

**NEW YORK CITY RETIREMENT SYSTEMS**  
ACTUARIAL AUDIT AND RELATED REVIEW SERVICES  
INDEPENDENT ACTUARY'S STATEMENT

Prepared by:  
Gabriel, Roeder, Smith & Company  
October 2015

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The Honorable Scott M. Stringer  
Comptroller of the City of New York  
One Centre Street  
New York, New York 10007

**Re: Independent Actuary's Certification Regarding the Funding of the Five Actuarially-Funded New York City Retirement Systems ("NYCRS")**

Dear Comptroller Stringer:

Gabriel, Roeder, Smith & Company (GRS) was retained to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of the following five actuarial pension funds (collectively NYCRS or the Systems):

- New York City Employees' Retirement System (NYCERS)
- Teachers' Retirement System of the City of New York (TRS)
- Board of Education Retirement System of the City of New York (BERS)
- New York City Police Pension Fund (POLICE)
- New York Fire Department Pension Fund (FIRE)

GRS was required to conduct two consecutive biennial actuarial engagements, encompassing the following:

- Biennial Contribution Audits of the computed employer contributions for each System in NYCRS for fiscal years 2012 and 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Biennial Experience Studies for the periods ending June 30, 2011 and June 30, 2013, for each System in NYCRS;
- Two Administrative Reviews of the data gathering and maintenance practices of the Office of the Actuary (OA) and each System in NYCRS (one review corresponding with each Contribution Audit); and
- Two Independent Actuarial Statements (one for each engagement); GRS, as the independent actuarial auditor, will submit a statement that will briefly describe the scope of the entire engagement, will review the entire engagement and comment on the financial condition and financing progress and policies of each System, and certify that the Systems are being funded on sound actuarial, financial, and legal bases.

This report constitutes the deliverable with respect to the Independent Actuarial Statement for the second engagement. The purpose of this report is to:

- Summarize the findings from the Contribution Audit, the Experience Study and the Administrative Review from the second engagement; and
- Provide each System with a certification of the findings of the second engagement.

The Actuarial Contribution Audit provides an independent verification of the computation of employer pension contributions – including the methodologies used therein and their conformity to law, the assumptions adopted by the Systems, and generally accepted actuarial principles. The Experience Studies review and comment on the continued appropriateness of the actuarial assumptions used in the computations of employer contributions and identify areas where assumptions may be improved. The Administrative Review evaluates the actuarial data gathering process to ensure that the data collection methods produce sufficiently accurate data for valuation and Experience Study purposes. Thus the three components of the assignment provide assurance that:

- Assets and liabilities are calculated accurately, using appropriate actuarial assumptions and methods, and are based on sufficient and accurate census data; and
- Employer contribution amounts are computed in conformity with all applicable financial, actuarial and legal requirements.

### **GRS' Conclusions**

#### Administrative Review:

GRS has concluded that the data used by the OA to determine employer pension contributions for FY 2014 and develop actuarial assumptions was sufficiently complete and accurate for those purposes.

#### Contribution Audit:

Through a valuation replication and review of individual test life cases, GRS has confirmed that the OA's calculations of the FY 2014 employer contribution for all Systems were reasonable and appropriate.

#### Experience Study:

Although actual experience did differ from assumptions in some instances, GRS has concluded that the assumptions used in the June 30, 2012 (Lag) Actuarial Valuations were reasonable.

Accordingly, GRS is pleased to certify that the Systems are being funded in conformity with all applicable actuarial, financial and statutory requirements.

As part of the Experience Study, GRS observed some differences between current assumed activity and actual activity during the study period. As a result, we recommend the OA consider following changes to the assumptions:

- Lower Investment Return Assumption;
- Lower rates of mortality;
- Recognition of improvement in mortality through the use of generational tables;
- Adjustments in assumed rates of turnover, disability and retirement; and
- Adjustments to the pay increase and overtime assumptions.

The recommended changes in economic and mortality assumptions are similar for all the Systems. The recommendations for the other assumptions vary by System.


### **Organization of this Report**

<b>Section A</b>	Independent Actuary's Statement for the New York City Employees' Retirement System (NYCERS)
<b>Section B</b>	Independent Actuary's Statement for the Teachers' Retirement System of the City of New York (TRS)
<b>Section C</b>	Independent Actuary's Statement for the Board of Education Retirement System of the City of New York (BERS)
<b>Section D</b>	Independent Actuary's Statement for the New York City Police Pension Fund (POLICE)
<b>Section E</b>	Independent Actuary's Statement for the New York Fire Department Pension Fund (FIRE)

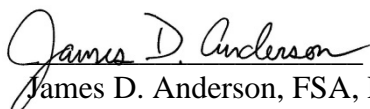
We would like to thank the Office of the Comptroller, the Office of the Actuary and the staff of each of the Systems for hosting our visits, supplying the information on which this study was based and reviewing initial drafts. This report could not have been completed without their assistance. They (all) were accommodating, informative and helpful.

James D. Anderson, Joseph P. Newton and Daniel J. White are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

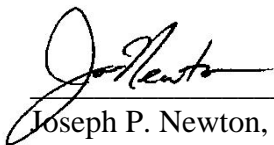
Respectfully Submitted,



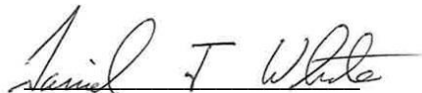
Kenneth G. Alberts  
Project Manager and Contribution Audit Director



James D. Anderson, FSA, EA, MAAA  
Alternate Project Manager and Peer Review Actuary



Joseph P. Newton, FSA, EA, MAAA  
Alternate Project Manager and Experience Study Director



Daniel J. White, FSA, EA, MAAA  
Experience Study Director

10/23/2015

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## **SECTION A**

**INDEPENDENT ACTUARY'S STATEMENT FOR THE  
NEW YORK CITY EMPLOYEES' RETIREMENT  
SYSTEM (NYCERS)**

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**Independent Actuary's Statement for the New York City Employees' Retirement System (NYCERS)**

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of the NYCERS.

GRS has completed the following:

- A Contribution Audit of the computed employer contributions for NYCERS for fiscal year 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Experience Studies for the 4-year and 10-year periods ending June 30, 2013 for NYCERS; and
- An Administrative Review of the data gathering and maintenance practices of the Office of the Actuary (OA) and NYCERS.

Based on the Contribution Audit, the Experience Studies, and the Administrative Review for NYCERS, GRS certifies that NYCERS is being funded in accordance with Standards of Practice prescribed by the Actuarial Standards Board and in conformity with the applicable New York State and New York City Statutes. Assuming continued funding of NYCERS by the City/Obligors on the basis used in the June 30, 2012 (Lag) Actuarial Valuation, we believe the City's funding objective (that these statutorily required contributions, together with member contributions and assumed investment income will be sufficient to pay benefits when due) will be achieved.

**Employer Contribution Audit for Fiscal Year 2014**

GRS has performed an actuarial audit of the June 30, 2012 (Lag) Actuarial Valuation which develops the employer contributions for Fiscal Year 2014. This actuarial audit included:

- A review of actuarial methods and assumptions;
- A replication of the valuation (using GRS software) to verify the computations of Actuarial Value of Assets, Actuarial Liabilities and Employer Contributions; and
- A review of several test life cases to validate the programming and software used by the OA to perform the valuation.

GRS has concluded the following:

- Actuarial methods and assumptions adopted by the Board and used in the June 30, 2012 (Lag) Actuarial Valuation were reasonable, appropriate and in accordance with generally accepted actuarial standards of practice, including:
  - The use of the Entry Age Actuarial Cost Method;
  - The Actuarial Asset Valuation Method; and
  - The demographic and economic assumptions.

- The mathematical computations performed by the OA in the June 30, 2012 (Lag) Actuarial Valuation were appropriate and correct and GRS was able to independently replicate the computation of the employer contributions within less than 2%; and
- In GRS' review of test cases, GRS was able to confirm that the software used by the OA was generally programmed correctly and based on the methods and assumptions adopted by the Board, encoded in Statute or determined by the Actuary, as appropriate (any exceptions were minor, did not materially affect the results and were identified for the OA to review).

Additional details along with GRS' suggestions for improving the valuation can be found in our Actuarial Audit of Employer Contributions report for Fiscal Year 2014 dated October 23, 2015.

### **Administrative Review**

GRS has completed the Administrative Review, which included:

- A meeting with OA staff to discuss the data collection process and the benefit calculation/certification process;
- A meeting with NYCERS staff to discuss the data collection process and the benefit calculation/certification process; and
- A walk through NYCERS to review security measures taken to ensure the security of sensitive member data.

GRS has concluded the following:

- The data gathering process used by the OA produced data that was sufficiently accurate for use in the Actuarial Valuation and Experience Study;
- Transmission and storage of sensitive member data is done in a secure and appropriate manner; and
- Communications between the OA and NYCERS are on excellent terms and have fostered a cooperative and productive relationship.

Additional details along with GRS' suggestions for improving the data collection process can be found in our Administrative Review report dated October 9, 2015.

### **Experience Study**

GRS has completed the Experience Study for the 4-year and 10-year periods ending June 30, 2013. This process involved collecting the Experience Study database developed by the prior Independent Actuary, updating and maturing the data based on the valuation data used in the June 30, 2012 and June 30, 2013 actuarial valuations and comparing assumed experience to actual experience. Although the findings indicate that several assumptions differed from experience, GRS believes that:



- The economic assumptions used for the NYCERS June 30, 2012 (Lag) valuation are reasonable and appropriate; and
- The demographic assumptions used are reasonable and appropriate.

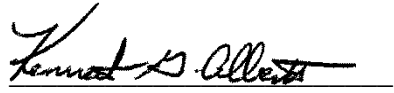
GRS recommends the OA consider changes in the following areas for future valuations:

- Reduce Investment Return Assumption
- Reduce rates of mortality and update the provision for future mortality improvement
- Salary Increase Assumptions
  - For General group: decrease the general portion of the salary increase assumption
  - For other groups: increase the general portion of the salary increase and flatten the merit portion
  - OA should temper the above based on the increases called for in the new labor agreements
- Withdrawal
  - Increase assumed withdrawals to half way between current assumption and actual experience
  - Further increases will be likely in next study
- Disability: recommend minor changes based on each group's experience
- Retirement: reflect delays in retirement as seen in data (and also nationwide)

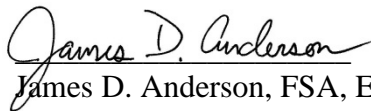
Additional details can be found in our Experience Study report dated October 23, 2015.

James D. Anderson, Joseph P. Newton and Daniel J. White are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

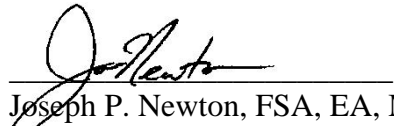
Respectfully Submitted,



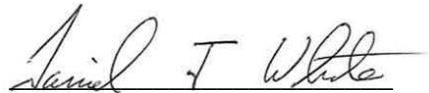
Kenneth G. Alberts  
Project Manager and Contribution Audit Director



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Joseph P. Newton, FSA, EA, MAAA  
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Daniel J. White, FSA, EA, MAAA  
Experience Study Director

10/23/2015

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## **SECTION B**

**INDEPENDENT ACTUARY'S STATEMENT FOR THE  
TEACHERS' RETIREMENT SYSTEM OF THE CITY OF  
NEW YORK (TRS)**

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## **Independent Actuary's Statement for the Teachers' Retirement System of the City of New York (TRS)**

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of the TRS.

GRS has completed the following:

- A Contribution Audit of the computed employer contributions for TRS for fiscal year 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Experience Studies for the 4-year and 10-year periods ending June 30, 2013 for TRS; and
- An Administrative Review of the data gathering and maintenance practices of the Office of the Actuary (OA) and TRS.

Based on the Contribution Audit, the Experience Studies, and the Administrative Review for TRS, GRS certifies that TRS is being funded in accordance with Standards of Practice prescribed by the Actuarial Standards Board and in conformity with applicable New York State and New York City Statutes. Assuming continued funding of TRS by the City/Obligors on the basis used in the June 30, 2012 (Lag) Actuarial Valuation, we believe the City's funding objective (that these statutorily required contributions, together with member contributions and assumed investment income will be sufficient to pay benefits when due) will be achieved.

### **Employer Contribution Audit for Fiscal Year 2014**

GRS has performed an actuarial audit of the June 30, 2012 (Lag) Actuarial Valuation which develops the employer contributions for Fiscal Year 2014. This actuarial audit included:

- A review of actuarial methods and assumptions;
- A replication of the valuation (using GRS software) to verify the computations of Actuarial Value of Assets, Actuarial Liabilities and Employer Contributions; and
- A review of several test life cases to validate the programming and software used by the OA to perform the valuation.

GRS has concluded the following:

- Actuarial methods and assumptions adopted by the Board and used in the June 30, 2012 (Lag) Actuarial Valuation were reasonable, appropriate and in accordance with generally accepted actuarial standards of practice, including:
  - The use of the Entry Age Actuarial Cost Method;
  - The Actuarial Asset Valuation Method; and
  - The demographic and economic assumptions.

- The mathematical computations performed by the OA in the June 30, 2012 (Lag) Actuarial Valuation were appropriate and correct and GRS was able to independently replicate the computation of the employer contributions within 4%; and
- In GRS' review of test cases, GRS was able to confirm that the software used by the OA was generally programmed correctly and based on the methods and assumptions adopted by the Board, encoded in Statute or determined by the Actuary, as appropriate (any exceptions were minor, did not materially affect the results and were identified for the OA to review).

Additional details along with GRS' suggestions for improving the valuation can be found in our Actuarial Audit of Employer Contributions report for Fiscal Year 2014, dated October 23, 2015.

### **Administrative Review**

GRS has completed the Administrative Review, which included:

- A meeting with OA staff to discuss the data collection process and the benefit calculation/certification process;
- A meeting with TRS staff to discuss the data collection process and the benefit calculation/certification process; and
- A walk through TRS to review security measures taken to ensure the security of sensitive member data.

GRS has concluded the following:

- The data gathering process used by the OA produced data that was sufficiently accurate for use in the Actuarial Valuation and Experience Study;
- Transmission and storage of sensitive member data is done in a secure and appropriate manner; and
- Communications between the OA and TRS are on excellent terms and have fostered a cooperative and productive relationship.

Additional details along with GRS' suggestions for improving the data collection process can be found in our Administrative Review report dated October 9, 2015.

### **Experience Study**

GRS has completed the Experience Study for the 4-year and 10-year periods ending June 30, 2013. This process involved collecting the Experience Study database developed by the prior Independent Actuary, updating and maturing the data based on the valuation data used in the June 30, 2012 and June 30, 2013 actuarial valuations and comparing assumed experience to actual experience. Although the findings indicate that several assumptions differed from experience, GRS believes that:

- The economic assumptions used for the TRS June 30, 2012 (Lag) valuation are reasonable and appropriate; and
- The demographic assumptions are reasonable and appropriate.

GRS recommends the OA consider changes in the following areas for future valuations:

- Reduce Investment Return Assumption
- Reduce rates of mortality and update the provision for future mortality improvement
- Withdrawal
  - Increase assumed withdrawals to half way between current assumption and actual experience
  - Further increases will be likely in next study
- Disability: substantially increase rates of both ordinary and accidental disability
- Retirement: reflect delays in retirement as seen in data (and also nationwide)

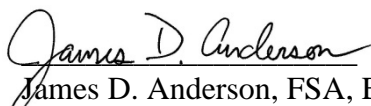
Additional details can be found in our Experience Study report dated October 23, 2015.

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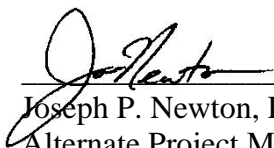
Respectfully Submitted,



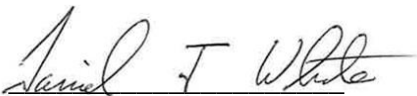
Kenneth G. Alberts  
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Alternate Project Manager and Experience Study Director



Daniel J. White, FSA, EA, MAAA  
Experience Study Director

10/23/2015

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## **SECTION C**

**INDEPENDENT ACTUARY'S STATEMENT FOR THE  
BOARD OF EDUCATION RETIREMENT SYSTEM OF  
THE CITY OF NEW YORK (BERS)**

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**Independent Actuary's Statement for the Board of Education Retirement System of the City of New York (BERS)**

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of the BERS.

GRS has completed the following:

- A Contribution Audit of the computed employer contributions for BERS for fiscal year 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Experience Studies for the 4-year and 10-year periods ending June 30, 2013 for BERS; and
- An Administrative Review of the data gathering and maintenance practices of the Office of the Actuary (OA) and BERS.

Based on the Contribution Audit, the Experience Studies, and the Administrative Review for BERS, GRS certifies that BERS is being funded in accordance with Standards of Practice prescribed by the Actuarial Standards Board and in conformity with applicable New York State and New York City Statutes. Assuming continued funding of BERS by the City/Obligors on the basis used in the June 30, 2012 (Lag) Actuarial Valuation, we believe the City's funding objective (that these statutorily required contributions, together with member contributions and assumed investment income will be sufficient to pay benefits when due) will be achieved.

**Employer Contribution Audit for Fiscal Year 2014**

GRS has performed an actuarial audit of the June 30, 2012 (Lag) Actuarial Valuation which develops the employer contributions for Fiscal Year 2014. This actuarial audit included:

- A review of actuarial methods and assumptions;
- A replication of the valuation (using GRS software) to verify the computations of Actuarial Value of Assets, Actuarial Liabilities and Employer Contributions; and
- A review of several test life cases to validate the programming and software used by the OA to perform the valuation.

GRS has concluded the following:

- Actuarial methods and assumptions adopted by the Board and used in the June 30, 2012 (Lag) Actuarial Valuation were reasonable, appropriate and in accordance with generally accepted actuarial standards of practice, including:
  - The use of the Entry Age Actuarial Cost Method;
  - The Actuarial Asset Valuation Method; and
  - The demographic and economic assumptions.



- The mathematical computations performed by the OA in the June 30, 2012 (Lag) Actuarial Valuation were appropriate and correct and GRS was able to independently replicate the computation of the employer contributions within 0.5%; and
- In GRS' review of test cases, GRS was able to confirm that the software used by the OA was generally programmed correctly and based on the methods and assumptions adopted by the Board, encoded in Statute or determined by the Actuary, as appropriate (any exceptions were minor, did not materially affect the results and were identified for the OA to review).

Additional details along with GRS' suggestions for improving the valuation can be found in our Actuarial Audit of Employer Contributions report for Fiscal Year 2014, dated October 23, 2015.

### **Administrative Review**

GRS has completed the Administrative Review, which included:

- A meeting with OA staff to discuss the data collection process and the benefit calculation/certification process;
- A meeting with BERS staff to discuss the data collection process and the benefit calculation/certification process; and
- A walk through BERS to review security measures taken to ensure the security of sensitive member data.

GRS has concluded the following:

- The data gathering process used by the OA produced data that was sufficiently accurate for use in the Actuarial Valuation and Experience Study;
- Transmission and storage of sensitive member data is done in a secure and appropriate manner; and
- Communications between the OA and BERS are on excellent terms and have fostered a cooperative and productive relationship.

Additional details along with GRS' suggestions for improving the data collection process can be found in our Administrative Review report dated October 9, 2015.

### **Experience Study**

GRS has completed the Experience Study for the 4-year and 10-year periods ending June 30, 2013. This process involved collecting the Experience Study database developed by the prior Independent Actuary, updating and maturing the data based on the valuation data used in the June 30, 2012 and June 30, 2013 actuarial valuations and comparing assumed experience to actual experience. Although the findings indicate that several assumptions differed from experience, GRS believes that:

- The economic assumptions used for the BERS valuation are reasonable and appropriate; and
- The demographic assumptions are reasonable and appropriate.

GRS recommends the OA consider changes in the following areas for future valuations:

- Reduce Investment Return Assumption
- Reduce rates of mortality and update the provision for future mortality improvement
- Salary Increase Assumption
  - No specific proposed change to general portion
  - Decrease the select period of the merit increase from 25 years to 10 years
  - Decrease the assumed merit increases from years 6 through 10
- Withdrawal: Increase assumed withdrawals
- Retirement: reflect delays in retirement as seen in data (and also nationwide)

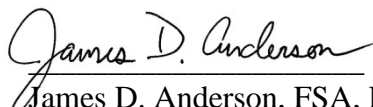
Additional details can be found in our Experience Study report dated October 23, 2015.

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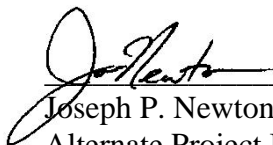
Respectfully Submitted,



Kenneth G. Alberts  
Project Manager and Contribution Audit Director



James D. Anderson, FSA, EA, MAAA  
Alternate Project Manager and Peer Review Actuary



Joseph P. Newton, FSA, EA, MAAA  
Alternate Project Manager and Experience Study Director



Daniel J. White, FSA, EA, MAAA  
Experience Study Director

10/23/2015

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**SECTION D**

INDEPENDENT ACTUARY'S STATEMENT FOR THE  
NEW YORK CITY POLICE PENSION FUND (POLICE)

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### **Independent Actuary's Statement for the New York City Police Pension Fund (POLICE)**

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of POLICE.

GRS has completed the following:

- A Contribution Audit of the computed employer contributions for POLICE for fiscal year 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Experience Studies for the 2-year and 10-year periods ending June 30, 2013 for POLICE; and
- An Administrative Review of the data gathering and maintenance practices of the Office of the Actuary (OA) and POLICE.

Based on the Contribution Audit, the Experience Studies, and the Administrative Review for POLICE, GRS certifies that POLICE is being funded in accordance with Standards of Practice prescribed by the Actuarial Standards Board and in conformity with applicable New York State and New York City Statutes. Assuming continued funding of POLICE by the City on the basis used in the June 30, 2012 (Lag) Actuarial Valuation, we believe the City's funding objective (that these statutorily required contributions, together with member contributions and assumed investment income will be sufficient to pay benefits when due) will be achieved.

#### **Employer Contribution Audit for Fiscal Year 2014**

GRS has performed an actuarial audit of the June 30, 2012 (Lag) Actuarial Valuation which develops the employer contributions for Fiscal Year 2014. This actuarial audit included:

- A review of actuarial methods and assumptions;
- A replication of the valuation (using GRS software) to verify the computations of Actuarial Value of Assets, Actuarial Liabilities and Employer Contributions; and
- A review of several test life cases to validate the programming and software used by the OA to perform the valuation.

GRS has concluded the following:

- Actuarial methods and assumptions adopted by the Board and used in the June 30, 2012 (Lag) Actuarial Valuation were reasonable, appropriate and in accordance with generally accepted actuarial standards of practice, including:
  - The use of the Entry Age Actuarial Cost Method;
  - The Actuarial Asset Valuation Method; and
  - The demographic and economic assumptions.

- The mathematical computations performed by the OA in the June 30, 2012 (Lag) Actuarial Valuation were appropriate and correct and GRS was able to independently replicate the computation of the employer contributions within 3%; and
- In GRS' review of test cases, GRS was able to confirm that the software used by the OA was generally programmed correctly and based on the methods and assumptions adopted by the Board, encoded in Statute or determined by the Actuary, as appropriate (any exceptions were minor, did not materially affect the results and were identified for the OA to review).

Additional details along with GRS' suggestions for improving the valuation can be found in our Actuarial Audit of Employer Contributions report for Fiscal Year 2014 dated October 23, 2015.

### **Administrative Review**

GRS has completed the Administrative Review, which included:

- A meeting with OA staff to discuss the data collection process and the benefit calculation/certification process;
- A meeting with POLICE staff to discuss the data collection process and the benefit calculation/certification process; and
- A walk through POLICE to review security measures taken to ensure the security of sensitive member data.

GRS has concluded the following:

- The data gathering process used by the OA produced data that was sufficiently accurate for use in the Actuarial Valuation and Experience Study;
- Transmission and storage of sensitive member data is done in a secure and appropriate manner; and
- Communications between the OA and POLICE are on excellent terms and have fostered a cooperative and productive relationship.

Additional details along with GRS' suggestions for improving the data collection process can be found in our Administrative Review report dated October 9, 2015.

### **Experience Study**

GRS has completed the Experience Study for the 4-year and 10-year periods ending June 30, 2013. This process involved collecting the Experience Study database developed by the prior Independent Actuary, updating and maturing the data based on the valuation data used in the June 30, 2012 and June 30, 2013 actuarial valuations and comparing assumed experience to actual experience. Although the findings indicate that several assumptions differed from experience, GRS believes that:

- The economic assumptions used for the POLICE valuation are reasonable and appropriate; and
- The demographic assumptions are reasonable and appropriate.

GRS recommends the OA consider changes in the following areas for future valuations:

- Reduce Investment Return Assumption
- Reduce rates of mortality and update the provision for future mortality improvement
- Salary Increase Assumption
  - Increase the merit portion of the assumption, especially for members with 5 or more years of service
  - Increase the dual overtime assumption to a constant 20% of pay
- Withdrawal: no change recommended at this time, but may need to reduce assumed rates of withdrawal in next experience study if trend in actual experience continues
- Disabilities: decrease rates of assumed disabilities for members eligible for WTC benefits

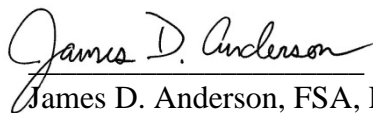
Additional details can be found in our Experience Study report dated October 23, 2015.

James D. Anderson, Joseph P. Newton and Daniel J. White are Members of the American Academy of Actuaries (M.A.A.A.) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

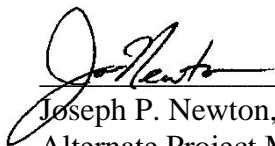
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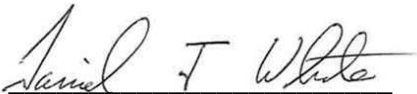
Kenneth G. Alberts  
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Joseph P. Newton, FSA, EA, MAAA  
Alternate Project Manager and Experience Study Director



Daniel J. White, FSA, EA, MAAA  
Experience Study Director

10/23/2015

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**SECTION E**

INDEPENDENT ACTUARY'S STATEMENT FOR THE  
NEW YORK FIRE DEPARTMENT PENSION FUND  
(FIRE)

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### **Independent Actuary's Statement for the New York Fire Department Pension Fund (FIRE)**

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of FIRE.

GRS has completed the following:

- A Contribution Audit of the computed employer contributions for FIRE for fiscal year 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Experience Studies for the 4-year and 10-year periods ending June 30, 2013 for FIRE; and
- An Administrative Review of the data gathering and maintenance practices of the Office of the Actuary (OA) and FIRE.

Based on the Contribution Audit, the Experience Studies, and the Administrative Review for FIRE, GRS certifies that FIRE is being funded in accordance with Standards of Practice prescribed by the Actuarial Standards Board and in conformity with applicable New York State and New York City Statutes. Assuming continued funding of FIRE by the City on the basis used in the June 30, 2012 (Lag) Actuarial Valuation, we believe the City's funding objective (that these statutorily required contributions, together with member contributions and assumed investment income will be sufficient to pay benefits when due) will be achieved.

#### **Employer Contribution Audit for Fiscal Year 2014**

GRS has performed an actuarial audit of the June 30, 2012 (Lag) Actuarial Valuation which develops the employer contributions for Fiscal Year 2014. This actuarial audit included:

- A review of actuarial methods and assumptions;
- A replication of the valuation (using GRS software) to verify the computations of Actuarial Value of Assets, Actuarial Liabilities and Employer Contributions; and
- A review of several test life cases to validate the programming and software used by the OA to perform the valuation.

GRS has concluded the following:

- Actuarial methods and assumptions adopted by the Board and used in the June 30, 2012 (Lag) Actuarial Valuation were reasonable, appropriate and in accordance with generally accepted actuarial standards of practice, including:
  - The use of the Entry Age Actuarial Cost Method;
  - The Actuarial Asset Valuation Method; and
  - The demographic and economic assumptions.



- The mathematical computations performed by the OA in the June 30, 2012 (Lag) Actuarial Valuation were appropriate and correct and GRS was able to independently replicate the computation of the employer contributions within 0.75%; and
- In GRS' review of test cases, GRS was able to confirm that the software used by the OA was generally programmed correctly and based on the methods and assumptions adopted by the Board, encoded in Statute or determined by the Actuary as appropriate (any exceptions were minor, did not materially affect the results and were identified for the OA to review).

Additional details along with GRS' suggestions for improving the valuation can be found in our Actuarial Audit of Employer Contributions report for Fiscal Year 2014 dated October 23, 2015.

### **Administrative Review**

GRS has completed the Administrative Review, which included:

- A meeting with OA staff to discuss the data collection process and the benefit calculation/certification process;
- A meeting with FIRE staff to discuss the data collection process and the benefit calculation/certification process; and
- A walk through FIRE to review security measures taken to ensure the security of sensitive member data.

GRS has concluded the following:

- The data gathering process used by the OA produced data that was sufficiently accurate for use in the Actuarial Valuation and Experience Study;
- Transmission and storage of sensitive member data is done in a secure and appropriate manner; and
- Communications between the OA and FIRE are on excellent terms and have fostered a cooperative and productive relationship.

Additional details along with GRS' suggestions for improving the data collection process can be found in our Administrative Review report dated October 9, 2015.

### **Experience Study**

GRS has completed the Experience Study for the 2-year and 10-year periods ending June 30, 2013. This process involved collecting the Experience Study database developed by the prior Independent Actuary, updating and maturing the data based on the valuation data used in the June 30, 2012 and June 30, 2013 actuarial valuations and comparing assumed experience to actual experience. Although the findings indicate that several assumptions differed from experience, GRS believes that:

- The economic assumptions used for the FIRE valuation are reasonable and appropriate; and
- The demographic assumptions are reasonable and appropriate.

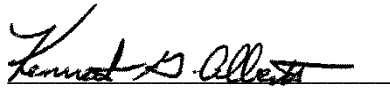
GRS recommends the OA consider changes in the following areas for future valuations:

- Reduce Investment Return Assumption
- Reduce rates of mortality and update the provision for future mortality improvement
- Salary Increase Assumption
  - Increase the merit portion of the assumption, especially for members with 5 or more years of service
  - Increase the dual overtime assumption to a constant 22% of pay
- Disabilities: decrease rates of assumed disabilities for members eligible for WTC benefits

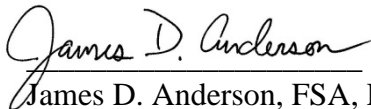
Additional details can be found in our Experience Study report dated October 23, 2015.

James D. Anderson, Joseph P. Newton and Daniel J. White are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

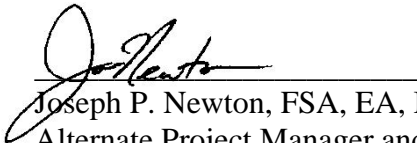
Respectfully Submitted,



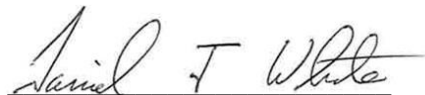
Kenneth G. Alberts  
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James D. Anderson, FSA, EA, MAAA  
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Joseph P. Newton, FSA, EA, MAAA  
Alternate Project Manager and Experience Study Director



Daniel J. White, FSA, EA, MAAA  
Experience Study Director

10/23/2015

**NEW YORK CITY RETIREMENT SYSTEMS**  
ACTUARIAL AUDIT AND RELATED REVIEW SERVICES  
ADMINISTRATIVE REVIEW REPORT  
OF ACTUARIAL DATA GATHERING PROCESS  
OCTOBER 2015

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## List of Abbreviations

ABS	Annual Benefit Statements
Actuary	A person who is trained in the applications of probability and compound interest to solve problems in business and finance that involve payment of money in the future, contingent upon the occurrence of certain future events
Actuary	Mr. Robert C. North, Jr.
ADS	Annual Disclosure Statement
ASOP	Actuarial Standards of Practice
BERS	Board of Education Retirement System of the City of New York
BOE/DOE	Board of Education/Department of Education
BTDS	Bureau of Technology Development and Systems
CAFR	Comprehensive Annual Financial Report
CD-ROM	Compact Disk-Read Only Memory
CHARMS	City Human Resources Management System
COPS	Comprehensive Officer Pension System
CPMS	Comprehensive Pension Management System
CSD	Certification Services Division
CUNY	City University of New York
DoITT	Department of Information Technology and Telecommunications
DROP	Deferred Retirement Option Plan
EPIS	Employee Payroll Information Systems
FISA	Financial Information Service Agency
FDNY	New York Fire Department
FIRE	New York Fire Department Pension Fund
FTP	File Transfer Protocol
GRM	Government Records Management
GRS	Gabriel, Roeder, Smith & Company
HHC	Health and Hospitals Corporation
ITHP	Increased Take-Home Pay
NYCRS	New York City Retirement Systems (NYCERS, TRS, BERS, POLICE, and FIRE, collectively)
NYCERS	New York City Employees' Retirement System

**List of Abbreviations (Concluded)**

OA	Office of the Actuary
OLR	Office of Labor Relations
OPA	Office of Payroll Administration
OPEB	Other Post-Employment Benefits
OSC	Office of the State Comptroller
PD	Payroll/Police Department
PDF	Portable Document Format
PMS	Payroll Management System
PO/BO file	Pensioner-Only/Beneficiary-Only File
POLICE	New York City Police Pension Fund
PPMS	Pension Payroll Management System
PROD	Pension Administration System used by NYCERS
ProVal	The current actuarial software used by the OA
Prudential	Prudential Financial, Inc.
QDRO	Qualified Domestic Relations Order
SCA	School Construction Authority
SFTP	Secure File Transfer Protocol
TDA	Tax Deferred Annuity
TRS	Teachers' Retirement System of the City of New York
UPS	Unified Pension System
VPN	Virtual Private Network
VSF	Variable Supplements Fund
VTL	Virtual Tape Library
WTC	World Trade Center

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## **SECTION A**

### **EXECUTIVE SUMMARY AND PROCESS OVERVIEW**

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## EXECUTIVE SUMMARY

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### Background

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of the following five actuarial pension funds (collectively NYCRS or the Systems):

- New York City Employees' Retirement System (NYCERS)
- Teachers' Retirement System of the City of New York (TRS)
- Board of Education Retirement System of the City of New York (BERS)
- New York City Police Pension Fund (POLICE)
- New York Fire Department Pension Fund (FIRE)

GRS was engaged to conduct two consecutive biennial actuarial engagements, encompassing the following:

- Biennial Contribution Audits of the computed employer contributions for each System in NYCRS for fiscal years 2012 and 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Biennial Experience Studies for the periods ending June 30, 2011 and June 30, 2013, for each System in NYCRS;
- Two Administrative Reviews of the data gathering and maintenance practices of the Office of the Actuary (OA) and each System in NYCRS (one review corresponding with each Contribution Audit); and
- Two Independent Actuarial Statements (one for each engagement); GRS, as the independent actuarial auditor, will submit a statement that will briefly describe the scope of the entire engagement, will review the entire engagement and comment on the financial condition and financing progress and policies of each System, and certify that the Systems are being funded on a sound actuarial, financial, and legal basis.

This report constitutes the deliverable with respect to the **Administrative Review** for the Second Engagement. The purpose of this report is to:

- Review the process of data gathering used in the annual actuarial valuations;
- Review the process of data gathering and transmission of results of benefit calculations/certifications that the OA performs for each of the Systems;
- Review the communications between the OA and each of the Systems related to the above items;
- Review the security of member data that is either stored by the Systems and the OA or transmitted between the Systems and the OA; and
- Make recommendations that improve the data collection process, the annual valuation process, and/or improve the security of member data related to storage and/or transmissions by the Systems and the OA.



Our investigation should be considered a Review and not an Audit of administrative procedures. An audit would require more in-depth and detailed exploration of procedures.

The Actuarial Contribution Audit provides an independent verification of the computation of employer pension contributions – including the methodologies used therein and their conformity to laws and generally accepted actuarial principles. The Experience Studies review and comment on the continued appropriateness of the actuarial assumptions used in the computations of employer contributions and identify areas where assumptions may be improved. The Administrative Review evaluates the actuarial data gathering process to ensure that the data collection methods produce sufficiently accurate data for valuation and Experience Study purposes. Thus the three components of the assignment provide assurance that:

- Assets and liabilities are calculated accurately, using appropriate actuarial assumptions and methods, and are based on sufficient and accurate census data; and
- Employer contribution amounts are computed in conformity with all applicable financial, actuarial and statutory requirements.

### **General Comments**

In the course of the Administrative Review, we studied the procedures used by the OA and the Systems for collecting, validating, editing, maintaining and transmitting data for the actuarial valuations, as well as the Systems' disaster recovery plans. In addition, we evaluated the progress made by the OA and the Systems in implementing recommendations from the prior Administrative Reviews.

It was clear to us during the course of the Administrative Review that all Systems, as well as the OA, have made improvements in procedures and technology and are much more advanced and proficient in data collection and storage since the last audit performed by GRS (approximately 10 years ago). However, since the data collection and storage process is technology based and technology is constantly advancing, there are always additional enhancements that can be made. The recommendations contained in this report center on communications and data elements. While communications between the OA and the Systems appear to be on excellent terms and well-tuned, some of the Systems' staff do not seem to have a clear understanding of how the OA's valuation work directly benefits them and their members (although they see great benefit and value to the Systems in the other work that the OA performs, such as the benefit certifications). In addition, communications between each of the Systems occur on an as needed basis (even though communications between each System and the OA occur more often). We believe regular communications between each of the Systems will greatly enhance the efficiency and security of operations at each System. At the same time the OA should build upon the flow of information between the OA and each of the Systems. For example, more education from the OA about how the valuations and computation of the computed employer contributions benefit the Systems might provide staff with additional incentive in ensuring that the OA has all of the data items needed to better analyze certain aspects of the Systems, such as liabilities associated with part-time members in BERS and service buy-back in all the Systems.

