000	6,409
JP MORGAN SECURITIES AUSTRALIA LTD	869,965	2,610
JP MORGAN SECURITIES INC	4,441,627	36,298
JP MORGAN SECURITIES LIMITED	216,223	945
JP MORGAN SECURITIES PLC	12,056,979	88,774
JP MORGAN SECURITIES SINGAPORE	2,299,900	1,159
KB SECURITIES NV	6,180	48
KCG AMERICAS LLC	343,271	2,296
KEEFE BRUYETTE & WOODS INC	671,835	19,755
KEMPEN & CO NV	59,500	858
KEPLER EQUITIES PARIS	247,724	4,182
KEYBANC CAPITAL MARKETS INC	594,863	14,583
KING CL & ASSOCIATES INC	15,114	453
KNIGHT EQUITY MARKETS LP	653,802	12,286
KNIGHT SECURITIES INTERNATIONAL	113,715	396
KOREA INVESTMENT AND SECURITIES CO LTD	190,508	11,976

Continued on next page

SCHEDULE OF BROKERS' COMMISSIONS
Year Ended June 30, 2017

Brokerage Firm	Number of Shares Traded	Total Commissions
LARRAIN VIAL	12,910,482	$ 2,282
LEERINK PARTNERS LLC	165,380	5,510
LEK SECURITIES CORP	4,705	165
LIQUIDNET EUROPE LIMITED	115,945	2,723
LIQUIDNET INC	3,524,837	56,928
LOOP CAPITAL MARKETS	48,696,249	397,272
LUMINEX TRADING AND ANALYTICS	56,160	589
MACQUARIE BANK LIMITED	18,109,369	44,336
MACQUARIE CAPITAL (EUROPE) LTD	776,065	2,730
MACQUARIE CAPITAL (USA) INC	343,415	2,771
MACQUARIE SEC NZ LTD	121,691	246
MACQUARIE SECURITIES (INDIA) PVT LTD	195,839	8,417
MACQUARIE SECURITIES (USA) INC	24,772	773
MACQUARIE SECURITIES KOREA LIMITED	150,045	19,697
MACQUARIE SECURITIES LIMITED	5,643,100	1,429
MACQUARIE SECURITIES LTD SEOUL	35,732	4,595
MAXIM GROUP	2,806	106
MERRILL LYNCH AND CO INC	3,121,827	14,453
MERRILL LYNCH INTERNATIONAL	72,877,670	264,131
MERRILL LYNCH PIERCE FENNER & SMITH	44,690,452	333,589
MERRILL LYNCH PROFESSIONAL CLEARING CORP	219,343	4,012
MIRAE ASSET DAEWOO CO LTD	61,629	5,252
MISCHLER FINANCIAL GROUP INC EQUITIES	398,151	5,576
MITSUBISHI UFJ SECURITIES	6,165	247
MITSUBISHI UFJ SECURITIES (USA)	15,700	343
MIZUHO INTERNATIONAL PLC	266,300	13,733
MIZUHO SECURITIES ASIA LIMITED	300	6
MIZUHO SECURITIES USA INC	408,041	5,883
MKM PARTNERS LLC	121,493	4,597
MONTROSE SECURITIES EQUITIES	5,900	44
MORGAN STANLEY AND CO INTERNATIONAL	18,834,405	55,828
MORGAN STANLEY AND CO INTL TAIPEI METRO	399,000	383
MORGAN STANLEY CO INCORPORATED	53,403,968	212,984
MORGAN STANLEY INDIA COMPANY PVT LTD	665,937	4,458
MORGAN STANLEY TAIWAN LIMITED	10,241,031	13,074
NATIONAL FINANCIAL SERVICES CORP	1,209,555	18,152
NATIONAL FINANCIAL SERVICES LLC	76,809	1,724
NATIXIS SECURITIES	18,800	4,063
NEEDHAM AND COMPANY LLC	110,140	3,963
NESBITT BURNS	145,900	3,328
NH INVESTMENT AND SECURITIES CO LTD	96,454	2,242
NOMURA FINANCIAL ADVISORY & SEC INDIA	11,877,419	54,015
NOMURA FINANCIAL INVESTMENT KOREA CO LTD	186,355	1,074
NOMURA SECURITIES CO LTD	3,836,800	1,979
NORDEA BANK FINLAND PLC	111,300	894
NORTH SOUTH CAPITAL LLC	669,501	18,851

Continued on next page

SCHEDULE OF BROKERS' COMMISSIONS
Year Ended June 30, 2017

Brokerage Firm	Number of Shares Traded	Total Commissions
NORTHLAND SECURITIES INC	7,488	$ 254
NUMIS SECURITIES LIMITED	16,662	288
OPPENHEIMER & CO INC	29,221	1,025
ORD MINNETT LIMITED	10,226	79
OTR GLOBAL TRADING LLC	10,358	363
PAREL	202,494	7,799
PAVILION GLOBAL MARKETS LTD	1,431,070	15,134
PEEL HUNT LLP	61,888	43
PENSERRA SECURITIES	915,642	5,085
PERCIVAL FINANCIAL PARTNERS LTD	530,352	19,228
PERSHING LLC	4,928,146	36,655
PERSHING SECURITIES LIMITED	12,594,923	12,695
PIPER JAFFRAY	194,498	7,434
PIPER JAFFRAY LTD	33,694	1,685
RAYMOND JAMES AND ASSOCIATES INC	282,612	8,760
RBC CAPITAL MARKETS	546,425	13,620
RBC DOMINION SECURITIES CORPORATION	2,423	15
RBC DOMINION SECURITIES INC	2,986,994	30,215
REDBURN PARTNERS LLP	2,408,286	16,337
RENAISSANCE MACRO SECURITIES LLC	11,688	410
ROBERT W BAIRD CO.INCORPORATE	582,417	16,279
RONEY & CO	170	5
ROSENBLATT SECURITIES LLC	3,972	79
ROTH CAPITAL PARTNERS LLC	1,670	57
ROYAL BANK OF CANADA EUROPE LTD	1,329,359	25,989
SAMSUNG SECURITIES CO LTD	244,405	11,611
SAMUEL A RAMIREZ & COMPANY INC	120,354	829
SANDLER ONEILL AND PARTNERS LP	61,863	1,915
SANFORD C BERNSTEIN AND CO LLC	8,599,437	53,558
SANFORD C BERNSTEIN LTD	2,591,277	43,715
SANTANDER SECURITIES SERVICES SA	36,691	1,380
SCOTIA CAPITAL INC	1,782,800	10,256
SEAPORT GROUP SECURITIES LLC	100,552	1,972
SG AMERICAS SECURITIES LLC	5,143,946	25,553
SG ASIA SECURITIES (INDIA) PVT LTD	3,752,155	11,260
SG SECURITIES (LONDON) LTD	6,416,984	3,457
SG SECURITIES HK	78,963,950	33,324
SIDOTI & COMPANY LLC	70,180	3,230
SIEBERT CISNEROS SHANK & CO LLC	1,430	43
SKANDINAVISKA ENSKILDA BANKEN	16,500	142
SKANDINAVISKA ENSKILDA BANKEN LONDON	17,999	245
SMBC NIKKO CAPITAL MARKETS LIMITED	18,800	821
SMBC NIKKO SECURITIES (HONK KONG) LTD	6,594	19
SOCIETE GENERALE LONDON BRANCH	11,625,153	63,092
STATE STREET GLOBAL MARKETS	155,957	2,867

Continued on next page

SCHEDULE OF BROKERS' COMMISSIONS
Year Ended June 30, 2017

Brokerage Firm	Number of Shares Traded	Total Commissions
STEPHENS INC	346,899	$ 13,402
STERNE AGEE & LEACH INC	281,114	14,056
STIFEL NICOLAUS AND COMPANY INCORPORATED	1,153,217	37,226
STOCK DISTRIBUTION	25,742	1,287
STRATEGAS SECURITIES LLC	396,875	9,922
SUNTRUST CAPITAL MARKETS INC	331,882	10,851
SVENSKA HANDELSBANKEN	2,823	113
TAIWAN DEPOSITORY CLEARING CORPORATION	7,992,000	13,558
TD SECURITIES (USA) LLC	92,708	1,854
TELSEY ADVISORY GROUP LLC	551,242	11,874
TERA MENKUL DEGERLER AS	287,652	609
THE VERTICAL TRADING GROUP	7,622	305
THOM P REYNOLDS SEC (THRU BEAR STEARNS)	173,992	844
TORONTO DOMINION BANK	126,812	1,626
TORONTO DOMINION SECURITIES INC	1,410,400	8,105
UBS AG	23,970,884	80,739
UBS LIMITED	43,753,101	213,216
UBS SECURITIES ASIA LTD	29,117,902	48,885
UBS SECURITIES CANADA INC	516,950	3,065
UBS SECURITIES INDIA PRIVATE LTD	729,653	3,704
UBS SECURITIES LLC	12,027,377	53,984
UBS SECURITIES PTE LTD SEOUL	151,894	13,387
UBS WARBURG AUSTRALIA EQUITIES	6,204,843	7,591
WALL STREET ACCESS	153,813	1,219
WEDBUSH MORGAN SECURITIES INC	122,358	3,529
WEEDEN & CO	25,188,148	245,423
WELLS FARGO SECURITIES LLC	1,077,121	18,831
WILLIAM BLAIR & COMPANY LLC	495,286	20,507
WILLIAM O'NEIL & CO	12,094	484
WILLIAMS CAPITAL GROUP LP (THE)	8,992,496	134,404
WOLFE TRAHAN SECURITIES	2,548	89
WOORI INVESTMENT SECURITIES	57,152	818
XP INVESTIMENTOS CCTVM SA	2,727,401	21,797
YAMNER & CO INC (CLS THRU 443)	87,411	874
TOTAL	**1,822,945,660**	**6,459,493**

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PART 4

ACTUARIAL SECTION

OFFICE OF THE ACTUARY

255 GREENWICH STREET • 9TH FLOOR
NEW YORK, NY 10007
(212) 442-5775 • FAX: (212) 442-5777

SHERRY S. CHAN
CHIEF ACTUARY

December 7, 2017

Board of Trustees
New York City Employees' Retirement System
335 Adams Street, Suite 2300
Brooklyn, NY 11201-3751

Re: Actuarial Information for the Comprehensive Annual Financial Report (CAFR) for the Fiscal Year Ended June 30, 2017.

Dear Members of the Board of Trustees:

The financial objective of the New York City Employees' Retirement System (NYCERS or the Plan) is to fund members' retirement benefits during their active service by establishing 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, are intended to 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, 2015 (Lag) actuarial valuation to determine Fiscal Year 2017 Employer Contributions (the Actuarial Contribution)).

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

For Fiscal Year 2017, the Actuarial Contributions to NYCERS, are equal to those recommended by the Actuary of the New York City Pension Funds and Retirement Systems (the Actuary) and represent the Statutory Contributions.

Board of Trustees
New York City Employees' Retirement System
December 7, 2017
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During June 2012 the Governmental Accounting Standards Board (GASB) released two accounting standards for public pension plans, Statement No. 67 (GASB67) and Statement No. 68 (GASB68), collectively "GASB67/68".

On September 29, 2017, the Actuary published the "GASB 67/68 Report for the City of New York and the New York City Retirement Systems For Fiscal Year Ended June 30, 2017" (the Fiscal Year 2017 GASB67/68 Report). Appendix A of the Fiscal Year 2017 GASB67/68 Report contains information developed in accordance with GASB67 for NYCERS.

Actuarial Assumptions and Methods

The Actuary issued a Report entitled "Proposed Changes in Actuarial Assumptions and Methods for Determining Employer Contributions for Fiscal Years Beginning on and After July 1, 2011 for the New York City Employees' Retirement System," dated February 10, 2012. Components of the Actuary's proposed changes required the enactment of legislation by the New York State Legislature and Governor.

The Board of Trustees of NYCERS adopted those changes in actuarial assumptions that require Board approval during Fiscal Year 2012. The New York State Legislature and the Governor enacted Chapter 3 of the Laws of 2013 (Chapter 3/13) to provide for those changes to the actuarial assumptions and methods that require legislation, including the Actuarial Interest Rate (AIR) assumption of 7.0% per annum, net of investment expenses. Together, this package of actuarial assumptions and methods is referred to as the "2012 A&M."

In Fiscal Year 2016, the Actuary proposed and the Board of Trustees adopted, revised post-retirement mortality assumptions for use in determining employer contributions beginning in Fiscal Year 2016. In addition, beginning in Fiscal Year 2016, the Actuary revised the Actuarial Asset Valuation Method by constraining the Actuarial Value of Assets to be no more than 20% from the Market Value of Assets. The 2012 A&M reflecting these revisions is referred to herein as the "2016 A&M."

The "Summary of Actuarial Assumptions and Methods in Effect for the June 30, 2015 (Lag) Actuarial Valuation" provided later in this Actuarial Section of the CAFR presents the 2016 A&M. There were no changes to any of the actuarial assumptions and methods since the prior year. These actuarial assumptions and methods (2016 A&M) used for funding purposes meet the parameters set forth by the Actuarial Standards of Practice (ASOPs).

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New York City Employees' Retirement System
December 7, 2017
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Benefits and Census Data

A summary of the benefits applicable to Plan members included in the June 30, 2015 (Lag) actuarial valuation is shown earlier in the Introductory Section of the CAFR. There are no changes in any of the plan provisions since the prior year.

Census data is submitted by the Plan's administrative staff and by the employer's payroll facilities and is reviewed by the Office of the Actuary (OA) for consistency and reasonability.

A summary of the census data used in the June 30, 2015 (Lag) actuarial valuation is included in this CAFR. A summary of the census data used in the June 30, 2014 (Lag) actuarial valuation of the Plan is available in the Fiscal Year 2016 CAFR.

Funded Status

The Funded Status of the Plan is usually expressed by the relationship of Assets to Liabilities.

With respect to the Funded Status of the Plan, included in the Actuarial Section of the CAFR is a schedule of Funded Status based on the Entry Age Normal cost method (Table 16).

Also included in the Actuarial Section of the CAFR is a Solvency Test (i.e. Comparative Summary of Accrued Liabilities Funded by Actuarial Value of Assets) (Table 17) as prescribed by the Government Finance Officers Association (GFOA). This Solvency Test represents an alternative approach to describing progress toward funding objectives.

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 GASB67.

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

- Summary of Actuarial Assumptions and Methods in Effect for the June 30, 2015 (Lag) Actuarial Valuation.

- Active Member Valuation Data.

- Number and Salary of Active Members by Occupational Position as of June 30, 2015 (Lag) Actuarial Valuation.

Board of Trustees
New York City Employees' Retirement System
December 7, 2017
Page 4

- Number of Active Members by Occupational Position and Age as of June 30, 2015 (Lag) Actuarial Valuation.

- Number of Active Members by Occupational Position and Years of Service as of June 30, 2015 (Lag) Actuarial Valuation.

- Participating Employers.

- Summary of Plan Membership.

- Retirees and Beneficiaries Added to and Removed from Rolls.

- Statutory vs. Actuarial Contributions.

- Funded Status based on Entry Age Normal Cost Method.

- Comparative Summary of Accrued Liabilities Funded by Actuarial Value of Assets – Solvency Test.

- Contributions.

Some items in the Financial Section and Statistical Section of the CAFR were also prepared by the OA.

If you have any questions about any of the information in this Actuarial Section or any of the actuarial information presented elsewhere in this CAFR, please do not hesitate to contact Mr. Michael J. Samet, Mr. Edward Hue, or me.

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New York City Employees' Retirement System
December 7, 2017
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Acknowledgement of Qualification

I, Sherry S. Chan, am the Chief Actuary for, and independent of, the New York City Retirement Systems and Pension Funds. I am a Fellow of the Society of Actuaries, an Enrolled Actuary under the Employee Retirement Income and Security Act of 1974 (ERISA), a Member of the American Academy of Actuaries, and a Fellow of the Conference of Consulting Actuaries. I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. To the best of my knowledge, the results contained herein have been prepared in accordance with generally accepted actuarial principles and procedures and with the Actuarial Standards of Practice issued by the Actuarial Standards Board.

Respectfully submitted,

Sherry Chan

Sherry S. Chan, FSA, EA, MAAA, FCA
Chief Actuary

SSC: mm

Att:

cc: Mr. Michael Goldson - New York City Employees' Retirement System
Ms. Chun Gong - New York City Employees' Retirement System
Mr. Edward Hue - New York City Office of the Actuary
Ms. Marlene Markoe-Boyd - New York City Office of the Actuary
Mr. Sam Rumley - New York City Office of the Actuary
Mr. Michael Samet - New York City Office of the Actuary
Keith Snow, Esq. - New York City Office of the Actuary
Ms. Melanie Whinnery - New York City Employees' Retirement System

199L&R:mm

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION

(1) 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 and Pension Funds (NYCRS) are conducted every two years.

Also, in accordance with the Administrative Code of the City of New York (ACNY), 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.

The Actuary issued a Report entitled "Proposed Changes in Actuarial Assumptions and Methods for Determining Employer Contributions for Fiscal Years Beginning on and After July 1, 2011 for the New York City Employees' Retirement System," dated February 10, 2012. Components of the Actuary's proposed changes required the enactment of legislation by the New York State Legislature and the Governor.

The Board of Trustees adopted those changes that require Board approval during Fiscal Year 2012. The New York State Legislature and the Governor enacted Chapter 3 of the Laws of 2013 (Chapter 3/13) to provide for those changes in actuarial assumptions and methods that require legislation, including the Actuarial Interest Rate (AIR) assumption of 7.0% per annum, net of investment expenses. Together, this package of actuarial assumptions and methods is referred to as the "2012 A&M."

In Fiscal Year 2016, the Actuary proposed and the Board of Trustees adopted, revised post-retirement mortality assumptions for use in determining employer contributions beginning in Fiscal Year 2016. In addition, beginning in Fiscal Year 2016, the Actuary revised the Actuarial Asset Valuation Method by constraining the Actuarial Value of Assets to be no more than 20% from the Market Value of Assets. The 2012 A&M reflecting these revisions is referred to herein as the "2016 A&M."

The actuarial assumptions and methods in effect for the June 30, 2015 (Lag) actuarial valuation are unchanged from those used in the June 30, 2014 (Lag) actuarial valuation.

(2) The investment rate of return assumption is 7.0% per annum, net of investment expenses.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

(3) The mortality table base rates for service and disability pensioners were developed primarily from an experience study of the Plan's pensioners, and the mortality table base rates for beneficiaries were developed from an experience study of the Plan's beneficiaries. Mortality Improvement Scale MP-2015, published by the Society of Actuaries in October 2015, was further applied to these rates. Sample probabilities by certain occupational groups for service and disability pensioners are shown in Tables 1a and 1b, respectively, and sample probabilities for beneficiaries are shown in Table 1c.

(4) Active Service tables by certain occupational groups are used to estimate various withdrawals from Active Service. Sample probabilities are shown in Table 2a for members withdrawing from Active Service due to Death or Disability who did not elect an improved retirement program and in Table 2b for members who elected an improved retirement program, in Table 3 for members withdrawing from Active Service for Other than Death, Disability, or Service Retirement, and in Table 4 for members withdrawing from Active Service for Service Retirement.

(5) Salary Scales are used to estimate salaries at termination, retirement, or death. Sample percentage increases are shown in Table 5 by certain occupational groups. The Salary Scales include a General Wage Increase (GWI) assumption of 3.0% per annum.

(6) The salary data was adjusted to reflect overtime earnings. A Baseline Overtime assumption is applied to most years and a separate overtime assumption, known as a Dual Overtime assumption, is applied to the years included in the calculation of Final Salary or Final Average Salary. Sample Baseline Overtime and Dual Overtime percentages are shown in Tables 6 and 7, respectively, for certain occupational groups.

(7) The economic assumptions (i.e. the assumed investment return rate, GWI rate, and Cost-of-Living Adjustments (COLA)) were developed assuming a long-term Consumer Price Inflation (CPI) assumption of 2.5% per annum. The assumption is 1.5% per annum for Auto COLA and 2.5% per annum for escalation.

(8) The valuation assumes a closed group of members.

(9) Beginning with the June 30, 2010 (Lag) actuarial valuation, the Entry Age Normal (EAN) cost method of funding is used by the Actuary to calculate the contribution required of the employer under the 2016 A&M.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

Under this method, the Actuarial Present Value (APV) of Benefits (APVB) of each individual included in the actuarial valuation is allocated on a level basis over the earnings between the age a member enters the plan and assumed exit age(s). The employer portion of this APVB allocated to a valuation year is the Normal Cost. The portion of this APVB not provided for at a valuation date by the APV of Future Normal Costs or future member contributions is the Actuarial Accrued Liability (AAL).

The excess, if any, of the AAL over the Actuarial Value of Assets (AVA) is the Unfunded Actuarial Accrued Liability (UAAL).

Under this method, actuarial gains and losses, as they occur, reduce and increase the UAAL, respectively, and are explicitly identified and amortized.

Increases or decreases in obligations due to benefit changes, actuarial assumption changes, and actuarial method changes are also explicitly identified and amortized.

Chapter 105 of the Laws of 2010 established, as of June 30, 2011, an Early Retirement Incentive (ERI) for certain NYCERS members. The UAAL attributable to the ERI is amortized on a level basis over a period of five years (4 payments under the One-Year Lag Methodology).

(10) One-Year Lag Methodology (Lag or OYLM) uses a June 30, XX-2 valuation date to determine Fiscal Year XX Employer Contributions.

The June 30, 2015 (Lag) actuarial valuation uses a June 30, 2015 valuation date to determine Fiscal Year 2017 Employer Contributions.

This methodology requires adjustments to determine the Fiscal Year 2017 Employer Contributions:

a. Present Value of Future Salary (PVFS): The PVFS at June 30, 2015 is reduced by the value of salary projected to be paid during Fiscal Year 2016.

b. Salary for Determining Employer Contributions: Salary used to determine the employer normal contribution is the salary projected to be paid during Fiscal Year 2017 to members on payroll at June 30, 2015.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

c. UAAL Payments: For determining the UAAL payments for Fiscal Year 2017, and to be consistent with OYLM, the UAAL as of June 30, 2015 is adjusted by the discounted value of employer normal contributions paid during Fiscal Year 2016 and the discounted value of the administrative expenses reimbursed during Fiscal Year 2016 and 2017.

(11) The Actuary reset the Actuarial Value of Assets (AVA) to the Market Value of Assets (MVA) as of June 30, 2011.

Beginning with the June 30, 2012 (Lag) actuarial valuation, the Actuarial Asset Valuation Method (AAVM) recognizes investment returns greater or less than expected over a period of six years.

In accordance with this AAVM, actual Unexpected Investment Returns (UIR) are phased into the AVA at rates of 15%, 15%, 15%, 15%, 20%, and 20% per year, respectively, (i.e. cumulative rates of 15%, 30%, 45%, 60%, 80%, and 100%).

Beginning with the June 30, 2014 (Lag) actuarial valuation, the AVA is constrained to be within a 20% corridor of the MVA.

(12) The obligations of the New York City Employees' Retirement System (NYCERS) to the Housing Police Officer's Variable Supplements Fund (HPOVSF), Housing Police Superior Officers' Variable Supplements Fund (HPSOVSF), Transit Police Officer's Variable Supplements Fund (TPOVSF), Transit Police Superior Officers' Variable Supplements Fund (TPSOVSF), and Correction Officers' Variable Supplements Fund (COVSF) (referred to collectively as NYCERS VSFs) are recognized through the Liability Valuation Method.

Under this method, the APV of Future SKIM from NYCERS to the NYCERS VSFs is included directly as an actuarial liability of NYCERS. SKIM is either a portion of the excess earnings on equity securities of NYCERS that are transferrable to an individual NYCERS VSF or the amount in excess of existing assets needed in any given Fiscal Year by an individual NYCERS VSF to pay expected and/or guaranteed benefits. The APV of Future SKIM is computed as the excess, if any, of the APV of expected benefits of each individual NYCERS VSF over the AVA of that individual NYCERS VSF. Under the EAN cost method, a portion of the APV of Future SKIM is reflected in the APV of Future Normal Costs, and a portion is reflected in the AAL.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

(13) The APVB as of June 30, 2015, used to determine the Fiscal Year 2017 Employer Contributions, includes estimates of liabilities for World Trade Center (WTC) Post-Retirement Reclassifications.

(14) For the June 30, 2015 actuarial valuation, the New York City Off-Track Betting Corporation (OTB) was valued on a going-concern basis.

(15) For actuarial valuation purposes, members are separated into six groups:

a. General (for calculation purposes, these are further subdivided into Plan Groups)

b. Transit Operating positions

c. MTA Bridges and Tunnels members

d. Sanitation members

e. Members of the Housing and Transit Police Forces

f. Members of the Correction Force.