**GRS has concluded that the data used by the OA to determine employer pension contributions and develop actuarial assumptions was sufficient and accurate for those purposes.**

This report is divided into the following sections:

<b>Section A</b>	Executive Summary and Process Overview
<b>Section B</b>	Administrative Review Process
<b>Section C</b>	Recommendations
<b>Section D</b>	Implementation Review
<b>Appendix 1</b>	Findings by Entity (OA and Each System)
<b>Appendix 2</b>	Sample Employee Record Analysis

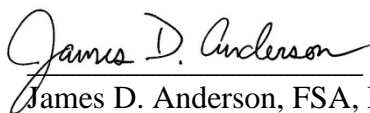
We would like to thank the OA and the staff of each of the Systems for hosting our visits, supplying the information on which this study was based and reviewing initial drafts. This report could not have been completed without their assistance. They all were accommodating, informative and helpful.

James D. Anderson is a Member of the American Academy of Actuaries (MAAA) and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully Submitted,



Kenneth G. Alberts  
Project Manager and Contribution Audit Director



James D. Anderson, FSA, EA, MAAA  
Alternate Project Manager and Peer Review Actuary

10/9/2015

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## **SECTION B**

### **ADMINISTRATIVE REVIEW PROCESS**

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## **ADMINISTRATIVE REVIEW PROCESS**

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### **Overview**

Our primary focus in conducting the Administrative Review was to review administrative procedures used to collect, validate, edit, maintain and transmit data used for the actuarial valuations. Data that is edited for valuation purposes is also used along with edited data from prior years to develop actuarial assumptions in the Experience Study analysis. Thus, by commenting on the integrity of data used for valuation purposes, we are in effect also commenting on the integrity of data used for Experience Study purposes.

In evaluating administrative procedures for data we used two criteria: (1) whether data provided was sufficiently accurate; and (2) whether procedures used were efficient. In analyzing procedures, we brought to bear our knowledge of practices with other public plans, as well as the structure and governance of the OA and the New York City Retirement Systems.

### **First Engagement**

To gain knowledge of current procedures, we studied documents provided by the OA that described the data procedures used by the OA for updating the data used for performing the actuarial valuation for each System. This detailed documentation included data flow, record layouts, target timelines, edit checks conducted by the OA and the estimation of certain data items by the OA that the Systems are unable to provide. We also reviewed prior auditors' Administrative Review Reports, paying special attention to recommendations made by the auditors.

We next met with the OA as well as each of the five Systems. The objective of the meetings was to track the evolution of the procedures used by the OA and the Systems and to identify emerging issues. We wanted to determine whether the procedures used were consistent with current technology and current needs. Review of the Systems' security and disaster recovery procedures was especially important in this Administrative Review. We also used the meetings to determine the status of implementation of recommendations made by prior auditors. The meetings with the OA and the Systems were done independently (neither was present at the others' meetings). One of the objectives of having independent meetings was to determine the consistency of the information that was provided to us during the meetings. In addition, we believe this gave all parties the opportunity to provide candid and independent responses to our questions.

Prior to each meeting we developed and sent out a detailed list of questions and issues to be discussed at the meeting. The questions covered the following five broad topics: Data Process for Valuation Data, Data Process for Benefit Calculations, Review of Prior Administrative Review, Involvement of outside Vendors with Data, Data Security and Recovery. We also asked about documentation, manuals, and staff member training opportunities at each System. Submitting our questions prior to our meeting allowed for the best use of time at the 3 to 4 hour meetings.

## **Second Engagement**

Due to the short time between the First and Second Engagement, our process for the Second Engagement involved a visit with each of the Systems and the OA to:

1. determine which items identified in the First Engagement were still relevant;
2. determine if any additional items should be added to the report; and
3. review select individual member data used in the June 30, 2012 Actuarial Valuation.

## **Detail of Process**

The Administrative Review began with a meeting in April, 2013 at the OA. During this meeting GRS first met with the Valuation Services Division (VSD) and discussed the process of collecting the valuation data. The overall process was described followed by a specific discussion for each System. Upon completion of the valuation data discussion, GRS met with the OA's benefit Certification Services Division (CSD) to discuss the benefit calculation/certification process and the related transmissions between the Systems and the OA of requests and results.

**The agenda for that meeting is shown below:**

### **Administrative Review – Discussion with the OA**

- I. Overview of OA Mission, Organizational Structure, Staffing, Reporting Relationships, Clients, Work Process
  - a. OA repeating tasks (Pension valuations, OPEB valuations, benefit calculations, etc.)
  - b. OA non-repeating tasks
  - c. Reports published by the OA
  - d. OA priorities
  - e. Current special projects (i.e., systems upgrade, conversion to PROVAL, etc.)

The following for each System

- II. Data Process for Valuation Data
  - a. Where does OA get the data
  - b. How does OA get the data
  - c. What independent checks are performed to ensure the data is complete (auditing)
  - d. What editing is performed to ensure data is correct
  - e. What business rules are performed
  - f. What happens to records that are determined to be doubtful/defective
  - g. How are records tracked from year-to-year
  - h. How many parties/agencies (not individuals) are directly or indirectly involved in the process (i.e., OA, FIRE, Payroll, etc.)
  - i. How long does the data processing typically take
  - j. Documentation from kick-off meeting with System
  - k. Documentation on process

- III. Data Process for Benefit Calculations
  - a. Where does data come from
  - b. Is data compared to valuation data
  - c. What checks are performed to ensure accuracy of data (if any)
  - d. How are results communicated to the System
  - e. Sample calculations (including 415 testing)
  
- IV. Review of Prior Administrative Review
  - a. Suggestions that have been implemented
  - b. Suggestions that have not been implemented
  - c. Suggestions that have been rejected
  
- V. Involvement of Outside Vendors with Data
  - a. How many outside vendors receive data
  - b. How is it transmitted
  - c. How long do vendors keep the data
  - d. What security reviews are performed with these vendors
  
- VI. Data Security and Recovery
  - a. How is data kept secure during transmission, working, storage
  - b. What security tests are performed
  - c. What are the back-up procedures
  - d. What are the off-location storage procedures
  - e. What testing is routinely performed (restoration from back-up; attempted security breaches; disaster recovery of data and of operations (i.e., if the office is shut down, can work continue remotely)
  
- VII. Documentation or Manuals regarding any of the above
  
- VIII. Problems faced by the OA on any of the above, Wish List, and Plans for the Future

In January 2014, GRS met with each of the Systems. The agenda for those meetings is shown below (each meeting followed the same agenda). During each meeting GRS had member data for a select group of members valued in the June 30, 2010 valuation. The Systems then looked up those members in their databases to compare the data elements for each member. In addition, GRS also took a tour of the Systems' facilities with a focus on member information security.

## **NYCRS Administrative Review – Discussion with the Systems**

### **I. Data Process for Valuation Data**

- a. Where does data come from, and how is it entered into System databases
- b. How is data transferred and who is it transferred to
- c. What independent checks are performed to ensure the data is complete (auditing, year-to-year reconciliation, independent sources of information)
- d. What editing is performed to ensure data is correct
- e. What business rules are performed and when are they performed (i.e., when database is entered or after receiving feedback from OA, etc.)
- f. What happens to records that are determined to be doubtful/defective, and how/when are data issues resolved
- g. How are records tracked from year-to-year
- h. How many parties/agencies (not individuals) are directly or indirectly involved in the process (i.e., OA, City department, Payroll, etc.)
- i. How long does the data processing typically take
- j. Is documentation from kick-off meeting with OA sufficient and understandable
- k. Describe on-going communication protocols with OA
- l. What process documentation exists
- m. Wish list – items or issues the System would like to see changed or improved (if any)

### **II. Data Process for Benefit Calculations**

- a. Describe benefit application/benefit calculation request process
- b. How is data transferred to OA for calculation requests
- c. What checks are performed to ensure accuracy of data (if any)
- d. How long does it take to get from member initiation of retirement process to benefit finalization
- e. How are results communicated
- f. How is benefit calculation process documented
- g. What calculations are performed internally versus externally (by OA)

### **III. Review of Prior Administrative Review**

- a. Suggestions that have been implemented
- b. Suggestions that have not been implemented
- c. Suggestions that have been rejected

- IV. Involvement of Outside Vendors with Data
  - a. How many outside vendors receive data
  - b. How is it transmitted
  - c. How long do vendors keep the data
  - d. What security reviews are performed with these vendors
  
- V. Data Security and Recovery
  - a. How is data kept secure during transmission, working, storage
  - b. What security tests are performed
  - c. What are the back-up procedures
  - d. What are the off-location storage procedures
  - e. What testing is routinely performed -- restoration from back-up; attempted security breaches; disaster recovery of data and of operations (i.e., if the office is shut down, can work continue remotely)
  
- VI. Documentation or Manuals regarding any of the above
  
- VII. Staff Member Training, use of Updated Technology
  
- VIII. Sample Employee Record Analysis: Active, Retiree and Terminated Vested Demographic Data
  - Include a sample record of a retiree whose benefit had not been finalized at 6/30/2010
  - Record-keeping of VSF and VSF-DROP recipients/payments (if applicable)

### **Second Engagement Update**

In January 2015, GRS met with each of the Systems and in March 2015 GRS met with the OA. The agenda for those meetings centered on discussion of the First Engagement Report (item by item). During each meeting GRS brought member data (System meetings only) for a select group of members valued in the June 30, 2012 valuation. The Systems then looked up those members in their databases to compare the data elements for each member.

The balance of this report is primarily from the First Engagement with sections updated from the System and OA visits during the Second Engagement.



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## **SECTION C**

### **RECOMMENDATIONS**

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## **RECOMMENDATIONS**

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Below is a summary of the recommendations contained in this report along with a discussion of the rationale behind the recommendations:

### **RECOMMENDATIONS – COMPTROLLER**

#### **1. Explore whether or not there are more efficient approaches to the Administrative Review**

Each of the Systems undergoes several audits each year. One common theme we heard in our visits was that the Systems were constantly dealing with various audits throughout the year (some of the Systems were hosting other auditors during our visits). We understand that the audits performed on the Systems include:

- Audits of investments and transactions by Systems' outside auditors;
- Audits of investments and transactions by the City;
- Audits of investments and transactions by the State;
- Security Audits by Systems' internal and external security experts; and
- Actuarial Audit that includes this Administrative Review.

The Administrative Review contains a review of data used in the actuarial valuation and a review of the security of the Systems' data storage and data transmission. Outside auditors routinely perform data reviews to ensure that the liabilities reported in the Comprehensive Annual Financial Report (CAFR) are based on the appropriate member data.

The main advantage to the independent actuarial auditor of the Administrative Review is the verification that the valuation data and experience study data is reasonably accurate and complete. There are a number of ways in which the independent actuarial auditor can gather that information in lieu of the current Administrative Review, including:

- Receiving member data from the Systems and comparing it to the data used by the OA for the valuation (the most common process in actuarial audits);
- Requesting sample data from the Systems and comparing it to the data used by the OA for the valuation; and
- Collecting member data (in sample form or complete form) from other sources, such as the City, the Systems' auditors, or the City's auditors.

We therefore recommend that the Comptroller explore whether or not a more efficient approach to the Administrative Review is practical. Such approaches might include:

- Combining the Administrative Review with one of the other audits, thereby reducing some of the duplicative work and the burden on the Systems;
- Seeking alternative ways to determine the completeness and accuracy of the valuation data.

## **2. Consider separating the Contribution Audits from the Experience Study**

The Contribution Audits serves to provide the Systems and the City with an independent review of the actuarial valuation. We commend this function and recommend that it be continued. Since this is a service that benefits the City and all of the Systems, we agree that it makes sense that the service be combined for all of the Systems in a single contract and handled by the Comptroller's Office. However, we recommend consideration of separating the Experience Study from the Contribution Audits (we understand this may require law changes). Since the purpose of the Experience Study is to establish assumptions for use in the actuarial valuation by the OA, we believe that it is best if those studies use the same software that is used for the annual valuations at that time. Each valuation system has slight variations on how probabilities are applied. These can include the manner in which ages are rounded, how the probabilities are drawn from the age based tables, how service is rounded to be used to draw a service based probability, how the salary increase timing and decrement timings affect calculations, etc. While most valuation systems can be modified to replicate other systems, it is a more efficient process to use the same system and then start with the actual valuation files, thereby reducing the possibility that technical issues are treated differently between the Experience Study and the Annual Valuation.

Some valuation systems maintain their own databases for use in the experience study module (such as ProVal). This could eliminate the need for the actuarial auditor to maintain a separate experience study database and possibly reduce the work involved in maturing the data. In turn, this would reduce the cost of producing the Experience Study. In addition, this gives the Actuarial Auditor the ability to put more focus on performing an independent review of assumptions and the development of contributions. With the Contribution Audits split from the Experience Study, the Independent Actuarial Auditor could still use different software than the OA to perform the Contribution Audit. This would continue to provide independent verification of the software used in the annual valuation by the OA.

Splitting of these services could be done in different manners. One possibility is that the OA performs all aspects of the Experience Study (either directly or through a vendor hired by the OA) and the Independent Actuarial Auditor performs a review of the Experience Study results as part of the Actuarial Audit of Employer Contributions.

### **RECOMMENDATIONS – OA**

#### **1. Continue annual kick-off meetings and data requests**

The OA has developed an excellent rapport with the Systems through the meetings and data requests. All of the Systems indicated that communications were on excellent terms and they had a full understanding of the data items requested by the OA. We commend the OA for the development and implementation of this process and recommend its continued use.

## **2. Provide educational presentations to System Staff**

It was clear that communications between the OA and the Systems were on excellent terms and the OA is to be commended for the effort that they have made to create a process that is open, clear and cooperative. However, it was also clear that not all of the Systems' staff view the valuation as a service provided to them. Rather they view the valuation as a service provided to the City/Comptroller that requires their participation. We believe that if the Staff were educated on the value of the actuarial valuations (and resulting funding) to the Systems, then the Staff may be more invested in ensuring that the OA has all of the information it needs to provide the best possible valuation results. We therefore recommend that the OA build upon the excellent communications process it has with the Systems' Staff to let them know that the Systems are the OA's principals for the valuation and the importance of the data in the accuracy of the results. This could be done as part of the annual valuation kick-off meeting or during one of the routine follow-up meetings. Educational information should also include general topics, such as how the recent Federal Bankruptcy Court decision that indicated i) federal bankruptcy laws supersede state constitutions and ii) accrued pension benefits can be reduced in municipal bankruptcy regardless of any state constitutional protections, may (or may not) affect the administration and funding of public pension plans across the country.

### **Second Engagement Update**

This recommendation was discussed with Staff at each of the Systems during the Second Engagement. NYCERS, BERS and FIRE indicated that they would be open to the additional meetings and thought they might be of value. TRS indicated that the OA has done this for TRS Staff and the Charter Schools' Staff in the past. They indicated that it was of great value for the Charter Schools Staff to hear. However, they felt that current TRS Staff was well enough educated on the process and that additional meetings would yield little additional knowledge. POLICE felt that the current regular kick-off meetings were sufficient and were targeted at the narrow group of Staff members that would benefit from such education.

The OA strongly disagrees with this recommendation, suggesting that perhaps the Executive Directors could educate System Staff, while noting that the OA works hand in hand with each System. When asked to define the relationship between the OA and the Systems, the OA described the relationship as "co-dependent" since the Systems need certain things from the OA and the OA needs certain things from the Systems. The OA also noted "competing priorities" for its own Staff and time.

## **3. Fill key open positions at OA**

The OA has several key positions open including the Chief Actuary (we understand the filling of this position is in progress), First Deputy Chief Actuary, one Deputy Chief Actuary and one Assistant Deputy Chief Actuary. We recommend these positions be filled as soon as possible. This will (eventually) alleviate some of the workflow burden on existing staff and reduce some of the deadline stress the OA now faces (or enable

more service to be provided). In addition, filling these positions may enable the OA to implement succession planning for the key staff nearing retirement.

### **Second Engagement Update**

During the end of the First Engagement the Chief Actuary (Mr. Robert C. North) retired. While arrangements were made for Mr. North to assist remotely during the transition period, his retirement further highlights the need for filling key open positions.

#### **4. Produce full valuation reports for NYCERS, TRS, and BERS**

Current Actuarial Standards of Practice Statement No. 41 states, in part:

*3.2 Actuarial Report—The actuary should complete an actuarial report if the actuary intends the actuarial findings to be relied upon by any intended user. The actuary should consider the needs of the intended user in communicating the actuarial findings in the actuarial report.*

*An actuarial report may comprise one or several documents. The report may be in several different formats (such as formal documents produced on word processing, presentation or publishing software, e-mail, paper, or web sites). Where an actuarial report for a specific intended user comprises multiple documents, the actuary should communicate which documents comprise the report.*

*In the actuarial report, the actuary should state the actuarial findings, and identify the methods, procedures, assumptions, and data used by the actuary with sufficient clarity that another actuary qualified in the same practice area could make an objective appraisal of the reasonableness of the actuary's work as presented in the actuarial report.*

The OA does not currently produce formal valuation reports for NYCERS, TRS or BERS. However, the OA has indicated that it produces several different actuarial reports for several different purposes for each of the Systems (such as the appropriations letters, the CAFR letters and the Annual Statement filings to the New York State Department of Financial Services), which satisfy this ASOP requirement, even though none is truly a formal valuation report.

Despite producing the various reports, we believe there are still advantages to producing a formal valuation report, such as: memorializing valuation results; providing complete valuation results in one document that can be used by all stakeholders; providing a single document with valuation results for purposes of the actuarial audit, etc. Currently full/formal valuation reports are only produced for POLICE and FIRE. We recommend that the OA produce full/formal valuation reports for NYCERS, TRS, and BERS.

### **Second Engagement Update**

The OA noted that currently, there is no plan to produce formal reports for NYCERS, TRS and BERS.

#### **5. Work with BERS to obtain better credited service information**

The OA does not feel that the credited service currently reported by BERS is representative of actual credited service. In addition, they believe BERS is unable to provide them with adequate information regarding part-time employees (including hourly rate of pay, number of hours that defines full-time status for the current position, portion of full-time status currently working, etc.). We understand that the DOE actually tracks credited service very well and BERS gets the credited service from the DOE when they perform a benefit calculation. However, it was less clear if the DOE had all the necessary information the OA needs to project liabilities for part-time members going forward. Since BERS is in the process of upgrading its database, we think this is a perfect time for the OA to continuing working with BERS to improve the reporting of credited service for valuation purposes. We therefore recommend that BERS, the OA and the DOE continue to work together to see if sufficient information on part-time BERS members can be provided for annual valuations.

### **Second Engagement Update**

The OA has continued to work with BERS on this issue and we understand from BERS that they sent the OA test files. However, during the meeting with the OA, we understand that the OA did not receive any test files from BERS. We have sent follow-up emails to BERS and the OA (jointly) to get clarification on this issue. Both BERS and the OA continue to work toward improving the reported data.

#### **6. Work with NYCERS to determine if the OA can use the service information NYCERS collects for potential service purchases**

The OA has stated that it has an interest in improving the valuation regarding service that has been purchased and service that may be potentially purchased. NYCERS has indicated that they have some information that may assist the OA in developing a service purchase assumption. We recommend that the OA work with NYCERS to determine if this information can be useful to the OA for developing a service purchase assumption or possibly estimating a liability for future service purchases.

### **Second Engagement Update**

We understand that the OA is working with NYCERS to determine whether the data that NYCERS collects for potential service purchases would be useful in establishing/refining service purchase assumptions. From our meeting with the OA, we understand that NYCERS has legal authority to maintain this data.

## **Second Engagement Recommendations**

### **7. Perform all of Portions of Experience Study Internally**

The current experience study process includes a requirement for the auditing actuary to update a previously created Microsoft Access database with new valuation data, to mature the data, and then to create the analysis tables for the experience study. This process has been in place for several experience study cycles. We find this process to be inefficient, create a less dependable product, and to be more expensive than alternative processes. In the past, one impediment to having the OA perform these tasks was the large additional work-flow burden. However, now that the OA has moved to using ProVal, this burden may be sufficiently reduced to justify the additional work.

We therefore recommend the reconciliation and maturation process be managed either by the OA directly or by their actuarial consultants (currently Buck). ProVal has a robust experience study module that minimizes the steps from reconciling data for the annual valuation process to having analysis exhibits for use in an experience study. In addition, by allowing the valuation system to perform the analysis, there would be certainty that all members were being counted in a manner consistent with the manner they are valued in the regular annual valuation (member group, age, service, application of decrements, etc.)

If future processes included an auditing actuary performing an experience study, then the auditing actuary could receive the experience study exhibits from the OA and perform their analysis and make recommendations.

An alternative process all together would be for the OA to perform the experience study, including the initial recommendations, and have the auditing actuary review the study (opine on the reasonableness and appropriateness of the recommendations).

### **8. Prepare for the contribution audit while performing the regular valuation**

During the First Engagement, submission of test lives were delayed as a result of the change of valuation software to ProVal and the test live process under the new software was a new process for the OA. However, for the Second Engagement the submission of test life information appeared to be no less burdensome on the OA, despite the fact that the software had been in place for 2 valuation cycles. We recommend that the OA develop a representative sample of cases from most benefit groups and routinely run test life information so that it is readily available for the contribution audit. While some actuarial auditors will make additional test life requests, we believe a standard set that represents a sample of most benefit groups will satisfy most of the actuarial auditors' needs and add a great deal of efficiency to the actuarial auditing process.

**9. CSD should explore whether using the FTP site will increase efficiency in processing benefit calculations**

During the Second Engagement, the CSD was asked about their use of the FTP site as a way to correspond electronically with the Systems (for those Systems which the CSD does not have direct access into computer systems). The CSD indicated that they were not using the FTP site and seemed unaware that the VSD was using FTP to transmit data. We recommend that the CSD investigate the use of the OA's FTP site as a way to replace hard copy transmission of information for those Systems that they are still communicating with through messenger service.

**10. CSD should reconsider batch processing of recalculations due to contract settlements**

Given the volume of recalculations that the Systems and the OA will incur due to the contract settlements, we recommend that the OA utilize a reasonable method to expedite processing of these calculations so long as accuracy is not compromised.

**RECOMMENDATIONS – NYCERS**

**1. Share information about the NYCERS paperless office, security, disaster recovery and business continuity programs with the other Systems**

NYCERS is further developed in many of these areas than some of the other Systems and we commend NYCERS for the development of these programs. The sharing of program ideas will benefit the other Systems as they work to improve their programs. We understand that disaster recovery is regularly tested and that NYCERS can make a full recovery in 3 hours or less and become production ready in 4 hours or less. We commend NYCERS for this impressive program.

**Second Engagement Update**

**We understand that BERS and POLICE have recently reached out to NYCERS to review their paperless office program and that NYCERS shares this information upon request of the other Systems.**

**2. Reach out to TRS to learn about its employee security education program**

TRS appears to be more advanced in educating its employees on security issues than the other Systems. We believe this is a good program and that the other Systems could benefit from developing similar programs. The program is designed to educate System employees that they are the first defense in maintaining security. We agree.



### **3. Involve the OA in the development of the new data management system**

Data collection is critical to the valuation process. The most efficient process for the annual valuation data collection would be for NYCERS to be the single source of all of the OA's data needs although we understand that this may not be practical. Toward that end, we recommend that NYCERS involve the OA as they develop its new systems to ensure that they are able to easily provide the OA with all the data the OA needs for the annual valuation.

#### **Second Engagement Update**

We understand that NYCERS is involving the OA in this development to ensure that the new system will meet the data needs of the OA.

### **4. Work with OA and data management to become the single source of data**

We concur with the prior actuarial auditor that NYCERS should be the single source of data while noting there may be barriers to achieving that goal. Since NYCERS actually performs the benefit calculations (as well as estimates on the annual benefit statements), they should be in possession of all the data necessary to perform the annual valuations. In addition, they routinely go through a data verification process. By using the data from NYCERS, the OA should be able to obtain clean data that reliably contains all the elements necessary to perform the annual valuations. Using NYCERS as the single source of data will also be a more efficient use of the OA's time and resources. We recognize that this is an ideal recommendation and that there may be practical limitations that prevent the implementation of this recommendation. It should also be noted that we are not recommending that the OA cease collecting information from other sources for purposes of cross-checking data received from NYCERS (or any of the other Systems).

### **5. Share service purchase information with the OA and work with the OA to determine if this information would be useful to the OA in the development of a service purchase assumption or estimation of potential service purchase liabilities**

The OA has stated that it has an interest in improving the valuation regarding service that has been purchased and service that may be potentially purchased. NYCERS has indicated that they have some information that may assist the OA in developing a service purchase assumption. We recommend that NYCERS work with the OA to determine if this information can be useful to the OA for developing a service purchase assumption or possibly estimating a liability for future service purchases.

### **6. Supply the Increased Take-Home Pay (ITHP) and required employee contributions to the OA**

We agree with the prior actuarial auditor that NYCERS should supply this information. We understand that this is in progress as part of the computer upgrade for FY2017.

## **RECOMMENDATIONS – TRS**

### **1. Share information about employees security education/training with other Systems**

TRS had the most evolved employee education (regarding security) of all the Systems. We commend this program and believe that the other Systems could benefit from implementation of similar programs. We recommend that TRS share information regarding this program with the other Systems.

#### **Second Engagement Update**

We understand that BERS reached out to TRS about the Business Continuity program. In general, TRS shares its information with the other Systems, when requested.

### **2. Reach out to NYCERS to gather information on its paperless system/process**

NYCERS appears to be the most advanced in the move to a paperless environment. TRS is moving in that direction. We recommend that TRS reach out to NYCERS to learn about its paperless system as TRS refines its own system. Since NYCERS is farther along in the process, TRS may glean some valuable information from NYCERS experiences.

### **3. Review process of storing boxes of information waiting for transportation to offsite facilities**

TRS has several policies related to security, including a clean desk policy. The concept behind the clean desk policy is that material that contains sensitive member information be locked up overnight, every night – even if a case file is still in process. This way the information is not exposed on someone’s desk when the office is generally empty (or near empty). However, TRS stores boxes of sensitive information in stacks on the floor while the boxes await transportation to offsite storage. We understand these boxes could wait for 2-3 weeks before being transported. This policy would seem to counter any additional security achieved from the clean desk policy. We recommend this policy be reviewed and revised, as appropriate.

#### **Second Engagement Update**

We understand the TRS has put in an effort to send the boxes to the offsite storage location more quickly.

### **4. Some active member data, such as from CUNY and Charter Schools, are entered into the TRS database manually. TRS should explore secure electronic methods of receiving this data and entering it into the TRS database.**

We understand this is in progress and recommend continuing to implement this prior recommendation. See implementation review for additional information on current status.

### **Second Engagement Update**

In January 2015 we learned that this is part of the TRS modernization project (or modernization roadmap) and it has been resolved with regard to the Charter Schools.

- 5. TRS provided on-line benefit certification capability to the OA, but this is not utilized in all cases. TRS and the OA should work on extending this efficient procedure to all benefit certifications.**

We understand this is in progress and recommend continuing to implement this prior recommendation. See implementation review for additional information on current status.

### **Second Engagement Update**

This issue has been resolved.

- 6. Some of TRS' technology may no longer be supported by vendors or may become obsolete. TRS should evaluate its technology and make updates if appropriate.**

We understand this is in progress and recommend continuing to implement this prior recommendation. See implementation review for additional information on current status.

### **Second Engagement Update**

We understand this is in progress and is part of the Modernization Roadmap.

## **RECOMMENDATIONS – BERS**

- 1. Develop a formal set of business rules to use in the data verification process**

BERS seems to lag behind NYCERS, TRS, and POLICE in data verification precision. Since BERS is in the process of developing a new data management system, this is a great time to create a set of formal business verification rules. Currently BERS uses an informal process to compare data in the management system to case files (individual member files). While a formal set of rules may not result in better data verification, it will aid in the training of new BERS staff and ensure that the current data verification standard continues to be met when new (inexperienced) staff are hired or promoted. BERS does not concur that the development of formal business rules will improve its data verification precision. BERS believes that the reason they lag behind the other Systems is related to the use of antiquated and multiple data sources and the fact that digital historical records are only available through mid-2000. They further believe that this will be addressed with the development of CPMS.

### **Second Engagement Update**

BERS indicated that they are currently working through rules for the CPMS (the new system). These rules are being developed in great detail as part of the specification process.

#### **2. Work with DOE to improve credited service reporting for the annual valuation**

BERS benefits are based on actual service earned and annualized pay. However, the OA currently does not believe the reported service on the valuation data is reliable. In addition, the OA would like to receive additional information including hourly rate of pay, number of hours that defines full time status for the current position, portion of full-time status currently working, etc. In the absence of receiving complete part-time information, the OA values benefits based on annualized service and reported pay. Valuation results would be greatly improved if the OA could base the valuation on the same process used to compute benefits. Since the DOE is believed to have this data, we recommend that BERS work with the DOE (and the OA, as necessary) to capture this data for the annual valuation data file.

### **Second Engagement Update**

During the Second Engagement, BERS indicated that the DOE went back as far as possible to gather historical data. BERS has also been collecting better service information since September 2012 and recently gave a test file to the OA with what is hoped to be improved data.

#### **3. Involve the OA in the development of the new administration system**

Data collection is critical to the valuation process. The most efficient process for the annual valuation data collection would be for BERS to be the single source of all of the OA's data needs. Toward that end, we recommend that BERS involve the OA as BERS develops its new systems to ensure that they are able to easily provide the OA with all the data the OA needs for the annual valuation. We understand that BERS has included a representative of the OA on the Steering Committee for the project and is committed to ensuring the OA is included on all the development specifications that involve input to or output from the OA.

#### **4. Review NYCERS, TRS, and POLICE programs and policies on paperless office, security, disaster recovery and business continuity**

BERS lags behind these other systems in these areas (but is ahead of FIRE). Each of the other systems has a standout policy or program in one of these areas. We believe that BERS will therefore benefit from the other Systems' experience in the development of its own programs/policies.

### **Second Engagement Update**

BERS indicated that they reviewed NYCERS paperless office before starting their own imaging project.

#### **5. Share the Administrative Review Report with staff**

Staff indicated that they had never seen the prior Actuarial Auditor's Administrative Review Report. We recommend this report be shared with staff so that BERS can evaluate and implement the recommendations contained herein. After the draft Administrative Review Report was circulated, staff indicated that the hard copy of the final Administrative Review Report is routinely made available to all staff interested in reviewing it.

#### **6. There is no specific documentation of BERS' process to provide active member data to the OA. BERS should document its active data process in writing.**

We understand this is in process with the development of CPMS and recommend continuing to implement this recommendation. See implementation review for additional information on current status.

#### **7. BERS does not supply ITHP and required employee contribution data to the OA for the valuation. The OA and BERS should determine whether this data is reliable, and if so, the data should be provided to the OA. When BERS' computer system is upgraded, this data should be included in the database and provided to the OA.**

We understand this is in process with the development of CPMS and recommend continuing to implement this recommendation. See implementation review for additional information on current status.

### **Second Engagement Update**

BERS indicated that this item has been resolved/completed.

#### **8. BERS does not supply full-time employees' service and part-time employees' hours to the OA for the valuation. The OA and BERS should work together to validate this data, and if valid, it should be provided to the OA.**

We understand this is in process with the development of CPMS and recommend continuing to implement this recommendation. See implementation review for additional information on current status.

#### **9. The active valuation data process depends too heavily on the involvement of Prudential. BERS should complete the effort to replace the Prudential data system. The OA should be consulted on the data elements to be included in the new system, and should be given access to the new system for benefit certification purposes. An outside vendor should be engaged to provide data back-ups and business continuity protection services.**

We understand this is in process with the development of CPMS and recommend continuing to implement this recommendation. See implementation review for additional information on current status.

**10. Given the current data system arrangement, efficiency and data security can be improved.**

We understand this is in process with the development of CPMS and recommend continuing to implement this recommendation. See implementation review for additional information on current status.

**Second Engagement Update**

BERS has also indicated that when DoITT is involved with the data (as is the case for BERS), data security and access is tightly controlled by DoITT.

**RECOMMENDATIONS – POLICE**

**1. Review NYCERS policies/program regarding a paperless office**

NYCERS appears to have made the most progress on becoming a paperless office. POLICE have indicated that becoming a paperless office is on their wish list. We concur that POLICE should move in this direction. We recommend that POLICE review the NYCERS program/policies as they continue progress toward becoming paperless.

**Second Engagement Update**

POLICE indicated that their director reached out to NYCERS proactively and POLICE staff visited NYCERS to review their procedures. They determined that NYCERS verify data and destroy paper on a much quicker timeline. As a result, POLICE are reviewing possible implementations to improve their paperless processing.

**2. Continue to move World Trade Center (WTC) Election Data into COPS**

This data is important for the OA in the valuation process. The election data indicates which WTC eligible members have made the appropriate election to maintain eligibility for WTC benefits in the event of a future disability. Currently, the OA estimates liabilities based on aggregate estimations. In addition, the OA has established different probabilities for certain benefits based on WTC eligibility. Getting accurate election information to the OA will enhance the accuracy of the valuations. We therefore recommend that moving election data into COPS be completed as soon as possible so that POLICE can give the OA this information seamlessly with the rest of the valuation data.

**Second Engagement Update**

POLICE indicated that this was completed.

### 3. Integrate Tier III into COPS

We understand POLICE is in the process of integrating Tier III into COPS. As more members are hired into this tier, this will become more important. We recommend this be completed as soon as possible.

#### Second Engagement Update

POLICE indicated that this is expected to be completed during the Summer 2015.

### 4. Hire additional staff

We understand that POLICE anticipate a heavier than normal volume of retirement calculations in the near term. Not only is there a large class becoming eligible, but there will be a number of recalculations needed once contracts are settled (expected to be soon due to the election of the new mayor). In all, once labor contracts are settled, POLICE will have at least 4,500 retirement benefits to finalize and get certified by the OA. POLICE should consider hiring additional staff to handle the additional workload.

#### Second Engagement Update

POLICE indicated that they have analyzed this issue and currently believe that the anticipated higher number of calculations can adequately be handled through overtime and staff re-allocation without requiring additional staff.

### 5. Fix member account balances

In the June 30, 2010 valuation data, reported required ITHP balances were inconsistent with prior and subsequent reporting. The OA identified this and established an aggregate liability adjustment to account for the incorrect reporting. We queried the total balances for all POLICE members as of June 30, 2009, June 30, 2010, and June 30, 2011. Those balances are shown below:

	\$Millions				Active Count
	ASF		ITHP		
	Actual	Required	Actual	Required	
June 30, 2009	\$ 1,913.6	\$ 1,385.9	\$ 1,844.3	\$ 1,745.5	35,589
2010	\$ 2,105.1	\$ 1,413.9	\$ 2,054.9	\$ 2,795.0	34,219
2011	\$ 2,214.7	\$ 1,373.0	\$ 3,156.0	\$ 3,014.2	32,205

As the table shows, June 30, 2010 is the only year where the required ITHP balance is greater than the actual ITHP balance, in total. Although a review of the June 30, 2011 balance was not within the scope of our engagement, in looking at the table above, it does appear that there may be a problem with the reported required ASF balance in that year's data. That is the only year where the required ASF balance decreases. However, the actual ASF balance still increases. We recommend these balances be reviewed as well.

### **Second Engagement Update**

POLICE indicated that this was a programming issue that has been resolved.

- 6. World Trade Center (WTC) election data should reside in COPS and WTC data should include an indication of whether, and when, members reclassify their status to WTC accidental disability.**

We understand this is in process and recommend a continuation of this implementation. See implementation review for additional information on current status.

- 7. POLICE should continue to look for ways to streamline report creation by COPS**

We understand this to be an ongoing process for POLICE and recommend a continuation of this implementation.

### **RECOMMENDATIONS – FIRE**

- 1. Provide corpus funding for FIRE**

The one area that FIRE excelled at was security for access to the perimeter of the building and building access. FIRE lags behind all the other systems in almost every other area. FIRE needs to enhance its data management system, move toward a paperless office, invest in disaster recovery equipment and ensure staffing that is sufficient to meet all of its needs. Budgetary restrictions have held back FIRE's progress in these areas. The other Systems have modernized operationally, technologically, and physically after corpus funding was provided to them. Accordingly, we recommend that corpus funding be provided for FIRE. If corpus funding is achieved, FIRE will be better able to make progress on the outstanding issues from prior reviews.

### **Second Engagement Update**

FIRE also shares IT staff and IT equipment with the department. They believe (and we agree) that FIRE would benefit from having independent staff and independent equipment.

- 2. WTC election and buy-back service data reside in data files which are separate from FIRE's main database. These data items should reside in FIRE's main database. World Trade Center data should include an indication of whether, and when, members reclassify their status to WTC accidental disability.**

We understand this is difficult to implement due to the changing/evolving laws. However, we agree with the prior actuarial auditor that implementation would be beneficial. We recommend an implementation based on current law.



### **Second Engagement Update**

FIRE indicated that buy-back service was completed. They also indicated that elections are in the system, but eligibility information is separate. Once the election period closes, they expect to update the system.

#### **3. The OA should be given access to actual member data for benefit certification purposes**

We concur with this recommendation from the prior actuarial auditor.

#### **4. Data security can be improved**

We understand this is an ongoing process and recommend continuing to monitor and update.