(16) As discussed herein, the actuarial assumptions and methods are unchanged from those used in the June 30, 2014 (Lag) actuarial valuation.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 1a

Deaths among Service Pensioners

Percentage of Pensioners Dying within Next Year

	All Except Housing Police and Transit Police		Housing Police and Transit Police (HP and TP)	
Age	**Males**	**Females**	**Males**	**Females**
40	0.0925%	0.0680%	0.0836%	0.0567%
45	0.2600	0.1175	0.1302	0.0979
50	0.4086	0.2472	0.1940	0.1908
55	0.8133	0.4437	0.5104	0.3398
60	1.0773	0.7335	0.7617	0.5288
65	1.4468	1.0111	1.1038	0.7617
70	1.9534	1.3903	1.8000	1.1933
75	2.8711	2.1928	2.9829	2.2197
80	5.2649	3.7065	5.0173	3.6572
85	8.0972	6.1669	8.3278	6.1272
90	14.0544	10.5748	14.0346	10.1351
95	22.5336	17.8640	22.4197	17.0098
100	31.0742	21.4655	31.0742	21.4488
105	37.2467	27.4666	37.2467	27.4666
110	96.7583	96.7971	96.7583	96.7971
115	100.0000	100.0000	100.0000	100.0000

Society of Actuaries Mortality Improvement Scale MP-2015 has been applied to these rates.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

Table 1b

Deaths among Disability Pensioners

Percentage of Pensioners Dying within Next Year

	All Except HP and TP, Sanitation and Correction Officers		HP and TP		Sanitation and Correction Officers	
Age	**Males**	**Females**	**Males**	**Females**	**Males**	**Females**
40	1.1460%	1.1822%	0.1355%	0.0684%	0.7052%	0.7628%
45	1.3138	1.3783	0.2024	0.1276	0.7507	0.8229
50	1.8142	1.8122	0.3753	0.2605	0.9072	0.9869
55	2.8116	2.2566	0.6219	0.4853	1.3023	1.0915
60	3.0973	2.5293	0.9432	0.6219	1.6519	1.2401
65	3.4692	2.6654	1.2995	0.9208	2.0176	1.5161
70	3.5950	2.9166	2.2100	1.5428	2.6645	2.1138
75	4.8328	4.0419	3.5554	2.7254	4.0274	3.1443
80	7.3116	5.8510	5.9024	4.6534	6.4350	4.9846
85	11.0918	8.9867	9.9480	7.7713	9.8966	8.1084
90	14.2861	13.5245	17.1410	12.7907	15.4598	12.2561
95	23.5060	19.9033	25.7438	18.4872	24.5863	19.5730
100	31.0742	22.3547	33.8579	21.6887	31.0742	22.3547
105	37.2467	27.4666	37.4446	27.4666	37.2467	27.4666
110	96.7583	96.7971	96.7583	96.7971	96.7583	96.7971
115	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000

Society of Actuaries Mortality Improvement Scale MP-2015 has been applied to these rates.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 1c

Deaths among Beneficiaries

Percentage of Beneficiaries Dying within Next Year

Age	Males	Females
40	0.0925%	0.0680%
45	0.2600	0.1175
50	0.4086	0.2472
55	0.8133	0.4437
60	1.0773	0.7335
65	1.4468	1.0111
70	1.9534	1.3903
75	2.8711	2.1928
80	5.2649	3.7065
85	8.0972	6.1669
90	14.0544	10.5748
95	22.5336	17.8640
100	31.0742	21.4655
105	37.2467	27.4666
110	96.7583	96.7971
115	100.0000	100.0000

Society of Actuaries Mortality Improvement Scale MP-2015 has been applied to these rates.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

Table 2a

Withdrawals from Active Service (Due to Death or Disability)
Members Who Do Not Elect An Improved Retirement Program

Percentage of Eligible Active Members Separating Next year

Age	Accidental Disability Retirement		Ordinary Disability Retirement		Accidental Death	Ordinary Death	
General[1]							
	Males	Females	Males	Females	All	Males	Females
20	0.04%	0.02%	0.20%	0.20%	0.00%	0.040%	0.030%
25	0.04	0.02	0.20	0.20	0.00	0.040	0.030
30	0.04	0.02	0.20	0.20	0.00	0.060	0.040
35	0.04	0.02	0.30	0.20	0.00	0.080	0.050
40	0.04	0.02	0.40	0.25	0.00	0.100	0.060
45	0.04	0.02	0.50	0.30	0.00	0.150	0.100
50	0.04	0.02	0.60	0.50	0.00	0.200	0.150
55	0.04	0.02	0.70	0.70	0.00	0.300	0.200
60	0.04	0.02	0.70	0.70	0.00	0.400	0.250
65	0.04	0.02	0.70	0.70	0.00	0.500	0.300
70	NA	NA	NA	NA	NA	NA	NA
Transit Operating[1]							
20	0.02%	0.02%	0.10%	0.10%	0.01%	0.040%	0.030%
25	0.02	0.02	0.10	0.10	0.01	0.040	0.030
30	0.02	0.02	0.10	0.10	0.01	0.060	0.040
35	0.02	0.02	0.20	0.20	0.01	0.080	0.050
40	0.02	0.02	0.30	0.30	0.01	0.100	0.060
45	0.02	0.02	0.40	0.40	0.01	0.150	0.100
50	0.02	0.02	0.50	0.50	0.01	0.200	0.150
55	0.02	0.02	0.60	0.60	0.01	0.300	0.200
60	0.02	0.02	0.60	0.60	0.01	0.400	0.250
65	0.02	0.02	0.60	0.60	0.01	0.500	0.300
70	NA	NA	NA	NA	NA	NA	NA
MTA Bridges and Tunnels[1]							
20	0.04%	0.04%	0.40%	0.40%	0.01%	0.050%	0.030%
25	0.04	0.04	0.40	0.40	0.01	0.040	0.024
30	0.04	0.04	0.40	0.40	0.01	0.050	0.030
35	0.04	0.04	0.40	0.40	0.01	0.050	0.030
40	0.04	0.04	0.40	0.40	0.01	0.100	0.060
45	0.04	0.04	0.40	0.40	0.01	0.150	0.090
50	0.04	0.04	0.40	0.40	0.01	0.200	0.120
55	0.04	0.04	0.40	0.40	0.01	0.250	0.160
60	0.04	0.04	0.40	0.40	0.01	0.300	0.200
65	0.04	0.04	0.40	0.40	0.01	0.400	0.250
70	NA	NA	NA	NA	NA	NA	NA

[1] Assumed to retire for service immediately at age 70.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 2a

(Cont'd)

Withdrawals from Active Service (Due to Death or Disability)
Members Who Do Not Elect An Improved Retirement Program

Percentage of Eligible Active Members Separating Next year

Age	Accidental Disability Retirement		Ordinary Disability Retirement		Accidental Death	Ordinary Death	
Sanitation[1]							
	Males	**Females**	**Males**	**Females**	**All**	**Males**	**Females**
20	0.10%	0.10%	0.10%	0.10%	0.01%	0.050%	0.030%
25	0.10	0.10	0.10	0.10	0.01	0.040	0.024
30	0.15	0.15	0.20	0.20	0.01	0.050	0.030
35	0.20	0.20	0.30	0.30	0.01	0.050	0.030
40	0.25	0.25	0.40	0.40	0.01	0.100	0.060
45	0.30	0.30	0.50	0.50	0.01	0.150	0.090
50	0.50	0.50	0.60	0.60	0.01	0.200	0.120
55	0.80	0.80	0.70	0.70	0.01	0.250	0.160
60	1.20	1.20	0.80	0.80	0.01	0.300	0.200
65	1.70	1.70	0.90	0.90	0.01	0.400	0.250
70	NA	NA	NA	NA	NA	NA	NA
Correction Officers[2]							
20	0.20%	0.20%	0.10%	0.10%	0.01%	0.050%	0.030%
25	0.25	0.25	0.10	0.10	0.01	0.040	0.024
30	0.30	0.30	0.10	0.10	0.01	0.050	0.030
35	0.35	0.35	0.20	0.20	0.01	0.050	0.030
40	0.40	0.40	0.30	0.30	0.01	0.100	0.060
45	0.45	0.45	0.40	0.40	0.01	0.150	0.090
50	0.50	0.50	0.50	0.50	0.01	0.200	0.120
55	0.60	0.60	0.60	0.60	0.01	0.250	0.160
60	0.70	0.70	0.70	0.70	0.01	0.300	0.200
63	NA	NA	NA	NA	NA	NA	NA

(1) Assumed to retire for service immediately at age 70.

(2) Assumed to retire for service immediately at age 63.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

Table 2b

Withdrawals from Active Service (Due to Death or Disability)
Members Who Elected An Improved Retirement Program

Percentage of Eligible Active Members Separating Next year

Age	Accidental Disability Retirement		Ordinary Disability Retirement		Accidental Death	Ordinary Death	
General[1]							
	Males	Females	Males	Females	All	Males	Females
20	0.04%	0.02%	0.20%	0.20%	0.00%	0.040%	0.030%
25	0.04	0.02	0.20	0.20	0.00	0.040	0.030
30	0.04	0.02	0.20	0.20	0.00	0.060	0.040
35	0.04	0.02	0.30	0.20	0.00	0.080	0.050
40	0.04	0.02	0.40	0.25	0.00	0.100	0.060
45	0.04	0.02	0.50	0.30	0.00	0.150	0.100
50	0.04	0.02	0.60	0.50	0.00	0.200	0.150
55	0.04	0.02	0.70	0.70	0.00	0.300	0.200
60	0.04	0.02	0.70	0.70	0.00	0.400	0.250
65	0.04	0.02	0.70	0.70	0.00	0.500	0.300
70	NA	NA	NA	NA	NA	NA	NA
Transit Operating[1]							
20	0.02%	0.02%	0.10%	0.10%	0.01%	0.040%	0.030%
25	0.02	0.02	0.10	0.10	0.01	0.040	0.030
30	0.02	0.02	0.10	0.10	0.01	0.060	0.040
35	0.02	0.02	0.20	0.20	0.01	0.080	0.050
40	0.02	0.02	0.30	0.30	0.01	0.100	0.060
45	0.02	0.02	0.40	0.40	0.01	0.150	0.100
50	0.02	0.02	0.50	0.50	0.01	0.200	0.150
55	0.02	0.02	0.60	0.60	0.01	0.300	0.200
60	0.02	0.02	0.60	0.60	0.01	0.400	0.250
65	0.02	0.02	0.60	0.60	0.01	0.500	0.300
70	NA	NA	NA	NA	NA	NA	NA
MTA Bridges and Tunnels[1]							
20	0.04%	0.04%	0.40%	0.40%	0.01%	0.050%	0.030%
25	0.04	0.04	0.40	0.40	0.01	0.040	0.024
30	0.04	0.04	0.40	0.40	0.01	0.050	0.030
35	0.04	0.04	0.40	0.40	0.01	0.050	0.030
40	0.04	0.04	0.40	0.40	0.01	0.100	0.060
45	0.04	0.04	0.40	0.40	0.01	0.150	0.090
50	0.04	0.04	0.40	0.40	0.01	0.200	0.120
55	0.04	0.04	0.40	0.40	0.01	0.250	0.160
60	0.04	0.04	0.40	0.40	0.01	0.300	0.200
65	0.04	0.04	0.40	0.40	0.01	0.400	0.250
70	NA	NA	NA	NA	NA	NA	NA

[1] Assumed to retire for service immediately at age 70.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

Table 2b

(Cont'd)

Withdrawals from Active Service (Due to Death or Disability)
Members Who Elected An Improved Retirement Program

Percentage of Eligible Active Members Separating Next year

Age	Accidental Disability Retirement		Ordinary Disability Retirement		Accidental Death	Ordinary Death	
Sanitation[1]							
	Males	Females	Males	Females	All	Males	Females
20	0.10%	0.10%	0.10%	0.10%	0.01%	0.050%	0.030%
25	0.10	0.10	0.10	0.10	0.01	0.040	0.024
30	0.15	0.15	0.20	0.20	0.01	0.050	0.030
35	0.20	0.20	0.30	0.30	0.01	0.050	0.030
40	0.25	0.25	0.40	0.40	0.01	0.100	0.060
45	0.30	0.30	0.50	0.50	0.01	0.150	0.090
50	0.50	0.50	0.60	0.60	0.01	0.200	0.120
55	0.80	0.80	0.70	0.70	0.01	0.250	0.160
60	1.20	1.20	0.80	0.80	0.01	0.300	0.200
65	1.70	1.70	0.90	0.90	0.01	0.400	0.250
70	NA	NA	NA	NA	NA	NA	NA
Correction Officers[2]							
20	0.20%	0.20%	0.10%	0.10%	0.01%	0.050%	0.030%
25	0.25	0.25	0.10	0.10	0.01	0.040	0.024
30	0.30	0.30	0.10	0.10	0.01	0.050	0.030
35	0.35	0.35	0.20	0.20	0.01	0.050	0.030
40	0.40	0.40	0.30	0.30	0.01	0.100	0.060
45	0.45	0.45	0.40	0.40	0.01	0.150	0.090
50	0.50	0.50	0.50	0.50	0.01	0.200	0.120
55	0.60	0.60	0.60	0.60	0.01	0.250	0.160
60	0.70	0.70	0.70	0.70	0.01	0.300	0.200
63	NA	NA	NA	NA	NA	NA	NA

(1) Assumed to retire for service immediately at age 70.