### **RECOMMENDATIONS – ALL SYSTEMS**

#### **1. Create a regular schedule where the Systems’ staff can get together and share ideas**

Many of the Systems face similar challenges related to security, disaster recovery, data management and member services. Although the Systems’ staffs talk with each other on an “as needed” basis, we believe that each of the Systems would benefit from a more formal and regular meeting to share ideas, such as annually or biannually. This could reduce duplication of effort and lead to quicker implementations (for the Systems that are not first to implement) since they will have the benefit of learning from the other Systems’ research, successes and failures.

### **Second Engagement Update**

FIRE and POLICE indicated that they felt this recommendation was already accomplished through the regular meetings with the legal department. The other Systems felt that anything not covered in the legal meetings was handled on an “as needed” basis. TRS subscribes to CEM Benchmarking services. These services allow TRS to share ideas with the peer retirement systems (nationally and internationally) that also subscribe. We recommend that the other Systems in the NYCRS review this service to determine if it would be useful to them, as well.

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## **SECTION D**

### **IMPLEMENTATION REVIEW**

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## **IMPLEMENTATION REVIEW**

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The most recent Administrative Reviews were completed in December 2011 by Hay Group, Inc. We present below the status of the major recommendations made by Hay Group along with brief comments from GRS. It is important to note that the Systems and/or the OA may not agree with every recommendation.

### **Status of Prior Recommendations – NYCERS**

1. The valuation data collection process can be improved. Hay recommended that NYCERS: (a) be the single source of the data; (b) work with the OA to ensure that the updated computer system can provide the data elements needed by the OA for the valuation; (c) flag data changes for the OA so that the OA does not need to question the changes when performing its data analysis; and, (d) provide the OA with a year-over-year data reconciliation as a validity check of the data.

**Status:** No progress. OA continues to own the valuation data process, collecting data from several sources to prepare preliminary valuation data files to give to NYCERS. NYCERS plans to resume efforts in determining its options for a pension system replacement in FY 2017. We concur with the Hay Group recommendation.

2. Data issues found in the annual data process which are not easily resolved are deferred for resolution until the following valuation.

**Status:** Completed. Material items are now resolved promptly.

3. Ongoing valuation data issues with respect to member service and members with multiple member numbers should be completed as soon as possible.

**Status:** Substantially completed. NYCERS has an automatic update process that generates year end service.

### **Second Engagement Update**

This process completes the year end calculation of service sometime in February and is approximately 75% automated. Per NYCERS email sent March 24, 2015 at 11:59 a.m.: “The enhancement of the annual auto generation service program now give(s) more detailed service update for the Transit employees. About 114,154 members went through the PMS program and 39,740 members went through the Transit program. About 38,266 members went through the non-PMS program. The non-PMS program can only update service as full service, it does not have enough payroll details to give less than full service. If one check is short, the system cannot update the service. HHC is the biggest employer still going through the non-PMS program. We are currently working with IT and HHC in an ongoing project to fully automate them.”

4. NYCERS should document its active member data process in writing.

**Status:** Completed. NYCERS has created flowcharts documenting processes.

5. NYCERS does not supply Increased Take-Home Pay (ITHP) and required employee contribution data to the OA for the valuation. When NYCERS' computer system is upgraded, this data should be included in the database and provided to the OA.

**Status:** In progress. This information is not carried on NYCERS' files, computer upgrade scheduled for FY 2017.

6. NYCERS should include a notation on the active member data provided to the OA, indicating that members have bought back service, and showing the amount of service bought back.

**Status:** Completed. This information has been provided at the OA's request.

7. NYCERS should check items relating to entry age, date of birth and date of hire, etc. prior to sending the data to the OA.

**Status:** Completed. This is addressed during data process.

8. Sending paper files to the OA for benefit certification purposes is inefficient and poses a data security risk. These files should be sent electronically to the OA via a secure link.

**Status:** No longer applicable. NYCERS does not send paper files. However, the OA sends benefit certifications to NYCERS on paper. NYCERS would prefer electronic transmission of this data, but this is the OA's choice.

9. NYCERS should prepare and maintain a written manual that documents the benefit calculation process.

**Status:** Completed. A procedure manual has been created.

10. When sending retiree payroll data to PPMS, NYCERS does not identify retirees whose pension benefits have not been finalized due to labor contract negotiations that have not been settled. NYCERS should flag this information for the OA.

**Status:** Partially resolved. NYCERS has completed this to the extent that they can. NYCERS does not have bargaining unit codes. They have built a title code table. This is only part of the information needed, but it is all they have.

11. NYCERS transfers active member data to the OA on compact disc. This is both inefficient and a data security risk. As indicated above, a secure electronic link should be established between NYCERS and the OA for the purpose of transmitting member data.

**Status:** Resolved – files are sent through secure link.

12. NYCERS instituted a pilot program to cross-train staff members across various functions. This initiative should be continued.

**Status:** Resolved. This program has continued.

13. NYCERS learns of pensioner deaths by direct notification from the beneficiary, and from Social Security death sweeps. NYCERS should investigate more comprehensive methods of checking for pensioner deaths.

**Status:** No longer applicable. NYCERS has investigated the availability of death data from several sources such as various private vendors and the New York State and City Health Departments. These entities do not provide data beyond what is being provided by the Social Security Administration. NYCERS sends affidavits annually to pensioners 87 years of age and older to verify each pensioner's continuing eligibility for their pension benefits. Deaths are detected through this process. GRS believes the current process is sufficient.

#### **Status of Prior Recommendations – TRS**

1. Some active member data, such as from CUNY and Charter Schools, are entered into the TRS database manually. TRS should explore secure electronic methods of receiving this data and entering it into the TRS database.

**Status:** In progress. CUNY payroll is automated but employment information is not – TRS is pursuing an automated feed. CUNY is not sure that historical data is 100% reliable. Charter Schools provide automated data feed that is reviewed by TRS.

#### **Second Engagement Update**

This is part of the Modernization Roadmap developed by TRS.

2. Historically, Charter School data has not been delivered to the OA on a timely basis for the valuation. TRS and the Charter Schools should determine ways to deliver this data earlier.

**Status:** Resolved. TRS believes the data now gets to the OA when needed. The OA agrees.

3. As TRS updates and improves active member data on its database, it does not flag data changes, which leads the OA to question the changes. TRS should provide data change indicators in the data they send to the OA, so that the OA will be able to reconcile more easily.

**Status:** Resolved. TRS provides a separate file with exceptional data changes.

4. TRS provides a valuation data reconciliation to the OA, but reconciles from its own prior year data to the current year. Reconciling from the OA's version of the prior year's TRS data would be more helpful to the OA.

**Status:** No longer applicable. TRS does not believe this is a problem for the OA. Since TRS does not have the final valuation data file (which is created by the OA) it would not be able to perform this reconciliation with any accuracy. The OA agrees.

5. TRS provided on-line benefit certification capability to the OA, but this is not utilized in all cases. TRS and the OA should work on extending this efficient procedure to all benefit certifications.

**Status:** In process. TRS has automated most calculation types – only death benefits remain manual but will be automated shortly.

### **Second Engagement Update**

Completed.

6. TRS transfers active member data to the OA on compact disc. This is both inefficient and a data security risk. A secure electronic link should be established between TRS and the OA for the purpose of transmitting member data.

**Status:** No longer applicable. TRS and the OA are using FTP.

7. Data security can be improved. Consider implementing or developing data security measures such as recertifying access, not allowing network/data access through laptop computers, and training employees on data security procedures.

**Status:** Completed. Since the last audit TRS has created and filled a new position -- security professional – and mandatory security training is in place. Performance evaluations of all employees include information security elements.

8. Some of TRS' technology may no longer be supported by vendors or may become obsolete. TRS should evaluate its technology and make updates if appropriate.

**Status:** In progress. A five-year engagement related to modernization of systems (the Modernization Roadmap) kicked off in December 2013, starting with replacement of the UPS System.

9. There is no formal succession plan in place at TRS. TRS should identify which positions require a formal succession plan, establish a succession plan and then implement it.

**Status:** In process. Human Resources is actively involved in creating a strategic plan since more than 50% of leadership key roles are staff members over the age of 50. The initiative on strategic planning has been kicked off and is in progress.

### **Second Engagement Update**

Completed. However, this will also be ongoing.

### **Status of Prior Recommendations – BERS**

BERS staff indicated that they had not seen the prior recommendations until GRS emailed them a copy in preparation for our visit. Therefore, most of the issues are unresolved.

1. There is no specific documentation of BERS' process to provide active member data to the OA. BERS should document its active data process in writing.

**Status:** In process. This is part of the development of CPMS.

2. BERS does not supply ITHP and required employee contribution data to the OA for the valuation. The OA and BERS should determine whether this data is reliable, and if so, the data should be provided to the OA. When BERS' computer system is upgraded, this data should be included in the database and provided to the OA.

**Status:** In process. This is addressed in the development of CPMS.

### **Second Engagement Update**

BERS supplied a test file to the OA for the June 30, 2014 Valuation.

3. BERS does not provide a year-over-year data reconciliation to the OA to help in the valuation data process. BERS should provide a data reconciliation to the OA.

**Status:** No longer applicable. BERS does not receive the final valuation file from the OA and is therefore unable to provide a reconciliation from that point.

4. BERS does not supply full-time employees' service and part-time employees' hours to the OA for the valuation. The OA and BERS should work together to validate this data, and if valid, it should be provided to the OA.

**Status:** In process with the development of the new system.

5. Sending paper files to the OA for benefit certification purposes is inefficient and poses a data security risk. These files should be sent to the OA electronically via a secure link.

**Status:** Unresolved. GRS believes that electronic copies are ideal, but that paper copies are acceptable, so long as proper precautions are taken.

### **Second Engagement Update**

In process. BERS has completed the technical piece and a test. The business process is still being developed and will be part of the new system.

6. BERS' benefit calculation process is not fully documented. BERS should prepare and maintain a written manual that documents the process.

**Status:** Resolved.

7. The transfer of member account balances to TRS and other Systems is typically delayed because the process must be initiated by the member. This should be resolved legislatively.

**Status:** Not applicable. BERS does not agree that this should be a recommendation for BERS, since it has no legislative authority.

8. BERS should place an indicator in PPMS if a member's benefit has not been finalized.

**Status:** Resolved.

9. The active valuation data process depends too heavily on the involvement of Prudential. BERS should complete the effort to replace the Prudential data system. The OA should be consulted on the data elements to be included in the new system, and should be given access to the new system for benefit certification purposes. An outside vendor should be engaged to provide data back-ups and business continuity protection services.

**Status:** In progress. This will be resolved with the implementation of the new system and/or as a result from the development of a new business continuity plan that is currently being developed.

10. BERS transfers active member data to the OA on compact disc. This is both inefficient and a data security risk. As mentioned above, a secure electronic link should be established between BERS and the OA for the purpose of transmitting member data.

**Status:** Partially Resolved. Most data is transferred via secure FTP.

11. Given the current data system arrangement, efficiency and data security can be improved.

**Status:** In progress with the development of the new system.



### **Status of Prior Recommendations – POLICE**

1. The active member valuation data provided to the OA is of high quality, but there is an ongoing accuracy issue with respect to the service reported for a small number of members. This accuracy issue should be resolved.

**Status:** Resolved. As a result of a revised annual statement process that includes service data, the quality of service data has improved dramatically.

2. WTC election data should reside in COPS and WTC data should include an indication of whether, and when, members reclassify their status to WTC accidental disability.

**Status:** In process. This is in development, with user testing scheduled for late January 2014.

### **Second Engagement Update**

Completed.

3. POLICE does not provide a year-over-year data reconciliation to the OA to help in the valuation data process. POLICE should provide a reconciliation report to the OA.

**Status:** No longer applicable. OA has not requested this.

4. Sending paper files to the OA for benefit certification purposes is inefficient and poses a data security risk. These files should be sent to the OA electronically via a secure link.

**Status:** Unresolved. Recommendation was rejected by POLICE. Paper transmission is still happening, as System was developed to generate paper, not electronic files. Setting up a secure link would be more work for POLICE. GRS believes that electronic copies are ideal but that paper copies are acceptable so long as proper precautions are taken.

5. It continues to take a relatively long time from member initiation of the retirement process to finalization of the benefit. The POLICE and the OA should explore ways to reduce the time it takes to finalize benefits, including determining whether the OA needs to require certification of all benefits.

**Status:** GRS does not believe this is within the control of POLICE. Current backlog is due to the length of the collective bargaining process – at one point there was an 18 month backlog but COPS system increased bandwidth (to allow for a larger volume of cases to be processed), decreasing backlog to 3-4 months. Normal turnaround is 2-3 months.

6. A large period of time elapses between separation from service and electing a benefit option, which could allow for anti-selection against the System. POLICE should establish a procedure whereby a member elects an option earlier in the process.

**Status:** No longer relevant. POLICE have rejected this recommendation.

### **Second Engagement Update**

POLICE expect a 4-6 week completion time frame when not awaiting contract settlements.

7. POLICE experienced a data security breach during the course of the First Engagement Administrative Review. POLICE should share the findings of its investigation of the incident with the other Systems to help prevent similar incidents at all the Systems.

**Status:** Completed. All the Systems are aware of the breach. The missing information is back on site, locked up physically.

8. POLICE should continue to look for ways to streamline report creation by COPS.

**Status:** In process and ongoing. Process improvements continue to be made.

9. Data security can be improved.

**Status:** Completed. POLICE have replaced passwords with fingerprint scanners.

### **Second Engagement Update**

This task is also ongoing as technology evolves.

10. Tier 3 member data should be integrated into COPS.

**Status:** In process. Specifications have been developed and are in the review stage.

### **Second Engagement Update**

The expected completion timeframe is Summer, 2015. As of the date of our meeting in January 2015, POLICE have shared information with the OA and are awaiting feedback.

### **Status of Prior Recommendations – FIRE**

1. There is no specific documentation of FIRE's process to provide active member data to the OA. FIRE should document its data process for active members in writing.

**Status:** No longer relevant. OA's detailed data request provides sufficient documentation to FIRE. OA gives file layout to pension unit, BTDS (computer group of Fire Department), documentation is developed to be understood by any computer person.

2. WTC election and buy-back service data reside in data files which are separate from FIRE's main database. These data items should reside in FIRE's main database. WTC data should include an indication of whether, and when, members reclassify their status to WTC accidental disability.

**Status:** This is difficult to implement because the law is constantly changing/evolving. FIRE has a database with 12,000 members on it with much of the information. This file is provided to the OA.

### **Second Engagement Update**

Buy-backs are on EUPS. WTC election data is difficult to implement because the law is constantly changing/evolving. During the Second Engagement, FIRE informed us that a new law just re-opened the period so that new members could apply.

3. FIRE does not provide a year-over-year data reconciliation to the OA to help in the valuation data process. FIRE should provide a reconciliation report to the OA.

**Status:** No longer applicable. FIRE does not receive the final valuation file and is, therefore, not able to reconcile to it. OA has not requested this from FIRE.

4. Sending paper files to the OA for benefit certification purposes is inefficient and poses a data security risk. These files should be sent to the OA electronically via a secure link.

**Status:** Resolved. This was resolved by removing SSNs from the paper files sent.

5. Active member data is entered into FIRE's database manually, which increases the risk of errors. When FIRE implements a new data handling system, the system should ensure that data can be entered electronically.

**Status:** Completed. New system has addressed this.

6. Data used for preparing non-finalized benefit calculations must be printed out and stored on paper because the current data system cannot retain historical data. FIRE's new data system should be able to store historical data.

**Status:** Completed. New system has addressed this.

7. In the benefit calculation process, 3-year average salary is manually computed. We understand the new data system will contain salary history data and sufficient logic to do this computation for members appointed prior to July 1, 2000.

**Status:** Completed. New system has addressed this.

8. Reserve transfer calculations are calculated manually. The new computer system should contain logic to automate these calculations.

**Status:** No progress. This issue is not within FIRE's control. FIRE is open to pursuing this if OA provides the logic. However, these cases are very rare. GRS recommends this item be removed from the list.

9. The OA should be given access to actual member data for benefit certification purposes.

**Status:** No progress.

### **Second Engagement Update**

FIRE indicated that this could be worked on, but would require a number of changes and funding for the administrative costs.

10. A large period of time elapses between separation from service and electing a benefit option, which could allow for anti-selection against the System. FIRE should establish a procedure where a member elects an option earlier in the process.

**Status:** Not applicable. This issue is largely outside of FIRE's control. The issue is largely driven by the fact that contracts are still open.

11. With regard to disaster recovery of data, FIRE has not tested the retrieval and restoration of its data backups. This should be tested periodically.

**Status:** Completed for back-up but not for disaster and relocation. Tests are performed to make sure restoration happens.

12. Data backups are only sent offsite weekly. This should be done daily.

**Status:** Changes are backed up daily and sent offsite weekly.

13. Data security can be improved.

**Status:** In process. FIRE does not allow network or data access through laptop computers. More could be done with corpus funding.

14. Corpus funding.

**Status:** Corpus funding has been approved for all Systems except FIRE.

**Comment:** Corpus funding for the other Systems has allowed investments in technology and staffing. FIRE thinks corpus funding is unlikely due to autonomy of the Fire Department.

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## **APPENDIX 1**

### **FINDINGS BY ENTITY (OA AND EACH SYSTEM)**

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## MEETING WITH THE OA

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The Administrative Review consists of a review of the procedures, database and communications between the Office of the Actuary (OA) and each of the five major Retirement Systems (Systems) of New York City with regard to the valuation data and benefit certification. GRS met with the OA to begin the first engagement review. During that meeting the OA described the lines of communication between the OA and each of the Systems. The processes currently used have some built in redundancies which provide useful crosschecks.

The OA triggers the data process with a written request in early June to each of the Systems (and each of the other payroll providers) detailing precisely each data item required by the OA. In June the OA follows up with each System to discuss the data request and iron out any related problems in the “kick-off” meeting. In the past there were also follow-up meetings. The follow-up meetings have not been needed recently.

Data is currently transmitted through FTP for FIRE, POLICE, TRS, BERS, a number of NYCERS providers and Buck.

In addition, the OA tracks Union employment contracts and the Actuary may adjust salaries in the database when conditions warrant. In addition to member data, the OA receives the contracts from the Office of Labor Relations (after sending a data request) and the assets from the Systems and the auditors.

The OA has not developed explicit service purchase assumptions or promotion assumptions but does account for promotions indirectly within the salary scale increase assumption when able (applies to all Systems).

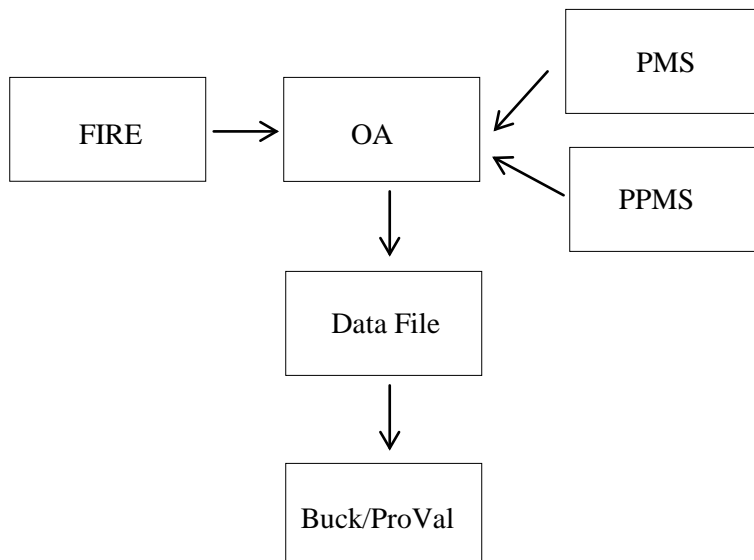
During the meeting with GRS, the OA described the process for FIRE first, and then described the differences for the other groups. The results of the GRS administrative review with the OA are presented in a similar manner. First we present the review of FIRE and then we present the additional information related to the other Systems.

## MEETING WITH THE OA

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### FIRE Administrative Review with OA

#### FIRE Valuation Data Flowchart



The OA documents all steps in a binder and then uses that binder as a guide for the next year. All business rules are documented in the binder. The OA indicates that it attempts to review all data within 5 business days of receipt for consistency and reasonableness. A more detailed data review is then subsequently performed. The data file processing is described as follows:

- Step 1: Break data down into metrics, check for blank fields, duplicate records and reasonable ranges;
- Step 2: Reconcile data with prior year;
- Step 3: Send System a memo identifying any discrepancies;
- Step 4: Fix reconciliation with additional information from System; and
- Step 5: Transmit data to Buck explaining reconciliation and detailing the process and any remaining discrepancies. All edits that the OA makes are communicated back to the System (and any other relevant party).

After Buck receives the member data, they perform additional checks. Any edits they make are communicated back to the OA.

In all, there are five parties involved in the process: OA, PMS, PPMS, FIRE, and OLR.

The typical time frame from data request to valuation ready data is three months. The OA prefers to have all Buck's results mid-November, with a valuation completion target date of mid-December.

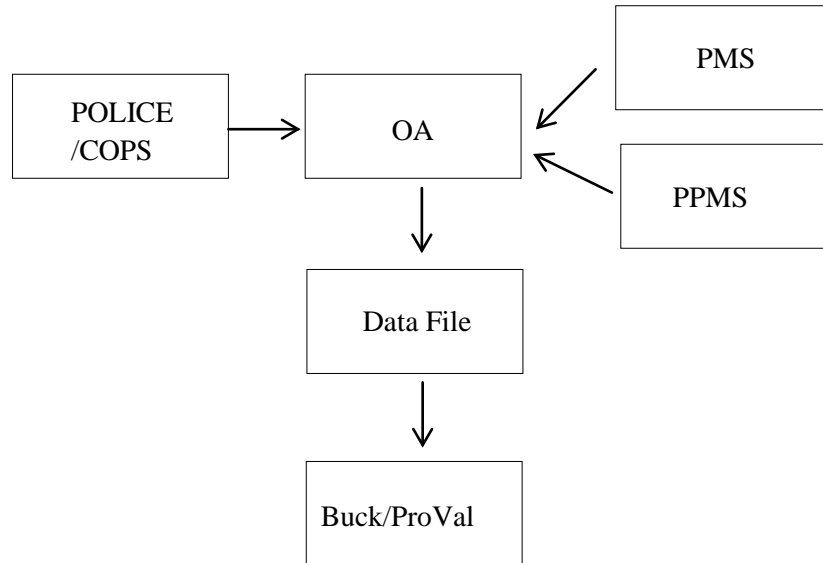
Valuation results for all five Systems are published by the OA at the same time.

## MEETING WITH THE OA

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### POLICE Administrative Review with OA

#### POLICE Valuation Data Flowchart



The OA indicated that the process for POLICE is largely the same as for FIRE and includes the same number of data requests and the same number of entities involved in the data handling. Some special issues related to POLICE are as follows:

- COPS (the POLICE active database administration system) has some issues with the service field that POLICE are working on improving;
  - Second Engagement Update: this issue is improving
- Different methods are used for handling loans across the Systems;
- For POLICE, there was a liability load due to concerns with data related to loan information (this only relates to the 6/30/2010 valuation); and
- POLICE flags service purchases and service buybacks in the data provided to the OA.

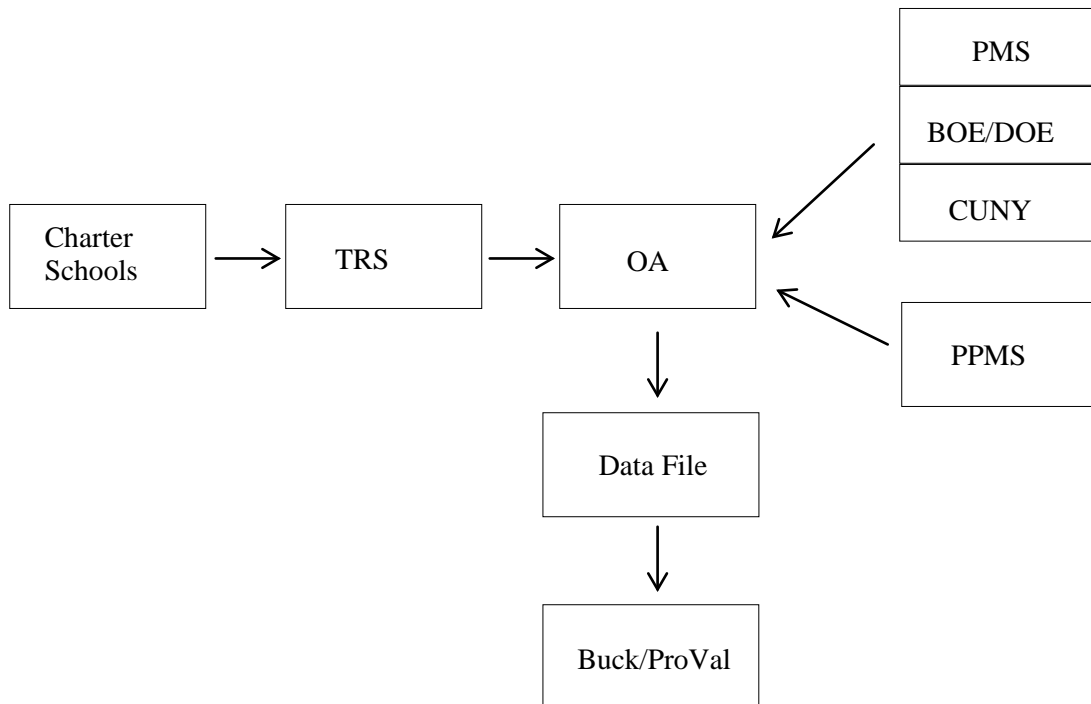


## MEETING WITH THE OA

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### TRS Administrative Review with OA

#### TRS Valuation Data Flowchart



Some special issues related to TRS include:

- Retiree payment data comes from PPMS (for all Systems). New retiree data is also provided by TRS. The TRS information contains non-changing data elements that are not in PPMS. The OA maintains a database going forward that is developed from the matured information provided by TRS and PPMS;
- The Charter Schools provide the data to TRS and TRS provides to OA;
- Many of the new retirees are reported as active/inactive (or disappear) due to timing and the end of the school year (the OA will identify members that disappear from reporting through their reconciliation process so that they are included in the valuation);
- Pensionable earnings are more complicated:
  - Base Pay
  - Summer Pay (Chapter 683)
  - Per Session (e.g., coaches stipend)
  - Coverages (covering for another teacher that is absent)
  - 6<sup>th</sup> Period Pay
  - Bonus (based on student performance)
- There is more reliance on accountants for asset information due to the TDA, variable and fixed funds (TRS has five variable funds).

## **MEETING WITH THE OA**

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### **Second Engagement Update**

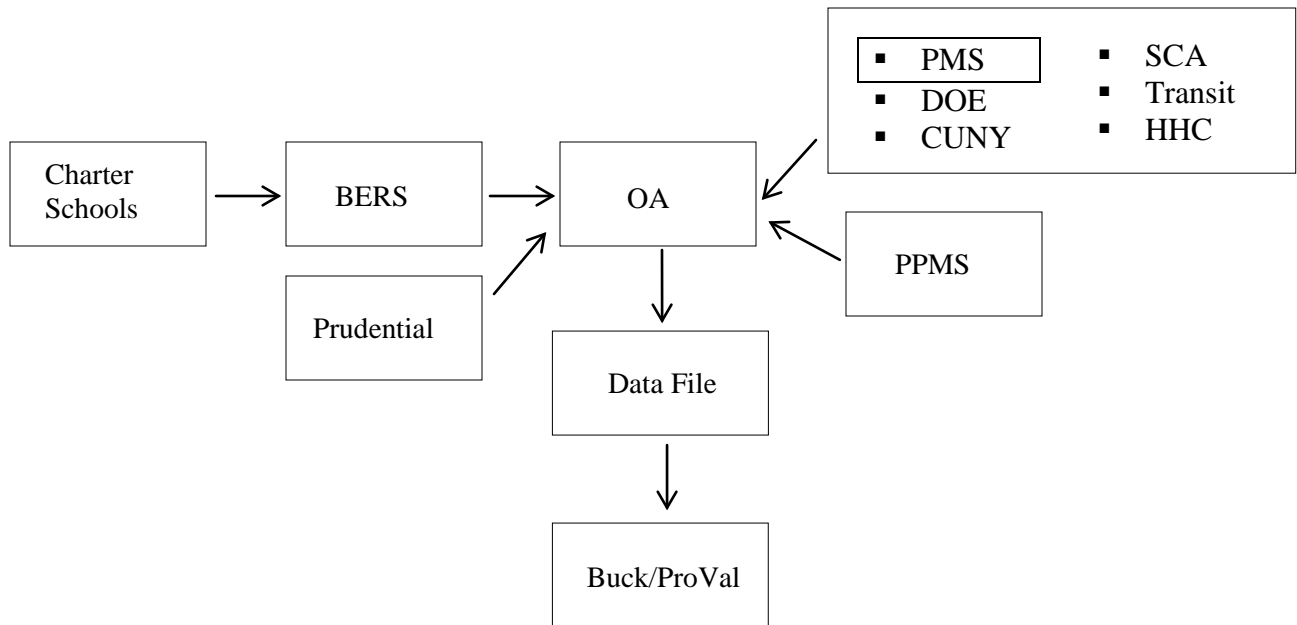
- Over the last couple of years, TRS has received fewer questions from the OA and believe they are much closer to meeting the OA's needs than in the past. The OA agrees.

## MEETING WITH THE OA

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### BERS Administrative Review with OA

#### BERS Valuation Flowchart



Some special issues related to BERS include:

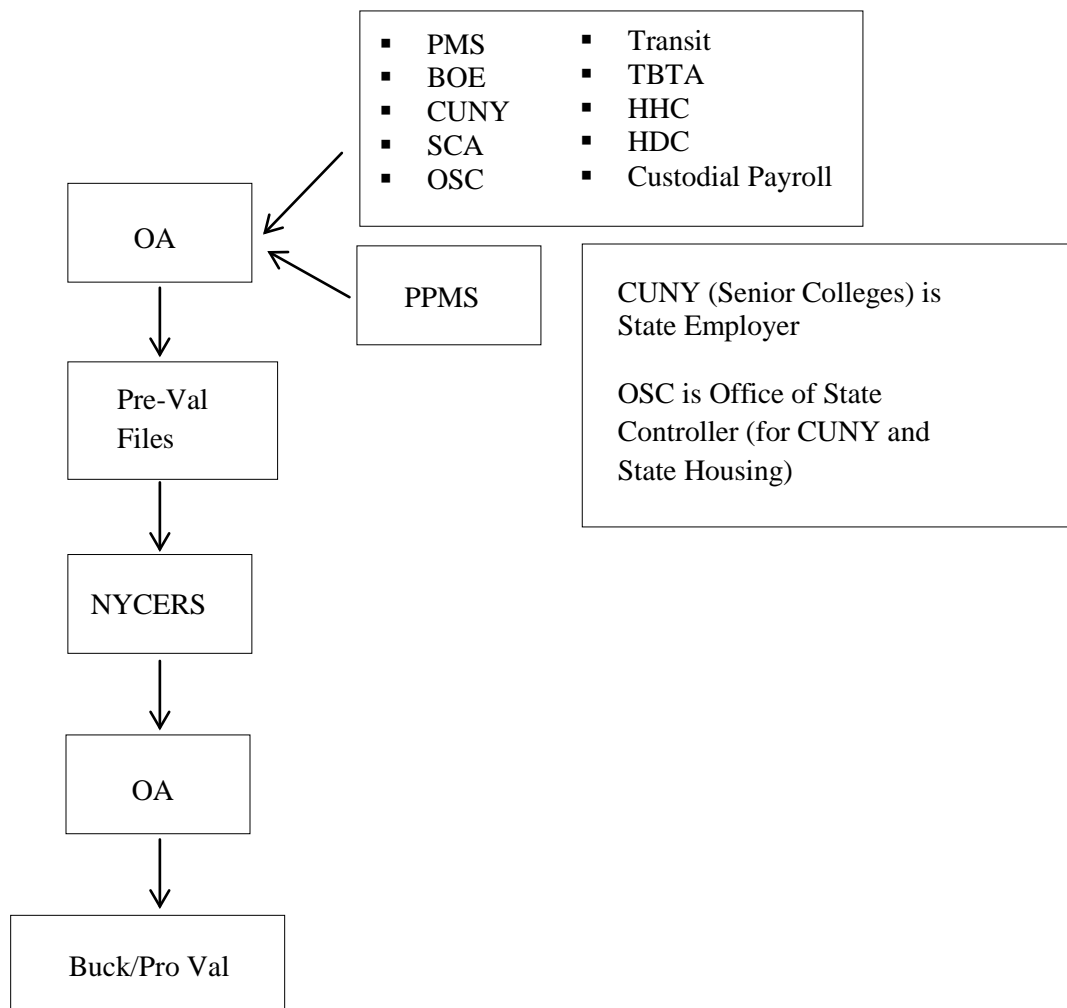
- Complete information on part-time employees is requested by the OA, but has not been historically provided to the OA;
  - Up to 2/3 of members are part-timeComplete data for part-time employees is not provided, such as hours worked in previous year, hours expected to work in upcoming year, hours constituting full-time, etc. **Second Engagement Update** -- (Per BERS a test file of part time information was provided to the OA for the 2014 valuation). Per OA, this file was not received.
  - OA develops service for valuation based on date of hire
  - Department of Education considers some positions full-time even though job requires less hours than other full-time positionsAll retiree information comes from PPMS; **Second Engagement Update** -- BERS also provides a list of new retirees, but the OA does not have a record of receiving this file either;
- For new retirees, valuation data is verified against data submitted for benefit certifications; and
- BERS only has 1 variable fund, versus 5 for TRS.
- **Second Engagement Update** -- BERS is in the process of upgrading their system and expect to go live in February 2016.

## MEETING WITH THE OA

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### NYCERS Administrative Review with OA

#### NYCERS Valuation Flowchart



Some of the special issues related to NYCERS include:

- The data collection process differs substantially from the other Systems (as illustrated above);
  - OA collects data from several sources and prepares preliminary valuation files to give to NYCERS
  - NYCERS receives OA preliminary files and processes the data in its database
  - NYCERS sends valuation data back to OA after processing preliminary valuation files
- The bankruptcy of the Off Track Betting Corp. and its on-going accrued (and on-going) contributions; and
- **Second Engagement Update** -- Upgrade of the NYCERS System scheduled for 2017.

## MEETING WITH THE OA

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### Benefit Calculations – Second Engagement Updates Underlined

During the administrative review for the OA, we also met with representatives of the Benefit Certification Services Division (CSD). The discussion for part of the review started with NYCERS. For the other plans, the differences were highlighted.

General issues/processes that apply to all Systems include:

- OA CSD has a specialist for each System;
- Each specialist is versed in at least 3 or more Systems to provide back up;
- There are a list of certain types of cases that are reviewed by the manager;
- All Systems write computation programs with OA assistance and OA will match results independently; and
- OA handles all cases; the Actuary certifies all cases.

For big picture issues, the OA may consult with Buck for advice. OA is designing an EXCEL spreadsheet to calculate Social Security benefits for Systems' use in calculating Social Security offsets. To be rolled out to Systems in spring/summer of 2015, and the Systems will maintain this going forward.

For NYCERS, the process of benefit certification was described as follows:

- NYCERS emails the OA a list of cases;
- NYCERS tells the OA what to expect during the Corporate Counsel meetings;
- OA logs into NYCERS system (web based) and reviews/certifies calculations;
- 415 limits are checked for all cases;
- Two 415 reports are generated (1 for base benefits; 1 for excess plan);
- FAS calculations are checked;
- Cases marked computerized are done by NYCERS and reviewed by OA;
- Cases marked manual are completely done by OA;
- The OA has a doer, checker, reviewer process;
- Every 10th case is pulled and reviewed in greater detail;
- The OA estimates that the error rate for NYCERS cases is 4-5% (most errors are related to calculation of FAS, age or selection of factors);
- Recalculations and re-certifications are performed if contracts are settled late; and
- Volume of calculations have doubled as a result of recent contract settlements.

Issues/processes that differ for POLICE (99% choose Straight Life Annuity) and FIRE include:

- End of year – OA gives complete spreadsheet for POLICE & FIRE
- Calculations are delivered to the OA manually by messenger (not by OA choice – see page 28);
- Calculations are checked for reasonability;

## MEETING WITH THE OA

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- POLICE and FIRE wait until contracts are settled (this allows the death gamble benefit to be operable for a longer time than would be the case if contracts were settled sooner) to finalize a case (not a desirable result from OA perspective);
- OA computes the options for POLICE and certifies the computation after the option is elected by member; and
- FIRE uses a program developed by OA to generate the option letter; OA certifies the calculation after an option is elected.
- FIRE gives data sheet with parameters and independent checks.

Issues/processes that differ for TRS include:

- Most computerized process;
- OA can VPN directly into the TRS system (UPS – Unified Pension System);
- Certification is done electronically;
- Manual cases (about 5%) are delivered via messenger or FAX, if rush;
- Error rate is estimated to be approximately 2% for TRS (OA corrects/identifies errors for TRS);
- OA has monthly meetings with TRS on what to expect in terms of volume; and
- TRS staff recently discussed batch processing for recalculations due to settlements – the Actuary decided against this.

Issues/processes that differ for BERS include:

- Certification requests are sent to the OA manually through messenger;
- BERS sends email alerts so OA knows how many cases to expect (Second Engagement: BERS sends cases once per month);
- BERS/OA is trying to create an electronic approach;
- BERS uses a program generated by the OA to perform the calculations;
- OA reviews the calculations; and
- BERS messenger picks up the certifications when OA completes them.

### Security

The OA is in the process of updating its computer systems. One of the recent improvements was the implementation of the secure FTP (file transfer protocol) site. This site is available for transferring electronic data between the OA and each of the Systems as well as the OA and any other vendors (such as Buck Consultants and GRS). As users of this system, we have seen first-hand how data is transmitted. All data that has any identifiable member information (Social Security numbers, pension numbers, dates of birth, etc.) are double encrypted and uploaded to the secure FTP site. Files that are uploaded must be transferred (downloaded) the same day. Data may not reside on the FTP site overnight. Files are only allowed to stay on the FTP site for one day. GRS had to acquire special software to handle the un-encryption process.

## **MEETING WITH THE OA**

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Only a limited number of OA senior staff have remote access to the OA network from outside the office.

The OA office is kept locked and access is granted from within. The building has security which screens people before allowing access to the elevators.

### **Second Engagement Update**

**Most email transmissions use encryption, including frequent estimates for TRS and NYCERS. The CSD does not use FTP with the Systems.**

## **MEETINGS WITH EACH SYSTEM**

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### **Findings Related to all Systems**

Discussions with all of the Systems confirmed the following:

- The OA has an excellent working relationship with all of the Systems;
- The Systems and the OA have taken huge strides forward in the ability to transmit data securely with almost all transmissions occurring through secure FTP;
- The OA's annual kick-off meeting and data requests provide the necessary communications and explanations that the Systems need to fulfill the OA's data needs;
- The Administrative Review is one of several audits the Systems go through regularly which places a burden on System Staff. The Systems' staffs do not view the annual valuation process as service/value provided to the Systems by the OA. Rather, they view this as a service/value provided to the City/Comptroller by the OA that requires their participation. The Systems should be the single source of data for the OA and should maintain a historical file of information sent to the OA; and
- The Systems should develop a regular mechanism to allow for sharing of ideas on operations (such as new technologies, security procedures, business continuation plans, etc.)

Other recommendations:

- Currently the OA produces formal valuation reports for POLICE and FIRE. The OA should produce a formal valuation report for each of the other Systems; and
- Until such time as the OA is able to produce full valuation reports, the OA should include the summary of benefits in the Appropriations Letters (instead of referencing the benefit descriptions in the CAFRs).



## **MEETING WITH THE NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM (NYCERS)**

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### **Data Processing for Valuation Files**

The OA drives the valuation process, holding an annual kick-off meeting at NYCERS and ultimately creating databases in which NYCERS fills in the pieces. NYCERS has a good relationship with the OA, noting that they work well together. However, as can be seen in the flow of data chart under the OA's section above, the OA gathers data from a multitude of sources and creates an initial valuation file that NYCERS then reviews and supplements. While the OA has indicated that this process is working well, we agree with the prior actuarial auditor that ideally, NYCERS should be the single source of data for the valuation files. However, the OA may wish to continue to receive files from other sources for cross-check/data verification purposes.

Currently the OA gathers information from the Pension Payroll Management System (PPMS), the city active Payroll Management System (PMS) and other employers payroll information. However, NYCERS is the source for data entered into PPMS and they collect pension related information from all the employers for active members on a monthly basis, so they should have all the data the OA needs within its database.

The PPMS file is produced electronically and month-by-month changes are tracked in retiree data. NYCERS screens the active and pensioner valuation files with its own edit checks – reviewing for anomalies which are sent to the Employer who then updates and downloads the information.

NYCERS does not provide data on actual ITHP balances, minimum employee contribution balances and minimum ITHP balances -- the OA estimates these amounts and adds the fields to the active valuation file.

The NYCERS pension system is called PROD. The OA was not involved in the development of PROD. NYCERS is researching the replacement for PROD. We recommend that the OA be involved so that the new system can easily generate the data needed for the valuations.

One data element that was discussed with NYCERS but was not discussed with the OA or any of the other systems was what NYCERS referred to as the non-member file. NYCERS downloads and maintains a file of City employees that are not members of NYCERS. This would include employees who are members of the other Systems or employees who are not members of any of the Systems. They maintain this file historically in order to expedite service purchases or service reinstatements in the event that someone on this file becomes a member of NYCERS in the future. We recommend that the OA discuss this file with NYCERS to determine if the OA can use the data for developing service purchase assumptions.

## **MEETING WITH THE NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM (NYCERS)**

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### **Data Processing for Benefit Calculations**

NYCERS has a self-serve website ("My NYCERS") where members can (or will soon be able to):

- Review member profile information;
- Complete loan applications (if eligible), including credit card payment capability;
- Use estimators for loans, retirement benefits and buy-backs; and
- Download Annual Disclosure Statements including Form 1099 and Pensioner award letters.

In addition to My NYCERS, an Annual Disclosure Statement (ADS) is produced by the Communications Division and sent to members (annually) as well as being posted on-line. Each July and December, estimated benefit letters are sent to those who are retirement eligible. COLA letters are sent every September to the entire pensioner population (including those not receiving a COLA). Lastly, NYCERS also offers other support including a call-in center, and monthly in-house seminars.

When members are ready to start the retirement calculation process, they can file applications in person at a walk-in center, or by mail. Most NYCERS' calculations of pension benefits are automated. Complicated cases require manual calculation. The OA certifies all benefit calculations. All 415 calculations go to the OA one-year post-retirement at which time the necessary accounting adjustments are made since the member's benefits are not affected. NYCERS would like the OA to sign off on an automated program for benefit calculations so that individual calculations no longer require paper transmission of certification. We recommend that the OA consider such an arrangement which would ultimately free up OA resources for other uses.

The benefit computation process follows this general outline:

- Member files a retirement application in person by visiting the Client Services Center or by mail;
- Counseling is available upon request;
- Once retirement date arrives, the case is processed;
  - Service and member contributions are verified
  - Option letter is sent to member
- Member has 60 days to elect an option shown in the retirement application (otherwise the maximum benefit is paid);
- A PCEF file is transmitted to FISA monthly;
- Benefit is paid at 70% to 80% until finalization (based on certain formulas);
- Benefit Finalization typically occurs 2-3 months after retirement;
- Fifteen months after retirement, case is reviewed;
- OA sent case (electronically) to certify benefits; and
- OA prints out details, signs and messengers certified document back to NYCERS.

## **MEETING WITH THE NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM (NYCERS)**

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### **Security and Business Continuation**

NYCERS has a comprehensive disaster recovery plan that is practiced twice a year. Testing performed in April 2013 showed ability to get everything back up within 4 hours (reduced from 72 hours in previous testing), in part due to the Storage Area Network. The Mainframe powers up in an hour. An alternate location exists in Long Island City (with capacity for 150 employees) for running the operations in case of an emergency. In addition, vulnerability/penetration testing is performed on an annual basis. Data is kept secure by storing in a secure folder, with hardware encryption (VTL). All data transmissions use secure FTP. NYCERS employees cannot connect to servers through the Internet, and cell phone use is banned on premises. NYCERS addressed document imaging and scanning in June 2013. The document destruction/scanning policy incorporates a 9-month retention period and Bergen Street has a physical paper warehouse.

There are approximately 13 agencies/vendors involved with data for NYCERS. For each vendor or agency that NYCERS supplies data to, they enter into a contract where that agency/vendor assumes responsibility for data security once it is in their possession. NYCERS views the valuation data as owned by the OA.

***Summary Evaluation:*** The recordkeeping and data collection procedures used by NYCERS are generally sound and result in integrity of stored data that is generally good. Modernization of the data system is scheduled for FY2017. We recommend that NYCERS involve the OA in this process to ensure that all of the OA's data needs (and/or its wish list) are considered in the development of the new system. NYCERS is also currently exploring converting to virtual servers. We recommend that they consult with POLICE who are in the process of implementing virtual servers. We recommend that NYCERS consult with TRS on its security educational program for employees of the retirement system (during our tour in the First Engagement, we did see one or two employees who had their cell phones out on their desks).

### **Second Engagement Update**

NYCERS rolled out virtual desktops to improve efficiency.

## **MEETING WITH THE TEACHERS' RETIREMENT SYSTEM (TRS)**

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### **Data Processing for Valuation Files**

TRS has a data quality management group which recently updated practices for data completeness and accuracy. New TRS employees can easily pick up the data process due to file structure documentation and a processing sheet that lays out the sequence of data steps, user verification, etc. The whole function checks quality, using generic business rules and ranges. Data issues are resolved by going back to the source of the information, and checking the end results. Last year the system implemented secure file transfer (SFTP) through DoITT. TRS obtains human resource and salary data as of June 30 from the various employers covering TRS members, and receives a payroll file from FISA entered into the TRS database each payroll period. TRS uses the salary data and other available data on new members, withdrawals, member contributions and ITHP balances to create an active valuation file. The OA independently obtains salary data as of June 30<sup>th</sup> for TRS members from the Office of Personnel Administration (OPA), FISA, and miscellaneous employers covering TRS members. The OA uses this salary data to fill in any missing salary information in the data provided by TRS. The only group that does not send information to the OA is Charter Schools. TRS captures wage and salary data through an Interface System for those TRS members employed at Charter Schools. There is also a manual process to capture missing salary information and/or to reconcile data. This occurs because reported wages are not contractual salary. A project to further automate this process is underway.

TRS receives Charter School data in August and provides it to the OA in September. TRS is responsible for populating the data elements in PPMS and is the primary source of the data related to TRS members. It maintains data on terminations, deaths and new pensioners on its own system and sends that to the OA. The OA uses the information from TRS, PMS (and the other employers' data), and PPMS to develop the valuation files. The OA subjects the active and pensioner valuation files to thorough edit checks. The number of questions from the OA has decreased in recent years as the data process has improved. TRS finds value in the annual kick-off meeting with the OA, views the OA as colleagues, and works well with them via designated TRS and OA point persons. One example of the collaboration: after Hurricane Sandy, TRS employees used part of the OA's offices and facilities to provide member service (including processing retirements) due to the damage at 55 Water Street.

Data is sent by TRS to DOE and FISA electronically, and a retiree feed is prepared on a monthly basis. TRS supplied a list of vendors and has established secure methods of transmitting data to each vendor. Vendor security depends on the level of information transmitted, and a long and very detailed security clause ("Appendix A" of that document) is included in contracts. Once a month a death match is run on the active population, and deaths are double checked against City records. The retiree death match uses CHARMS.

### **Data Processing for Benefit Calculations**

The same database that is used to generate data for the OA is also used to develop Annual Benefit Statements (ABS), which serve as pension estimates for members. TRS notes that these are often compared to benefit estimates provided to members by the United Federation of

## **MEETING WITH THE TEACHERS' RETIREMENT SYSTEM (TRS)**

Teachers. Quarterly account statements are sent to all members. These include actual contributions, ITHP amounts, loan and variable account information. Account balances are available on-line for all members. On-line features are being enhanced to include TDA enrollment and other information, investment elections, changes in beneficiary designations and other information, changes of address, a loan calculator, loan applications and a benefit estimator.

The TRS website contains all data for pension calculations, along with many self-service features. A walk-in center is also highly utilized. Nearly all calculations of TRS' pension benefits are automated. Complicated cases require manual calculations. Eight TRS staff members perform and check calculations, and the OA separately verifies and certifies each benefit calculation. TRS sends the OA an electronic work list with a calculation sheet as an attachment to compare against OA calculations. The OA has on-line access to the TRS system for inquiry/approval for pension certifications as well as imaged records. Lastly, TRS notarizes and scans retirement application documents into the system. The usual timing is 3-4 months from member initiation of the retirement process to benefit finalization. The benefit computation process follows this general outline:

- Members walk in on 2<sup>nd</sup> floor to file application;
- Counselors review application with member and collect any additional information (such as age verification documentation);
- All documents get scanned and a workflow project is started;
- Once retirement date has passed, benefit calculations are preformed;
- TRS gives an initial advance payment of approximately 85% of calculated benefit;
- Benefit calculation is finalized within 3 to 4 months after effective date of retirement;
- A lump sum payment is made the month the benefit is finalized for the difference between what was paid and the actual benefit (interest may be paid at 5%, depending on the cause of the delay);
- Members must elect payment option on the application and can change the payment option up to 30 days from the effective date of retirement. TRS provides the retirement payment options and all other informative information on the Annual Benefits Statement; and
- OA logs into TRS' system to see case file and perform benefit certifications.

### **Security and Business Continuation**

Hurricane Sandy presented a 3-month test of the comprehensive disaster recovery and business continuation plans. TRS currently has a trailer solution for business continuation. Sandy exposed some weaknesses (and strengths) of the plan and TRS is developing revisions based on this experience.

### **Second Engagement Update**

TRS does periodic analysis of both policies and technology. They recently increased security staff and added additional roles based on recommendations from a security analysis company.

## **MEETING WITH THE TEACHERS' RETIREMENT SYSTEM (TRS)**

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A new position was created and filled – Information Security Officer – which has led to continuing focus on data security and recovery. The main data center is located in New Jersey. Data is backed up regularly. While 99% of the data that is electronically transmitted is encrypted, TRS uses Brooklyn City Storage for historical paper member case files (all incoming correspondence has been scanned since the 1990's). A retention policy is in place which details which records can be kept for how long.

TRS has recently made employee security education the focus of security enhancements. They have a well-developed program that educates TRS employees that security begins with them. This program includes a policy that prohibits charging of cell phones from employees' computers and a clear desk policy that requires sensitive information to be replaced in secure storage after usage. TRS is moving to a no paper policy but is not there yet. Although we applaud these policies, during our TRS Premises walk around we did see one desk with a cell phone violating the policy and we saw one area where boxes were stacked on the floor with member information waiting to be taken to offsite storage. We understand that these boxes could accumulate and sit on the floor anywhere from two to eight weeks before being taken offsite. Although we were told the floor was secure and the doors were locked with cameras at every door, there did not appear to be a substantial difference in the security of this portion of the office compared with the other portions of the office. We believe that having a clean desk policy while allowing boxes of sensitive material to accumulate on the floor seemed to be counter-productive. We recommend that the procedure of accumulating material for offsite storage be reviewed for consistency with the general security policies.

**Summary Evaluation:** TRS continues to use technology and experienced staff to provide complete valuation data to the OA. The data process works well, with the number of questions from the OA decreasing – perhaps due in part to the ABS, which provides a participant level check of the data. Providing on-line access to benefit calculation detail enhances communication. There is a comprehensive disaster recovery plan. Security, backup and disaster recovery procedures are sound. We discussed the following recommendations:

- Continuing to share TRS security and business continuity approaches with the other City Retirement Systems;
- Giving future actuarial auditors “modified” data that does not contain certain member-specific items (SSNs, dates of birth, etc.); and
- Translating laws relating to Tier VI into business rules.

We recommend that the Comptroller review the data security transfer language in the TRS vendor contracts (Appendix A) to determine if this language should be replicated for other contracts that involve transfers of member data (such as the Actuarial Auditor, and contracts through other agencies like Buck Consultants' contract through the OA).

We were impressed with the security education of TRS employees and recommend that information regarding this program be shared with the other Systems.

## **MEETING WITH THE BOARD OF EDUCATION RETIREMENT SYSTEM (BERS)**

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### **Data Processing for Valuation Files**

Prudential Financial, Inc. (Prudential) provides administrative recordkeeping services for BERS and plays a major role in providing valuation data to the OA. BERS sends active new member and withdrawal information to Prudential. Prudential collects information from PMS and enters data into the system for BERS' staff to review. Once BERS completes the review, Prudential sends the information to the OA.

Currently, once BERS and Prudential complete the review, Prudential sends the active valuation data to the OA for use in the valuation. The OA does not make many corrections, or do they request a reconciliation (the OA indicates that they do request a reconciliation). The active valuation file supplied by Prudential includes actual employee contribution and actual ITHP balances for Tiers 1 and 2 but does not contain data on minimum employee contributions and minimum ITHP balances. The OA estimates these fields for valuation purposes.

**Second Engagement Update** -- BERS provided an estimate of required amounts for Tier 1 and Tier 2 based on a sample for the 2014 valuation and is working with the OA to improve this reporting. The OA gets the retiree data from PPMS.

BERS has hired Vitech to develop a replacement system that will be run in-house -- the Comprehensive Pension Management System (CPMS). The new system will be more flexible than the current system. It will also give staff greater control and eliminate reliance on Prudential.

**Second Engagement Update** -- The estimated live date for the new system is currently February 2016.

BERS does not employ a formal set of business rules to verify data. They do verify data against the members' case files. In addition, they have monthly reconciliation procedures performed by its Fiscal Operation Department to ensure that BERS agrees with the Comptroller's Office for fiscal integrity. In addition, BERS has a Quality Assurance unit that ensures proper posting of members' accounts for payroll and lump sum contributions. There are a lot of part-time members. These members present a challenge because the definition of part-time status varies based on employment category. Service data comes from the DOE. For some members, BERS is able to compare service against digital records but for others it has to compare it against paper records. As a result, providing reliable service information for part-time members in the timeframe for the valuation has been difficult. Therefore, the OA uses actual pay and annualized service even though the benefit is based on annualized pay and actual service. BERS has performed an extensive study on the Department of Education's part-time workers and has created a solution within CPMS that will assist in providing more reliable service information to the OA.

## **MEETING WITH THE BOARD OF EDUCATION RETIREMENT SYSTEM (BERS)**

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Not all new DOE employees are automatically added to membership. Some employees are mandated members of BERS. These members are added to BERS membership either when they sign up or when they appear on payroll. They are added retro-actively to their date of hire. Membership for other employees is optional. These employees do not become BERS members until they apply to join. These members can buy back service to their date of hire (any time after becoming a member of BERS).

Communication between the OA and BERS is open and on very good terms. The data request provided by the OA is clear and sufficient for staff. The data request together with the annual kick-off meetings provides BERS with all the information they need to respond to the data request.

GRS recommends that BERS and OA meet as soon as possible to ensure that the new Vitech system provides all the data requirements of the OA.

### **Second Engagement Update**

The OA has representatives on a steering committee for the new system and has been given the opportunity (and continues to have the opportunity) to provide input on the new system.

### **Data Processing for Benefit Calculations**

Pension calculations are done in-house using BERS benefit calculation software and sent to the OA for certification in the form of a hard copy. BERS identifies cases that are over IRC 401(a)(17) and 415 limits for the OA. The OA computes TDA annuitizations, if that option is elected. BERS would like to streamline the certification process. They have reached out to the OA to see if there are options available other than having the OA certify every calculation, such as certifying samples or certifying a program. There is a 4-5 week turnaround for certifications.

### **Second Engagement Update**

Approximately 75% of members have settled their expired contracts, however, the retro payments have not been made so there are still a lot of recalculations to be performed. BERS expects to handle these recalculations with current staff and overtime. There are still ongoing discussions regarding the handling of the deferred retro payments in the benefit recalculations. BERS has been meeting with the OA and legal to discuss this issue.

### **Security and Business Continuation**

BERS follows the Department of Information Technology and Telecommunications (DoITT) security processes. BERS, however, vaults data which is available for 1 year. Backups are performed daily, monthly and annually. Iron Mountain is used for offsite storage and back-up. There is no formal physical relocation plan (part of a business continuity plan). However, BERS



## **MEETING WITH THE BOARD OF EDUCATION RETIREMENT SYSTEM (BERS)**

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hosted some TRS staff after Hurricane Sandy. BERS is currently working with DoITT on tying BERS' backup disaster recover connectivity to DoITT's backup data center location.

**Second Engagement Update** -- BERS is currently working on the development of a draft disaster recovery plan.

BERS only has two vendors/agencies in which they share member data with: the OA and Prudential (which will be replaced once the new Vitech system becomes operational).

***Summary Evaluation:*** The recordkeeping and data collection procedures used by BERS are generally sound and result in integrity of data reported to the OA that is good with the exception of part-time service. We recommend that this data be reviewed for the new system (CPMS) with the goal of being able to provide part-time service to the OA for the annual valuations. BERS security, business continuation and disaster recovery plans lag behind NYCERS, TRS and POLICE. We recommend BERS review and update these areas and reach out to the other Systems for information on what has worked and not worked (for each System) during Hurricane Sandy. BERS has indicated that security planning, beginning with an independent security assessment, has been recommended for inclusion in the budget. Business continuation and disaster recovery planning are being developed and incorporated into CPMS.

## **MEETING WITH POLICE PENSION FUND (POLICE)**

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### **Data Processing for Valuation Files**

Initiated in 2005, the Comprehensive Officer Pension System (“COPS”) contains records of all POLICE active members, with the exception of a very small subset (five Tier I members). COPS receives automated feeds from payroll/Police Department (PD) as well as from the Business Units. POLICE performs initial checks on the information entered by the various PDs, and communicates its findings back to the PD. Each COPS module was designed with built-in business rules to validate entries. Retirement information is entered into PPMS by POLICE.

A set of batch programs produce the data requested by the OA. Data processing for the OA is completed during August or September. The OA provides support to POLICE through effective open communication, which consists of monthly meetings with the OA and legal counsel. One item on the POLICE wish list is to set up FTP for sending files to the OA (staff was uncertain if this had already been utilized for the 2013 valuation).

### **Data Processing for Benefit Calculations**

With respect to the benefit calculation process – all members other than Tier III members have a 30-day notice requirement, and interested members call for a one hour appointment with one of eight available counselors. Packets are sent to potential retirees in advance of the meeting and contain double-checked information. Potential retirees leave the meeting knowing what their initial pension check amount (90% of their estimated final benefit) will be. Paper Annual Benefit Statements (ABS) are sent to all active members which help with general education as well as making members very aware of their benefit amounts. The statements were revised to include service data, which led to this quote from the meeting, “[this is the] best auditing tool we have.” As a result of member feedback on erroneous service data in the ABS, service data has improved dramatically. The biggest transaction relates to beneficiary updates after the ABS. However, pre-COPS deferred vested members do not receive an ABS, and there is no way to verify this information. A particular POLICE staff member finalizes all calculations and forwards to the OA via courier for verification. Less than 8% of members elect a beneficiary option in part due to early ages at retirement but also because there is a perception that the System overcharges for options. From member initiation of retirement process to benefit finalization is normally a 2-3 month process. A training manual with business processes is available.

In order to avoid recalculation of the pension benefit, POLICE waits until contract settlement to perform the final pension calculation. The backlog currently stands at 4,500 (**Second Engagement Update** -- 6,000) pension calculations. The COPS system has increased available bandwidth (the amount of data that can be processed at one time) to address backlogs once contracts are ratified. Also, the delay in benefit-finalization due to expired contracts result in the “death gamble” benefit being operational for a much longer time than would be the case if contracts were settled sooner.

## **MEETING WITH THE POLICE PENSION FUND (POLICE)**

**Second Engagement Update** -- Captains and above have a tentative agreement. This represents less than 25% of the group. The recalculations will start once members receive their payments. There is also a new terminal leave buyout component that will add complications to the calculations.

The benefit computation follows this general outline:

- Tier 2 members give 30-day notice of retirement (Tier 3 members are not required to give 30 day notice);
- Member makes an appointment with a retirement counselor (walk-ins are available also);
- A retirement package is sent prior to the counseling session (or are provided at session if walking in);
- Counseling takes one to two and a half hours – member services reviews case folder for accuracy and documentation. Member leaves with an estimate of their initial pension check amount, usually 90% of the estimated final benefit; and
- POLICE computes estimate with estimated options and final without options. OA calculates all final options and IRC 415 limits (only 7% to 8% of members elect options).

### **Security and Business Continuation**

POLICE feel they are on the leading edge of security. All paper documents are imaged, legal documents are put on CD-ROM and are available on-line, and microfilm is converted to pdf. There are daily backup procedures and backup tapes are sent on a weekly basis for storage at an offsite location. There is a disaster recovery site on Staten Island (and a high speed line between the Manhattan and Staten Island offices) complete with a work area consisting of 50 workstations and this location will soon house the data center. POLICE have a 12-person IT staff that is converting the system from physical to 57 virtual servers concurrently running. Disaster recovery is tested twice each year. Penetration testing is periodically performed (not on a regular schedule). Access to network is via fingerprint (no passwords). Since 2007, backup tapes are encrypted and stored offsite at GRM. Older tapes are not encrypted and are stored onsite in a Houdini safe. Internet access is segregated from network access and VPN is not provided (except to a handful of IT employees).

During Hurricane Sandy, POLICE discovered an issue with its process: the backup servers required a manual boot up. However, no one was onsite and access to the backup servers was restricted due to the flooding. This resulted in POLICE pursuing conversion to virtual servers with the servers split between the primary location and the disaster recovery (offsite) location. The POLICE Disaster Recovery location is on Staten Island and has three sources of power supply.

## **MEETING WITH THE POLICE PENSION FUND (POLICE)**

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### **Second Engagement Update**

This redesign is approximately 89% completed. With the redesign, the data center will now be on Staten Island and POLICE will be the backup data center. The facility on Staten Island will be the disaster recovery site. It can hold the entire staff in three shifts along with three counseling sites. The Disaster Recovery redesign is expected to be completed by June 2015.

**Summary Evaluation:** POLICE interacts well with the OA, and should pursue FTP transmission of data, if this has not already been accomplished. POLICE technology and security procedures are quite sound. Data is backed up and backup tapes are stored offsite. POLICE is extensively audited, undergoing several audits: from the Comptroller, internally, the Office of the Actuary, and from the State of New York. POLICE should share information regarding its virtual servers/disaster recovery with the other Systems. POLICE should review NYCERS paperless process to see if there are enhancements from the NYCERS System that would benefit them. POLICE should review TRS security education program to see if there is benefit in adopting a similar program.

## **MEETING WITH THE FIRE PENSION FUND (FIRE)**

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### **Data Processing for Valuation Files**

FIRE receives data from PMS in ASCII format through SFTP and loads data into the Employee Payroll Information Systems (“EPIS”). Data integrity is checked before loading into the FDNY data warehouse database. Valuation data is handled by BTDS – a computer group that is part of the Fire Department. The OA requests salary information for FIRE active members from FISA. OA also receives from FIRE files of new members, withdrawals, member contributions and a list of vested terminated members. The OA validates the new member, withdrawal and member contribution files. The OA then uses these validated files to update the prior year’s active valuation file and create a valuation file for the current year.

The OA obtains pensioner payroll information from PPMS. FIRE sends the OA a file of pensioners who terminated pension status during the year. The OA creates a Pensioner-Only/Beneficiary-Only file (PO/BO file) based on a listing of pensioners and beneficiaries who died during the year which is supplied by FIRE. The OA creates a New Pensioner file during the year as a by-product of its benefit calculation process. At valuation time, the OA validates the pensioner payroll, termination, PO/BO and new pensioner files and uses them to update the prior year’s pensioner file and creates a pensioner file for the current year. The OA then conducts a comprehensive validation of the pensioner file.

FIRE examines all of the valuation data using extensive edit procedures before sending it to the OA. Data processing is usually completed in September.

### **Data Processing for Benefit Calculations**

FIRE provides annual benefit statements to all employees via its secure Intranet, no longer in the form of a hard copy. Comprehensive information is provided, including the actual employee contribution balance, the ITHP balance, and other items. Pension estimates are also available and includes beneficiaries and Tier III Members. FIRE provides one individual counseling session at the retirement desk and also hosts monthly 5-6 hour seminars on retirement procedures/processes.

FIRE does all pension calculations other than QDRO and Option IV annuity which are calculated by the OA. The retirement process is initiated by the member who submits retirement application via chain of command – printing the required forms from the home page of the Intranet. If retirement date is the first to fifteenth of the month, they are given a partial payment at the end of that month (if sixteenth or later, partial payment at end of next month). At present, no pension is finalized until contracts are settled. Once contracts are settled, FIRE will calculate the final benefits and send each retiree their Option figures (about 8% elect options). Retirees respond within 60 days, and once received, FIRE sends the benefit calculation figures to the OA for certification via department messenger. Within two weeks, OA sends the certifications back. Similar to POLICE, the delay in benefit-finalization due to expired contracts result in the “death gamble” benefit being operational for a much longer time than would be the case if the contracts had been settled sooner.

## **MEETING WITH THE FIRE PENSION FUND (FIRE)**

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### **Second Engagement Update**

Fire Officers (approximately 25% of the membership) have a tentative settlement. The first 10 months of the settlement period calls for a 0% increase, therefore FIRE has been able to start finalization process for members who retired in that period. However, they have to wait until the settlement is approved before completing the process. The Police Officers (members of POLICE) are under binding arbitration. Other FIRE members will likely settle after the Police Officer binding arbitration.

Current staff will work overtime to handle the recalculations. However, FIRE would like to increase staff for both pension and IT. Currently, FIRE is allocated two of the Fire Department IT staff. FIRE would like its own IT department (staff and equipment) and we concur that having its own IT department would be preferable.

### **Security and Business Continuation**

FIRE has a disaster recovery plan and backup procedures. However, tapes from the mainframe are stored in a FIRE office building one block away from the primary location. Hard copies are stored on site. FIRE's wish list includes a Disaster Recovery Site and a transition from paper physical files to electronic files.

**Summary Evaluation:** The recordkeeping and data collection procedures used by FIRE are generally sound and result in integrity of data provided to the OA that is generally good. FIRE follows a disaster recovery plan. However, there is a problem with the storage of backed up data that is stored at a location not sufficiently distant from the primary location. In addition, due to very stringent budget restrictions FIRE sometimes finds itself short on resources.

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## **APENDIX 2**

### **SAMPLE EMPLOYEE RECORD ANALYSIS**

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## SAMPLE EMPLOYEE RECORD ANALYSIS

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As part of the Administrative Review, we brought sample data from the valuation files provided by the OA. The data was intended to represent a sampling of each System. The goal was to compare the data actually used in the valuation with the data that each System had on file. Data elements reviewed included dates of birth, dates of hire, salary and/or pension amounts, member contribution balances and/or annuity amounts, etc. For each meeting, GRS brought sample data for 10-15 members of the System (actives, retirees and terminated vested). At the end of each meeting, GRS worked with a designated representative of the System to review the sample data against data maintained (or accessible) by the System.

The review indicated that the data that was used in the June 30, 2010 actuarial valuation was appropriate for that purpose and was representative of data contained in each Systems' data system. We note the following three general issues:

- Some Systems did not seem to have a complete record of June 30, 2010 "valuation data" provided to the OA;
- During our visit on January 16, 2014, accessing data in the past (i.e., 6/30/2010) was particularly challenging for the POLICE. Much of the sample data for the POLICE was not able to be found on-site; and
- Data elements even within a particular member category (e.g., active) were often found within different databases/sources. Often times, the System representative needed to bring in other System data experts to find certain data elements (e.g., member contribution balances as of 6/30/2010).

In addition, we note the following System specific issues:

### TRS

- Service amounts as of June 30, 2010 accessed by the TRS System representatives were in some cases higher than the service amounts in the GRS sample data. It was later determined that the System data reflected Chapter 126 service. The programming used by GRS to attempt to replicate TRS valuation results, adds the estimated amount of Chapter 126 service to the service provided in the OA's valuation data. Upon review of the calculated service for these individuals within the GRS valuation programs, we confirmed that there is agreement between the service accessed by TRS representatives and the service ultimately used in the TRS valuation by the OA; and
- For one of the retirees the data from the OA's valuation file indicated the percentage of benefit continued to the beneficiary was 25%. The data files accessed by the TRS representative indicated it was 5%. TRS has indicated that the member could have retired long ago prior to the implementation of UPS and the benefit might have been calculated manually and entered incorrectly since there is no payment option of 5%.



## SAMPLE EMPLOYEE RECORD ANALYSIS

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### NYCERS

- For one active member the NYCERS data showed service in excess of the service in the sample data (28 years versus 19 years). The NYCERS' staff indicated this member had purchased prior service that was not reflected in the data sent to the OA.

**Conclusion:** Data used in the valuation is appropriate for valuation purposes and is a fair representation of actual member data. We recommend the following:

- Each of the Systems should put a mechanism in place that allows for easier data verification. Since this is a routine part of the process (both for the biennial Actuarial Audit performed through the Comptroller's Office and by each System's outside auditor), this process should be streamlined. With a streamlined process, verification could be performed at greater depths; and
- Historical information sent to the OA should be maintained until after completion of the Actuarial Audit.

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### **Second Engagement Update**

Similar to the First Engagement process described above, we brought sample data from the June 30, 2012 valuation files provided by the OA which represented a sampling of each System. Again we compared the data actually used in the valuation with the data that each System had on file. Data elements reviewed included dates of birth, dates of hire, salary and/or pension amounts, member contribution balances and/or annuity amounts, etc. For each meeting, GRS brought sample data for 10-15 members of the System (actives, retirees and terminated vested) and worked with designated representatives of each System to review the sample data against data maintained (or accessible) by the System.

The review indicated that the data used in the June 30, 2012 actuarial valuation was appropriate for that purpose and represented data contained in each Systems' data system.

We noted the following three general issues in the First Engagement and provide updates (underlined) from the second engagement below:

- Some Systems did not seem to have a complete record of June 30, 2010 "valuation data" provided to the OA; → generally not an issue with respect to June 30, 2012 valuation data review, perhaps due to closer proximity of the valuation date to the audit. Some of the active information was hard to track precisely due to data systems being "real time", but basic information was verified.
- During our visit on January 16, 2014, accessing data in the past (i.e., 6/30/2010) was particularly challenging for the POLICE. Much of the sample data for the POLICE was not able to be found on site; → not an issue with respect to June 30, 2012 valuation data review.
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## **SAMPLE EMPLOYEE RECORD ANALYSIS**

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- Data elements even within a particular member category (e.g., active) were often found within different databases/sources. Often times, the System representative needed to bring in other System data experts to find certain data elements (e.g., member contribution balances as of 6/30/2010). → still relevant, but generally System representatives were able to quickly find information in other databases that they could access.

### System specific notes:

#### TRS

- Chapter 126 service represented on the valuation file for one member was off by one year. The future valuation file will include the equivalent of 720 days of Chapter 126 service credit for this member because of transfer service recently credited.

For another member, the valuation file did not reflect the member contributions as represented in previous year file or subsequent years file. TRS was able to confirm that the information was provided to the OA in a separate file as a production issue.

### **Second Engagement Update**

**Conclusion:** Data used in the June 30, 2012 valuation is appropriate for valuation purposes and is a fair representation of actual member data. We continue to recommend the following:

- Each of the Systems should put a mechanism in place that allows for easier data verification. Since this is a routine part of the process (both for the bi-annual Actuarial Audit performed through the Comptroller's Office and by each System's outside auditor), this process should be streamlined. With a streamlined process, verification could be performed at greater depths; and
- Historical information sent to the OA should be maintained until after completion of the Actuarial Audit.

**NEW YORK CITY RETIREMENT SYSTEMS**  
ACTUARIAL AUDIT OF EMPLOYER CONTRIBUTIONS FOR  
FISCAL YEAR 2014  
(JUNE 30, 2012 LAG VALUATION)

Prepared by:  
Gabriel, Roeder, Smith & Company  
October 2015

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A.	Executive Summary
B.	Discussion of Methods and Findings Related to All Systems
C.	GRS Replications and Findings by System

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## **SECTION A**

### **EXECUTIVE SUMMARY**

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## EXECUTIVE SUMMARY

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### Background

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of the following five actuarial pension funds (collectively NYCERS or the Systems):

- New York City Employees' Retirement System (NYCERS)
- Teachers' Retirement System of the City of New York (TRS)
- Board of Education Retirement System of the City of New York (BERS)
- New York City Police Pension Fund (POLICE)
- New York Fire Department Pension Fund (FIRE)

GRS will conduct two consecutive biennial actuarial engagements, encompassing the following:

- Biennial Contribution Audits of the computed employer contributions for each System in NYCERS for fiscal years 2012 and 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Biennial Experience Studies for the periods ending June 30, 2011 and June 30, 2013, for each System in NYCERS;
- Two Administrative Reviews of the data gathering and maintenance practices of the Office of the Actuary (OA) and each System in NYCERS (one review corresponding with each Contribution Audit); and
- Two Independent Actuarial Statements (one for each engagement); GRS, as the independent actuarial auditor, will submit a statement that will briefly describe the scope of the entire engagement, will review the entire engagement and comment on the financial condition and financing progress and policies of each System, and certify that the Systems are being funded on a sound actuarial, financial, and legal basis.

This report constitutes the deliverable with respect to the **Actuarial Audit of the Employer Contributions for Fiscal Year 2014 and the underlying derivations of valuation assets and liabilities.**

The purposes of this audit are to:

- verify that the employer contributions calculated by the OA are accurate, appropriate and reasonable;
- verify that the actuarial liabilities and actuarial values of assets have been computed using actuarial assumptions and methods that have been approved by each System's Board of Trustees and conform to applicable laws and generally accepted Actuarial Standards of Practice;
- verify that the actuarial software is operating accurately;
- review methods and assumptions for general reasonableness; and
- recommend changes that improve the annual valuation calculations.

## **EXECUTIVE SUMMARY (CONTINUED)**

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The Actuarial Contribution Audit provides an independent verification of the computation of employer pension contributions – including the methodologies used therein and their conformity to law and generally accepted actuarial principles – for the fiscal years 2012 and 2014. The Experience Studies review and comment on the continued appropriateness of the actuarial assumptions used in the computations of employer contributions and identify areas where assumptions may be improved. The Administrative Review evaluates the actuarial data gathering process to ensure that the data collection methods produce sufficiently accurate data for valuation and Experience Study purposes. Thus the three components of the assignment provide assurance that:

- Assets and liabilities are calculated accurately, using appropriate actuarial assumptions and methods, and are based on sufficient and accurate census data; and
- Employer contribution amounts are computed in conformity with all applicable financial, actuarial and statutory requirements.