(2) Assumed to retire for service immediately at age 63.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

Table 3

Withdrawals from Other Than Death, Disability, or Service Retirement

Percentage of Active Members Withdrawing within Next Year

General Employees

Years of Service	Probability of Withdrawal
0	6.00%
5	3.00
10	2.00
15	1.50
20	1.00
25	1.00
30	1.00
35	1.00
40	1.00
45	1.00

Transit Employees

Years of Service	Probability of Withdrawal
0	8.00%
5	1.00
10	1.00
15	0.50
20	0.50
25	0.50
30	0.50
35	0.50

MTABT Employees

Years of Service	Probability of Withdrawal
0	4.00%
5	1.00
10	1.00
15	1.00
20	1.00
25	1.00
30	1.00
35	1.00

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS
IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
(Cont'd)

Table 3

(Cont'd)

Withdrawals from Other Than Death, Disability, or Service Retirement

Percentage of Active Members Withdrawing within Next Year

Sanitation Employees

Years of Service	Probability of Withdrawal
0	4.00%
5	1.00
10	0.50
15	0.50
20	0.50
25	0.50
30	0.50
35	0.50

Correction Employees

Years of Service	Probability of Withdrawal
0	5.00%
5	1.00
10	0.50
15	0.50
20	0.50
25	0.50
30	0.50
35	0.50

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 4

Withdrawals from Active Service (For Service Retirement)

Percentage of Eligible Active Members Retiring

	Reduced Benefits[1]	Unreduced Benefits					
		Members Not Electing Optional Retirement Program[2]			Members Electing Optional Retirement Program[2]		
		Years of Service Since First Elig.			Years of Service Since First Elig.		
Age		0-1	1-2	2+	0-1	1-2	2+
General							
50	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%
55	2.00	20.00	15.00	10.00	40.00	20.00	15.00
60	4.00	20.00	15.00	10.00	40.00	20.00	15.00
65	0.00	30.00	25.00	20.00	60.00	25.00	25.00
70	NA	100.00	100.00	100.00	100.00	100.00	100.00
Transit Operating							
50	0.00%	25.00%	15.00%	15.00%	25.00%	15.00%	15.00%
55	2.00	25.00	15.00	15.00	25.00	15.00	15.00
60	4.00	30.00	15.00	15.00	30.00	15.00	15.00
65	0.00	50.00	40.00	40.00	50.00	40.00	40.00
70	NA	100.00	100.00	100.00	100.00	100.00	100.00
MTA Bridges and Tunnels							
50	0.00%	30.00%	00.00%	00.00%	60.00%	00.00%	00.00%
55	2.00	30.00	20.00	20.00	60.00	30.00	30.00
60	4.00	30.00	20.00	20.00	60.00	30.00	30.00
65	0.00	40.00	40.00	40.00	60.00	40.00	40.00
70	NA	100.00	100.00	100.00	100.00	100.00	100.00

(1) Applicable only for certain Tier II, Tier IV, and Tier VI members prior to eligibility for unreduced Service Retirement benefits.

(2) Optional Retirement Programs such as under Chapter 96 of the Laws of 1995.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 4

(Cont'd)

Withdrawals from Active Service (For Service Retirement)

Percentage of Eligible Active Members Retiring

	Reduced Benefits[1]	Unreduced Benefits					
		Members Not Electing Optional Retirement Program[2]			Members Not Electing Optional Retirement Program[2]		
		Years of Service Since First Elig.			Years of Service Since First Elig.		
Age		0-1	1-2	2+	0-1	1-2	2+
Sanitation							
40	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
45	0.00	40.00	20.00	20.00	40.00	20.00	15.00
50	0.00	40.00	20.00	20.00	50.00	20.00	15.00
55	2.00	40.00	20.00	20.00	60.00	20.00	15.00
60	4.00	40.00	20.00	20.00	60.00	20.00	20.00
65	0.00	60.00	40.00	40.00	60.00	40.00	30.00
70	NA	100.00	100.00	100.00	100.00	100.00	100.00
Correction Officers							
40	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%
45	0.00	60.00	20.00	20.00	70.00	20.00	20.00
50	0.00	60.00	20.00	20.00	70.00	20.00	20.00
55	2.00	60.00	20.00	20.00	70.00	20.00	20.00
60	4.00	60.00	20.00	20.00	70.00	20.00	20.00
63	NA	100.00	100.00	100.00	100.00	100.00	100.00

(1) Applicable only for certain Tier II, Tier IV, and Tier VI members prior to eligibility for unreduced Service Retirement benefits.

(2) Optional Retirement Programs (ORP) under Chapter 547 of the Laws of 1992, Chapter 936 of the Laws of 1990, and Chapter 631 of the Laws of 1993 for Sanitation and Corrections (Officers and Captains), respectively.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 5

Salary Scales

Assumed Annual Percentage Increases in Coming Year[1]

Years of Service	General	Transit Operating	MTA Bridges And Tunnels	Sanitation	Correction Officers
0	9.00%	19.00%	11.00%	7.00%	14.00%
5	5.00	4.00	6.00	25.00	4.20
10	4.50	3.50	3.50	5.00	5.00
15	4.50	3.50	3.50	4.50	4.50
20	4.25	3.50	3.50	4.00	4.00
25	4.00	3.50	3.50	3.50	3.50
30	4.00	3.50	3.50	3.50	3.50
35	4.00	3.50	3.50	3.50	3.50
40	4.00	3.50	3.50	3.50	3.50
45	4.00	3.50	3.50	3.50	3.50

(1) Salary Scales include a General Wage Increase assumption of 3.0% per annum.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 6

Baseline Overtime

Years of Service	General	Transit Operating	MTA Bridges And Tunnels	Sanitation	Correction Officers
0	4.00%	8.00%	20.00%	12.00%	10.00%
5	4.00	8.00	20.00	12.00	10.00
10	4.00	8.00	20.00	12.00	10.00
15	4.00	8.00	20.00	12.00	10.00
20+	4.00	8.00	20.00	12.00	15.00

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS IN EFFECT FOR THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION (Cont'd)

Table 7

Dual Overtime

	General	Transit Operating		
Years of Service	**All Tiers**	**Tier I Service**	**All Other Tiers Service**	**All Tiers Disability**
0+	4.00%	12.00%	10.00%	6.00%

Table 7

Dual Overtime (Cont'd)

	MTA Bridges and Tunnels			
Years of Service	**Tier I Service FAS 1**	**All Tiers Service FAS 3**	**Tier I Disability FAS 1**	**All Tiers Disability FAS 3**
0+	30.00%	24.00%	15.00%	18.00%

Table 7

Dual Overtime (Cont'd)

	Sanitation		Correction Officers		
Years of Service	**All Tiers Service**	**All Tiers Disability**	**All Tiers Service**	**Tier I Disability**	**All Other Tiers Disability**
0-15	16.00%	8.00%	10.00%	5.00%	8.00%
20+	16.00	8.00	15.00	10.00	13.00

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 8

ACTIVE MEMBER VALUATION DATA

Valuation Date	Number	Annual Payroll[1]	Annual Average Salary	Percentage Increase in Average Pay
6/30/06 (Lag)	178,741	$10,128,688,853	$56,667	2.7%
6/30/07 (Lag)	180,482	10,761,963,324	59,629	5.2
6/30/08 (Lag)	183,654	11,305,974,384	61,561	3.2
6/30/09 (Lag)	186,284	11,880,993,974	63,779	3.6
6/30/10 (Lag)[2]	184,982	12,101,416,579	65,419	2.6
6/30/11 (Lag)	182,021	12,233,572,536	67,210	2.7
6/30/12 (Lag)	187,114	12,478,129,812	66,687	(0.8)
6/30/13 (Lag)	185,971	12,642,482,697	67,981	1.9
6/30/14 (Lag)	184,762	12,672,386,846	68,588	0.9
6/30/15 (Lag)	185,758	12,917,466,528	69,539	1.4

(1) Annual Payroll was increased by a percentage to reflect overtime earnings, and, where applicable, adjusted to be consistent with collective bargaining agreements estimated to be achieved.

(2) Beginning with the June 30, 2010 (Lag) actuarial valuation, the annualized covered payroll is based on revised actuarial assumptions.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 9

**NUMBER AND SALARY OF ACTIVE MEMBERS
BY OCCUPATIONAL POSITION
AS OF JUNE 30, 2015 (LAG) ACTUARIAL VALUATION**

Occupation – Main Groups	Number	Annual Payroll	Average Annual Salary
General	132,925	$8,588,598,863	$64,612
Transit Operating Positions	35,748	2,774,413,332	77,610
MTA Bridges and Tunnels	1,367	130,299,165	95,318
Uniform Sanitation	7,252	652,933,746	90,035
Uniform Correction Force	8,466	771,221,422	91,096
Total	185,758	$12,917,466,528	$69,539

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 10

NUMBER OF ACTIVE MEMBERS BY OCCUPATIONAL POSITION AND AGE AS OF JUNE 30, 2015 (LAG) ACTUARIAL VALUATION

Age	Total	General	Transit Operating	MTA Bridges & Tunnels	Sanitation	Correction
Under 20	27	19	8	0	0	0
20 – 24	1,933	1,636	212	5	2	78
25 – 29	10,416	7,967	1,145	42	470	792
30 – 34	17,139	12,196	2,272	88	1,131	1,452
35 – 39	19,473	13,358	3,160	170	1,432	1,353
40 – 44	21,768	14,494	4,141	242	1,384	1,507
45 – 49	27,358	18,311	6,109	250	1,165	1,523
50 – 54	32,594	22,479	7,849	234	957	1,075
55 – 59	28,713	21,540	6,000	193	461	519
60 – 64	17,658	13,863	3,351	90	207	147
65 – 69	6,433	5,135	1,205	40	34	19
70 +	2,246	1,927	296	13	9	1
Total	185,758	132,925	35,748	1,367	7,252	8,466

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 11

NUMBER OF ACTIVE MEMBERS BY OCCUPATIONAL POSITION AND YEARS OF SERVICE AS OF JUNE 30, 2015 (LAG) ACTUARIAL VALUATION

Years Of Service	Total	General	Transit Operating	MTA Bridges & Tunnels	Sanitation	Correction
Under 5	44,159	33,183	7,438	157	1,512	1,869
5 – 9	38,801	29,455	5,955	227	1,144	2,020
10 – 14	32,607	23,363	5,174	496	1,801	1,773
15 – 19	25,307	15,760	6,239	212	1,565	1,531
20 – 24	19,533	14,113	4,326	104	565	425
25 – 29	16,213	10,385	4,444	109	539	736
30 – 34	6,665	4,571	1,842	47	110	95
35 – 39	1,683	1,373	278	11	7	14
40 +	790	722	52	4	9	3
Total	185,758	132,925	35,748	1,367	7,252	8,466

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 12

PARTICIPATING EMPLOYERS

	June 30, 2015 (Lag)		June 30, 2006 (Lag)	
Employer	**Number of Employees**	**Annual Payroll**	**Number of Employees**	**Annual Payroll**
City of New York	98,541	$ 6,718,263,812	91,308	$ 5,128,870,035
NYC Transit	38,481	3,024,374,349	39,046	2,461,942,151
NYC Housing Authority	10,337	634,021,952	11,945	599,131,773
NYC Health and Hospitals Corporation	32,534	2,171,184,406	29,594	1,609,729,493
MTA Bridges and Tunnels	1,367	130,299,165	1,662	111,900,794
NYC Off-Track Betting Corporation	0	0	1,135	42,638,264
NYC School Construction Authority	52	5,718,580	46	4,100,251
NYC Housing Development Corporation	104	9,480,780	59	5,166,381
City University of New York – Senior Colleges	4,330	222,975,520	3,923	163,459,418
New York State	0	0	13	770,220
NYC Municipal Water Authority	12	1,147,964	10	980,073
Total	185,758	$12,917,466,528	178,741	$10,128,688,853

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

SUMMARY OF PLAN MEMBERSHIP

As of the June 30, 2015 (Lag) and June 30, 2014 (Lag) actuarial valuations, the Plan's membership consisted of the following:

Table 13
SUMMARY OF PLAN MEMBERSHIP

Group	June 30, 2015 (Lag)	June 30, 2014 (Lag)
Retirees and beneficiaries currently receiving benefits	144,526	142,095
Terminated vested members not yet receiving benefits	9,402	9,674
Other Inactives[1]	16,907	16,527
Active members	185,758	184,762
Total	356,593	353,058

[1] Represents members no longer on payroll but not otherwise classified.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 14

RETIREES AND BENEFICIARIES ADDED TO AND REMOVED FROM ROLLS

Fiscal Year Ended	Added to Rolls		Removed from Rolls		Rolls End of Year		% Increase In Annual Allowances	Average Annual Allowances	% Increase In Average Annual Allowances
	Number	Annual Allowances[1]	Number	Annual Allowances	Number	Annual Allowances[2]			
6/30/06	6,457	$194,343,590	5,382	$95,257,483	128,789	$2,775,133,979	3.7%	$21,548	2.8%
6/30/07	6,580	236,949,056	6,088	105,839,523	129,281	2,906,243,512	4.7	22,480	4.3
6/30/08	6,999	222,985,559	5,616	142,159,662	130,664	2,987,069,409	2.8	22,861	1.7
6/30/09	5,821	147,278,673	5,454	70,493,395	131,031	3,063,854,687	2.6	23,383	2.3
6/30/10	6,997	201,129,110	5,541	72,297,965	132,487	3,192,685,832	4.2	24,098	3.1
6/30/11	8,564	261,133,473	5,583	101,421,090	135,468	3,352,398,215	5.0	24,747	2.7
6/30/12	7,628	274,865,758	5,109	95,823,182	137,987	3,531,440,791	5.3	25,893	3.4
6/30/13	7,334	244,447,724	5,922	116,360,332	139,399	3,659,528,183	3.6	26,252	2.6
6/30/14	8,132	276,606,560	5,436	107,547,552	142,095	3,828,587,191	4.6	26,945	2.6
6/30/15	8,219	289,143,851	5,788	117,910,540	144,526	3,999,820,502	4.5	27,675	2.7

(1) Balancing item - amounts shown include changes due to benefit finalization, change in benefit type (e.g. Service to Accidental Disability), COLA increases, and other changes.