### **Organization of this Report**

This report is divided into the following sections:

<b><u>Section A</u></b>	Executive Summary
<b><u>Section B</u></b>	Discussion of Methods and Findings Related to all Systems
<b><u>Section C</u></b>	GRS Replications and Findings by System

### **Actuarial Audit Process**

The actuarial audits begin with the collection of member data, plan benefit provisions and financial information. After gathering and understanding all the relevant data, GRS then performed replication valuations to independently calculate valuation assets, liabilities and employer contributions. Once GRS had developed the base valuations, we then reviewed calculations for over 150 individual test lives. The review of the test lives helped identify those areas of the GRS valuation model that differed from the OA’s valuation model. In the first engagement the test life reviews resulted in the identification of recommended changes (such as programming inconsistencies or assumptions that had not been updated in accordance with the 2012 A&M). During the second engagement, we used the test life review to determine if any of the recommendations from the first engagement had been implemented (or were still outstanding). As shown in the detail section for each System, many of the issues identified in test life review from the first engagement had not been implemented in the June 30, 2012 actuarial valuation and are included as recommendations in this engagement. For the second engagement GRS requested 300 – 400 test life cases (less than ½% of the entire group) in July 2014. Most were actives from NYCERS which has more than 100 different benefit plans. The OA provided test cases to GRS weekly over the next 7 months. In January 2015 the OA asked if they could stop sending test cases and GRS acquiesced, since the remaining issues did not have a material effect on our ability to replicate the valuation results. Those items indicated as “outstanding status unconfirmed” are items for which we did not receive test cases in order to determine if the issue was resolved.

## EXECUTIVE SUMMARY (CONTINUED)

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Once the GRS valuation model was completed, results were compared to the OA's and tested against pre-established tolerances. The comparisons of those tolerances are contained in the body of this report. The process can be summarized in the following steps:

1. Collect data:
  - a. Member data used by the OA
  - b. Summary of benefits valued by the OA
  - c. Financial data used by the OA
2. Review plan benefit documentation to independently determine the plan benefits to be valued, including:
  - a. Applicable laws
  - b. Plan documents and benefit summaries developed by the Systems and posted on their websites
  - c. Plan benefit summaries included in the Systems' CAFRs
3. Obtain the actuarial assumptions and methods used in the OA's valuation and independently confirm their applicability, validity and appropriateness
4. Perform independent valuations for each System using GRS' proprietary software and OA's data, assumptions and methods
5. Compare GRS' results with the OA's and identify and investigate areas of significant differences
6. Compare GRS' valuation of test cases with those of the OA's and identify and investigate areas of significant differences
7. Refine GRS' valuation model based on investigations of differences in results
8. Compare GRS valuation results to OA valuation results and test against tolerances
9. Recommend changes, as deemed appropriate by GRS

### **Results**

This was the second actuarial audit since the implementation of the 2012 A&M (Actuarial Assumptions and Methods). One of the changes that was part of the 2012 A&M was a change in the actuarial cost method from the Frozen Initial Liability (FIL) Actuarial Cost Method to the Entry Age (EA) Actuarial Cost Method. As a result of this change in actuarial cost methods, there are more components in the actuarial audit of liabilities to replicate (as was the case with the first actuarial audit). The components reviewed include:

- the Present Value of Future Expected Benefits (PVFB)
- the Actuarial Value of Assets (AVA)
- the Present Value of Future Normal Cost (PVFNC)
- the Actuarial Accrued Liability (AAL)
- the Unfunded Actuarial Accrued Liability (UAAL)
- the amortization charges
- the Total Employer Contribution



## EXECUTIVE SUMMARY (CONTINUED)

The “PVFB” represents the present value of all future benefits (those that have accrued and those that are expected to accrue in the future) to be paid from the Systems to current active plan members. Under the FIL Actuarial Cost Method, the PVFB less the assets less the frozen unfunded liability (for which there is a payment schedule) is spread over the future working lifetime of the current active population to develop a normal cost. The normal cost is then added to the payment for the unfunded liability and the expenses to develop the employer contributions. Therefore, prior actuarial audits focused on the calculations of the PVFB and the employer contributions.

Under the Entry Age Actuarial Cost Method, each individual member’s PVFB at entry age is financed from entry age to exit from active service as a level percent of that member’s expected pay (from entry age to exit from active service) to develop the Normal Costs. The Present Value of Future Normal Costs (PVFNC) on the valuation date is subtracted from the PVFB on the valuation date to determine the Actuarial Accrued Liability (AAL). The AAL can also be thought of as the present value of past normal costs (adjusted for survival and benefit payments). Therefore, under the EA Actuarial Cost Method, the PVFB again is the main result and the PVFNC and the AAL represent allocations of the PVFB between past and future costs. Different allocations between the PVFNC and the AAL may or may not result in different employer contributions, over the short term, depending on the relationship between the amortization periods for financing UAAL and the average career length of a new entrant. As a result, auditing tolerances are usually wider for the cost components other than the PVFB (cost components exclude the AVA). The following table shows a summary of the results of the actuarial audit relative to the PVFB and the employer contributions for FY 2014.

<b>Comparison of OA and GRS Valuation Results</b>						
<b>(\$ Millions)</b>						
<b>System</b>	<b>Category</b>	<b>OA Results</b>	<b>GRS Results</b>	<b>Percent Difference</b>	<b>Tolerance Limit</b>	<b>Pass/Fail</b>
NYCERS	PVFB	\$ 82,953	\$ 81,989	1.18%	2.00%	Pass
	Employer Contribution	\$ 3,114	\$ 3,040	2.43%	5.00%	Pass
TRS	PVFB	\$ 71,837	\$ 71,133	0.99%	2.00%	Pass
	Employer Contribution	\$ 2,999	\$ 2,895	3.59%	5.00%	Pass
BERS	PVFB	\$ 5,028	\$ 5,023	0.10%	2.00%	Pass
	Employer Contribution	\$ 215	\$ 216	-0.46%	5.00%	Pass
POLICE	PVFB	\$ 53,626	\$ 53,363	0.49%	2.00%	Pass
	Employer Contribution	\$ 2,321	\$ 2,262	2.61%	5.00%	Pass
FIRE	PVFB	\$ 20,966	\$ 20,867	0.47%	2.00%	Pass
	Employer Contribution	\$ 970	\$ 963	0.73%	5.00%	Pass
Total	PVFB	\$ 234,410	\$ 232,375	0.88%		
	Employer Contribution	\$ 9,619	\$ 9,376	2.59%		

## **EXECUTIVE SUMMARY (CONTINUED)**

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Under the Entry Age Actuarial Cost Method, the PVFB is allocated between past and future service – Actuarial Accrued Liability (AAL) and Present Value of Future Normal Cost (PVFNC). GRS had difficulty replicating the OA’s allocation between AAL and PVFNC for NYCERS, TRS and BERS during the first engagement. During the second engagement, it was determined (by looking closer at test case calculations and later confirmed by the OA) that the OA was leveling the member contributions over each member’s entire career when determining the employer financed portion of the normal cost. This mainly affects the computation of the liabilities and normal costs of the civilian plans due to the shorter duration of member contributions. While this is an acceptable approach, we found no documentation describing this approach in the materials provided to us by the OA (or in the System CAFRs). We adjusted for this variation in the second engagement and our resulting computations of normal costs and accrued liabilities became much closer to the computations of the OA.

Based on these results, GRS has confirmed that the OA’s calculations of the employer contributions for all Systems were reasonable and appropriate.

### **Summary of Recommendations/Findings**

Applicable to all Systems:

1. Produce formal actuarial reports for all Systems
2. Describe the leveling of member contributions (over each member’s career) in the determination of the employer normal cost in any description of the actuarial cost method
3. Consider the use of a corridor around the market value in the development of the actuarial value of assets
4. Consider changes to the One Year Lag Methodology (OYLM)
5. Review the assumed benefit commencement date for deferred vested members for consistency between the valuation of the vested decrement for current active members (who are assumed to become deferred vested in the future) and the valuation of the current deferred vested members

## **EXECUTIVE SUMMARY (CONTINUED)**

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### **Summary of Recommendations/Findings (continued)**

#### **NYCERS:**

6. Review administrative expenses in the development of the Actuarial Value of Assets (AVA)
7. Review programming for treatment of active members that are over 75 on the valuation date
8. Review calculations of liabilities for the vesting decrement for active members (liabilities for current active members assumed to quit with deferred benefits in the future)
9. Review the use of “default plan” provisions to value certain NYCERS members
10. Update the mortality for Transit beneficiaries to the tables adopted with the 2012 A&M (outstanding status unconfirmed)

#### **TRS:**

11. Review method of accounting for the TDA Fixed Funds in the development of the AVA
12. Review rounding of service for active members
13. Review programming of probabilities of termination on and after 20 years of service – rates shown in test life cases appear to indicate that these probabilities were rounded to the nearest 1%

#### **BERS:**

14. Review the amount of the assumed COLA in the first year after the valuation for members with \$0 reported in the maximum allowance field
15. Review the allocation of the liabilities to the vested decrement for Tier I and Tier II
16. Continue to work with BERS to improve the reporting of valuation data related to part-time members

#### **POLICE:**

17. Review the assumed age of commencement for current deferred vested members
18. Review the development of the RASF (required member contributions) used in the entry age pass and reprogram accordingly

#### **FIRE:**

19. Review the assumed age of commencement for current deferred vested members
20. Value benefits (and liabilities) associated with “other service”
21. Review modeling of Auto COLA for certain beneficiaries

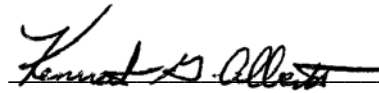
## EXECUTIVE SUMMARY (CONCLUDED)

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We would like to thank the OA for their cooperation.

James D. Anderson and Heidi G. Barry are Members of the American Academy of Actuaries (M.A.A.A) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

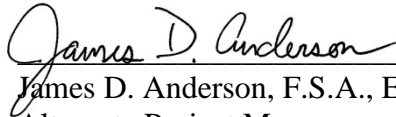
Respectfully submitted,



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October 23, 2015  
Date

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## **SECTION B**

DISCUSSION OF METHODS AND FINDINGS  
RELATED TO ALL SYSTEMS

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## DISCUSSION OF METHODS

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### General Comments

Each contribution audit begins with a replication of the valuation. However, a complete replication is not the end goal. The replication is performed to gain an understanding of the methods used by the OA and to verify that the independent auditing actuary can replicate results within reasonable tolerances based on the methods and assumptions described by the OA. Once the replication has been achieved, the auditing actuary must then evaluate the methods and assumptions to determine if the auditing actuary agrees with their use and/or recommends any changes.

### Tolerances

While every valuation system will have some differences, these differences should generally be minor, especially in the aggregate. Replication of results within 2%-5% is generally viewed as a successful replication. However, different aspects of the replication may be farther away than others due to differences in valuation programs. For purposes of this audit, GRS has determined that a successful replication will occur if one of two tests is passed. The first test is an individual test. Using retirees and beneficiaries (R&B's) as an example: this test will be passed if the difference between the OA's computation of Present Value of Future Benefits (PVFB) for R&B's and the GRS' computation of the PVFB for R&B's is within a specified tolerance of the OA computation of PVFB for R&B's. The second test is an aggregate test. This test will be passed if the difference between the OA's computation of PVFB for R&B's and the GRS' computation of PVFB for R&B's is within a specified tolerance of the total PVFB for the entire System. The chart below illustrates the tolerances for this engagement:

Category	Individual Tolerance	Aggregate Tolerance
Present Value of Benefits by Category	2.0%	0.5% of Total Present Value of Benefits
Accrued Liability by Category	5.0%	5.0% of Total Accrued Liability
Normal Cost	5.0%	n/a
Computed Contribution	5.0%	5.0% of Total Contribution

It is not uncommon for the differences in actuarial accrued liabilities and normal costs to be in opposite directions (the auditing actuary's accrued liabilities are greater, but the normal costs are lower or vice-versa). This can happen due to minor differences in the way valuation systems allocate the present value of benefits between the past and the future. Because of this, the tolerance range on accrued liabilities is larger than on the present value of benefits. Such differences will frequently be offsetting, resulting in a computed contribution that differs by less than 5%.

### Testing of Individual Member Calculations

As part of the process, the auditing actuary will also look at detailed calculations for specific individuals included in the valuations (known as test lives). There are no specific tolerances used by GRS in the comparison of test lives. Small differences in the rounding of ages or the treatment of

service can create large differences in test life results that could be offsetting when looking at aggregate results for the System (or even total results for all the test lives of the System). The test lives are useful for verifying that benefits are generally computed in the same manner and that assumptions are applied in the same manner. In general, when we identified substantial differences in test life results we attempted to spot differences in the intricate details of the valuation calculations. In the first engagement, these differences led to the identification of minor differences between what the OA identified as their valuation assumptions and what was used in the valuations in certain cases, such as retiree mortality tables being used to value beneficiaries in BERS and certain NYCERS groups and rounded probabilities of withdrawal used in the TRS valuation. In this (the second) engagement, the test lives were used to verify which of the issues identified in the first engagement were still outstanding and to confirm that no new issues arose.

### **Actuarial Value of Assets Method**

#### Method Description

The actuarial value of asset method used in the valuations for all of the Systems is as follows:

Assumed investment return (currently 7%) is recognized immediately. Recognition of the difference between the assumed investment return and the actual investment return (on a market value basis) is phased into the actuarial value of assets. The schedule of recognition is 15% in the first year following the investment gain or loss, followed by recognition of 15%, 15%, 15%, 20% and 20% in the following five years. There is no corridor around the market value of assets within which the actuarial value must fall.

As part of the 2012 A&M, the actuarial value of assets was reset to the market value. However, the method was not changed and will continue to be used in future valuations, after the restart date. Due to the timing of the completion of the silver books and the valuations, the investment return results for FY 2011 were already known. The Actuary decided to reset the actuarial value of assets to the market value as of June 30, 2011.

#### Audit Comments

Most public sector plans use an asset smoothing period that ranges between 3 and 5 years. Some public sector pension plans use shorter periods, some plans use longer periods and a few plans use market values with no smoothing. Although the OA uses a longer period than is common in the public sector, we believe the method complies with the Actuarial Standard of Practice (ASOP) No. 44, which discusses the selection and use of asset valuation methods for pension valuations.

Section 3.3 of ASOP 44 states, in part:

“3.3 Selecting Methods Other Than Market Value – If the considerations in section 3.2 have led the actuary to conclude that an asset valuation method other than market value may be appropriate, the actuary should select an asset valuation method that is designed to produce actuarial values of assets that bear a reasonable relationship to the corresponding market values. The qualities of such an asset valuation method include the following:

- a. The asset valuation method is likely to produce actuarial values of assets that are sometimes greater than and sometimes less than the corresponding market values.
- b. The asset valuation method is likely to produce actuarial values of assets that, in the actuary's professional judgment, satisfy both of the following:
  1. The asset values fall within a reasonable range around the corresponding market values. For example, there might be a corridor centered at market value, outside of which the actuarial value of assets may not fall, in order to assure that the difference from market value is not greater than the actuary deems reasonable.
  2. Any differences between the actuarial value of assets and the market value are recognized within a reasonable period of time. For example, the actuary might use a method where the actuarial value of assets converges toward market value at a pace that the actuary deems reasonable, if the investment return assumption is realized in future periods.

In lieu of satisfying both (1) and (2) above, an asset valuation method could satisfy section 3.3(b) if, in the actuary's professional judgment, the asset valuation method either (i) produces values within a sufficiently narrow range around market value or (ii) recognizes differences from market value in a sufficiently short period.”

There are two common rationales for using an actuarial value of asset method to smooth market value fluctuations. One is that the market is volatile and that investment gains and losses should have their own smoothing where the smoothing period reflects the anticipated length of a market cycle. Under this rationale, many actuaries would argue that adding a corridor to the actuarial value of asset method will actually disrupt the smoothing because additional gains occurring after hitting the bottom of the corridor (or losses occurring after hitting the top of the corridor) are recognized immediately. Therefore, in a protracted downturn or a protracted upturn, the smoothing effect of the actuarial value of asset method could be temporarily lost.

The other rationale for using an actuarial value of asset method is a little more complex. Under some actuarial cost methods that develop an accrued liability, the accrued liability is essentially the theoretical value of the desired assets, given everything known on the valuation date and everything assumed after the valuation date. The value of the assets provides an actual measure. The Unfunded Actuarial Accrued Liability (UAAL) is then the difference between desired assets and actual assets. However, in order to make this determination you need to be able to assign a liquid value to your assets. In a portfolio with equities, this is done by multiplying the shares held by the value of those shares on the close of the market on the measurement date. Given that this date is in the past (relative to when the valuation is being performed), the fact that the shares were not sold, and that value of the shares likely changed at the very next market open, this method (known as the market value) is nothing more than a theoretical value. In addition, due to the large equity portfolios held by each of the Systems, it would not actually be physically possible to have liquidated the equity portfolios for



the closing values of the market, even if desired. Such liquidation would not only have taken a significant amount of time (which means that not all shares would have necessarily sold for the same price) but could actually influence the market pricing. As such, using a market value based on the closing market prices once every year is not only theoretical, but introduces fluctuations that many would consider to be “random noise.” The actuarial value of assets therefore employs a smoothing technique in an attempt to smooth out the “random noise” while ascertaining the value of “where the plan is at, currently.” Since no one can determine with 100% certainty what portion of the market value is random noise (even in hindsight), actuaries will use slightly different smoothing methods to fit the specific needs of the plan. Under this rationale, a true market correction (whether up or down) should be recognized immediately because it represents “where you are” on the measurement date. However, most large market fluctuations include both true market corrections and temporary “noise”. Again, distinguishing between the two cannot be done with certainty (even in hindsight). Therefore, many actuaries employ a secondary process in the actuarial value of asset method to make that distinction. This secondary process is known as a corridor around the market value. If the corridor is hit, then all gains or losses beyond that corridor are treated like a market correction and recognized immediately in the valuation.

The issue of using corridors is gaining more and more attention in the actuarial field. In 2014, two publications were circulated related to funding public sector plans:

- 1) The Society of Actuaries (SOA) “Report of the Blue Ribbon Panel on Public Pension Plan Funding”
- 2) A white paper developed by the Conference of Consulting Actuaries Public Plans Community (CCA PPC): “Actuarial Funding Policies and Practices for Public Pension Plans”

The recommendation from the Blue Ribbon Panel was to use an asset smoothing method over a period of less than or equal to five years. They neither recommended for nor against the use of a market corridor. The Panel’s “Standardized Contribution Benchmark” does not use a corridor. However, in one footnote the Panel makes the statement:

“While a corridor is typically recommended, the Panel does not use one in the standardized contribution because it is assuming no restart (resetting actuarial to market value of assets) and NO changes in amortization schedules for extraordinary gains or losses. This provides the most smoothness of assets.”

The CCA PPC was more direct, indicating that using a smoothing period with no corridor was a “non-recommended practice”.

In light of:

- 1) ASOP 44
- 2) the CCA PPC white paper
- 3) the SOA Blue Ribbon Commission
- 4) the fact that the smoothing period exceeds five years and the length used by most public retirement systems
- 5) the second rationale listed above for using an actuarial value of asset method

We recommend the use of a corridor around the market value to ensure that the actuarial value of assets “maintains a sufficiently narrow range around the market value” of assets. We recommend a corridor in the range of 25% to 30%. This range is within common practice. We note that the use of a corridor has been considered and rejected by the Actuary in the past.

We were able to reproduce the mathematical calculations used to determine the June 30, 2012 actuarial value of assets with the exception of the handling of expenses in the lag period for NYCERS. The difference was not material.

During the first engagement the OA pointed out that an issue arose with the TRS assets (and BERS assets, to a lesser extent) beginning with the June 30, 2011 valuation. The issue relates to the fact that the TDA (Tax Deferred Annuity) fixed funds and the QPP (Qualified Pension Plan) funds are comingled and that TDA gets a fixed interest allocation regardless of fund performance. This has the effect of amplifying (or leveraging) the gains and losses on the remainder of the assets. Consider the following three examples:

Example 1	Total Fund Rate of Return:			7%
	QPP	TDA	Total	
Beginning of Year Asset Value	\$1,000.00	\$500.00	\$1,500.00	
Expenditures	300.00	10.00	310.00	
Contributions	200.00	5.00	205.00	
Investment Return	66.50	34.83	101.33	
End of Year Asset Value	966.50	529.83	1,496.33	
Rate of Return	7.00%	7.00%	7.00%	

Example 2	Total Fund Rate of Return:			9%
	QPP	TDA	Total	
Beginning of Year Asset Value	\$1,000.00	\$500.00	\$1,500.00	
Expenditures	300.00	10.00	310.00	
Contributions	200.00	5.00	205.00	
Investment Return	95.45	34.83	130.28	
End of Year Asset Value	995.45	529.83	1,525.28	
Rate of Return	10.05%	7.00%	9.00%	

Example 3	Total Fund Rate of Return: 5%		
	QPP	TDA	Total
Beginning of Year Asset Value	\$1,000.00	\$500.00	\$1,500.00
Expenditures	300.00	10.00	310.00
Contributions	200.00	5.00	205.00
Investment Return	37.55	34.83	72.38
End of Year Asset Value	937.55	529.83	1,467.38
Rate of Return	3.95%	7.00%	5.00%

In example 1, each of the component funds earns the same investment rate of return as the total fund because the total rate of return was exactly 7%. In example 2, there is an investment gain because the total fund earns 9%. However, that gain is amplified for the QPP because the TDA gets exactly 7%. In example 3 there is an investment loss because the total fund earns 5%. However, that loss is amplified for the QPP because the TDA gets exactly 7%.

The OA asked us if we had ideas on how to mitigate the leveraging of asset gains and losses on the QPP. Below are two possibilities:

- 1) Run a Monte Carlo simulation on the asset returns to measure the relationship between the rate of return on the total portfolio compared to the rate of return on the QPP, given the fixed rate of return on the TDA. Modify the valuation assumption, if indicated.
- 2) Establish a contingency reserve during the years in which the total fund return equals or exceeds the fixed TDA rate of return (currently 7%). The amount of the reserve would equal all or a portion of the gain that arises in the QPP in those years attributable to the leveraging from the fixed rate of return on the TDA. Then in years when the total fund earns less than the rate credited to the TDA, portions of the contingency reserve can be released to mitigate the effect of the downward leveraging.

The OA also indicated that this issue created another issue with the development of the Actuarial Value of Assets. The issue, as we understand it, is that the transfer of investment income from the QPP to the TDA is treated like a benefit payment coming out of the QPP rather than investment income and therefore does not get smoothed in the same manner as investment income when it comes into the fund. The OA has indicated its suspicion that this treatment results in a bias in the Actuarial Value of Assets to be less than the Market Value of Assets, even when all assumptions are met. We recommend netting the TDA transfer from the investment income prior to smoothing the income, so that the TDA transfer is treated in the same manner as all other investment income.

**Actuarial Cost Method**

The Fiscal Year 2014 employer contributions are determined from the June 30, 2012 actuarial valuation. Thus, there is a 1-year lag between the valuation date and the period for which employer contributions are made. The June 30, 2012 valuations use the Entry Age Actuarial Cost Method (EAACM). This method was first employed for use in the June 30, 2010 NYCERS' actuarial valuations as part of the 2012 A&M. This is the most common actuarial cost method in use by public

employee retirement systems. In addition, the EAACM will now be required for accounting purposes under GASB Statements No. 67 and No. 68. We agree that this is an appropriate method for determining employer contributions for funding.

Initial unfunded actuarial accrued liabilities (determined as of June 30, 2010) are amortized as a level percent of pay over a 22-year closed period. Gains and losses occurring after the June 30, 2010 valuation are amortized as level dollar amounts over a 15-year closed period. These amortization periods are well within the common range of practice and we find them appropriate. The use of level percent amortization is well within the range of common practice. The use of level dollar amortization is well within the range of common practice. It is not within common practice to use level percent amortizations for certain components and level dollar amortizations for other components. While the use of either of these types of amortizations is acceptable, using both adds an unnecessary complication to an already complicated valuation process. We recommend the Actuary choose a single amortization method and use that method for all the types of UAAL.

#### One-Year-Lag-Methodology (OYLM)

The One-Year-Lag-Methodology (OYLM) used in the valuation process (first used in the June 30, 2004 valuation to determine the FY 2006 contributions when valuations were performed using the Frozen Initial Liability actuarial cost method) reflects the fact that the employer contributions determined in a specific valuation will be contributed in the fiscal year that starts one year after the valuation date. Essentially, under the OYLM, the employer's cost of each new member's projected benefit is financed over a period starting with the second year of employment (entry age plus one) and ending on the expected year of retirement (retirement age). Currently, the OA starts the calculations using the individual level entry age actuarial cost method, which finances each member's projected benefit over the period from entry age to retirement age. However, the OA then modifies the entry age results in aggregate for the group, by financing the total future employer normal cost for the group over the future salaries of the group, starting one year after the valuation. Once the OA has made this adjustment, the normal cost is no longer level for each individual (based the OA's implementation). It may still be level for the group if the population stays relatively stable from year to year.

The OA verbally provided the following example to illustrate the OYLM under the EAACM: Consider a member with a 20 year career who was entitled to a lump sum of \$19 at retirement. For simplicity, assume the member stays in employment for the entire 20 years and retires upon his 20<sup>th</sup> anniversary of employment. Also for simplicity, assume no mortality, no interest and no expenses. Then under the EAACM, the normal cost would be \$0.95 for each of the 20 years of employment. This would accumulate to \$19 ( $\$0.95 \times 20 \text{ years} = \$19$ ) at the end of the 20 years of employment. Under the OYLM with EAACM, the normal cost would be \$0 for the first year of employment and \$1 for each of the following 19 years. This would also accumulate to \$19.

While we understand and agree with this example, we do not agree that this example is representative of the implementation of the OYLM that the OA has employed. A general description of the OA's implementation of the OYLM under the EAACM follows:

- Actuarial results for Present Value of Future Benefits (PVFB), Actuarial Accrued Liability (AAL), Present Value of Future Normal Cost (PVFNC), and Present Value of Future Salary (PVFS) are first determined as of the valuation date under the individual EAACM and aggregated for the group.

- Total PVFS is then projected forward one year by accounting for the salaries expected to be paid during the first year following the valuation date.
- An Employer Normal Cost percentage is calculated by dividing the unadjusted Employer PVFNC by the projected PVFS.
  - This Employer Normal Cost percentage is then applied to payroll projected to the year starting one year after the valuation date.
- The unfunded liability on the valuation date is adjusted by Employer Normal Cost contributions that are expected to be made during the lag year (year starting on the valuation date).
- Administrative expenses paid during the year ending on the valuation date are funded by adding the amount of the expenses with two years of interest at 7% to the required contribution for the year starting one year after the valuation date.

The example on the following pages (Charts 1, 2 and 3) illustrate the EAACM, the EAACM with the theoretical (intended) OYLM and the EAACM with the OA implemented OYLM. They are based on the example verbally provided by the OA and described above.

The abbreviation key for the charts is:


PVFS = Present Value of Future Salary  
PVB = Present Value of Future Benefits  
EA = Entry Age  
PVFNC = Present Value of Future Normal Cost  
EANC = Entry Age Normal Cost  
AAL = Actuarial Accrued Liability  
UAAL = Unfunded AAL  
Val = Valuation

**Chart 1**  
**Illustration of EAACM with No Lag**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Val Date	Service on Val Date	Pay During Upcoming Year	PVFS at Val Date	PVB at Val Date	PVB at EA	NC%	PVFNC at Val Date	AAL at Val Date	Assets at Val Date	UAAL	Contribution During Year (15 year amort of UAAL)	Assets 1 year after Val Date
2010	0	10.00	200.00	19.00	19.00	9.50%	19.00	-	-	-	0.95	0.95
2011	1	10.00	190.00	19.00	19.00	9.50%	18.05	0.95	0.95	-	0.95	1.90
2012	2	10.00	180.00	19.00	19.00	9.50%	17.10	1.90	1.90	-	0.95	2.85
2013	3	10.00	170.00	19.00	19.00	9.50%	16.15	2.85	2.85	-	0.95	3.80
2014	4	10.00	160.00	19.00	19.00	9.50%	15.20	3.80	3.80	-	0.95	4.75
2015	5	10.00	150.00	19.00	19.00	9.50%	14.25	4.75	4.75	-	0.95	5.70
2016	6	10.00	140.00	19.00	19.00	9.50%	13.30	5.70	5.70	-	0.95	6.65
2017	7	10.00	130.00	19.00	19.00	9.50%	12.35	6.65	6.65	-	0.95	7.60
2018	8	10.00	120.00	19.00	19.00	9.50%	11.40	7.60	7.60	-	0.95	8.55
2019	9	10.00	110.00	19.00	19.00	9.50%	10.45	8.55	8.55	-	0.95	9.50
2020	10	10.00	100.00	19.00	19.00	9.50%	9.50	9.50	9.50	-	0.95	10.45
2021	11	10.00	90.00	19.00	19.00	9.50%	8.55	10.45	10.45	-	0.95	11.40
2022	12	10.00	80.00	19.00	19.00	9.50%	7.60	11.40	11.40	-	0.95	12.35
2023	13	10.00	70.00	19.00	19.00	9.50%	6.65	12.35	12.35	-	0.95	13.30
2024	14	10.00	60.00	19.00	19.00	9.50%	5.70	13.30	13.30	-	0.95	14.25
2025	15	10.00	50.00	19.00	19.00	9.50%	4.75	14.25	14.25	-	0.95	15.20
2026	16	10.00	40.00	19.00	19.00	9.50%	3.80	15.20	15.20	-	0.95	16.15
2027	17	10.00	30.00	19.00	19.00	9.50%	2.85	16.15	16.15	-	0.95	17.10
2028	18	10.00	20.00	19.00	19.00	9.50%	1.90	17.10	17.10	-	0.95	18.05
2029	19	10.00	10.00	19.00	19.00	9.50%	0.95	18.05	18.05	-	0.95	19.00
2030	20	-	-	19.00	19.00			19.00	19.00			

**Chart 2**  
**Illustration of EAACM with Theoretical OYLM Implementation**

(1) Val Date	(2) Service on Val Date	(3) Pay During Upcoming Year	(4) PVFS at Val Date	(5) PVB at Val Date	(6) PVB at EA	(7) NC%	(8) PVFNC at Val Date	(9) AAL at Val Date	(10) Assets at Val Date	(11) UAAL	(12) During Year (15 year amort of UAAL)	(13) Assets 1 year after Val Date
2010	0	10.00	200.00	19.00	19.00	10.00%	19.00	-	-	-	-	-
2011	1	10.00	190.00	19.00	19.00	10.00%	19.00	-	-	-	1.00	1.00
2012	2	10.00	180.00	19.00	19.00	10.00%	18.00	1.00	1.00	-	1.00	2.00
2013	3	10.00	170.00	19.00	19.00	10.00%	17.00	2.00	2.00	-	1.00	3.00
2014	4	10.00	160.00	19.00	19.00	10.00%	16.00	3.00	3.00	-	1.00	4.00
2015	5	10.00	150.00	19.00	19.00	10.00%	15.00	4.00	4.00	-	1.00	5.00
2016	6	10.00	140.00	19.00	19.00	10.00%	14.00	5.00	5.00	-	1.00	6.00
2017	7	10.00	130.00	19.00	19.00	10.00%	13.00	6.00	6.00	-	1.00	7.00
2018	8	10.00	120.00	19.00	19.00	10.00%	12.00	7.00	7.00	-	1.00	8.00
2019	9	10.00	110.00	19.00	19.00	10.00%	11.00	8.00	8.00	-	1.00	9.00
2020	10	10.00	100.00	19.00	19.00	10.00%	10.00	9.00	9.00	-	1.00	10.00
2021	11	10.00	90.00	19.00	19.00	10.00%	9.00	10.00	10.00	-	1.00	11.00
2022	12	10.00	80.00	19.00	19.00	10.00%	8.00	11.00	11.00	-	1.00	12.00
2023	13	10.00	70.00	19.00	19.00	10.00%	7.00	12.00	12.00	-	1.00	13.00
2024	14	10.00	60.00	19.00	19.00	10.00%	6.00	13.00	13.00	-	1.00	14.00
2025	15	10.00	50.00	19.00	19.00	10.00%	5.00	14.00	14.00	-	1.00	15.00
2026	16	10.00	40.00	19.00	19.00	10.00%	4.00	15.00	15.00	-	1.00	16.00
2027	17	10.00	30.00	19.00	19.00	10.00%	3.00	16.00	16.00	-	1.00	17.00
2028	18	10.00	20.00	19.00	19.00	10.00%	2.00	17.00	17.00	-	1.00	18.00
2029	19	10.00	10.00	19.00	19.00	10.00%	1.00	18.00	18.00	-	1.00	19.00
2030	20	-	-	19.00	19.00			19.00	19.00			

 = calculated, but not used

**Chart 3**  
**Illustration of EAACM with OA Implementation of OYLM**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
Val Date	Service on Val Date	Pay During Upcoming Year	PVFS at Val Date	PVB at Val Date	PVB at EA	NC% -- before lag	PVFN C at Val Date	AAL at Val Date	NC% -- after lag	Assets at Val Date	NC Dollars	Projected Assets with Accrued NC	Projected UAAL	15 year amort	Assets Year End
2010	0	10.00	200.00	19.00	19.00	9.50%	19.00	-	10.00%	-	-	-	-	-	-
2011	1	10.00	190.00	19.00	19.00	9.50%	18.05	0.95	10.03%	-	1.00	1.00	(0.05)	(0.00)	1.00
2012	2	10.00	180.00	19.00	19.00	9.50%	17.10	1.90	10.06%	1.00	1.00	2.00	(0.10)	(0.01)	1.99
2013	3	10.00	170.00	19.00	19.00	9.50%	16.15	2.85	10.09%	1.99	1.01	3.00	(0.15)	(0.01)	2.99
2014	4	10.00	160.00	19.00	19.00	9.50%	15.20	3.80	10.13%	2.99	1.01	4.00	(0.20)	(0.01)	3.98
2015	5	10.00	150.00	19.00	19.00	9.50%	14.25	4.75	10.18%	3.98	1.01	5.00	(0.25)	(0.02)	4.98
2016	6	10.00	140.00	19.00	19.00	9.50%	13.30	5.70	10.23%	4.98	1.02	6.00	(0.30)	(0.02)	5.98
2017	7	10.00	130.00	19.00	19.00	9.50%	12.35	6.65	10.29%	5.98	1.02	7.00	(0.35)	(0.02)	6.98
2018	8	10.00	120.00	19.00	19.00	9.50%	11.40	7.60	10.36%	6.98	1.03	8.01	(0.41)	(0.03)	7.98
2019	9	10.00	110.00	19.00	19.00	9.50%	10.45	8.55	10.45%	7.98	1.04	9.02	(0.47)	(0.03)	8.99
2020	10	10.00	100.00	19.00	19.00	9.50%	9.50	9.50	10.56%	8.99	1.05	10.03	(0.53)	(0.04)	10.00
2021	11	10.00	90.00	19.00	19.00	9.50%	8.55	10.45	10.69%	10.00	1.06	11.05	(0.60)	(0.04)	11.01
2022	12	10.00	80.00	19.00	19.00	9.50%	7.60	11.40	10.86%	11.01	1.07	12.08	(0.68)	(0.05)	12.03
2023	13	10.00	70.00	19.00	19.00	9.50%	6.65	12.35	11.08%	12.03	1.09	13.12	(0.77)	(0.05)	13.07
2024	14	10.00	60.00	19.00	19.00	9.50%	5.70	13.30	11.40%	13.07	1.11	14.18	(0.88)	(0.06)	14.12
2025	15	10.00	50.00	19.00	19.00	9.50%	4.75	14.25	11.88%	14.12	1.14	15.26	(1.01)	(0.07)	15.19
2026	16	10.00	40.00	19.00	19.00	9.50%	3.80	15.20	12.67%	15.19	1.19	16.38	(1.18)	(0.08)	16.30
2027	17	10.00	30.00	19.00	19.00	9.50%	2.85	16.15	14.25%	16.30	1.27	17.57	(1.42)	(0.09)	17.47
2028	18	10.00	20.00	19.00	19.00	9.50%	1.90	17.10	19.00%	17.47	1.43	18.90	(1.80)	(0.12)	18.78
2029	19	10.00	10.00	19.00	19.00	9.50%	0.95	18.05		18.78	1.90	20.68	(2.63)	(0.18)	20.50
2030	20	-	-	19.00	19.00			19.00		20.50	-	20.50			



**Chart 1** shows how the assets would accumulate for this example under the EAACM without the one year lag. For this case, the normal cost is 9.5% of pay each and every year and produces a \$0.95 contribution for 20 years that accumulates to \$19 at the end of the 20 years. Under this illustration, there is no UAAL, since experience is exactly as expected.

**Chart 2** shows how the assets would accumulate for this example under the EAACM and OYLM as we believe is intended by the OA. For this case, the normal cost is 10% of pay beginning in year 2 and continuing for 19 years. This produces a \$0.00 contribution for 1 year and a \$1.00 contribution for 19 years that accumulates to \$19 at the end of the 20 years. Again, under this illustration there is no UAAL, since experience is exactly as expected.

**Chart 3** shows how the assets would accumulate for this example under the EAACM and OYLM as implemented by the OA. Column 10 shows that the normal cost rate increases each year, starting at 10% of pay and ending at 19% of pay. This pattern of normal costs, by itself, will overfund the benefit. By the 20<sup>th</sup> year, the normal cost contributions would generate an asset of \$21.45 (the sum of the Normal Cost in column 12). The OA also compares the assets with the next year of normal cost contributions to the accrued liabilities (which includes that next year of normal cost) to determine the UAAL. The UAAL is then amortized over 15 years in the example and added to the normal cost (the OA uses different amortization periods – 15 years is shown for simplicity). Under the example, the assets always differ from the accrued liabilities, even though there is no gain or loss. The amortization of this difference mitigates the overfunding, but does not eliminate it. The assets accumulate to \$20.50 by the time the member retires.