(2) Allowances shown in table are those used in the actuarial valuation as of the Year Ended date and are not adjusted for anticipated changes due to finalization of benefit calculations or contract settlements

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NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 15

STATUTORY VS ACTUARIAL CONTRIBUTIONS

Fiscal Year Ended	Statutory Contribution(1)	Actuarial Contribution	Employer Rate of Contribution(2)
6/30/08	$1,874,242,487	$1,874,242,487	19.0%
6/30/09	2,150,438,042	2,150,438,042	20.6
6/30/10	2,197,717,073	2,197,717,073	20.0
6/30/11	2,387,215,772	2,387,215,772	20.8
6/30/12	3,017,004,318	3,017,004,318	25.5
6/30/13	3,046,845,264	3,046,845,264	25.5
6/30/14	3,114,068,148	3,114,068,148	25.6
6/30/15	3,160,257,868	3,160,257,868	25.7
6/30/16	3,365,454,212	3,365,454,212	27.3
6/30/17	3,328,192,582	3,328,192,582	26.5

(1) Represents total employer contributions accrued for fiscal year.

Beginning Fiscal Year 2006, the Statutory Contributions were computed using a One-Year Lag Methodology in accordance with Chapter 152/06 which also eliminated the use of ten-year phase-in of Chapter 278/02 for funding the additional actuarial liabilities attributed to Chapter 125/00.

(2) The Employer Rate of Contribution equals the Statutory Contribution as a percentage 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 increased to reflect overtime earnings and adjusted, where applicable, to be consistent with collective bargaining agreements estimated to be achieved.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

FUNDED STATUS BASED ON ENTRY AGE NORMAL COST METHOD

Prior to the June 30, 2010 (Lag) Actuarial Valuation, the Frozen Initial Liability (FIL) cost method was used to develop the funding requirements for the Plan. Under this method, following establishment of any Initial Unfunded Actuarial Accrued Liabilities (UAAL), actuarial gains and losses are financed over the working lifetimes of active participants and are not identified as separate UAAL.

The funding status and funding progress information provided in this Schedule has been prepared using the Entry Age Normal (EAN) cost method where the Actuarial Present Value (APV) of any obligations of the Plan not provided by the APV of Future Contributions (Employer and Employee), as determined under the EAN cost method, equals the Actuarial Accrued Liability (AAL). Under the EAN cost method, the UAAL equals the AAL minus the Actuarial Value of Assets.

Table 16

FUNDED STATUS BASED ON ENTRY AGE NORMAL COST METHOD

(Dollar Amounts in Thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL)[1] Entry Age (b)	Unfunded AAL (UAAL) Entry Age (b-a)	Funded Ratio (a/b)	Covered Payroll (c)	UAAL as a Percentage Of Covered Payroll ((b-a)/c)
June 30, 2006 (Lag)	$38,367,102	$46,602,030	$8,234,928	82.3%	$10,128,689	81.3%
June 30, 2007 (Lag)	38,925,725	49,253,216	10,327,491	79.0	10,761,963	96.0
June 30, 2008 (Lag)	40,722,228	51,114,399	10,392,171	79.7	11,305,974	91.9
June 30, 2009 (Lag)	41,710,159	53,052,658	11,342,499	78.6	11,880,994	95.5
June 30, 2010 (Lag)[2]	40,433,344	62,935,267	22,501,923	64.2	12,101,417	185.9
June 30, 2011 (Lag)[2]	42,409,059	65,269,251	22,860,192	65.0	12,233,573	186.9
June 30, 2012 (Lag)[2]	44,676,721	67,417,018	22,740,297	66.3	12,478,130	182.2
June 30, 2013 (Lag)[2]	47,282,884	70,028,252	22,745,368	67.5	12,642,483	179.9
June 30, 2014 (Lag)[2]	50,505,971	74,123,437	23,617,466	68.1	12,672,387	186.4
June 30, 2015 (Lag)[2]	53,573,694	76,678,220	23,104,526	69.9	12,917,467	178.9

This schedule is based on actuarial assumptions used for determining Employer Contributions.

(1) AAL includes the accrued liabilities attributable to the Variable Supplements funds, net of their Actuarial Values of Assets, if any.

(2) Reflects revised actuarial assumptions and methods based on experience review, including an AIR assumption of 7.0% per annum, net of investment expenses.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

Table 17

COMPARATIVE SUMMARY OF ACCRUED LIABILITIES FUNDED BY ACTUARIAL VALUE OF ASSETS SOLVENCY TEST

(Dollar Amounts in Thousands)

	Accrued Liabilities for						
As of June 30	Accumulated Member Contributions[1] (A)	Current Retirees and Beneficiaries (B)	Active Members' Employer Financed Portion (C)	Actuarial Value of Assets (D)	Percentage of Accrued Liabilities Funded by Actuarial Value of Assets (A)	(B)	(C)
2006 (Lag)	$5,446,376	$23,929,616	$14,277,635	$38,367,102	100%	100%	63%
2007 (Lag)	5,739,890	25,020,637	15,514,393	38,925,725	100	100	53
2008 (Lag)	5,984,631	25,700,882	21,020,157	40,722,228	100	100	43
2009 (Lag)	6,336,353	26,124,122	22,459,541	41,710,159	100	100	41
2010 (Lag)	6,712,979	31,446,478	28,431,003	40,433,344	100	100	8
2011 (Lag)	7,010,301	33,116,897	29,062,680	42,409,059	100	100	8
2012 (Lag)	7,261,912	35,028,113	29,336,710	44,676,721	100	100	8
2013 (Lag)	7,611,951	36,181,288	30,646,015	47,282,884	100	100	11
2014 (Lag)	7,958,544	38,662,825	32,009,068	50,505,971	100	100	12
2015 (Lag)	8,328,939	40,388,703	32,576,419	53,573,694	100	100	15

[1] June 30, 2008 and later amounts are provided by NYCERS' Accountant. For all prior years, the amounts are derived from The Annual Statements of the New York State Department of Financial Services.

See following "SOLVENCY TEST - NOTES."

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

COMPARATIVE SUMMARY OF ACCRUED LIABILITIES
FUNDED 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 Accrued Liabilities for:

(A) Accumulated Member Contributions
(B) Current Retirees and Beneficiaries; and
(C) Active Members' Employer Financed Portion

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

This comparative summary allocates 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. The two most recent changes in assumptions and methods occurred in the June 30, 2014 (Lag) valuation used to compute the Employer Contributions for Fiscal Year 2016 and in the June 30, 2010 (Lag) valuation used to compute the Employer Contributions for Fiscal Year 2012. 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. Beginning with the June 30, 2010 (Lag) actuarial valuation, the Actuarial Interest Rate assumption equals 7.0% per annum, net of investment expenses, and the General Wage Increase assumption equals 3.0% per annum. Prior to the June 30, 2010 (Lag) actuarial valuation, the Actuarial Interest Rate assumption was 8% per annum, gross of expenses.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

CONTRIBUTIONS

The benefits of the System are financed by member and employer contributions and from investment earnings of the Fund.

A. Member Contributions

A member of Article 15 who joined NYCERS on or after April 1, 2012 (Tier 6) and is not a member of a 22-Year Plan is required to contribute between 3.0% and 6.0% of salary, depending on salary level, for all years of service. Members in a 22-Year Plan contribute 3.0% of salary until they attain 25 years of Credited Service or separate from City service or retire, whichever comes first. A member of Article 15 (Coordinated Retirement Plan) who joined NYCERS on or before March 31, 2012, is mandated to contribute 3% of salary during all years of coverage. Effective October 1, 2000, these members are not required to make contributions after the 10th anniversary of their membership date or completion of ten years of credited service, whichever is earlier. Tier 4 Transit operating-force members, however, pay 2% of gross wages for as long as they remain in service. Members of Article 14 except for 22-Year Plan members are mandated to contribute 3% of salary for not more than thirty years. Effective October 1, 2000, these members are not required to make contributions after the 10th anniversary of their membership date or completion of ten years of credited service, whichever is earlier. This is in addition to the Social Security contribution. Should a member die, resign or be otherwise terminated from City service prior to completing five years of credited service (10 years for Tier 6 members), all of the members' contributions, with 5% interest, will be refunded for Article 14 members and Article 15 members upon request, or may be left on deposit for a maximum period of five years earning interest, so that the member retains membership.

All other members contribute by salary deductions on the basis of a rate of contribution which is assigned by the System at the time they elect their plan. This rate, which is dependent upon the member's age and plan as well as the tables in effect for such purpose, is determined to provide an annuity of approximately one-fourth of the service retirement allowance at the earliest age for service retirement in those contributory plans for which a fixed number of years of service is required for service retirement, except that in the case of the career pension plan, the rates of members' contributions are determined so as to provide an annuity of approximately one-fourth of the benefit on account of the first 25 years of service. In plans which permit retirement for service at age 55 regardless of the number of years of service earned, the rate of contribution is calculated to provide an annuity equal to 1% of final compensation for each year of service at the earliest age for service retirement. Beginning July 1, 1970, no contributions are required from members who elected the Transit 20-Year Plan.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

CONTRIBUTIONS
(Cont'd)

Member contributions are accumulated with interest in individually maintained accounts. Except under Articles 14 and 15, upon retirement the amount so credited (i.e. accumulated deductions) is used to purchase an annuity on the basis of the tables adopted by the Board of Trustees (Board). Upon death, the accumulated deductions are paid to the beneficiary and on termination of employment other than by death or retirement, the accumulated deductions are returned to the member.

Beginning July 1960, on a year-to-year basis, the members' contribution rates of certain categories of members were reduced by an Increased-Take-Home-Pay (ITHP) rate equal to either two, two and one half, four, or five percent of salary. At present, the reduction is two and one-half percent of salary for Sanitation and Correction members and two percent of salary for all others except for (1) members in transit operating positions who, beginning July 1, 1970, were not required to contribute to the System, and (2) members in the Coordinated-Escalator and Coordinated Retirement Plans. In general, the retirement and death benefits payable to, or on account of members, are supplemented by the reserve for ITHP, accumulated from City contributions equal to the ITHP rate times salary, so that the total benefit is equal to the benefit which would have been paid if the members' rate of contribution had not been reduced. However, the reserve for ITHP is not payable upon the death of a member who joins after June 30, 1973.

In addition to the member contributions described previously, there are certain Additional Member Contributions ranging from 1.85% to 7.46% required for improved early retirement benefits.

B. Employer Contributions

The Entry Age Normal cost method of funding is utilized by the Plan's Actuary to calculate the contributions required of the employers.

Employer contributions are accrued by the Plan and are funded by the employers on a current basis.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
DATA USED IN THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
FOR DETERMINING FINAL FISCAL YEAR 2017 EMPLOYER CONTRIBUTIONS
SUMMARY OF ACTIVES