It is important to note that due to the effect of interest, pay increases and decrement assumptions, it is not likely that the difference between the OA's implementation and the theoretical implementation will be as great as shown in these charts (and possibly in different directions in certain cases). What can be concluded from these charts is 1) that the normal cost is not a level percent of pay, as intended, and 2) that a UAAL can develop without a gain or loss under the OA's implementation.

The above charts were included in the first engagement report. One important aspect of these charts is that the normal cost is not necessarily level for an individual under the OA's implementation. However, the descriptions of the cost method contained in the POLICE report (starting on page 59) and the FIRE report (starting on page 60) imply that the method produces level normal cost for an individual. We recommend these descriptions be clarified.

#### One-Year-Lag-Methodology (OYLM) – Employer Contributions versus Employee Contributions

Since members begin contributing upon employment, there is no lag in their contributions. In the implementation of the OYLM, only the employer portion of the normal costs is adjusted for the one year lag.

#### Loads

Each of the Systems has loads included in liabilities for various reasons. GRS reviewed the calculations of these loads for reasonableness. We found all of the loads to be reasonable. None of the loads were of a magnitude that would warrant a more detailed analysis.

### Valuation Report Content (Applies only to POLICE and FIRE)

There have been recent changes to the Actuarial Standards of Practice regarding report content. In accordance with these changes, we recommend the following additions to the valuation reports:

1. Disclose to what extent the mortality assumption provides a margin for future improvement.
2. Identify the principal for the actuarial valuation.
3. Add a development of the experience gain/loss.
4. Provide discussion of how actual experience during the prior year compared to actuarial assumptions.
5. Add a comment that indicates the measurement may not be appropriate for other purposes.
6. Provide a statement(s) indicating future measurements may differ significantly from those provided in the report.
7. State the extent of the actuary's reliance on data provided by others (e.g., the actuary is not responsible for data errors or omissions).
8. Discuss the independence of the actuary from the plan sponsor.
9. Describe assumptions for regular disability retirees' benefit amounts – i.e., members eligible to retire who decrement on disability are assumed to elect age and service benefits under service retirement rules in order to benefit from the VSF.

### Summary of Comments on Actuarial Methods and Report Content

1. We believe the methods used by the OA in the June 30, 2012 (Lag) actuarial valuation are reasonable and comply with Actuarial Standards of Practice.
2. We recommend that the OA add a corridor around the market value in the development of the valuation assets (actuarial value of assets).
3. We recommend the OA reconsider the use of the OYLM to determine if a less complicated approach may achieve the OA's modeling goals.
4. If the OA decides to keep the OYLM then we recommend the OA apply the method at the individual level in a manner that is level for each member throughout their career.
5. Include additional disclosures in the valuation reports.

With regard to comment 4, GRS developed a modification to its programming of the June 30, 2010 actuarial valuations for NYCERS to implement the OYLM at the individual level. Under this modification, the present value of benefits, as of the valuation date, are computed in the same manner. However, the entry age normal cost is computed to be the present value of employer financed benefits at entry age divided by (the present value of future salary at entry age, less the expected pay during the first year of employment). This rate is then applied to the present value of future pay at attained age to determine the present value of future employer normal cost or applied to the expected pays for FY 2012 to determine the employer normal cost for FY 2012. Please see our first engagement Actuarial Audit of Employer Contributions report for further details.

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## **SECTION C**

### **GRS REPLICATIONS AND FINDINGS BY SYSTEM**

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## REPLICATIONS AND FINDINGS BY SYSTEM

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### NYCERS

During the contribution audit for NYCERS, GRS was able to replicate the OA's computation of total present value of benefits, accrued liabilities, actuarial value of assets, unfunded actuarial accrued liabilities and employer contributions within tolerances. While a couple of items failed one of the two tests, no items failed both tests. This indicates that all items passed our tolerance tests.

GRS was also able to replicate the OA's computation of the employer contributions within tolerances, both in aggregate and by employer group for all obligors except the State Judiciary Group. We understand that details of the computations down to the obligors have been traditionally outside the scope of the contribution audits. However, the OC did request that we show our computation of the employer contributions by obligor for NYCERS. This is shown on the table on page C-3. The only group outside the tolerance was the State Judiciary. The reason was a difference in the present value of benefits for the retirees (all members of this group are retired) of 3%. Relative to total liabilities, GRS does not feel this is material. GRS has also reviewed the method the Actuary used to allocate contributions to the obligors and believes it to be reasonable and within the requirements of the New York City Administrative Code, Section 13-127. The method can briefly be described as follows:

Assets were initially allocated based on liabilities from the June 30, 2010 actuarial valuation and tracked by cash flow and investment return by the Obligor to the current valuation. In the current valuation, NYCERS is valued in total, as required by law. Then each Obligor is valued as a separate group and the individual Obligor results are then adjusted so that the sum of the Obligators matches the total NYCERS results.

We have the following findings for the NYCERS contribution audit (all of which were identified during the first engagement and are still outstanding):

1. Active members over age 75 on the valuation date appear to be valued as if they were exactly 75 on the valuation date. GRS recommends that members be valued at their actual age. This issue does not affect a significant number of members.
2. GRS recommends the OA review the modeling of future deferred members (current actives who are assumed to quit after vesting and before retirement eligibility). Future deferred members are assumed to commence benefits at first eligibility. However, current deferred members are assumed to commence benefits in accordance with the retirement pattern. We recommend these assumptions be unified.
3. In NYCERS there were a number of data test cases where the data seemed to indicate the member was entitled to one particular plan, but was valued under a different plan. We recommend that the OA document the rules relative to when a member should be valued under a plan different than indicated by the data and include such rules with the summary of benefits currently maintained. Discussions with the OA have suggested that some of these cases might be related to "default" plans that were used under the prior valuation system and are in the process of being converted under the ProVal valuation system.
4. The mortality table used for Transit beneficiaries does not appear to be updated to the 2012 A&M set of assumptions, based on our review of the test lives (outstanding status unconfirmed).

The charts on the following pages show the details of our replication, both in aggregate and by employer group.

**NYCERS COMPARISON OF AGGREGATE RESULTS**  
**(\$MILLIONS)**

	Office of the Actuary		Gabriel, Roeder, Smith & Company		Tolerance Test	
	Liabilities	Count	Liabilities	Count	Individual	Total
1. Present Value of Benefits						
a. Actives	45,208	187,114	44,417	187,114	-1.75%	-0.95%
b. Inactives	845	16,353	864	16,353	2.22%	0.02%
c. Terminated Vested	625	8,880	638	8,880	2.02%	0.02%
d. Retirees	35,013	137,987	34,809	137,987	-0.58%	-0.25%
e. Loads	239		239		0.00%	0.00%
f. VSF	1,022		1,022		0.00%	0.00%
g. Total	82,953	350,334	81,989	350,334	-1.16%	-1.16%
2. Present Value of Future Salary	115,207		115,069		-0.12%	-0.12%
3. Present Value of Future Employee Contribution	2,826		2,824		-0.08%	-0.08%
4. Present Value of Future Employer Normal Costs						
a. Actives	12,516		12,380		-1.08%	-1.07%
b. VSF	156		156		0.00%	0.00%
c. Total	12,672		12,536		-1.07%	-1.07%
5. Actuarial Accrued Liability						
a. Actives (1.a. - 4.a.)	29,866		29,213		-2.19%	-0.97%
b. Inactives (1.b.)	845		864		2.22%	0.03%
c. Terminated Vested (1.c.)	625		638		2.02%	0.02%
d. Retirees (1.d.)	35,013		34,809		-0.58%	-0.30%
e. Loads (1.e.)	239		239		0.00%	0.00%
f. VSF (1.f. - 4.b.)	866		866		0.00%	0.00%
g. Total	67,455		66,629		-1.22%	-1.22%
h. Total - Net of Retirees	32,442		31,820		-1.92%	-0.92%
6. Development of Normal Cost						
a. Present Value Future NC ER	12,672		12,536		-1.07%	
b. Present Value Future Salary	115,207		115,069		-0.12%	
c. Salary - Time 0.5	12,277		12,270		-0.06%	
d. Projected Present Value Future Salary	103,338		103,207		-0.13%	
e. Normal Cost Percent	12.263%		12.147%		-0.95%	
f. Salary - Time 1.5	12,089		12,082		-0.06%	
g. Normal Cost (Unallocated)						
h. Normal Cost (Allocated)	1,482		1,468		-1.00%	
7. Assets						
a. Market Value of Assets	42,655		42,655		0.00%	0.00%
b. Actuarial Value of Assets	44,677		44,677		0.00%	0.00%
c. PV 1-Year Adj Employer Contrib	1,412		1,412		0.00%	0.00%
d. Administrative Expense	101		104		3.59%	0.01%
e. Valuation Assets (c. + d. + e. )	46,189		46,193		0.01%	0.01%
8. Assets (VSF)						
a. Market Value of Assets	36		36		0.00%	0.00%
b. Variable Assets	-		-			
c. Actuarial Value of Assets	38		38		0.00%	0.00%
9. Unfunded Actuarial Accrued Liability Bases						
a. Preliminary Unfunded June 30, 2012	21,228		20,398		-3.91%	-3.91%
b. 1. Experience (G)/L	(122)		(122)		0.00%	0.00%
2. Adjustment for ERI	21,105		20,276		-3.93%	-3.91%
3. Total Experience (G)/L	122		122		0.00%	0.00%
c. Experience (G)/L, June 30, 2012						
d. Total	21,228		20,398		-3.91%	-3.91%
10. Components of Contribution						
a. Entry Age Normal Cost	1,482		1,468		-1.00%	-0.48%
b. Initial UAAL Contribution	1,610		1,550		-3.72%	-1.93%
c. Subsequent UAAL Contribution	(35)		(34)			
d. Administrative Expenses	57		57		0.00%	0.00%
e. Total (Pension Expense)	3,114		3,040		-2.37%	-2.37%

## NYCERS COMPARISON OF CONTRIBUTIONS BY OBLIGOR

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<b>Obligor</b>	<b>Computed FY 2014 Contribution</b>		<b>Difference</b>
	<b>OA Computation</b>	<b>GRS Computation</b>	
New York City Transit Authority	729,092,823	696,873,603	-4.4%
New York City Housing Authority	156,387,455	153,335,585	-2.0%
New York City Health and Hospitals Corporation	435,677,527	421,406,363	-3.3%
Triborough Bridge and Tunnel Authority	33,936,105	32,683,550	-3.7%
New York City Off-Track Betting Corporation	10,725,157	10,683,464	-0.4%
New York City Housing Development Corporation	1,691,074	1,654,153	-2.2%
New York City School Construction Authority	1,504,475	1,456,118	-3.2%
New York City Residential Mortgage Insurance Corporation	N/A	N/A	0.0%
State Judiciary Employees	1,060,813	991,321	-6.6%
New York City Municipal Water Authority	140,670	138,829	-1.3%
City University of New York Senior Colleges	35,855,239	34,699,558	-3.2%
All Others	<u>1,707,996,818</u>	<u>1,686,487,332</u>	-1.3%
<b>Total</b>	<b>3,114,068,157</b>	<b>3,040,409,878</b>	<b>-2.4%</b>

## TRS

During the contribution audit for TRS, GRS was able to replicate the OA's computation of total present value of benefits, accrued liabilities, actuarial value of assets, unfunded actuarial accrued liabilities and employer contributions within tolerances. While a couple of items failed one of the two tests, no items failed both tests. This indicates that all items passed our tolerance tests.

We had two findings from the first engagement. The test lives we reviewed for the second engagement indicate that both of these findings are still outstanding.

1. Service for members appears to be rounded on the valuation data. We recommend using exact years and months of service. This affects the computation of entry age, as well as the computation of benefits.
2. Probabilities of termination for members with 20 or more years of service appear to be rounded to the nearest 1%. Probabilities of termination provided to GRS by the OA were less than 1%. GRS used the probabilities provided to the precision provided. This resulted in a significant difference between the present value of benefits for future deferred vested members (current actives, vested deferred decrement) between the OA computation and the GRS computation. We recommend the OA review the probabilities actually used in the valuation.

We have no additional findings from the second engagement, but have provided some suggestions in the Executive Summary for the OA to consider regarding the accounting of the TDA Fixed Funds in the development of the Actuarial Value of Assets.

The charts on the following pages show the details of our replication.

**TRS COMPARISON OF RESULTS**  
**(\$MILLIONS)**

	<u>Office of the Actuary</u>		<u>Gabriel, Roeder, Smith &amp; Company</u>		<u>Tolerance Test</u>	
	<u>Liabilities</u>	<u>Count</u>	<u>Liabilities</u>	<u>Count</u>	<u>Individual</u>	<u>Total</u>
<i>Retirees Receiving Benefits</i>						
Pension	33,073		32,825		-0.75%	-0.35%
Supplemental Benefits	2,502		2,513		0.44%	0.02%
<b>Total Retirees Receiving Benefits Liability</b>	<b>35,575</b>	<b>76,359</b>	<b>35,338</b>	<b>76,350</b>	<b>-0.67%</b>	<b>-0.33%</b>
<i>Actives, Inactives and Terminated Vesteds</i>						
Service Retirements	30,689		30,491		-0.64%	-0.28%
Ordinary Disability	650		639		-1.71%	-0.02%
Accidental Disability	185		183		-0.92%	0.00%
Ordinary Death	320		320		-0.06%	0.00%
Accidental Death	-		-		0.00%	0.00%
Vested & Deferred Retirements	1,328		1,099		-17.23%	-0.32%
Return of Contributions & Misc Liabilities	41		27		0.00%	-0.02%
<b>Active Total</b>	<b>33,213</b>	<b>112,460</b>	<b>32,759</b>	<b>112,460</b>	<b>-1.37%</b>	<b>-0.63%</b>
Inactives	363	9,689	353	9,689	-2.64%	-0.01%
Terminated Vested	672	9,868	668	9,868	-0.54%	-0.01%
<b>Total Active/Inactive Liabilities without loads</b>	<b>34,248</b>	<b>132,017</b>	<b>33,781</b>	<b>132,017</b>	<b>-1.36%</b>	<b>-0.65%</b>
<i>Loads</i>						
Coverages	35		35		0.00%	0.00%
Nager II Load	75		75		0.00%	0.00%
World Trade Center (WTC)	6		6		0.00%	0.00%
Reserve for Loan Insurance	1		1		0.00%	0.00%
Accum EE Cont Adj	115		115		0.00%	0.00%
Var Acct Balances	1,413		1,413		0.00%	0.00%
Annuity of VFAB	369		369		0.00%	0.00%
<b>Total</b>	<b>2,014</b>		<b>2,014</b>		<b>0.00%</b>	<b>0.00%</b>
<b>Total Present Value of Benefits</b>	<b>71,837</b>		<b>71,133</b>		<b>-0.98%</b>	<b>-0.98%</b>
<i>Actuarial Accrued Liability</i>						
Actives	20,159		19,672		-2.42%	-0.83%
Inactives	363		353		-2.64%	-0.02%
Terminated Vested	672		668		-0.54%	-0.01%
Retirees	35,575		35,338		-0.67%	-0.40%
Loads	2,014		2,014		0.00%	0.00%
<b>Total Actuarial Accrued Liability</b>	<b>58,783</b>		<b>58,046</b>		<b>-1.25%</b>	<b>-1.25%</b>



**TRS COMPARISON OF RESULTS**  
**(\$MILLIONS)**

	<u>Office of the Actuary</u>		<u>Gabriel, Roeder, Smith &amp; Company</u>		<u>Tolerance Test</u>	
	<u>Liabilities</u>	<u>Count</u>	<u>Liabilities</u>	<u>Count</u>	<u>Individual</u>	<u>Total</u>
<i>Development of Normal Cost</i>						
Actives						
Present Value Fut EE Cont.	1,270		1,287		1.33%	
Present Value Fut N/C_Er	11,783		11,800		0.15%	
Present Value Future Salary	95,183		96,161		1.03%	
Salary - Time 0.5 (Expected Pay Paid)	7,961		7,964		0.03%	
Projected Present Value Future Salary	87,487		88,197		0.81%	
Normal Cost Percent (ER Only)	13.47%		13.38%		-0.67%	
Salary - Time 1.5 (projected ex pay paid)	7,968		7,968		0.00%	
Normal Cost - Actives	1,073		1,066		-0.67%	
<b>Normal Cost - Total</b>	<b>1,073</b>		<b>1,066</b>		<b>-0.67%</b>	
<i>Assets</i>						
Assets (Main Fund)						
AVA	33,871		33,871		0.00%	
PV 1 - Year Adj Employer Contributions	1,035		1,035		0.00%	
PV Administrative Expense Reimb	71		71		0.00%	
Due to/from TDA	(305)		(305)		0.00%	
<b>Total Main Fund Valuation Assets</b>	<b>34,672</b>		<b>34,672</b>		<b>0.00%</b>	
<i>Contribution Development</i>						
Unfunded Actuarial Accrued Liability	24,111		23,374		-3.06%	
Amortization Factor						
Amortization UAAL Payment	1,887		1,829		-3.06%	-1.92%
Administrative Expenses	39		39		0.00%	0.00%
Entry Age Normal Cost	1,073		1,066		-0.67%	-0.24%
<b>Total Contribution</b>	<b>2,999</b>		<b>2,895</b>		<b>-3.46%</b>	<b>-3.46%</b>

## BERS

During the contribution audit for BERS, GRS was able to replicate the OA's computation of total present value of benefits, accrued liabilities, actuarial value of assets, unfunded actuarial accrued liabilities and employer contributions within tolerances. While a couple of items failed one of the two tests, no items failed both tests. This indicates that all items passed our tolerance tests.

We had six findings from the first engagement. The test lives we reviewed for the second engagement indicate that the following findings are still outstanding.

1. If the maximum allowance field is zero, the OA appears to base the first year COLA amount solely on the Supplementation field. We recommend that for these cases, the first year COLA Amount be based on the sum of the Pension, Annuity and Supplementation fields, similar to the Auto COLA (used for all future years except first year).
2. Tier II 55/25 optional plan members are valued using the old retirement pattern (pre-2012 A&M). We recommend the retirement pattern be updated for these members.
3. The OA does not believe the service information is reliable due to the number of part time members and the inability of BERS to provide complete information regarding part time members. Therefore the OA assigns one year of service for each plan year that the member is reported as active. Membership dates are contained on the file. GRS used the membership date to test the reasonability of the integral service used by the OA and determined that the integral service used by the OA was reasonably reflective of the elapsed time between membership date and valuation date. Although the benefit is based on actual service and annualized pay, the OA models benefits in the valuation using annualized service and actual (part time) pay due to the reliability of reported service. We agree that this process provides a reasonable approximation. We recommend the OA continue to work with BERS to obtain better data for part time members.

## BERS COMPARISON OF RESULTS (\$MILLIONS)

	Office of the Actuary		Gabriel, Roeder, Smith & Company		Tolerance Test	
	Liabilities	Count	Liabilities	Count	Individual	Total
<i>Retirees Receiving Benefits</i>						
Total Pension	1,593	14,874	1,586	14,874	-0.43%	-0.14%
Total Supplemental Benefits	211		216		1.99%	0.08%
Taxed Deferred Annuities						
<b>Total Retirees Receiving Benefits Liability</b>	<b>1,805</b>		<b>1,802</b>		<b>-0.14%</b>	<b>-0.05%</b>
<i>Actives, Inactives and Terminated Vested</i>						
Service Retirements	2,695		2,689		-0.22%	-0.12%
Ordinary Disability	200		196		-1.75%	-0.07%
Accidental Disability	12		12		-1.69%	0.00%
Ordinary Death	67		65		-3.30%	-0.04%
Accidental Death	-		-		0.00%	0.00%
Vested & Deferred Retirements	127		135		6.54%	0.17%
Return of Contributions & Misc Liabilities	7		8		0.00%	0.02%
<b>Active Total</b>	<b>3,107</b>	<b>27,840</b>	<b>3,105</b>	<b>27,840</b>	<b>-0.08%</b>	<b>-0.05%</b>
Inactives	86	3,305	87	3,305	0.81%	0.01%
Terminated Vested	11	184	11	184	-2.63%	-0.01%
<b>Total Active/Inactive Liabilities without loads</b>	<b>3,205</b>	<b>31,329</b>	<b>3,203</b>	<b>31,329</b>	<b>-0.07%</b>	<b>-0.04%</b>
<i>Loads</i>						
World Trade Center (WTC)	1		1		0.00%	0.00%
Reserve for Loan Insurance	0		0		0.00%	0.00%
Accumulated EE Contribution Adjustment	15		15		0.00%	0.00%
Variable Account Balances	2		2		0.00%	0.00%
Annuitization of VFAB	-		-			
<b>Total</b>	<b>18</b>		<b>18</b>		<b>0.00%</b>	<b>0.00%</b>
<b>Total Present Value of Benefits</b>	<b>5,028</b>		<b>5,023</b>		<b>-0.09%</b>	<b>-0.09%</b>
<i>Actuarial Accrued Liability</i>						
Actives	1,842		1,811		-1.70%	-0.83%
Inactives	86		87		0.81%	0.02%
Terminated Vested	11		11		-2.63%	-0.01%
Retirees	1,805		1,802		-0.14%	-0.07%
Loads	18		18		0.00%	0.00%
<b>Total Actuarial Accrued Liability</b>	<b>3,763</b>		<b>3,730</b>		<b>-0.89%</b>	<b>-0.89%</b>

## BERS COMPARISON OF RESULTS (\$MILLIONS)

	Office of the Actuary		Gabriel, Roeder, Smith & Company		Tolerance Test	
	Liabilities	Count	Liabilities	Count	Individual	Total
<i>Development of Normal Cost</i>						
Actives						
Present Value Fut EE Cont.	224		226		0.67%	
Present Value Fut N/C_Er	1,041		1,068		2.62%	
Present Value Future Salary	9,685		9,701		0.17%	
Salary - Time 0.5 (Expected Pay Paid)	996		997		0.08%	
Projected Present Value Future Salary	8,721		8,704		-0.19%	
Normal Cost Percent (ER Only)	11.93%		12.27%		2.82%	
Salary - Time 1.5 (projected ex pay paid)	982		982		0.00%	
Normal Cost - Total	117		121		2.83%	
<i>Assets</i>						
AVA	2,372		2,372		0.00%	
PV 1 - Year Adj Employer Contributions	103		103		0.00%	
Admin Expenses	19		19			
Due (To)/From TDA	28		28			
Total Valuation Assets	2,521		2,521		0.00%	
<i>Contribution Development</i>						
Unfunded Actuarial Accrued Liability	1,242		1,209		-2.70%	
Amortization Factor						
Amortization UAAL Payment	87		85		-2.63%	-1.07%
Administrative Expenses	10		10		0.00%	0.00%
Entry Age Normal Cost	117		121		2.83%	1.54%
Total Contribution	215		216		0.47%	0.47%

## POLICE

During the contribution audit for POLICE, GRS was able to replicate the OA's computation of total present value of benefits, normal costs and accrued liabilities within tolerances. GRS was also able to replicate the OA's computation of the employer contributions within tolerances. No area failed both the individual and the aggregate tolerance test.

Although GRS replicated the OA's computation of normal costs within tolerances, we did have some difficulty with this component. A detailed analysis of the test lives indicated that the required contribution field (RASf) read in from the data file was used at each and every age of the entry age pass. This means that a deficit or addition to the formula benefit is valued due to an artificial difference between the actual and required employee contributions.

We have the following findings for the POLICE contribution audit (all of which were identified during the first engagement and are still outstanding):

1. Review the method for determining liabilities for deferred vested members. For members already terminated, the OA assumes that benefit commencement will occur in accordance with the retirement pattern for active members. However, for future deferred members, the OA assumes that benefits will commence upon first eligibility. Under the OA's methods, if deferred vested experience matches the actuarial assumptions in a particular year, the valuation calculations will show a gain even though no gain occurred. We recommend the OA make the assumed commencement of benefits the same for current deferred members and future deferred members.
2. It has been GRS' experience that uniformed members who quit before retirement eligibility typically commence benefits upon first eligibility. Absent POLICE definitive experience to the contrary, we recommend the OA assume deferred benefits will commence upon first eligibility. The GRS calculation for deferred members was based on commencement of benefits upon first eligibility.
3. We recommend the OA review the development of the RASf (required member contribution) used on the entry age pass and update accordingly.

## POLICE COMPARISON OF RESULTS (\$MILLIONS)

	Office of the Actuary		Gabriel, Roeder, Smith & Company		Tolerance Test	
	Liabilities	Count	Liabilities	Count	Individual	Total
<i>Retirees Receiving Benefits</i>						
SubChapter Two	\$20,840	46,441	\$20,831	46,441	-0.04%	-0.02%
SubChapter One	1	197	1	197	0.00%	0.00%
Total Pension	20,841	46,638	20,832	46,638	-0.04%	-0.02%
SubChapter Two Supplemental	2,339		2,307		-1.37%	-0.06%
SubChapter One Supplemental	2		2		0.00%	0.00%
Total Supplemental Benefits	2,341		2,309		-1.37%	-0.06%
<b>Total Retirees Receiving Benefits Liability</b>	<b>23,182</b>		<b>23,141</b>		<b>-0.18%</b>	<b>-0.08%</b>
<i>Actives, Inactives and Terminated Vesteds</i>						
Service Retirements	15,931		15,894		-0.23%	-0.07%
Ordinary Disability	596		603		1.17%	0.01%
Accidental Disability	7,048		6,902		-2.07%	-0.27%
Ordinary Death	131		136		3.82%	0.01%
Accidental Death	55		53		-3.64%	0.00%
Vested & Deferred Retirements	287		273		-4.88%	-0.03%
Return of Contributions & Misc Liabilities	2		2		0.00%	0.00%
<b>Active Total</b>	<b>24,050</b>	<b>34,240</b>	<b>23,863</b>	<b>34,240</b>	<b>-0.78%</b>	<b>-0.35%</b>
Inactives	89	1,358	86	1,358	-3.37%	-0.01%
Terminated Vested	94	746	100	746	6.38%	0.01%
<b>Total Active/Inactive Liabilities without loads</b>	<b>24,233</b>	<b>36,344</b>	<b>24,049</b>	<b>36,344</b>	<b>-0.76%</b>	<b>-0.34%</b>
<i>VSEs</i>						
Active	2,391		2,411		0.84%	0.04%
Retired	3,585		3,527		-1.62%	-0.11%
<b>Total</b>	<b>5,976</b>		<b>5,938</b>		<b>-0.64%</b>	<b>-0.07%</b>
<i>Loads</i>						
World Trade Center (WTC)	209		209		0.00%	0.00%
Transfer	-		-		0.00%	0.00%
Reserve for Loan Insurance	4		4		0.00%	0.00%
RITHP Fix	-		-			
Accum EE Cont Adj	22		22		0.00%	0.00%
<b>Total</b>	<b>235</b>		<b>235</b>		<b>0.00%</b>	<b>0.00%</b>
<b>Total Present Value of Benefits</b>	<b>53,626</b>		<b>53,363</b>		<b>-0.49%</b>	<b>-0.49%</b>
<i>Actuarial Accrued Liability</i>						
Actives	14,006		13,761		-1.75%	-0.57%
Inactives	89		86		-3.37%	-0.01%
Terminated Vested	94		100		6.38%	0.01%
Retirees	23,182		23,141		-0.18%	-0.10%
Loads	235		235		0.00%	0.00%
VSF Active	1,622		1,613		-0.55%	-0.02%
VSF Retired	3,585		3,527		-1.62%	-0.14%
<b>Total VSF</b>	<b>5,207</b>		<b>5,140</b>		<b>-1.29%</b>	<b>-0.16%</b>
<b>Total Actuarial Accrued Liability</b>	<b>42,813</b>		<b>42,463</b>		<b>-0.82%</b>	<b>-0.82%</b>

## POLICE COMPARISON OF RESULTS (\$MILLIONS)

	Office of the Actuary		Gabriel, Roeder, Smith & Company		Tolerance Test	
	Liabilities	Count	Liabilities	Count	Individual	Total
<i>Development of Normal Cost</i>						
<i>Actives</i>						
PresentValueFut N/C_Er	9,519		9,033		-5.11%	
PresentValueFutureSalary	30,671		30,248		-1.38%	
Salary - Time 0.5 (Expected Pay Paid)	3,453		3,451		-0.06%	
Projected PresentValueFutureSalary	27,333		26,797		-1.96%	
Normal Cost Percent (ER Only)	34.83%		33.71%		-3.21%	
Salary - Time 1.5 (projected ex pay paid)	3,387		3,385		-0.06%	
Normal Cost - Actives	1,180		1,141.05		-3.26%	
<i>VSF</i>						
PresentValueFutN/C_Er	769		797		3.64%	
PresentValueFutureSalary	30,671		30,248		-1.38%	
Salary - Time 0.5	3,453		3,451		-0.06%	
Projected PresentValueFutureSalary	27,333		26,797		-1.96%	
Normal Cost Percent	2.81%		2.97%		5.71%	
Salary - Time 1.5	3,387		3,385		-0.06%	
Normal Cost - VSF	95		101		5.65%	
Normal Cost - Total	1,275		1,242		-2.60%	
<i>Assets</i>						
<i>Assets (Main Fund)</i>						
AVA	26,777		26,777		0.00%	
PV 1 - Year Adj Employer Contributions	1,306		1,306		0.00%	
PV AdminExp Reimb in Future	35		35		0.00%	
Total Main Fund Valuation Assets	28,118		28,118		0.00%	
<i>Assets (VSFs)</i>						
PSOVSF	222		222		0.00%	
POVSF	575		575		0.00%	
Total Actuarial Value of VSF Fund	797		797		0.00%	
<i>Contribution Development</i>						
Unfunded Actuarial Accrued Liability	13,898		13,548		-2.52%	
Amortization Factor						
Amortization UAAL Payment	1,027		1,001		-2.52%	-1.11%
Admin	19		19		0.00%	0.00%
Entry Age Normal Cost	1,275		1,242		-2.60%	-1.43%
Total Contribution	2,321		2,262		-2.54%	-2.54%

## FIRE

During the contribution audit for FIRE, GRS was able to replicate the OA valuation results well within our tolerances. We matched the OA results within our aggregate tolerances in every category. In addition, we matched the OA results within our individual tolerances in all but three categories.

The chart on the following page shows the details of this replication.

GRS has found no material issues in the FIRE contribution audit. Most of the differences between the OA calculations and the GRS calculations are attributable to differences in how age and service were rounded within the calculations. These differences were mostly offsetting in aggregate, but they result in material differences in some of the test case lives we reviewed. The difference in the rounding of service can be seen in test life comparisons predominately in the vesting decrement.

We have the following recommendations specific to FIRE (all of which were identified during the first engagement and are still outstanding):

1. Review the method for determining liabilities for deferred vested members. For members already terminated, the OA assumes that benefit commencement will occur in accordance with the retirement pattern for active members. However, for future deferred members, the OA assumes that benefits will commence upon first eligibility. Under the OA's methods, if deferred vested experience matches the actuarial assumption in a particular year, the valuation calculations will show a gain even though no gain occurred. We recommend the OA make the assumed commencement of benefits the same for current deferred members and future deferred members.
2. It has been GRS' experience that uniformed members who quit before retirement eligibility typically commence benefits upon first eligibility. We recommend the OA assume deferred benefits will commence upon first eligibility. The GRS calculation for deferred members was based on commencement of benefits upon first eligibility. GRS' calculation of liabilities for current deferred members was approximately 16% higher than the OA's as a result of the differences in assumed commencement date.
3. We recommend the OA include the liabilities for "other service." This service is currently reported on the data file. Although there are not a significant number of members with this service, it does not add any significant complications to the valuation model and is fairly simple to model.
4. We recommend that the OA review the modeling of the Auto COLA for certain beneficiaries. We identified some modeling of the Auto COLA in the test lives that differed from our expectations.



## FIRE COMPARISON OF RESULTS (\$MILLIONS)

	Office of the Actuary		Gabriel, Roeder, Smith & Company		Tolerance Test	
	Liabilities	Count	Liabilities	Count	Individual	Total
<i>Retirees Receiving Benefits</i>						
SubChapter Two	\$9,355	16,454	\$9,359	16,454	0.04%	0.02%
SubChapter One	5	463	5	463	0.00%	0.00%
Total Pension	9,360	16,917	9,364	16,917	0.04%	0.02%
SubChapter Two Supplemental	903		886		-1.88%	-0.08%
SubChapter One Supplemental	7		7		0.00%	0.00%
Total Supplemental Benefits	910		893		-1.87%	-0.08%
<b>Total Retirees Receiving Benefits Liability</b>	<b>10,270</b>		<b>10,257</b>		<b>-0.13%</b>	<b>-0.06%</b>
<i>Actives, Inactives and Terminated Vested</i>						
Service Retirements	2,750		2,740		-0.38%	-0.05%
Ordinary Disability	663		657		-0.97%	-0.03%
Accidental Disability	6,082		6,004		-1.28%	-0.37%
Ordinary Death	93		96		2.46%	0.01%
Accidental Death	90		87		-3.99%	-0.02%
Vested & Deferred Retirements	29		29		-0.69%	0.00%
Return of Contributions & Misc Liabilities	-		-		0.00%	0.00%
<b>Active Total</b>	<b>9,708</b>	<b>10,267</b>	<b>9,612</b>	<b>10,267</b>	<b>-0.99%</b>	<b>-0.46%</b>
Inactives	4	12	5	12	9.52%	0.00%
Terminated Vested	4	30	5	30	23.81%	0.00%
<b>Total Active/Inactive Liabilities without loads</b>	<b>9,716</b>	<b>10,309</b>	<b>9,622</b>	<b>10,309</b>	<b>-0.98%</b>	<b>-0.45%</b>
<i>VSFs</i>						
Active	465		469		0.95%	0.02%
Retired	579		584		0.83%	0.02%
Total	1,044		1,053		0.88%	0.04%
<i>Loads</i>						
World Trade Center (WTC)	36		36		0.00%	0.00%
Transfer	-		-		0.00%	0.00%
Reserve for Loan Insurance	1		1		0.00%	0.00%
Accum EE Cont Adj	(102)		(102)		0.00%	0.00%
Total	(65)		(65)		0.00%	0.00%
<b>Total Present Value of Benefits</b>	<b>20,966</b>		<b>20,867</b>		<b>-0.47%</b>	<b>-0.47%</b>
<i>Actuarial Accrued Liability</i>						
Actives	5,967		5,927		-0.67%	-0.23%
Inactives	4		5		9.52%	0.00%
Terminated Vested	4		5		23.81%	0.01%
Retirees	10,270		10,257		-0.13%	-0.08%
Loads	(65)		(65)		0.00%	0.00%
VSF Active	315		313		-0.57%	-0.01%
VSF Retired	579		584		0.83%	0.03%
Total VSF	894		897		0.34%	0.02%
<b>Total Actuarial Accrued Liability</b>	<b>17,075</b>		<b>17,026</b>		<b>-0.28%</b>	<b>-0.28%</b>

## FIRE COMPARISON OF RESULTS (\$MILLIONS)

	Office of the Actuary		Gabriel, Roeder, Smith & Company		Tolerance Test	
	Liabilities	Count	Liabilities	Count	Individual	Total
<i>Development of Normal Cost</i>						
Actives						
PresentValueFut N/C_Er	3,629		3,563		-1.82%	
PresentValueFutureSalary	10,940		10,885		-0.50%	
Salary - Time 0.5 (Expected Pay Paid)	1,105		1,103		-0.18%	
Projected PresentValueFutureSalary	9,872		9,782		-0.91%	
Normal Cost Percent (ER Only)	36.76%		36.42%		-0.92%	
Salary - Time 1.5 (projected ex pay paid)	1,100		1,098		-0.18%	
Normal Cost - Actives	404		400		-1.10%	
VSF						
PresentValueFutN/C_Er	150		157		4.67%	
PresentValueFutureSalary	10,940		10,885		-0.50%	
Salary - Time 0.5	1,105		1,103		-0.18%	
Projected PresentValueFutureSalary	9,872		9,782		-0.91%	
Normal Cost Percent	1.52%		1.60%		5.63%	
Salary - Time 1.5	1,100		1,098		-0.18%	
Normal Cost - VSF	17		18		5.44%	
Normal Cost - Total	421		418		-0.84%	
<i>Assets</i>						
Assets (Main Fund)						
AVA	8,521		8,521		0.00%	
PV 1 - Year Adj Employer Contributions	419		419		0.00%	
Total Main Fund Valuation Assets	8,940		8,940		0.00%	
Assets (VSFs)						
FOVSF	277		277		0.00%	
FFVSF	439		439		0.00%	
Total Actuarial Value of VSF Fund	716		716		0.00%	
<i>Contribution Development</i>						
Unfunded Actuarial Accrued Liability	7,419		7,370		-0.66%	
Amortization Factor						
Amortization UAAL Payment	549		545		-0.66%	-0.37%
Entry Age Normal Cost	421		418		-0.84%	-0.36%
Total Contribution	970		963		-0.73%	-0.73%

**NEW YORK CITY RETIREMENT SYSTEMS**

ACTUARIAL EXPERIENCE INVESTIGATION

FOR THE FOUR-YEAR AND TEN-YEAR PERIODS ENDING  
JUNE 30, 2013

Distribution Date 10/23/2015

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SECTION I  
EXECUTIVE SUMMARY

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## EXECUTIVE SUMMARY

Gabriel, Roeder, Smith & Company (GRS) was retained by the Comptroller to serve as Independent Actuary under Section 96 of the New York City Charter and provide other services related to the review of the funding of the following five actuarial pension funds (collectively NYCRS or the Systems):

- New York City Employees' Retirement System (NYCERS);
- Teachers' Retirement System of the City of New York (TRS);
- Board of Education Retirement System of the City of New York (BERS);
- New York City Police Pension Fund (POLICE); and
- New York Fire Department Pension Fund (FIRE).