GROUP: ALL TIER: ALL GENDER: M&F

AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	27	0	0	0	0	0	0	0	0	27
20 TO 24	1,876	57	0	0	0	0	0	0	0	1,933
25 TO 29	8,398	1,969	49	0	0	0	0	0	0	10,416
30 TO 34	9,015	6,571	1,488	65	0	0	0	0	0	17,139
35 TO 39	6,865	6,804	4,653	1,127	24	0	0	0	0	19,473
40 TO 44	5,373	5,995	5,764	3,681	890	65	0	0	0	21,768
45 TO 49	4,479	5,547	5,987	5,457	3,917	1,873	98	0	0	27,358
50 TO 54	3,842	4,907	5,513	5,641	5,552	5,546	1,518	75	0	32,594
55 TO 59	2,509	3,677	4,652	4,719	4,892	4,878	2,747	627	12	28,713
60 TO 64	1,248	2,182	2,915	2,946	2,972	2,751	1,710	679	255	17,658
65 TO 69	408	879	1,222	1,263	937	796	398	237	293	6,433
70 & UP	119	213	364	408	349	304	194	65	230	2,246
TOTAL	44,159	38,801	32,607	25,307	19,533	16,213	6,665	1,683	790	185,758
SALARIES (IN THOUSANDS):										
UNDER 20	999	0	0	0	0	0	0	0	0	999
20 TO 24	75,879	3,616	0	0	0	0	0	0	0	79,495
25 TO 29	417,510	113,267	3,786	0	0	0	0	0	0	534,563
30 TO 34	504,821	418,130	109,285	5,643	0	0	0	0	0	1,037,879
35 TO 39	411,742	455,057	338,354	91,124	1,806	0	0	0	0	1,298,082
40 TO 44	327,258	409,606	422,198	295,376	71,834	5,690	0	0	0	1,531,961
45 TO 49	276,169	373,959	430,113	427,181	312,739	159,741	8,776	0	0	1,988,678
50 TO 54	238,944	322,998	392,191	432,643	436,079	459,459	127,868	6,517	0	2,416,699
55 TO 59	157,059	238,551	324,333	356,059	386,563	388,267	219,640	49,263	944	2,120,678
60 TO 64	79,780	143,066	201,703	221,202	227,256	214,275	134,091	54,613	18,331	1,294,318
65 TO 69	26,870	56,194	81,872	95,025	70,217	58,236	29,667	20,165	23,879	462,126
70 & UP	6,532	12,771	23,214	27,409	24,263	21,113	13,580	4,867	18,239	151,987
TOTAL *	2,523,564	2,547,214	2,327,049	1,951,661	1,530,757	1,306,781	533,623	135,424	61,394	12,917,467
AVERAGE SALARIES: **										
UNDER 20	37,018	0	0	0	0	0	0	0	0	37,018
20 TO 24	40,447	63,443	0	0	0	0	0	0	0	41,125
25 TO 29	49,715	57,525	77,264	0	0	0	0	0	0	51,321
30 TO 34	55,998	63,633	73,444	86,813	0	0	0	0	0	60,557
35 TO 39	59,977	66,881	72,717	80,855	75,262	0	0	0	0	66,661
40 TO 44	60,908	68,325	73,247	80,243	80,713	87,531	0	0	0	70,377
45 TO 49	61,659	67,416	71,841	78,281	79,841	85,286	89,556	0	0	72,691
50 TO 54	62,193	65,824	71,139	76,696	78,544	82,845	84,235	86,895	0	74,146
55 TO 59	62,598	64,876	69,719	75,452	79,019	79,596	79,956	78,569	78,706	73,858
60 TO 64	63,927	65,566	69,195	75,086	76,466	77,890	78,416	80,431	71,886	73,299
65 TO 69	65,858	63,930	66,999	75,238	74,938	73,160	74,540	85,084	81,499	71,837
70 & UP	54,890	59,958	63,775	67,178	69,521	69,450	69,998	74,874	79,300	67,670
TOTAL	57,147	65,648	71,367	77,119	78,368	80,601	80,063	80,466	77,714	69,539

Note: Age is last birthday. Service is completed years.
* Total may not add up due to rounding.
** Average based on unrounded salary.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
DATA USED IN THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
FOR DETERMINING FINAL FISCAL YEAR 2017 EMPLOYER CONTRIBUTIONS
SUMMARY OF PENSIONERS BY CAUSE AND GENDER

ALL FILES (ALL BENEFITS)

	MALE			FEMALE			BOTH MALE & FEMALE		
AGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE
ACCIDENTAL DISABILITY:									
UNDER 30	1	51,217	51,217	1	25,048	25,048	2	76,265	38,133
30 TO 34	16	641,737	40,109	1	56,349	56,349	17	698,086	41,064
35 TO 39	42	1,872,643	44,587	10	314,938	31,494	52	2,187,581	42,069
40 TO 44	107	4,858,405	45,406	27	858,881	31,810	134	5,717,286	42,666
45 TO 49	295	13,161,569	44,615	85	3,289,729	38,703	380	16,451,298	43,293
50 TO 54	476	19,863,588	41,730	120	4,283,189	35,693	596	24,146,777	40,515
55 TO 59	446	17,123,768	38,394	94	3,077,765	32,742	540	20,201,533	37,410
60 TO 64	504	18,674,372	37,052	65	1,758,362	27,052	569	20,432,734	35,910
65 TO 69	665	21,444,432	32,247	53	1,178,397	22,234	718	22,622,829	31,508
70 TO 74	584	16,891,521	28,924	51	1,043,149	20,454	635	17,934,670	28,244
75 TO 79	339	9,987,323	29,461	38	536,317	14,114	377	10,523,640	27,914
80 TO 84	203	5,322,792	26,221	24	350,622	14,609	227	5,673,414	24,993
85 TO 89	127	3,552,298	27,971	9	151,736	16,860	136	3,704,034	27,236
90 & UP	33	735,410	22,285	13	205,711	15,824	46	941,121	20,459
TOTAL	3,838	134,181,075	34,961	591	17,130,193	28,985	4,429	151,311,268	34,164
ORDINARY DISABILITY:									
UNDER 30	0	0	0	0	0	0	0	0	0
30 TO 34	4	149,439	37,360	3	25,498	8,499	7	174,937	24,991
35 TO 39	16	323,447	20,215	15	337,442	22,496	31	660,889	21,319
40 TO 44	78	1,667,883	21,383	44	734,625	16,696	122	2,402,508	19,693
45 TO 49	250	4,871,085	19,484	172	2,906,525	16,898	422	7,777,610	18,430
50 TO 54	691	14,237,080	20,604	499	8,628,246	17,291	1,190	22,865,326	19,215
55 TO 59	1,071	22,129,961	20,663	680	11,732,342	17,253	1,751	33,862,303	19,339
60 TO 64	1,169	23,017,339	19,690	773	13,763,580	17,805	1,942	36,780,919	18,940
65 TO 69	1,237	23,075,540	18,654	582	8,934,584	15,352	1,819	32,010,124	17,598
70 TO 74	930	17,670,322	19,000	399	5,592,656	14,017	1,329	23,262,978	17,504
75 TO 79	523	9,442,018	18,054	218	2,724,638	12,498	741	12,166,656	16,419
80 TO 84	205	3,421,099	16,688	86	953,151	11,083	291	4,374,250	15,032
85 TO 89	132	2,328,247	17,638	44	471,162	10,708	176	2,799,409	15,906
90 & UP	43	825,530	19,198	28	271,274	9,688	71	1,096,804	15,448
TOTAL	6,349	123,158,990	19,398	3,543	57,075,723	16,109	9,892	180,234,713	18,220
SERVICE RETIREMENT:									
UNDER 30	0	0	0	0	0	0	0	0	0
30 TO 34	0	0	0	0	0	0	0	0	0
35 TO 39	0	0	0	0	0	0	0	0	0
40 TO 44	30	1,425,813	47,527	5	252,152	50,430	35	1,677,965	47,942
45 TO 49	697	32,588,501	46,755	368	16,943,821	46,043	1,065	49,532,322	46,509
50 TO 54	2,567	112,847,834	43,961	917	39,183,399	42,730	3,484	152,031,233	43,637
55 TO 59	5,027	205,669,935	40,913	2,060	65,895,238	31,988	7,087	271,565,173	38,319
60 TO 64	10,643	404,008,903	37,960	5,819	165,307,557	28,408	16,462	569,316,460	34,584
65 TO 69	14,873	532,567,481	35,808	9,753	261,709,544	26,834	24,626	794,277,025	32,254
70 TO 74	13,675	443,684,683	32,445	8,496	209,465,360	24,655	22,171	653,150,043	29,460
75 TO 79	10,447	302,204,240	28,927	6,271	133,357,688	21,266	16,718	435,561,928	26,053
80 TO 84	6,761	178,537,576	26,407	4,359	79,911,123	18,332	11,120	258,448,699	23,242
85 TO 89	4,455	113,279,364	25,427	3,182	53,514,569	16,818	7,637	166,793,933	21,840
90 & UP	2,433	55,772,175	22,923	2,788	38,192,726	13,699	5,221	93,964,901	17,997
TOTAL	71,608	2,382,586,505	33,273	44,018	1,063,733,177	24,166	115,626	3,446,319,682	29,806

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM
DATA USED IN THE JUNE 30, 2015 (LAG) ACTUARIAL VALUATION
FOR DETERMINING FINAL FISCAL YEAR 2017 EMPLOYER CONTRIBUTIONS
SUMMARY OF PENSIONERS BY CAUSE AND GENDER

ALL FILES (ALL BENEFITS)

	MALE			FEMALE			BOTH MALE & FEMALE		
AGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE
ACCIDENTAL DEATH:									
UNDER 30	1	36,253	36,253	0	0	0	1	36,253	36,253
30 TO 34	2	69,843	34,922	1	23,810	23,810	3	93,653	31,218
35 TO 39	1	16,403	16,403	0	0	0	1	16,403	16,403
40 TO 44	1	39,266	39,266	5	191,571	38,314	6	230,837	38,473
45 TO 49	1	40,242	40,242	10	331,941	33,194	11	372,183	33,835
50 TO 54	1	32,852	32,852	11	390,403	35,491	12	423,255	35,271
55 TO 59	0	0	0	15	493,614	32,908	15	493,614	32,908
60 TO 64	1	55,121	55,121	24	835,430	34,810	25	890,551	35,622
65 TO 69	3	87,629	29,210	18	489,022	27,168	21	576,651	27,460
70 TO 74	2	82,434	41,217	17	457,988	26,940	19	540,422	28,443
75 TO 79	1	26,976	26,976	11	210,380	19,125	12	237,356	19,780
80 TO 84	1	23,762	23,762	3	54,150	18,050	4	77,912	19,478
85 TO 89	0	0	0	5	111,914	22,383	5	111,914	22,383
90 & UP	0	0	0	4	53,275	13,319	4	53,275	13,319
TOTAL	15	510,781	34,052	124	3,643,498	29,383	139	4,154,279	29,887
OTHER BENEFICIARIES:									
UNDER 30	84	1,653,088	19,680	98	1,168,206	11,920	182	2,821,294	15,502
30 TO 34	54	644,714	11,939	76	716,949	9,434	130	1,361,663	10,474
35 TO 39	74	1,133,177	15,313	113	1,363,425	12,066	187	2,496,602	13,351
40 TO 44	89	861,204	9,676	156	2,092,365	13,413	245	2,953,569	12,055
45 TO 49	111	1,055,537	9,509	238	3,015,251	12,669	349	4,070,788	11,664
50 TO 54	132	1,178,136	8,925	334	4,300,188	12,875	466	5,478,324	11,756
55 TO 59	135	1,124,694	8,331	559	8,598,655	15,382	694	9,723,349	14,011
60 TO 64	136	1,270,925	9,345	811	15,007,043	18,504	947	16,277,968	17,189
65 TO 69	143	2,076,307	14,520	1,208	22,540,211	18,659	1,351	24,616,518	18,221
70 TO 74	136	1,535,046	11,287	1,544	27,764,481	17,982	1,680	29,299,527	17,440
75 TO 79	105	1,164,657	11,092	1,676	27,848,168	16,616	1,781	29,012,825	16,290
80 TO 84	92	1,534,923	16,684	1,911	30,761,785	16,097	2,003	32,296,708	16,124
85 TO 89	89	801,194	9,002	2,068	29,252,312	14,145	2,157	30,053,506	13,933
90 & UP	75	653,981	8,720	2,193	26,683,938	12,168	2,268	27,337,919	12,054
TOTAL	1,455	16,687,583	11,469	12,985	201,112,977	15,488	14,440	217,800,560	15,083
ALL PENSIONERS AND BENEFICIARIES:									
UNDER 30	86	1,740,558	20,239	99	1,193,254	12,053	185	2,933,812	15,858
30 TO 34	76	1,505,733	19,812	81	822,606	10,156	157	2,328,339	14,830
35 TO 39	133	3,345,670	25,155	138	2,015,805	14,607	271	5,361,475	19,784
40 TO 44	305	8,852,571	29,025	237	4,129,594	17,424	542	12,982,165	23,952
45 TO 49	1,354	51,716,934	38,196	873	26,487,267	30,341	2,227	78,204,201	35,116
50 TO 54	3,867	148,159,490	38,314	1,881	56,785,425	30,189	5,748	204,944,915	35,655
55 TO 59	6,679	246,048,358	36,839	3,408	89,797,614	26,349	10,087	335,845,972	33,295
60 TO 64	12,453	447,026,660	35,897	7,492	196,671,972	26,251	19,945	643,698,632	32,274
65 TO 69	16,921	579,251,389	34,233	11,614	294,851,758	25,388	28,535	874,103,147	30,633
70 TO 74	15,327	479,864,006	31,308	10,507	244,323,634	23,253	25,834	724,187,640	28,032
75 TO 79	11,415	322,825,214	28,281	8,214	164,677,191	20,048	19,629	487,502,405	24,836
80 TO 84	7,262	188,840,152	26,004	6,383	112,030,831	17,551	13,645	300,870,983	22,050
85 TO 89	4,803	119,961,103	24,976	5,308	83,501,693	15,731	10,111	203,462,796	20,123
90 & UP	2,584	57,987,096	22,441	5,026	65,406,924	13,014	7,610	123,394,020	16,215
TOTAL	83,265	2,657,124,934	31,912	61,261	1,342,695,568	21,918	144,526	3,999,820,502	27,675

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PART 5

STATISTICAL SECTION

Statistical Section Overview

The Statistical Section assists users in understanding the basic financial statements by presenting detailed relevant financial and demographic information that provides historical perspective to the Plan's economic condition, trends, and operations. All data in this section is derived from the Plan's internal sources.