GRS was required to conduct two consecutive biennial actuarial engagements, encompassing the following:

- Biennial Contribution Audits of the computed employer contributions for each System in NYCRS for fiscal years 2012 and 2014 (including an audit of actuarial accrued liabilities and actuarial valuation of assets);
- Biennial Experience Studies for the periods ending June 30, 2011 and June 30, 2013, for each System in NYCRS;
- Two Administrative Reviews of the data gathering and maintenance practices of the Office of the Actuary (OA) and each System in NYCRS (one review corresponding with each Contribution Audit); and
- Two Independent Actuarial Statements (one for each engagement); GRS, as the independent actuarial auditor, will submit a statement that will briefly describe the scope of the entire engagement, will review the entire engagement and comment on the financial condition and financing progress and policies of each System, and certify that the Systems are being funded on a sound actuarial, financial, and legal basis.

This report constitutes the deliverable with respect to the Experience Study for the second engagement. The purpose of this study is to:

- Update the Experience Study database with membership data as of June 30, 2012 and June 30, 2013;
- Mature the database with status changes;
- Review actual experience for the four-year period ending June 30, 2013 and compare with assumed experience;
- Review actual experience for the ten-year period ending June 30, 2013 and compare with assumed experience; and
- Indicate areas where experience deviated from current assumptions to an extent the Actuary can investigate and modify the current assumption, if appropriate.

Specific detail on each System is provided throughout the report. In general, we have the following initial comments:

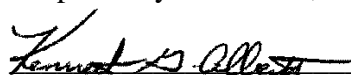
- We find the current inflation, wage inflation and investment return assumption reasonable. However, we recommend the OA consider lowering the investment return assumption based on the current market expectations and investment policies of the Systems.
- Longevity continues to improve for the NYCRS plans and the country as a whole. The experience for NYCRS has outpaced the current assumptions and thus the post-retirement mortality assumptions needs to be updated for new information and expectations. This is the most material finding from this report.

## ORGANIZATION OF REPORT

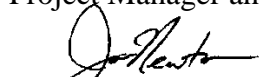
Section II contains documentation on our processes and procedures. Section III contains an analysis on the economic assumptions, including inflation, wage inflation, and investment return. Section IV contains an aggregate analysis on post-retirement mortality. Section V contains five subsections for a summary of the results for each System, including an illustrative impact on the costs and liabilities if the proposed recommendations were adopted. Finally, Section VI provides the reconciled data for each group for each assumption by age and/or service compared to the current assumptions.

This study was conducted in accordance with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. The undersigned all have extensive experience providing actuarial and consulting services to large public retirement systems. Joseph Newton and Danny White are Members of the American Academy of Actuaries (M.A.A.A.) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. We wish to thank the Office of the Actuary (“OA”) for their assistance in providing data and support information for this study.

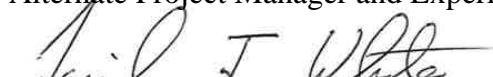
Respectfully Submitted,



Kenneth G. Alberts  
Project Manager and Contribution Audit Director



Joseph P. Newton, F.S.A., E.A., M.A.A.A.  
Alternate Project Manager and Experience Study Director



Danny White, F.S.A., E.A., M.A.A.A.  
Experience Study Director

10/23/2015  
Date

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## SECTION II

### KEY METHODOLOGIES AND PROCEDURES

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## **KEY METHODOLOGIES AND PROCEDURES**

A periodic review and selection of the actuarial assumptions is one of many important components of understanding and managing the financial aspects of a Retirement System. Use of outdated or inappropriate assumptions can result in understated costs which will lead to higher future contribution requirements or perhaps an inability to pay benefits when due; or, on the other hand, produce overstated costs which place an unnecessarily large burden on the current generation of members, employers, and taxpayers.

A single set of assumptions is typically not expected to be suitable forever. As the actual experience unfolds or the future expectations change, the assumptions should be reviewed and adjusted accordingly.

The purpose of this report is to measure actual experience and provide our best estimate recommendations for assumptions going forward. An assumption that differs from our best estimate recommendation may still be reasonable. The fact that our best estimate recommendation is different than an assumption currently in use is not an indication of whether or not the current assumption is reasonable. There are many reasonable actuarial assumption sets that could be supported. Some reasonable assumption sets would show higher or lower liabilities or costs. For example, while our analysis may conclude that a generational approach to mortality projections is appropriate, others might argue that a different approach is also reasonable. The Actuarial Audit of Employer Contributions discussed the reasonableness of the current assumptions. That report states that methods and assumptions in use for the Fiscal Year 2014 employer contribution determination (June 30, 2012 Lag Valuation) are reasonable.

## **SUMMARY OF PROCESS**

In determining liabilities and contribution recommendations for retirement plans, actuaries must make assumptions about the future. The assumptions that must be made include:

- Retirement probabilities
- Mortality probabilities
- Turnover probabilities
- Disability probabilities
- Investment return rate
- Salary increase rates
- Inflation rate

For some of these assumptions, such as the mortality probabilities, past experience provides important evidence about the future. For others, such as the investment return assumption, the link between past and future results is much weaker. In either case, actuaries should review the plan's assumptions periodically and determine whether these assumptions are consistent with actual past experience and with anticipated future experience.

In conducting experience studies, actuaries generally use data over a period of several years. This is necessary in order to gather enough data so that the results are statistically significant. In addition, if the study period is too short, the impact of the current economic conditions may lead to misleading results. It is known, for example, that the health of the general economy can impact salary and withdrawal behavior. Using results gathered during a short-term boom or bust may not be representative of the long-term trends in these assumptions. Also, the adoption of legislation, such as plan improvements or changes in salary schedules, will sometimes cause a short-term distortion in the experience. For example, if an early retirement window was opened during the study period, we would usually see a short-term spike in the number of retirements followed by a dearth of retirements for the following two-to-four years. Using a longer period prevents giving too much weight to such short-term effects. On the other hand, using a much longer period may suppress the ability to identify or adjust for real changes in patterns that may be occurring, such as mortality improvement or a change in the ages at which members retire. In our view, using a four-to ten-year period is reasonable. In a few instances, we chose to use a longer period in order to further increase the soundness of our conclusions.

The last actuarial experience investigation was performed as of June 30, 2009. For the current experience study, we have added four new years of experience data. Note that the remainder of the data overlaps with prior experience studies.

If the data leads an actuary to conclude that new tables are needed, an actuary may "graduate" or smooth the results, since the raw results can be quite uneven from age to age or from service to service.

### **Sources of Data**

For each System, we received the experience study database that was developed by the prior actuarial auditor, referred to in this document as the "Historical Database." GRS also received the source valuation files for the June 30, 2010 through June 30, 2013 valuation dates from the OA.

The Historical Database, consisting of data from June 30, 2001 through June 30, 2009, was rolled forward to June 30, 2013 using the same status-assignment methodology as the prior actuarial auditor.

Social Security Numbers (SSN) were used as the Unique Identifier in this database. Any record without an SSN was removed. If two (or more) records contained identical Social Security Numbers, the record(s) carrying less liability was (were) removed. Additionally, if a record had statuses associated with those of a deceased member or a beneficiary for the entire experience study period, the record was removed.

When statuses were initially assigned to the database for years June 30, 2001 to June 30, 2013, GRS determined the statuses taken together were not yet an accurate reflection of how members progress through the Retirement System. GRS then matured the database by applying certain

business rules. This is the process of updating past and current status fields in the experience study database, based on the more recent source data. For example, based on the timing of the data file, a member could be active in year 1, filed for disability retirement late during year 1, was being processed as the data file for year 2 was created and thus showed up in year 2 as a termination or a service retirement, received approval for disability during year 2 and thus showed up as a disability in the year 3 data file. For the valuation process, this member should be treated as a disability retirement from year 2 (the initial decrement year). The maturation process would reset the status in year 2 to be a disability retirement. In Section V, we show the business rules used for the maturation process and the changes that resulted from application of the business rules for each System individually. All business rules were applied to mature the database so that all members appear to have a more reasonable progression of statuses. The specific business rules for each System are described in Section V.

We observed a significant number of disabled members who are not initially classified as a disabled retiree and reclassified two or three years later. In addition, certain members who terminate service are classified as active-inactive, with some returning to work and some not. As a result, we have excluded the un-matured reconciliations for fiscal years 2012 and 2013 in the experience study analysis for the withdrawal and disability assumptions because information from the fiscal year 2014 and 2015 data will be needed to complete the process. In other words, the recent period analysis is for the four-year period ending June 30, 2011 and the longer-term experience period is for the eight-year period ending June 30, 2011 for these two assumptions (withdrawal and disability). We believe this adjustment significantly improves the credibility of the experience for reviewing these particular assumptions as it is likely that the experience from those two years will be modified in a future maturation process.

The data was then exported from the database and run through GRS' experience study software. The results of all valuation runs were imported into a single workbook. This workbook was used to complete the analysis of the different decrements and prepare all tables for the report.

### **Data Elements and Application**

In an experience study, we first determine the number of deaths, retirements, etc. that occurred during the period. Then we determine the number expected to occur, based on the current actuarial assumptions. The number of "expected" decrements is determined by multiplying the probability of the occurrence at the given age/service by the "exposures" at that same age/service. The number of exposures can only be those members eligible for the given decrement at that time. Thus they are considered "exposed" to that assumption. Finally, we calculate the A/E ratio, where "A" is the actual number (of retirements, for example) and "E" is the expected number. If the current assumptions were "perfect," the A/E ratio would be 100%. When the A/E ratio varies much from 100%, it is a sign that new assumptions may be needed. However, it is important to consider the number of "lives" exposed before drawing conclusions. The smaller the exposure, the less likely the A/E ratio will be close to 100% (except by coincidence) even for an assumption that does not need to be changed. In addition, in some cases it may be preferred to produce an A/E ratio a little above or below 100% to introduce some

conservatism. Of course, we not only look at the assumptions as a whole, but we also review how well they fit the actual results by gender, by age, and by service. Section V details how we determined the status for each individual member for each year.

### **Determining Exposures**

First, for each fiscal year included in the study, we tested each record on the experience study data file that had a status code (i.e., each record for which the applicable status code was non-blank) as of the beginning of the fiscal year to determine whether the record (member) met the exposure criteria to be counted as an exposure for that year for that decrement. That is, to study the experience of fiscal year X, we tested the status field corresponding to fiscal year X-1, which is the status as of June 30, X-1. If the exposure criteria were met, the exposure count was increased by 1 for the age/service/gender node for that decrement. If the exposure criteria were not met, that member was not counted as an exposure.

The OA currently utilizes the nearest age and service at the beginning of the year to index the assumption tables and determine eligibilities for specific decrements. For example, for the June 30, 2010 valuation (Fiscal Year 2011 experience), all members with birthdates from January 1, 1960 through December 31, 1960 will be grouped together and treated as if they are age 50 for that year. This is a common approach to determine the age and/or service for a given exposure period. However, we believe this approach has drawbacks and can be improved. For example, members in several of the groups have retirement eligibilities (either reduced or unreduced) once the member attains age 55. Based on the current methodologies of determining the age for eligibilities, many members are not exposed to retirement in the year they actually turn 55. Take a member in the June 30, 2009 valuation data born on March 31, 1955. This member has an exact age of 54.25 as of the valuation date and the current procedures would group this member into the age 54 bucket for eligibilities for fiscal year 2010. Based on this approach, the model would not expose this member to retirement. However, the member will turn 55 in March of the fiscal year and thus in reality will be eligible to retire. Using the current procedures, there are large groups of members who are not exposed to retirement in the valuation (and experience study reconciliation) but who do show up as retired by the end of the year. In fact, roughly half of the members who actually retire at age 55 fall into this scenario.

We discussed an alternative model with the OA that would determine eligibilities (ages and services) as of the decrement time, or middle of the year. This is similar to using what age and service the member will attain during the next fiscal year. This would reconcile active members decrementing out even though they were not exposed to the given decrement. We performed the second engagement experience study using this alternative model and recommend the OA adopt this change in methodology in their valuations going forward.

### **Counting Actual Occurrences**

Next, for each member we tested the status code as of the end of the fiscal year to determine whether the member should be treated as an actual for that decrement. If the actual occurrence

criteria were met, the actual occurrence count was increased by 1. Since the demographic actuarial assumptions being studied (all of which come from the tables of actuarial assumptions currently being utilized by the OA for their annual actuarial valuations) are based upon either the member's age (which is the case for all the demographic assumptions other than the active member withdrawal assumptions) or the member's years of service (which is the case for only the active member withdrawal assumptions), the counts of exposures/occurrences were subdivided into counts based upon the member's age or years of service in the fiscal year of the exposure/occurrence. Depending upon the System and the specific assumption being studied, further sub counts were determined by gender, tier, or other member criteria.

We treated the member as an actual whether the model had exposed the member to the probability or not. We believe this is important as otherwise the number of expected will be understated in the valuation. Using the age 55 example above, let us assume that a group has 400 members who fell into the scenario above and retired while rounding to age 54 at the beginning of the year and another 400 who were age 55 at the beginning of the year and retired. As of the beginning of the year, assume there were 2,000 members who rounded to age 55 and thus were exposed to retirement. If only the 400 who were originally exposed were included as actuals, then the probability of retirement would be  $400/2,000 = 20\%$ . However, at the end of the year, there will actually be 800 members who show up retired with age 55 and the probability used in the model should be  $800/2,000 = 40\%$ . We recommend a method change because it is important for the model to treat actuals and expecteds consistently.

To accomplish this, when determining actuals for retirement, we categorized members based on the age and service the member had on their retirement date and rounded to the nearest integer. Utilizing this approach, we were able to eliminate most of the members who showed to be an actual for a decrement but were not yet exposed.

### **Active-Inactive Status**

Prior to the 2008 data, members who terminated from service were classified into status codes that fairly clearly meant the member had terminated from service and were reconciled in the process as a termination. Beginning in 2008, members who terminated, still have a member account balance but have not retired nor completed terminated vested paperwork began to be coded as an "F" status, which is defined as "Active-Inactive." In the valuation process, the OA values these members as terminated participants. However, in prior experience studies, these members were reconciled as if they were still active.

To study the active-inactive status, we first measured how many of the June 30, 2007 members switched to status "F" (active-inactive) as of June 30, 2008. For these individuals, we found that 43% had an active status as of June 30, 2013. Of those who returned to active status, 66% returned within one year of inactivity and 84% had returned by two years of inactivity.

Thus, as part of our maturation process, members who were active, went into an F status, and then returned to work were not included as a termination. In addition, any member who had been an F in three straight years was included as a termination.

### **Developing Expected Occurrences**

For the demographic assumption studies, counts of expected numbers of occurrences were developed by multiplying the appropriate age-based (or service-based) probabilities times the corresponding age-based (or service-based) counts of exposures, as determined following the rules/procedures described above. Again, depending upon the System and the specific assumption being studied, additional counts of "expected" were determined based upon member gender, tier, and/or other member criteria.

### **Probabilities Versus Rates**

All assumptions were analyzed as if the assumption was a "probability" rather than a "rate." This is consistent with how the assumptions are utilized in the valuation. For the remainder of this report, the terms "probabilities" and "rates" can be used interchangeably to mean "probabilities" in this context.

### **Validation of Historical Database**

To verify the reliability of the prior actuary's database, which included data through June 30, 2009, GRS developed and matured a separate database using the OA's valuation data from June 30, 2001 to June 30, 2013. For consistency, the Historical Database was also rolled forward to June 30, 2013 using OA valuation data from June 30, 2010 through June 30, 2013. Both databases were setup using the same status-assignment methodology as the prior actuary.

As an additional source of comparison, GRS looked at the June 30, 2013 valuation data from the OA.

GRS found that, for all decrements except termination, actual counts between the actual June 30, 2013 OA Valuation data file and the Historical Database were reasonably consistent. Based on this analysis, GRS concluded it is acceptable to rely on the Historical Database. However, the termination assumption could not be confirmed by this process and it appears members marked as Active-Inactive were treated as active members in the prior study. Based on how these members are used in the actuarial valuation, these members should be treated as a terminated (non-active) member. We have made the adjustments for past periods accordingly.

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## SECTION III

### ANALYSIS OF GENERAL ECONOMIC ASSUMPTIONS

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## **INFLATION AND INVESTMENT RETURN ASSUMPTIONS**

Actuarial Standards of Practice (ASOP) No. 27, Selection of Economic Assumptions for Measuring Pension Obligations, provides guidance to actuaries giving advice on selecting economic assumptions for measuring obligations for defined benefit plans. ASOP No. 27 was revised by the Actuarial Standards Board and effective for actuarial work products with a measurement date after October 1, 2014. Our recommended economic assumptions are intended to comply with this revised practice standard.

As no one knows what the future holds, it is necessary for an actuary to estimate possible future economic outcomes. Recognizing that there is not one right answer, the current standard calls for an actuary to develop a reasonable economic assumption. A reasonable assumption is one that is appropriate for the purpose of the measurement, reflects the actuary's professional judgment, takes into account historical and current economic data that is relevant as of the measurement date, is an estimate of future experience; an observation of market data; or a combination thereof, and has no significant bias except when provisions for adverse deviation or plan provisions that are difficult to measure are included. However, the standard explicitly advises an actuary not to give undue weight to recent experience.

Each economic assumption should individually satisfy this standard. Furthermore, with respect to any particular valuation, each economic assumption should be consistent with every other economic assumption over the measurement period. Generally, the economic assumptions are much more subjective in nature than the demographic assumptions.

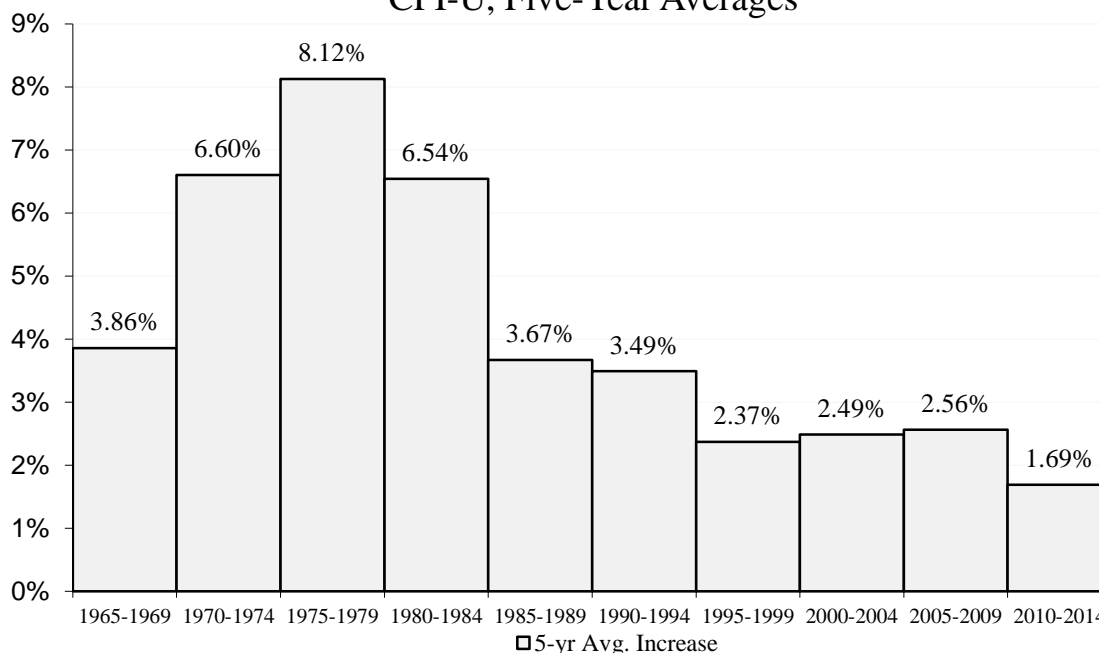
### **INFLATION ASSUMPTION**

By "inflation," we mean price inflation, as measured by annual increases in the Consumer Price Index (CPI). This inflation assumption underlies most of the other economic assumptions. It impacts investment return, salary increases for individual members, overall payroll growth, and cost-of-living increases. The current annual inflation assumption is 2.50%.

The chart on the following page shows the average annual inflation, as measured by the increase in the Consumer Price Index (CPI-U) in each of the ten consecutive five-year periods over the last fifty years.



### Average Annual Inflation CPI-U, Five-Year Averages



Source: Bureau of Labor Statistics, CPI-U, all items, not seasonally adjusted, Calendar Years

The table below shows the average inflation over various periods, ending December 2014.

Periods Ending Dec. 2014	Average Annual Increase in CPI-U
Last five (5) years	1.69%
Last ten (10) years	2.12%
Last fifteen (15) years	2.25%
Last twenty (20) years	2.28%
Last twenty-five (25) years	2.52%
Last thirty (30) years	2.71%
Since 1913 (first available year)	3.17%

Source: Bureau of Labor Statistics, CPI-U, all items, not seasonally adjusted

As you can see, inflation has been relatively low over the last twenty years. Even over a period of 30 or more years, inflation has averaged below 3% per year. It is hard to ignore the relatively steady inflation statistics over the last 25 years shown in the charts above.

Most of the investment consulting firms, in setting their capital market assumptions, currently assume that inflation will be less than 2.50%. We examined the 2015 capital market assumption sets for seven investment consulting firms: BNY Mellon, Hewitt EnnisKnupp, JP Morgan,

Mercer Consulting, Pension Consulting Alliance (PCA), New England Pension Consulting (NEPC), and RV Kuhns. The average assumption for inflation was 2.30%, with a range of 2.11% to 2.50%.

In the Social Security Administration's 2014 Trustees Report, the Office of the Chief Actuary is projecting a long-term average annual inflation rate of 2.70% under the intermediate cost assumption. (The low cost assumption was 2.00% and the high cost assumption was 3.40%.) The Chief Actuary for the Social Security Administration reduced this assumption from the prior year from 2.80%.

Another source of information about future inflation is the market for U.S. Treasury bonds. The December 31, 2014 yield for a 20-year inflation indexed Treasury bond (20-year TIPS) was 0.68% plus actual inflation. The yield for a 20-year non-indexed U.S. Treasury bond was 2.47%. This means the bond market was predicting that inflation over the next twenty years would average 1.78%  $[(1 + 2.47\%) / (1 + 0.68\%) - 1]$  per year. One year earlier, as of December 31, 2013, the spread between the 20-year inflation indexed and constant maturity bonds was noticeably higher, with a difference of 2.33%, so there has been a noticeable change in this expectation. The imputed 30-year inflation level is close to the 20-year level, being 1.90% and 2.28% at December 31, 2014 and December 31, 2013, respectively.

Also, the Philadelphia Federal Reserve conducts a quarterly survey of the Society of Professional Forecasters. Their most recent forecast (first quarter of 2015) predicts inflation over the next ten years (2015 to 2024) will average 2.1% per year. The survey forecasts have also remained relatively stable over the last few years.

Since the Retirement Systems provide a cost-of-living adjustment that is tied to the increase in CPI (i.e. 50% of the increase in CPI-U, subject to a minimum/maximum annual COLA of 1.00%/3.00%), there is some risk to selecting an inflation assumption that is too low. As a result, we recommend continued use of the 2.50% inflation assumption, which is in line, but slightly higher, than many of the benchmarks discussed.

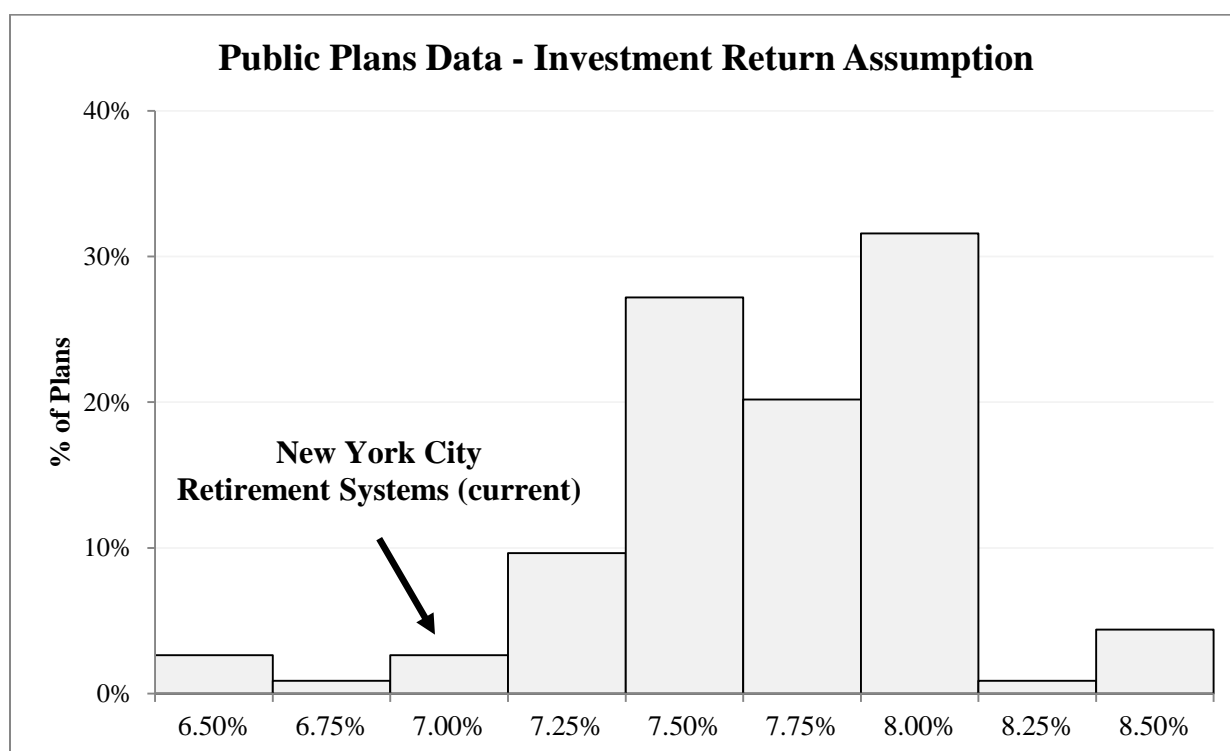
## **INVESTMENT RETURN ASSUMPTION**

The investment return assumption is one of the principal assumptions used in any actuarial valuation of a retirement plan. It is used to discount future expected benefit payments to the valuation date in order to determine the liabilities of the plans. Even a small change to this assumption can produce significant changes to the liabilities and contribution rates. Currently, it is assumed that future investment returns will average 7.00% per year, net of investment expenses. The current assumption assumes inflation of 2.50% per annum and an annual real rate of return of 4.50%, net of investment expenses.

Similar to the inflation assumption, past performance is not a reliable indicator of future performance, even when averaged over a long time period. Also, the actual asset allocation of the

trust fund will significantly impact the overall performance, so returns achieved under a different allocation are not meaningful.

The Public Plans Data as of May 7, 2015 (the most current version of the Public Fund Survey) shows that the median investment return assumption for large public plans is 7.75%. Subtracting the rate of inflation assumed for each plan gives a median real rate of return of 4.50%, which is consistent with the current real rate of return assumption for the New York City Retirement Systems. While we do not recommend the selection of an assumption based on prevalence information, it is still informative to identify where the New York City Retirement Systems are compared to their peers. Here is a chart showing the distribution of the investment return assumptions in the Public Plans Data:



Source: Public Plans Database (n=114). Median investment return assumption: 7.75% nominal return.

We believe a more appropriate approach to selecting an investment return assumption is to identify expected returns given the funds' asset allocation mapped to forward-looking capital market assumptions. Since each Retirement System has a slightly different investment policy, we performed this analysis on each System based on the target asset allocation provided to GRS by the Comptroller's Office.

Below is a summary of the asset allocations for each System that was used in the analysis.

ASSET CLASS	NYCERS	TRS	BERS	POLICE	FIRE
Domestic Equities	33%	31%	35%	34%	29%
International Equities	17%	17%	22%	16%	17%
Private Equity	7%	6%	6%	7%	7%
Real Assets and Real Estate	6%	9%	7%	6%	8%
Hedge Funds	4%	0%	0%	5%	5%
Fixed Income	33%	37%	30%	32%	34%
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Where available, investments in these asset classes were split into subgroups to refine the analysis. For example, when identifiable, the domestic equities were classified as large cap, or small/mid cap securities and fixed income were classified into core, high yield, mortgage-backed securities, TIPS, etc., as appropriate.

Because GRS is a benefits consulting firm and does not develop or maintain our own capital market assumptions, we utilized the forward-looking return expectations developed by the following investment consulting firms:

- BNY Mellon
- JP Morgan
- Mercer Consulting
- RV Kuhns
- Hewitt EnnisKnupp
- New England Pension Consultants (NEPC)
- Pension Consulting Alliance (PCA)

These investment consulting firms periodically issue reports that describe their capital market assumptions, that is, their estimates of expected returns, volatility, and correlations. While these assumptions are developed based upon historical analysis, many of these firms also incorporate forward-looking adjustments to better reflect near-term expectations. The estimates for core investments (i.e., fixed income, equities, and real estate) are generally based on anticipated returns produced by passive index funds that are net of investment related fees. The investment return expectations for the alternative asset class such as private equity and hedge funds are also net of investment expenses. Therefore, we did not make any adjustments to account for investment related expenses.

Some of the Retirement Systems may also employ active management investment strategies that result in higher investment expenses compared to strategies that invest in passive index funds. We have assumed that active management strategies would result in the same returns, net of investment expenses, as passive management strategies.

Also, since the Retirement Systems explicitly charge employers for administrative related costs, it is not necessary to adjust the investment return assumption to account for future administrative expenses.

Given the plan's current asset allocation and the investment consultant's capital market assumptions, the development of the average nominal return, net of investment expenses, is provided in the following tables.

The forward-looking return expectations were mapped to each System's target asset class allocation. During our analysis, we recognized that the actual asset allocation as of December 31, 2014 was somewhat different than the policy target. Based on information provided by the investment team in the Comptroller's Office, we understand the differences in the asset allocations are primarily due to short-term tactical strategies and assets not yet allocated to new target asset classes, such as emerging market debt. Since we are establishing a long-term assumption, we are disregarding these short-term deviations from the policy target in our analysis.

The following table provides the average rates of arithmetic return for each of the Retirement Systems.

**Expected Nominal Return Based on Short-Term Capital Market Assumptions  
 (Return Expectations for the Next 7 to 10 Years)**

<b>RETIREMENT SYSTEM</b>	<b>NYCERS</b>	<b>TRS</b>	<b>BERS</b>	<b>POLICE</b>	<b>FIRE</b>
Average Expected Return	7.04%	6.99%	7.27%	7.05%	6.96%

The average expected return for BERS is slightly higher than the other Systems because the investment policy for that that System is slightly different. Specifically, according to the adjusted investment policy, they have a higher percentage of assets allocated to equities and a slightly lower percentage of assets invested in fixed income securities.

In addition to examining the expected one-year return, it is important to review anticipated volatility of the investment portfolio and to understand the range of net returns that could be produced by the investment portfolio. The table below provides the 40<sup>th</sup>, 50<sup>th</sup>, and 60<sup>th</sup> percentiles of the 10-year geometric average of the expected nominal return, net of investment expenses, as well as the probability of exceeding the current 7.00% assumption.

**Expected Annual Geometric Returns and Return Probabilities  
 (Based on Intermediate-Term Capital Market Assumptions)**

<b>RETIREMENT SYSTEM</b>	<b>NYCERS</b>	<b>TRS</b>	<b>BERS</b>	<b>POLICE</b>	<b>FIRE</b>
60 <sup>th</sup> Percentile	7.04%	7.00%	7.22%	7.05%	6.99%
50 <sup>th</sup> Percentile	6.39%	6.35%	6.51%	6.39%	6.36%
40 <sup>th</sup> Percentile	5.73%	5.70%	5.80%	5.73%	5.73%
Probability of Exceeding 7.00%	41%	40%	43%	41%	40%

Clearly, the forward-looking expectation is more likely than not to achieve an investment return that is less than the 7.00% assumption over the intermediate term. Also, these expectations have lowered materially in the past 12-18 months, mainly due to continued decreases in bond yields. For example, this same exercise last year based on the NYCERS portfolio yielded a 6.60% expected return and 46% probability of achieving 7.00%. The decrease was driven primarily by a drop in the average forward-looking bond return from 3.63% to 3.13% across all of the consulting firms. We consider a 5% decrease in the probability to be meaningful.

The capital market assumptions provided by the investment consultants and used in the analysis above are based on a 7- to 10-year investment horizon. Investment consultants develop their forecast assumptions with this time horizon in part because most pension investment management teams use this time period for developing and monitoring their investment strategies.

On the other hand, the investment return assumption used in the actuarial valuation has a longer investment horizon. Therefore, it is necessary to identify and reflect differences in the economy and financial markets over the short-term and long-term time horizon.

Expected investment returns can be thought of as the sum of a risk-free rate of return and a risk premium. This is the fundamental premise in the Capital Asset Pricing Model (CAPM) that is used in Modern Portfolio Theory. Riskier investments have a higher risk premium to compensate the investor for the increased uncertainty. Generally, the risk premium for each asset class is constant over long periods of time. But there can be differences in the risk-free return, depending on the investor's time horizon. We define a risk-free investment as one where the expected return is known with absolute certainty. This also means that the risk-free investment has no default and reinvestment risk. Based on this definition, we believe it is reasonable to benchmark a risk-free rate using zero coupon U.S. Treasury securities. Thus a 10-year risk-free rate is equal to the current yield of a 10-year zero coupon U.S. Treasury bond, and a 20-year zero coupon U.S. Treasury bond is the risk-free rate for a 20-year time horizon. For the longer-term point, we have chosen the 20-year yield because it is close to an approximation of the duration of the liabilities of the Systems, meaning the average, interest-discounted benefit payment is expected to be paid 20 years from the valuation date (assuming an open group). As of May 9, 2015, the yields of the 10-year and 20-year zero coupon Treasury bonds were 2.62% and 3.12%, respectively. Therefore, it is reasonable to assume that as the investment time horizon expands from 10 years to 20 years, the risk-free rate of return and corresponding expected nominal return on the portfolios would be 0.50% higher over the longer, 20-year time horizon.

The table on the following page restates the 40<sup>th</sup>, 50<sup>th</sup>, and 60<sup>th</sup> percentiles of the 20-year geometric average of the expected nominal return, net of investment expenses, as well as the probability of exceeding the current 7.00% assumption, based on the same short-term capital market assumptions adjusted to reflect the different risk-free returns due to the different

investment time horizons. Please note that if this process has a bias, it is likely to be to overstate long-term return expectations.

**Expected Annual Geometric Returns and Return Probabilities  
 (Based on Intermediate-Term Capital Market Assumptions Adjusted  
 by GRS to Reflect a 20-Year Investment Horizon)**

<b>RETIREMENT SYSTEM</b>	<b>NYCERS</b>	<b>TRS</b>	<b>BERS</b>	<b>POLICE</b>	<b>FIRE</b>
60 <sup>th</sup> Percentile	7.55%	7.51%	7.72%	7.56%	7.50%
50 <sup>th</sup> Percentile	6.89%	6.85%	7.01%	6.89%	6.86%
40 <sup>th</sup> Percentile	6.23%	6.20%	6.30%	6.24%	6.23%
Average Probability of Exceeding 7.00%	49%	48%	50%	49%	48%

Based on an arithmetic mean of approximately 7.00% for each of the Systems, we find the current 7.00% reasonable.

However, even after adjusting for time horizon, the results show that the probability of the investment return exceeding the 7.00% return assumption are slightly less than 50%. While there is nothing certain in these probabilities as they are also based on assumptions, based on this analysis and the current investment portfolios we recommend the OA consider lowering the assumed investment return. While the likelihood of attaining a 7.00% investment return is closer to 50% over the next longer term, the probabilities over the next decade are much lower. If the returns over this period do in fact underperform, it would lead to actuarial losses and increased employer contributions. For illustrative purposes, we have shown the financial impact of a 6.75% assumption for each System in the impact section.

We believe this recommendation satisfies the reasonable assumption requirement under ASOP No. 27 as revised and adopted in September 2013. Also, this recommendation is consistent with the recommendations regarding the use of an investment return assumption that is estimated to be realizable at least 50% of the time from a report released by the Society of Actuaries Blue Ribbon Panel on public pension plan funding in February 2014.

**General Wage Inflation**

The OA currently assumes that General Wage Inflation will be 0.50% above price inflation. The 0.50% represents the real wage growth over time.

Historically, General Wage Inflation almost always exceeds price inflation. This is because wage inflation is in theory the result of (a) price inflation, and (b) productivity gains being passed through to wages. For the last 10 years, for the economy as a whole, wage inflation has outpaced price inflation by about 0.45%, and for the last 20 years, wage inflation has exceeded price

inflation by about 0.85%. Since 1951, wage inflation has been about 1.00% larger than price inflation each year.

The current assumption is consistent with national trends. It is reasonable to expect more pressure on depressing the rate of future salary increases due to projected increases in the cost of providing employee retirement and healthcare benefits.