Page #	Table Name	Table Description
Page 199	▪ Cash Receipts and Disbursements	Activity of the year on a cash basis, for the Plan and the five Variable Supplements Funds
Page 200 - 203	▪ Revenue by Source ▪ Changes in Fiduciary Net Position ▪ Benefit Payments by Type ▪ Benefit Payments (VSF) ▪ Benefits Paid	10 year financial information that helps the reader understand how financial activities have changed over time for the Plan and the five Variable Supplements Funds
Page 204 - 207	<u>Service Retirement Experience</u> ▪ Average Annual Benefit Payments (6 year summary) ▪ Average Retirement Allowance by Age and Service ▪ Distribution of Retirement Allowance by Age ▪ Distribution of Retirement Allowance by Service	Profile of a substantial percentage of members who retired during calendar year 2016, with information concerning years of service, average salary base, age of retirees, and range of retirement allowances. The benefits stated reflect the maximum benefit to which the retirees in question would have been entitled as a Single Life retirement benefit, which does not provide payments to beneficiaries
Page 208 - 209	<u>Disability Retirement Experience</u> ▪ Ordinary Disability ▪ Accidental Disability	10 year history of the average ages, benefit payments, and salary bases of new disability recipients of each calendar year
Page 210 - 211	▪ Recipients by Benefit Type and Pension Option ▪ Retirement Benefits by Type (10 year history)	Profiles of the entire retiree and beneficiary population and the types of benefits and options under which they are being paid
Page 212 - 213	▪ Pensioners and Beneficiaries ▪ Active Members ▪ Number of Recipients (VSF)	Changes over the last ten years in the number of active members, retirees, and beneficiaries of the Plan; and the recipients of five Variable Supplements Funds

CASH RECEIPTS AND DISBURSEMENTS
Year Ended June 30, 2017
(in thousands)

	NYCERS	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	TOTAL
Cash Balance July 1, 2016	**$ 165,685**	**$ 213**	**$ 30**	**$ 44**	**$ 29**	**$ 40**	**$ 166,041**
Receipts							
Member Contributions	514,342	-	-	-	-	-	514,342
Employer Contributions	3,319,127	-	-	-	-	-	3,319,127
Member Loan Payments	375,015	-	-	-	-	-	375,015
Interest and Dividends	1,625,721	288	-	-	-	-	1,626,009
Investments Redeemed	101,727,035	43,356	-	-	-	-	101,770,391
Transfers to Variable Supplement Funds	-	7,924	1,982	2,642	3,914	3,002	19,464
Miscellaneous	3,219	1	-	-	-	-	3,220
Total Cash Receipts	107,564,459	51,569	1,982	2,642	3,914	3,002	107,627,568
Total Cash Available	107,730,144	51,782	2,012	2,686	3,943	3,042	107,793,609
Disbursements							
Benefit Payments and Withdrawals	4,564,802	31	1,939	2,625	3,894	2,969	4,576,260
Transfers to other Retirement Systems	8,590	-	-	-	-	-	8,590
Transfers to Variable Supplement Funds	19,464	-	-	-	-	-	19,464
Loans to Members	406,692	-	-	-	-	-	406,692
Investments Purchased	102,319,665	43,644	-	-	-	-	102,363,309
Investment Expenses	181,760	-	-	-	-	-	181,760
Administrative Expenses	62,617	-	-	-	-	-	62,617
Miscellaneous	2,679	1	4	3	4	3	2,694
Total Cash Disbursements	107,566,269	43,676	1,943	2,628	3,898	2,972	107,621,386
Cash Balance June 30, 2017	**163,875**	**8,106**	**69**	**58**	**45**	**70**	**172,223**

TABLE OF REVENUE BY SOURCE (QPP & VSF)
Fiscal Years 2008 through 2017
(in thousands)

Fiscal Year Ended June 30	Member Contributions	Employer Contributions	Net Investment Income (QPP)	Net Investment Income (VSF)	Net Investment Income (QPP+VSF)	Other Income	Total Revenue
2017	$513,514	$3,328,193	$6,982,304	($152)	$6,982,152	$3,266	$10,827,125
2016	485,508	3,365,454	1,171,720	184	1,171,904	2,928	5,025,794
2015	467,129	3,160,258	1,175,099	10	1,175,109	4,140	4,806,636
2014	447,689	3,114,068	7,911,004	20	7,911,024	4,648	11,477,429
2013	437,775	3,046,845	4,967,018	38	4,967,056	5,072	8,456,748
2012	403,641	3,017,004	578,893	n/a	578,893	4,772	4,004,310
2011	413,740	2,387,216	7,851,456	n/a	7,851,456	4,707	10,657,119
2010	398,964	2,197,717	4,318,810	n/a	4,318,810	4,696	6,920,187
2009	382,356	2,150,495	(7,036,151)	n/a	(7,036,151)	3,709	(4,499,591)
2008	366,144	1,874,242	(1,883,669)	n/a	(1,883,669)	3,096	359,813

Note: Effective 2013 and forward, the financial statements include the Variable Supplements Funds.

TABLE OF CHANGES IN FIDUCIARY NET POSITION (QPP & VSF)
Fiscal Years 2008 through 2017
(in thousands)

Fiscal Year Ended June 30	Additions to Fiduciary Net Position[1]	Deductions from Plan Net Position					Net Change in Fiduciary Net Position
		Benefit Payments[2]	Refunds	Payments To Other Pension Systems and Funds	Administrative Expenses	Total Deductions	
2017	$ 10,827,125	$ 4,573,176	$ 75,765	$ 8,087	$ 59,671	$ 4,716,699	$ 6,110,426
2016	5,025,794	4,382,120[3]	72,135	7,440	56,683	4,518,378[3]	507,416
2015	4,806,636	4,259,018	66,738	7,142	54,635	4,387,533	419,103
2014	11,477,429	3,973,698	66,747	7,228	50,431	4,098,104	7,379,325
2013	8,456,748	3,803,312	60,179	5,250	48,666	3,917,407	4,539,341
2012	4,004,310	3,642,520	59,151	17,418	51,385	3,770,474	233,836
2011	10,657,119	3,518,109	63,148	16,773	46,374	3,644,404	7,012,715
2010	6,920,187	3,332,785	58,325	11,710	49,676	3,452,496	3,467,691
2009	(4,499,591)	3,209,397	55,451	12,922	48,822	3,326,592	(7,826,183)
2008	359,813	2,967,373	142,132	13,685	46,999	3,170,189	(2,810,376)

Notes:

1) Per Table of Revenue by Source

2) Per Table of Benefit Payments by Type. Includes payments from Variable Supplements Funds. For details, please refer to Table of Benefit Payments (VSF).

3) Excludes an accrual of $41,925 that was included in the June 30 2016 financial statements. In November 2016, after issuance of the financial statements, the NYC Office of the Actuary provided a memo to the COVSF Board of Trustees confirming that assets were insufficient to provide a COVSF benefit in December 2016. Management doesn't believe this change in estimated benefit payments has a material effect on the 2016 and 2017 combining financial statements.

TABLE OF BENEFIT PAYMENTS BY TYPE (QPP & VSF)
Fiscal Years 2008 through 2017
(in thousands)

Fiscal Year Ended June 30	Total Retirement Benefits (QPP)	Total Benefit Payments (VSF)	Total Retirement Benefits (QPP+VSF)	Total Death Benefits	Change in Accrued Benefits Payable	Total Benefit Payments
2017	$4,400,869	$ 13,921	$4,414,790	$ 101,907	$ 56,479	$4,573,176
2016	4,155,638	51,749	4,207,387	118,379	56,354	4,382,120
2015	4,058,520	90,191	4,148,711	95,068	15,239	4,259,018
2014	3,855,575	50,139	3,905,714	98,532	(30,548)	3,973,698
2013	3,692,992	12,274	3,705,266	85,132	12,914	3,803,312
2012	3,544,078	12,441	3,556,519	85,546	455	3,642,520
2011	3,384,811	12,550	3,397,361	96,192	24,556	3,518,109
2010	3,220,938	12,687	3,233,625	121,586	(22,426)	3,332,785
2009	3,116,945	12,773	3,129,718	77,960	1,719	3,209,397
2008	2,983,004	12,873	2,995,877	90,415	(118,919)	2,967,373

TABLE OF BENEFIT PAYMENTS (VSF)[1]
Fiscal Years 2008 through 2017
(in thousands)

Fiscal Year Ended June 30	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	Total
2017	$ 2,624	$ 1,889	$ 2,595	$ 3,830	$ 2,983	$ 13,921
2016	40,224[2]	1,968	2,648	3,945	2,964	51,749
2015	78,285	2,100	2,686	4,040	3,080	90,191
2014	38,014	2,168	2,797	4,070	3,090	50,139
2013	-	2,188	2,823	4,142	3,121	12,274
2012	-	2,257	2,867	4,160	3,157	12,441
2011	-	2,323	2,878	4,191	3,158	12,550
2010	9	2,344	2,902	4,242	3,190	12,687
2009	10	2,393	2,911	4,275	3,184	12,773
2008	-	2,424	2,929	4,318	3,202	12,873

Notes:

1) NYCERS administers the following Variable Supplements Funds:
- *Correction Officers' Variable Supplements Fund (COVSF)*
- *Housing Police Officers' Variable Supplements Fund (HPOVSF)*
- *Housing Police Superior Officers' Variable Supplements Fund (HPSOVSF)*
- *Transit Police Officers' Variable Supplements Fund (TPOVSF)*
- *Transit Police Superior Officers' Variable Supplements Fund (TPSOVSF)*

TPOVSF, TPSOVSF, HPOVSF, and HPSOVSF are closed to new entrants.

2) Excludes an accrual of $41,925 that was included in the June 30 2016 financial statements. In November 2016, after issuance of the financial statements, the NYC Office of the Actuary provided a memo to the COVSF Board of Trustees confirming that assets were insufficient to provide a COVSF benefit in December 2016. Management doesn't believe this change in estimated benefit payments has a material effect on the 2016 and 2017 combining financial statements.

TABLE OF BENEFITS PAID (QPP & VSF)
Fiscal Years 2008 through 2017
(in thousands)

Fiscal Year Ended June 30	Retirement Benefits	Member Loans		Refunds	Death Benefits	
		Amount Paid	No. Loans		In Service	After Retirement
2017	$ 4,414,790	$ 404,624	47,877	$ 75,765	$ 69,383	$ 32,524
2016	4,207,387	389,619	49,142	72,135	72,354	46,025
2015	4,148,711	381,243	48,449	66,738	60,493	34,575
2014	3,905,714	397,705	51,702	66,747	63,598	34,934
2013	3,705,266	392,580	52,952	60,179	57,590	27,542
2012	3,556,519	359,882	52,461	59,151	58,955	26,591
2011	3,397,361	374,382	51,881	63,148	69,659	26,533
2010	3,233,625	376,319	52,923	58,325	81,074	40,512
2009	3,129,718	337,231	49,336	55,451	56,329	21,631
2008	2,995,877	279,754	45,882	142,132	67,699	22,716

Note: Retirement benefits per Table of Benefit Payments by Type include payments from Variable Supplements Funds. For details, please refer to Table of Benefit Payments (VSF).

SERVICE RETIREMENT EXPERIENCE – 6 YEAR HISTORY
TABLE OF AVERAGE ANNUAL BENEFIT PAYMENTS BY YEARS OF SERVICE
Calendar Years 2011 through 2016

	Calendar Year	Years of Service 5 - 9.9	10 - 14.9	15 - 19.9	20 - 24.9	25 - 29.9	30 - 34.9	35 - 39.9	40 & Up	Total Population
Number of Retirees	2016	143	439	376	1,057	1,873	1,134	396	150	5,568
	2015	152	499	371	949	2,043	1,095	285	171	5,565
	2014	134	456	347	1,075	1,884	996	250	189	5,331
	2013	149	447	322	1,239	1,709	915	216	204	5,201
	2012	176	436	307	1,215	1,609	842	178	182	4,945
	2011	174	399	320	1,588	1,643	865	337	209	5,535
Average Retirement Benefit	2016	$ 7,913	$ 13,123	$ 19,191	$ 40,187	$ 47,836	$ 55,647	$ 64,058	$ 88,142	$ 44,518
	2015	7,649	13,223	19,352	35,501	46,515	53,945	59,082	81,760	41,968
	2014	7,243	13,312	18,431	35,761	44,660	52,326	61,222	89,189	41,316
	2013	6,741	12,536	17,987	34,628	42,273	50,889	59,072	77,790	38,980
	2012	6,547	12,200	17,973	35,385	42,797	50,869	60,081	73,829	38,586
	2011	6,807	11,839	17,613	35,740	41,525	50,904	62,918	79,151	39,434
Average Salary Base	2016	$ 67,056	$ 64,965	$ 69,281	$ 87,362	$ 88,750	$ 91,375	$ 92,837	$ 81,162	$ 85,447
	2015	64,281	64,821	69,363	78,541	86,944	88,146	85,010	77,424	81,491
	2014	60,359	64,622	65,592	79,117	84,265	85,921	87,335	85,512	80,226
	2013	58,112	61,601	64,599	76,020	80,120	82,524	80,735	77,442	76,392
	2012	54,558	60,396	63,734	75,933	80,597	82,714	78,846	69,914	75,659
	2011	56,725	59,195	60,734	76,043	78,349	83,449	79,643	79,951	75,835
Average Retirement Benefit As A % of Salary Base	2016	12%	20%	28%	46%	54%	61%	69%	109%	52%
	2015	12%	20%	28%	45%	54%	61%	70%	106%	52%
	2014	12%	21%	28%	45%	53%	61%	70%	104%	52%
	2013	12%	20%	28%	46%	53%	62%	73%	101%	51%
	2012	12%	20%	28%	47%	53%	62%	76%	106%	51%
	2011	12%	20%	29%	47%	53%	61%	79%	99%	52%

SERVICE RETIREMENT EXPERIENCE
TABLE OF AVERAGE RETIREMENT ALLOWANCE BY AGE AND YEARS OF SERVICE
Calendar Year 2016

	Age at Retirement	Years of Service: 5 - 9.9	10 - 14.9	15 - 19.9	20 - 24.9	25 - 29.9	30 - 34.9	35 - 39.9	40 & Up	Total Population
Number of Retirees	Under 50	0	0	0	129	58	1	0	0	188
	50-54	0	0	1	120	227	80	3	0	431
	55-59	21	59	40	144	565	353	76	1	1,259
	60-64	52	145	143	333	634	481	222	59	2,069
	65-69	55	182	135	249	304	173	71	52	1,221
	70 & Over	15	53	57	82	85	46	24	38	400
Average Retirement Allowance	Under 50	$ -	$ -	$ -	$ 55,552	$ 69,007	$ 59,132	$ -	$ -	$ 59,722
	50-54	-	-	12,919	57,992	59,098	66,634	78,617	-	60,218
	55-59	5,599	12,785	17,379	40,420	48,205	56,656	64,339	130,719	47,374
	60-64	8,605	12,853	19,771	34,928	44,128	54,756	61,740	74,966	43,119
	65-69	7,796	13,101	19,346	33,616	44,188	53,001	70,081	89,207	37,684
	70 & Over	9,179	14,313	18,749	30,856	41,574	48,004	64,970	106,021	39,563
Average Retirement Allowance As A % of Salary Base	Under 50	0%	0%	0%	50%	58%	60%	0%	0%	53%
	50-54	0%	0%	22%	50%	56%	60%	68%	0%	55%
	55-59	11%	20%	27%	44%	52%	59%	65%	79%	52%
	60-64	12%	20%	28%	44%	54%	62%	69%	96%	53%
	65-69	12%	20%	28%	44%	54%	62%	72%	101%	49%
	70 & Over	13%	21%	28%	44%	55%	63%	72%	145%	54%

SERVICE RETIREMENT EXPERIENCE
TABLE OF DISTRIBUTION OF RETIREMENT ALLOWANCE
BY AGE OF RETIREMENT
Calendar Year 2016

Allowance / Age	Under 50	50-54	55-59	60-64	65-69	70 & Up	Total
$4,999 or Less	-	-	12	18	15	3	48
5,000 - 9,999	-	-	32	82	93	27	234
10,000 - 14,999	-	2	46	98	115	34	295
15,000 - 19,999	-	1	59	116	111	52	339
20,000 - 24,999	-	8	66	180	127	47	428
25,000 - 29,999	-	12	73	190	98	32	405
30,000 - 34,999	-	17	89	171	106	27	410
35,000 - 39,999	2	18	101	180	85	30	416
40,000 - 44,999	13	18	101	172	81	23	408
45,000 - 49,999	32	38	123	156	77	24	450
50,000 - 54,999	38	51	123	152	67	17	448
55,000 - 59,999	29	59	102	120	55	16	381
60,000 - 64,999	22	46	86	110	42	16	322
65,000 - 69,999	16	44	78	88	27	6	259
70,000 - 74,999	13	41	37	46	26	9	172
75,000 - 79,999	7	24	44	54	18	4	151
80,000 - 84,999	4	15	19	41	13	6	98
85,000 - 89,999	5	9	21	23	7	5	70
90,000 - 94,999	-	10	8	12	15	4	49
95,000 - 99,999	1	7	15	14	8	2	47
$100,000 or more	6	11	24	46	35	16	138
Total	188	431	1,259	2,069	1,221	400	5,568

SERVICE RETIREMENT EXPERIENCE
TABLE OF DISTRIBUTION OF RETIREMENT ALLOWANCE
BY YEARS OF SERVICE
Calendar Year 2016

Allowance / Service	5-9.9 Yrs	10-14.9 Yrs	15-19.9 Yrs	20-24.9 Yrs	25-29.9 Yrs	30-34.9 Yrs	35-39.9 Yrs	40 & Up Yrs	Total
$4,999 or Less	45	2	1	-	-	-	-	-	48
5,000 - 9,999	63	155	16	-	-	-	-	-	234
10,000 - 14,999	20	138	117	20	-	-	-	-	295
15,000 - 19,999	9	90	84	115	38	3	-	-	339
20,000 - 24,999	3	41	97	128	132	24	3	-	428
25,000 - 29,999	3	11	31	97	166	75	21	1	405
30,000 - 34,999	-	-	18	79	194	88	29	2	410
35,000 - 39,999	-	-	6	94	195	90	27	4	416
40,000 - 44,999	-	2	3	87	197	89	27	3	408
45,000 - 49,999	-	-	-	117	184	108	29	12	450
50,000 - 54,999	-	-	-	109	183	117	30	9	448
55,000 - 59,999	-	-	1	79	147	116	28	10	381
60,000 - 64,999	-	-	-	54	125	99	31	13	322
65,000 - 69,999	-	-	-	33	98	94	29	5	259
70,000 - 74,999	-	-	1	23	55	59	29	5	172
75,000 - 79,999	-	-	-	7	49	55	28	12	151
80,000 - 84,999	-	-	1	5	29	29	19	15	98
85,000 - 89,999	-	-	-	7	25	19	13	6	70
90,000 - 94,999	-	-	-	2	14	15	10	8	49
95,000 - 99,999	-	-	-	-	13	21	8	5	47
$100,000 or more	-	-	-	1	29	33	35	40	138
Total	143	439	376	1,057	1,873	1,134	396	150	5,568

ORDINARY DISABILITY RETIREMENT EXPERIENCE
TABLE OF AVERAGE ANNUAL BENEFIT PAYMENTS
Calendar Years 2007 through 2016

Calendar Year	Number of Retirees	Average Age	Average Years of Service	Average Retirement Benefit	Average Salary Base	Average Retirement Benefit As A % of Salary Base
2016	318	54	19	$ 25,229	$ 70,080	36%
2015	357	54	18	25,142	67,952	37%
2014	400	54	18	23,948	66,522	36%
2013	446	54	18	23,201	64,447	36%
2012	436	54	18	22,111	61,419	36%
2011	475	54	18	21,687	60,242	36%
2010	516	53	18	20,789	59,397	35%
2009	464	53	18	19,870	55,194	36%
2008	428	52	17	19,127	54,649	35%
2007	437	53	17	18,382	52,520	35%

ACCIDENTAL DISABILITY RETIREMENT EXPERIENCE
TABLE OF AVERAGE ANNUAL BENEFIT PAYMENTS
Calendar Years 2007 through 2016

Calendar Year	Number of Retirees	Average Age	Average Years of Service	Average Retirement Benefit	Average Salary Base	Average Retirement Benefit As A % of Salary Base
2016	106	46	n/a	$ 70,330	$ 96,342	73%
2015	108	47	n/a	67,799	91,621	74%
2014	70	47	n/a	69,676	94,157	74%
2013	77	45	n/a	63,221	85,434	74%
2012	89	48	n/a	64,179	86,728	74%
2011	89	49	n/a	62,119	83,945	74%
2010	75	46	n/a	55,944	75,600	74%
2009	80	46	n/a	52,653	70,204	75%
2008	101	48	n/a	50,728	68,551	74%
2007	94	47	n/a	47,892	63,856	75%

Notes: Certain accidental disability benefits are reduced by amounts awarded by the New York State Workers' Compensation Board.

TABLE OF RECIPIENTS BY BENEFIT TYPE AND PENSION OPTION
Year Ended June 30, 2017

Pension Option	Service	Disability (Non-Duty)	Disability and Deaths (Duty)	Total[1]
Single Life	73,968	6,369	4,096	84,433
Joint and Survivor	27,454	1,086	145	28,685
Lump Sum or Term Certain	13,577	2,012	434	16,023
Advanced Payments[2]	4,944	319	102	5,365
Surviving Annuitants	15,958	2,105	220	18,283
Total	135,901	11,891	4,997	152,789

Notes:
1) Total includes retirees and beneficiaries who received a retirement payment on the pensioners' payroll as of June 30, 2017. These statistics exclude suspended recipients and those who have died and the pension number has not yet been terminated from the roster.
2) Retirees have not yet selected a retirement option.

TABLE OF RETIREMENT BENEFITS BY TYPE
10 YEAR HISTORY
Fiscal Years 2008 through 2017

Year Ended June 30	Service		Disability (Non-Duty)		Disability (Duty)		Surviving Beneficiaries		Total	
	No. of Recipients	Average Annual Allowance	No. of Recipients	Average Annual Allowance	No. of Recipients	Average Annual Allowance	No. of Recipients	Average Annual Allowance	No. of Recipients	Average Annual Allowance
2017	119,943	$ 31,259	9,786	$ 18,764	4,777	$ 36,400	18,283	$ 19,013	152,789	$ 29,154
2016	117,625	30,203	9,759	18,485	4,739	34,513	17,817	18,121	149,940	28,141
2015	115,139	29,613	9,795	18,056	4,701	33,328	17,177	17,694	146,812	27,567
2014	113,507	28,788	9,697	17,771	4,681	31,974	16,652	16,903	144,537	26,783
2013	113,291	27,959	9,580	17,560	4,637	31,882	16,360	16,314	143,868	26,069
2012	110,205	27,292	9,468	17,086	4,583	31,351	16,110	15,339	140,366	25,365
2011	108,161	26,544	9,248	16,581	4,581	29,563	15,834	14,881	137,824	24,636
2010	105,711	25,900	9,024	16,080	4,550	28,833	15,765	14,146	135,050	23,971
2009	104,577	25,069	8,852	15,887	4,555	28,325	15,677	13,741	133,661	23,243
2008	104,272	24,437	9,245	15,301	3,941	29,866	15,612	12,974	133,070	22,618

TABLE OF PENSIONERS AND BENEFICIARIES
Fiscal Years 2008 through 2017

Fiscal Year Ended June 30	New Pensioners	Terminated Pensioners	Net Change	Total Number	Percentage Change
2017	7,741	2,721	5,020	172,722	2.99
2016	7,274	2,871	4,403	167,702	2.70
2015	6,977	4,180	2,797	163,299	1.74
2014	7,112	3,316	3,796	160,502	2.42
2013	6,225	4,019	2,206	156,706	1.43
2012	6,515	3,245	3,270	154,500	2.16
2011	7,838	3,786	4,052	151,230	2.75
2010	6,140	3,470	2,670	147,178	1.85
2009	4,952	2,785	2,167	144,508	1.52
2008	5,444	3,812	1,632	142,341	1.16

TABLE OF ACTIVE MEMBERS
Fiscal Years 2008 through 2017

Fiscal Year Ended June 30	New Entrants	Withdrawals	Net Change	Total Membership	Percentage Change
2017	15,419	11,627	3,792	241,504	1.60
2016	12,857	10,365	2,492	237,712	1.06
2015	13,001	10,028	2,973	235,220	1.28
2014	11,334	9,416	1,918	232,247	0.83
2013	8,118	12,016	(3,898)	230,329	(1.66)
2012	19,791	10,774	9,017	234,227	4.00
2011	9,332	16,542	(7,210)	225,210	(3.10)
2010	9,509	9,181	328	232,420	0.14
2009	11,454	9,793	1,661	232,092	0.72
2008	14,180	13,876	304	230,431	0.13

TABLE OF RECIPIENTS (VSF)[1]
Fiscal Years 2008 through 2017

Fiscal Year Ended June 30	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	Total
2017	7,488	154	214	313	244	8,413
2016	7,064[2]	161	218	324	248	8,015
2015	6,663	172	224	333	256	7,648
2014	6,389	179	234	342	260	7,404
2013	-	187	241	347	265	1,040
2012	-	192	246	354	271	1,063
2011	-	195	250	361	273	1,079
2010	-	200	253	368	276	1,097
2009	-	206	256	374	279	1,115
2008	-	214	258	380	281	1,133

Notes:
1) NYCERS administers the following Variable Supplements Funds:
- *Correction Officers' Variable Supplements Fund (COVSF)*
- *Housing Police Officers' Variable Supplements Fund (HPOVSF)*
- *Housing Police Superior Officers' Variable Supplements Fund (HPSOVSF)*
- *Transit Police Officers' Variable Supplements Fund (TPOVSF)*
- *Transit Police Superior Officers' Variable Supplements Fund (TPSOVSF)*

TPOVSF, TPSOVSF, HPOVSF, and HPSOVSF are closed to new entrants

2) COVSF benefits were not authorized to be paid in December 2016. This number represents the count of individuals eligible, if a benefit had been authorized to be paid.