### **Individual Salary Increase Rates**

In order to project future benefits, an actuary must project future salary increases. Employees receive salary increases for a variety of reasons:

- Across-the-board increases for all employees;
- Across-the-board increases for a given group of employees;
- Increases to a minimum salary schedule;
- Additional pay for additional duties;
- Step or service-related increases;
- Increases for acquisition of advanced degrees or specialized training;
- Promotions; or
- Merit increases, if available.

The salary increase assumption used in an actuarial valuation is meant to reflect all of these types of increases.

An actuary should not look at the overall increases in payroll in setting this assumption because payroll can grow at a rate different from the average pay increase for individual members. To analyze salary increases, we examine the actual increase in salary for each member who is active in two consecutive fiscal years.

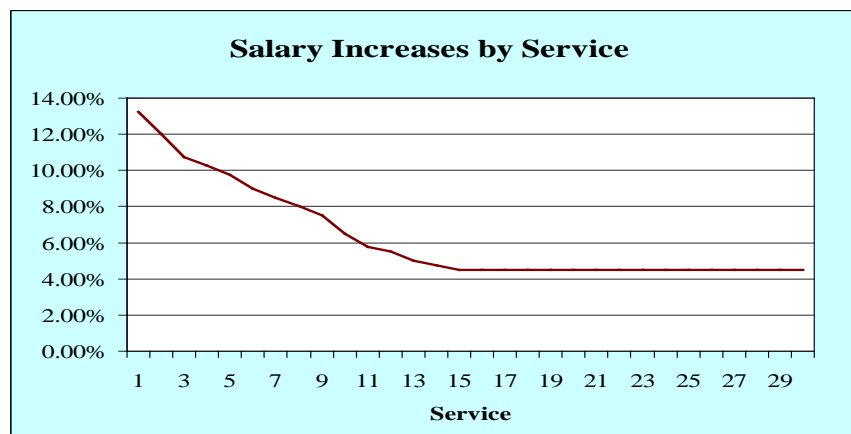
Salary increases for governmental employees can vary significantly from year to year. When the employer's tax revenues stall or increase slowly, salary increases often are small or nonexistent. During good times, salary increases can be larger. Also, the pattern of contracts being negotiated with retroactive provisions can cause volatile patterns. Our experience across many governmental plans shows several occasions in which salary increases will be low for a period of several years followed by a significant increase in one year. Therefore, we prefer to use data over a longer period in establishing these assumptions.

Most actuaries recommend salary increase assumptions that depend on the member's age or service, especially for large, public retirement systems. It is typical to assume larger pay increases for younger or shorter-service employees. This reflects pay increases that accompany step increases, changes in job responsibility, promotions, demonstrated merit, etc. The experience shows salaries have been more closely correlated to service (rather than age), as promotions and productivity increases tend to be greater in the first few years of a career, even if the new employee is older than the average new hire.



We analyzed the salary increases based on the change in the member's reported pay from one year to the next. That is, we looked at each member who appeared as an active member in two consecutive valuations individually, and measured his/her salary increase. Then we grouped the increases for all members with the same service, and determined their average increase.

If we graph the increases by service, we usually get a graph where the increases are larger for shorter service employees and then level out at a lower level after a period that may be ten to twenty-five years. It might look like this, although in practice not this smooth:



Therefore, we divide the salary increase assumption into two pieces:

1. Determining the assumption for long-service employees; and
2. Determining the additional increases to be applied to shorter-service employees.

### Salary Increase Assumptions for Long-Service Employees

Many of the factors that result in pay increases are largely inapplicable or have diminished importance for longer-service employees. Step or service-related increases have stopped or are minimal. Promotions occur with less frequency. Additional training or acquisition of advanced degrees usually occurs early in the career. In theory, then, salary increases for longer-service employees are almost entirely driven by wage inflation and only a minimal amount of merit should be assumed. The Actuary currently utilizes this two-component salary assumption, assuming long-service employees will have salary increases equal to General Wage Inflation (3.00% above) plus a small factor for merit.

We agree that this approach is reasonable.

However, in this type of analysis, when there is a merit assumption for the long-term members, it is difficult to separate where the General Wage Inflation ends and where the merit begins for those members. For example, if the actual inflation was exactly 2.50% and the actual increase for the long-term members was 3.50%, how would one differentiate how much of the additional 1.00% was a general increase and how much was merit?

In an attempt to separate the two items, we collected data providing the negotiated across-the-board salary increases during the study period. The negotiated increases should represent the general wage increase, and then any increase received by long-service members above this amount would be the additional merit. There were enough inconsistencies between the negotiated increases and the actual increases seen in the valuation data, in amount and timing, that we did not feel a direct comparison would be credible enough to provide a meaningful merit assumption.

Thus, for the merit analysis, we have categorized all increases above inflation for long-service employees as the General Increase over Inflation (assuming the general wage increase will be 1.00% above inflation in the example above). The analysis for each System is provided in Section V.

### **Overtime Assumptions**

For NYCERS, POLICE, and FIRE, members can include overtime in their pensionable earnings. For all groups, the amount of actual overtime worked during the experience period has been materially higher than the current assumptions, especially in the period just before retirement that would be included in their pension benefit calculation. We understand the City is implementing several strategies to curtail the amount of overtime going forward for most groups, including adding additional members, and that may be taken into account for setting the prospective assumption. However, in our experience with similar situations with other clients, curtailing the amount of overtime, especially during the final averaging period, has proven to be difficult. We have provided recommendations for these assumptions, but the OA will have more detail on the specific strategies being implemented and be in a better position to make the final decision on the new assumptions.

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## SECTION IV

### ANALYSIS OF POST-RETIREMENT MORTALITY

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## ANALYSIS OF POST-RETIREMENT MORTALITY

The issue of future mortality improvement is one that the governing bodies of our profession have increasingly become more focused on studying and ensuring that the actuarial profession remains on the forefront of this issue. This has resulted in recent changes to the relevant Actuarial Standard of Practice, ASOP 35, Selection of Demographic and Other Noneconomic Assumptions for Measuring Pension Obligations, and published practice notes. This ASOP now requires pension actuaries to make and disclose an assumption as to expected mortality improvement after the valuation date. The following are excerpts directly from the Standard:

*“As mortality rates have continued to decline over time, concern has increased about the impact of potential future mortality improvements on the magnitude of pension commitments. Section 3.5.3 of current ASOP No. 35 lists “the likelihood and extent of mortality improvement in the future” as a factor for the actuary to consider in selecting a mortality assumption. In the view of many actuaries, the guidance regarding mortality assumptions should more explicitly recognize estimated future mortality improvement as a fundamental and necessary assumption, and the actuary’s provision for such improvement should be disclosed explicitly and transparently.”*

*“The resources reviewed by the Pension Committee showed that demographers generally expect that mortality will continue to improve. These resources noted that some scientists argue that human life has biological limits, and that the rate of mortality improvement could slow as a result of obesity or other emerging health issues, but that such limits and countervailing factors do not alter the scientific consensus of likely continuing improvements in mortality.”*

*“The actuary should consider the effect of mortality improvement both prior to and subsequent to the measurement date. With regard to mortality improvement, the actuary should do the following:*

- i. **adjust mortality rates to reflect mortality improvement prior to the measurement date.** For example, if the actuary starts with a published mortality table, the mortality rates may need to be adjusted to reflect mortality improvement from the effective date of the table to the measurement date. Such an adjustment is not necessary if, in the actuary’s professional judgment, the published mortality table reflects expected mortality rates as of the measurement date.*
- ii. **include an assumption as to expected mortality improvement after the measurement date.** This assumption should be disclosed in accordance with Section 4.1.1, even if the actuary concludes that an assumption of zero future improvement is reasonable as described in Section 3.1. **Note that the existence of uncertainty about the occurrence or magnitude of future mortality improvement does not by itself mean that an assumption of zero future improvement is a reasonable assumption.**”*

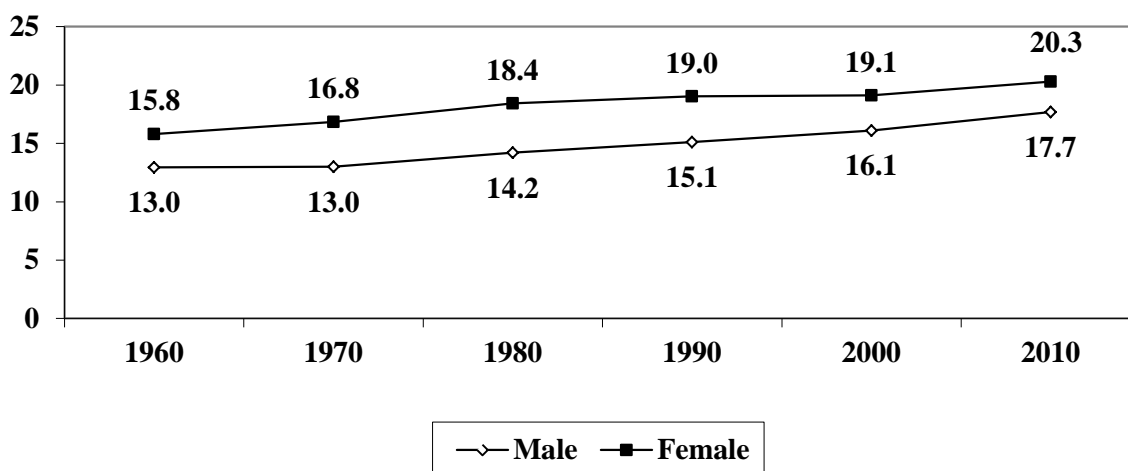
As you will note, we have highlighted the above sentences we feel need to be emphasized. To meet this standard, a recent trend in actuarial models is to use mortality tables that explicitly

incorporate projected mortality improvements over time. This type of table (or series of tables) is called “generational mortality.” Historically, actuarial models have been constrained to static mortality tables due to two primary reasons: (1) a general belief that there was a limit on the ultimate longevity and (2) the added complexity of a generational mortality type model and limitations in computational power. A static mortality table would be used and updated with each experience study to reflect the most recent mortality. Historically, this would almost always result in adoption of lower mortality rates creating losses for plans and unfunded past service liabilities.

With advances in computing power, it has become a more mainstream practice to incorporate generational mortality models. The idea behind adopting a generational mortality model is to avoid the experience study “correction” factor. While minor adjustments may need to be made in the future, the constant bias towards needing to reduce mortality rates is avoided.

The expectation of continued increases in longevity is supported by national trends. The following graph provides the expected remaining lifetime in years for a 65-year old retiree measured beginning in 1960. Notice the recent uptrend in female longevity after almost two decades of relatively minimal improvement. This significant change in pattern (most of which has occurred since 2004) has led most of the actuarial profession to agree that future improvements will likely continue.

### Life Expectancy in Years, Current Age 65



National Vital Statistics Reports, Vol 58, No 21, June 2010

National Vital Statistics Reports, Vol 60, No 4, January 2011

The most current mortality tables and improvement assumptions have recently been published in a report by the Society of Actuaries' Retirement Plans Experience Committee's (RPEC) in October of 2014. The following are excerpts from the Society of Actuaries Report on their mortality improvement scale, referred to as MP-2014:

*“In late 2009, RPEC initiated a comprehensive analysis of pension plan mortality experience in the United States. At an early stage of its analysis, the Mortality Improvement subcommittee of RPEC noticed that mortality improvement experience in the United States since 2000 was clearly different from that anticipated by Scale AA. In particular, there was a noticeable degree of mismatch between the Scale AA rates and actual mortality experience for ages under 50, and the Scale AA rates were lower than the actual mortality improvement rates for most ages over 55. Given that the full Pension Mortality Study was still many months from completion at that time, the SOA decided to publish interim mortality improvement Scale BB, which provided pension actuaries with a more up-to-date alternative to Scale AA for the projection of base mortality rates beyond calendar year 2000.”*

RPEC recognizes that there is a wide range of opinion with respect to future levels of mortality and that the assumptions underlying mortality improvement reflect some degree of subjectivity. RPEC characterized the assumptions that underpin Generational Scale BB (including a 1.0% long-term rate of mortality improvement and limited cohort effects) as a temporary projection scale to overcome perceived short-comings of Scale AA (noted above) until RPEC could finalize an updated generational mortality assumption, which they now refer to as MP-2014.

Based on the recent strengthening of the Standards of Practice, GRS has been increasingly recommending our clients use a fully generational approach for mortality assumptions, and almost all of them have accepted the new projection method. By doing this, future mortality rates will be projected to continually decrease each year. Therefore, the life expectancy at age 60 for someone reaching 60 now will not be as long as the life expectancy for someone reaching 60 in 2020, and their life expectancy will not be as long as someone reaching 60 in 2040, etc. For illustrative purposes, the following table provides the life expectancy for individuals retiring in future years, based on the recently published Retirement Pensioners 2014 (RP-2014) healthy annuitant mortality tables, with full generational projection using the Society of Actuaries mortality improvement scale MP-2014.

<b>Proposed Life Expectancy for an Age 60 Retiree in Years</b>					
<b>Gender</b>	<b>Year of Retirement</b>				
	2010	2015	2020	2025	2030
Male	25.6	26.1	26.5	27.0	27.4
Female	28.1	28.5	29.0	29.4	29.8

Because of this assumption of continuous improvement, life expectancies for today's younger active members are expected to be materially longer than those of today's retirees. The improvement over time is built into the projections for individual members.

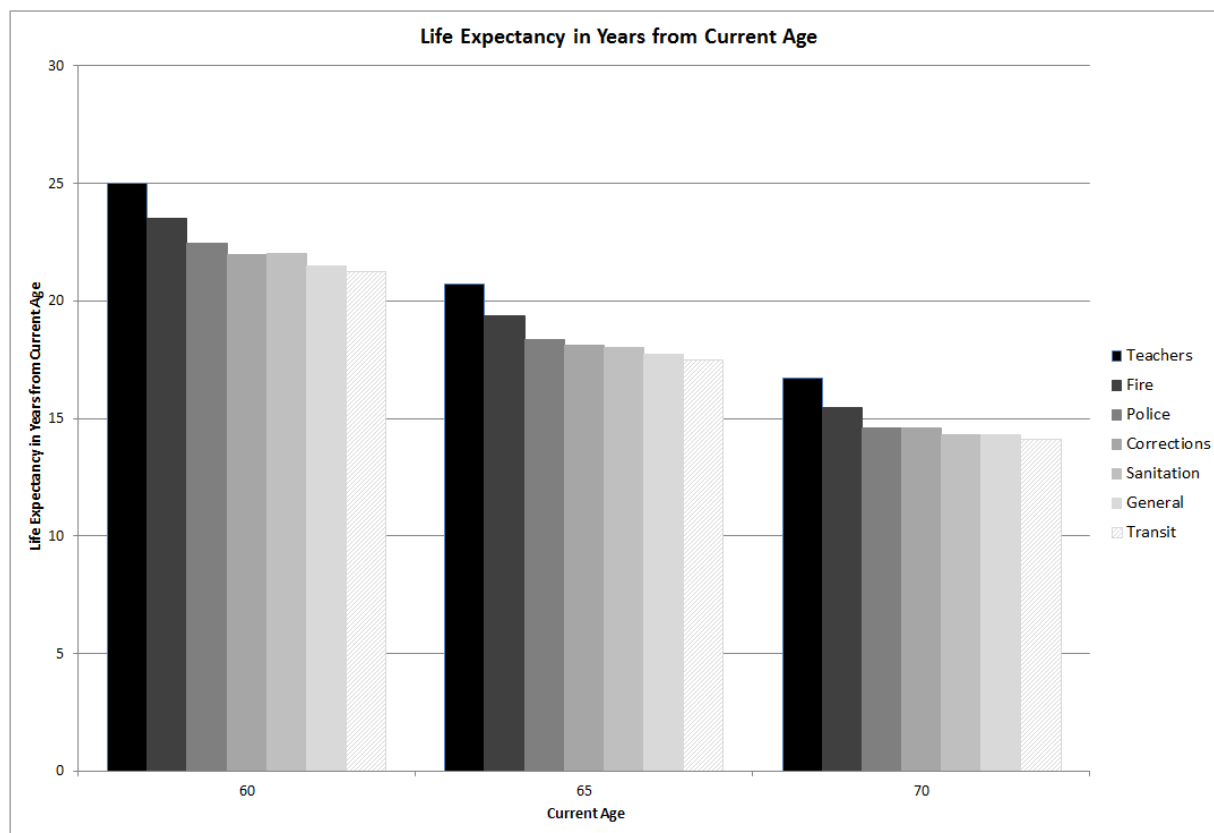
It is important to note that the liabilities and costs for the current valuation would be equal under a static or generational approach to mortality improvement if the static tables are set properly. It is the systematic inclusion of continuous improvement that will impact future valuations and experience studies.

## NYCRS SPECIFIC ANALYSIS

NYCRS' actuarial liabilities and retirement contribution rates depend in part on how long retirees live. If members live longer, benefits will be paid for a longer period of time and the liability and ultimate employer contribution rates will be larger.

Based on experience observed in prior experience studies, the OA currently has separate mortality tables for all five individual Systems. This is a fairly common practice and is appropriate because individual employee groups may have measurably different rates of mortality.

The following graphic provides the life expectancy, in years, from a given age for each classification of retiree. These values are based on the actual data, not on the current assumption.



As shown, the life expectancy for retirees in TRS is substantially larger than the life expectancy of the retirees in the other Systems. Retirees in FIRE have the second highest life expectancy, followed by retirees in POLICE. The other classifications are under NYCERS and currently share the same mortality table. This experience supports the use of slightly different mortality assumptions (e.g., different multipliers, age set-backs, or different versions of base tables) for the Systems with materially different mortality expectations.



Currently, the OA has “Base” tables and “Valuation” tables. The Base tables represent the fit to the data as of the end of the prior experience study, June 30, 2009. The Valuation tables are the Base tables projected forward to account for future improvements in mortality using Scale AA.

When choosing an appropriate mortality assumption, actuaries typically use standard mortality tables, unlike when choosing other demographic assumptions. They may choose to adjust these standard mortality tables, however, to reflect various characteristics of the covered group, and to provide for expectations of future mortality improvement (both up to and after the measurement date). If the plan population has sufficient credibility to justify its own mortality table, then the use of such a table also could be appropriate. Factors that may be considered in selecting and/or adjusting a mortality table include the demographics of the covered group, the size of the group, the statistical credibility of its experience, and the anticipated rate of future mortality improvement.

The mortality tables currently used in the annual valuation for non-disabled retirees and for beneficiaries receiving benefits are System specific tables, projected using scale AA and based on the individual experience of each group. The tables have separate rates for males and females. The current application is what we refer to as a “static” table. The mortality rate for a 65-year-old male is projected to be the same in 30 years as it is today, with no accommodations for *continued* mortality improvements expected over time.

We first measured the credibility of the dataset to determine whether standard, unadjusted tables should be used or if statistical analysis of NYCERS specific data was warranted. Based on a practice note issued by the American Academy of Actuaries in the Fall of 2011, a dataset needs 96 expected deaths for each gender to be within +/- 20% of the actual pattern with 95% confidence. We believe +/- 20% is a rather large range to be considered fully credible. Other sources state higher requirements, such as 1,000 deaths per gender. The following table gives the number of deaths needed by gender to have a given level of confidence that the data is +/- X% of the actual pattern.

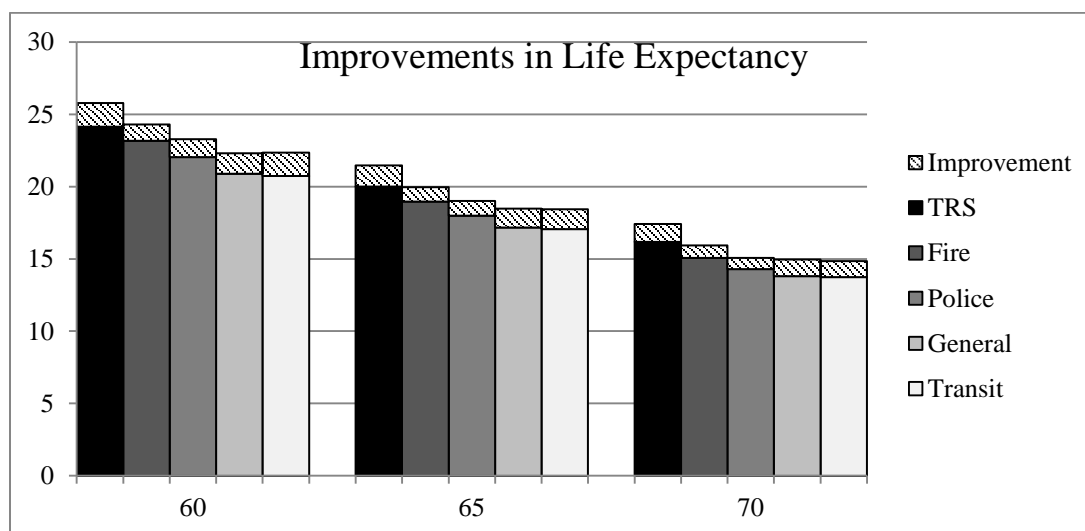
Standard Score	Confidence	99% – 101%	97% – 103%	95% – 105%	90% – 110%	80% – 120%
0.674	75%	4,543	505	182	45	11
1.282	80%	16,435	1,826	657	164	41
1.645	90%	27,060	3,007	1,082	271	68
1.96	95%	38,416	4,268	1,537	384	96
2.576	99%	66,358	7,373	2,654	664	166

Using this information, 1,082 deaths are needed by gender to have 90% confidence that the data is within +/- 5% of the actual pattern. NYCERS General had 12,721 male deaths during the 10-year period, clearly indicating they are a fully credible group. Other groups are smaller, but even the 10-year data for FIRE had 1,970 male deaths, indicating very high credibility. Based on this level

of credibility, we conclude it is appropriate for the Systems to use non-standard, System specific mortality tables.

We begin by determining the expected number of deaths in each year at each age for males and females. Then we compare the actual number to the expected number. The ratio of the actual deaths to the expected deaths (the A/E ratio) tells us whether the assumptions are reasonable. When using a static mortality table, an A/E ratio between 110% and 120% has traditionally been desired for conservatism and includes a margin for continued future improvements in mortality rates. Thus, the desired A/E level is 110% - 120% when compared to the *Valuation* tables. 100% A/E would be desired for comparison to the *Base* tables.

The results by individual System are provided in Section V. As shown, the current assumption for some groups falls into the desired range. For others, the experience has overtaken a large portion, if not all, of the margin for future mortality improvements. The mortality improvement can be easily identified when you compare the four-year experience ending June 30, 2005 to the four-year experience ending June 30, 2013. The following chart illustrates these mortality improvements by comparing the life expectancies during these two periods. The colored bar is the actual life expectancy for the four-year period ending 2005 and the shaded area on top is the amount of improvement when compared to the four-year period ending 2013:



### GRS' Recommendation

Based on our observations regarding the rate of improvement in mortality, we recommend the Actuary change the method currently used to anticipate future mortality improvement. Rather than using a static table with built-in margin at the valuation date, we recommend the use of a base mortality table, based on the System's experience, and a separate, explicit assumption for continual improvement in the rates of mortality in the future. We will discuss this in two parts, the

recommended base mortality assumption, and the recommended mortality improvement assumption.

### **Recommended Base Mortality Assumption**

Since each of the Systems has enough experience to credibly model post-retirement mortality, we have developed and recommended base mortality assumptions that are specific to each Retirement System. Due to the lack of female retirees in POLICE and FIRE, male-only mortality assumptions were developed for these two Systems. For the female assumptions in these two Systems, we started with the female assumption for NYCERS and made an adjustment based on the difference between the male assumption for NYCERS and the male assumption for the specific System. The adjustment factor was calculated as the quotient of the averaged proposed mortality rates from ages 65 to 75 for each of the Systems.

The mortality assumption for each System, except FIRE, is based on the System's experience for the four-year period ending June 30, 2013 to ensure that the most recent improvement is reflected. Since the retiree population for FIRE is smaller than the other groups, it was necessary to use the experience for the ten-year period ending June 30, 2013 for this System to have sufficient credibility to develop a mortality assumption based on this System's experience. We intentionally used a four-year period for developing a mortality assumption because this is the most recent experience and reflects the most recent improvements in longevity. Using a larger experience period would temper real changes that have occurred in the mortality assumption due to real changes, or improvements, observed in this assumption.

The process used to develop the recommended mortality assumptions is generally the same for each System. Mortality rates for the core ages of retirees, beyond age 60, are based on the System's experience, using an exponential model to provide a smooth fit to the midpoint of the experience. Mortality rates for the outlier ages, ages under 50, are equal to a multiple of the most recently published RP-2014 mortality assumptions (adjusted back to the central point of the experience period using projection scale MP-2014). Finally, the mortality rates for the transitional age ranges, ages 50 to 59, were developed using a cubic spine method to orderly transition between the mortality rates between the core and outlier age ranges.

The final step in the creation of the base mortality assumption was to project the preliminary table from the center point of the analysis period (i.e., the year 2008 for FIRE, and the year 2011 for all other Systems) to the year 2014 using the mortality improvement scale MP-2014.

## **Recommended Mortality Improvement Assumption**

There are currently three commonly discussed mortality improvement assumptions used by pension actuaries for valuing pension plan liabilities, each released by the Society of Actuaries. These mortality improvement assumptions include: Scale AA, Scale BB, and Scale MP-2014.

Scale AA is based upon a blend of mortality improvement trends among Civil Service Retirement System (CSRS) and Social Security Administration participants between 1977 and 1993. Since its official release in 1995, it has become the most widely adopted improvement scale for use by both public and private institutions within the United States. Scale AA is the one used in the current assumption set and was the only scale available when the current assumption set was developed.

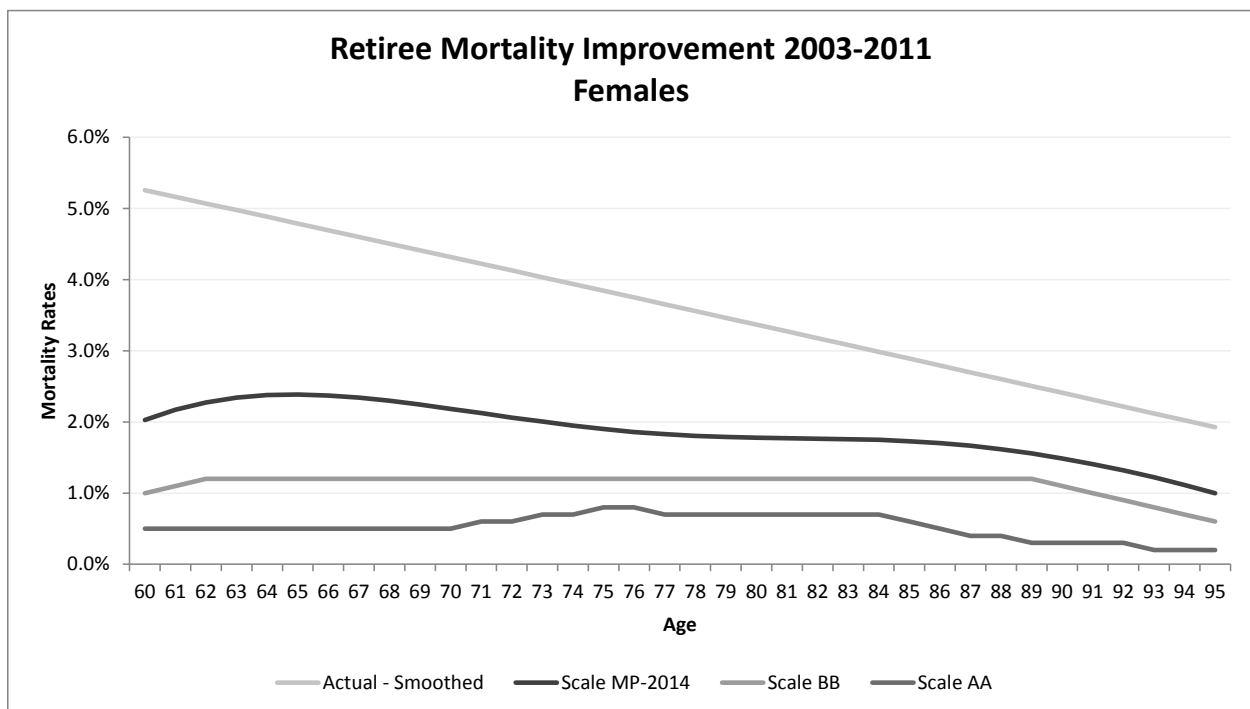
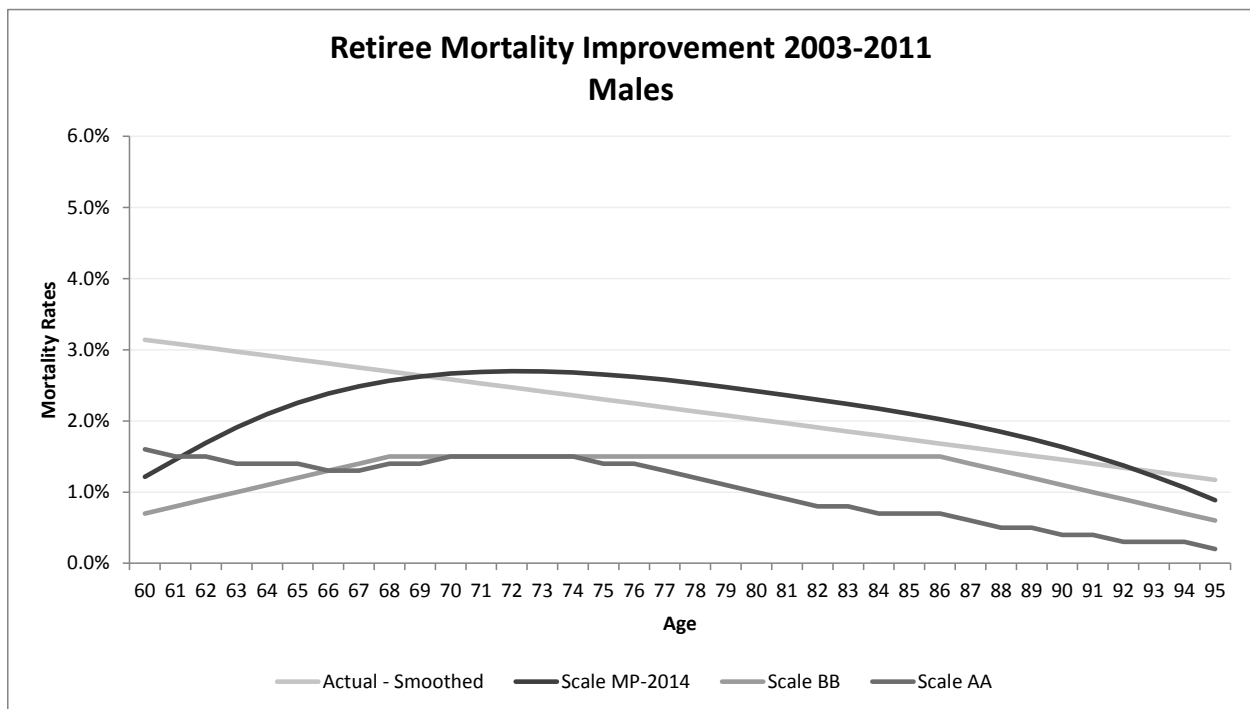
The Society of Actuaries' Retirement Plans Experience Committee (RPEC) initiated a pension mortality study in 2010. At an early stage of its analysis, RPEC noticed that mortality experience since 2000 has improved at a faster rate than anticipated by Scale AA. As a result, RPEC issued another mortality improvement scale, Scale BB, in the year 2012 as an alternative mortality improvement assumption for pension actuaries to use.

In October 2014, RPEC issued final reports of the mortality study that was originally initiated in 2010. These final reports included the release of another mortality improvement assumption, Scale MP-2014, which represents the Committee's current best estimate of future mortality improvement in the United States.

The graphs on the following page compare the rate of mortality improvement actually experienced by the New York City Retirement Systems (all Systems combined) to the mortality improvement assumptions Scale AA, Scale BB, and Scale MP-2014. To identify the rate of mortality improvement experienced by the Retirement Systems, we compared the crude mortality rates for the years 2001 through 2005 (i.e., a midpoint year of 2003) to the crude mortality rates for the years 2009 through 2013 (i.e., a midpoint year of 2011).

### **MP-2015**

Just prior to the publication of this report, the SOA issued a new projection scale named MP-2015 that included updates for actual improvement experience through 2011. This new scale shows that the rate of increase during the 2010 and 2011 was slightly slower than the previous MP-2014 anticipated. The impact on contributions between using MP-2014 or MP-2015 would not be large, but it would be reasonable for the OA to consider MP-2015 when selecting the final assumption set for recommendations.



As the first table shows, the actual rate of mortality improvement for males was reasonably close to the MP-2014 improvement assumption. The data showed that the actual rate of improvement was much higher than each of the mortality assumptions for females. We believe that some of this apparent improvement is attributable to the quality of the data for the years 2001 through 2005,

which as discussed in previous sections, was not as reliable as data after the OA changed some of its internal processes. Therefore, we believe that the actual mortality improvement of female retirees is somewhat lower than illustrated in the graph, but likely still higher than improvement scale MP-2014.

In our opinion, mortality improvement assumptions Scale BB and Scale MP-2014 are preferable over Scale AA since they are based on more current data (Scale BB and Scale MP-2014 are based on the same historical data) and more consistently model actual historical experience. A significant difference between improvement Scale MP-2014 and Scale BB is Scale MP-2014 is a two-dimensional improvement assumption that is a function of the age and calendar year, whereas Scale BB is only a function of age. While the improvement scale MP-2014 is a more complex assumption to incorporate into the valuation program (due to its two-dimensional design), Scale MP-2014 is a closer fit to the actual experience for the plans than Scale BB.

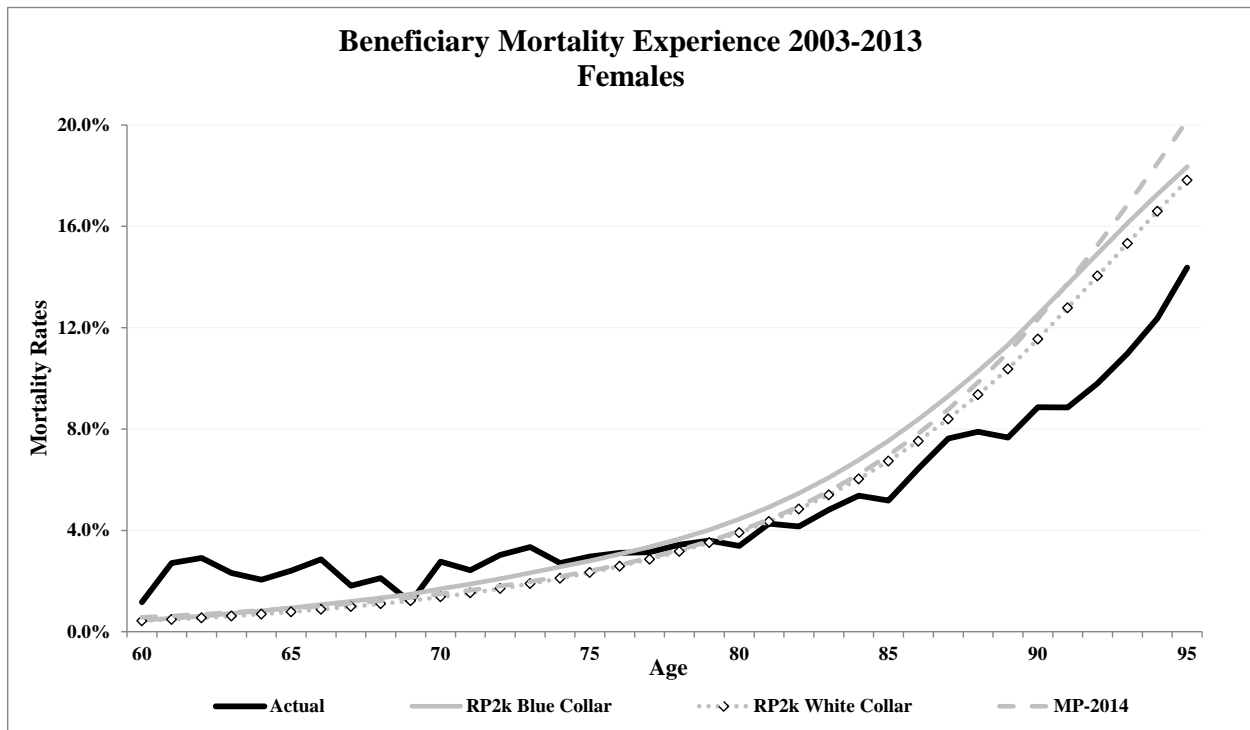
We also believe that Scale MP-2014 will more closely model the future mortality improvement that the NYCERS will experience in future years. For these reasons, we recommend the NYCERS use mortality improvement Scale MP-2014 in their respective actuarial valuations.

Finally, we have confirmed that ProVAL, the valuation system used by the OA to calculate the liabilities and costs of the Retirement Systems, is currently capable of using this more complex mortality improvement assumption.

## **BENEFICIARY MORTALITY ASSUMPTION**

We also analyzed the mortality experience for the beneficiaries in each of the Systems. There was significantly more experience for beneficiary females than beneficiary males with 8,572 and 633 deaths, respectively, for the ten-year period ending June 30, 2013.

The graph on the following page compares the actual rate of mortality experienced by the New York City Retirement Systems (all Systems combined) for female beneficiaries, to certain other published mortality tables.



As the graph shows, the mortality experience is very different than standard tables. In particular, the significantly higher rate of mortality at the younger ages has us questioning the credibility of the data and the lower rate of mortality at the higher ages, above age 85, is very likely attributable to survivor bias.

Given these uncertainties in the underlying experience data, we recommend the OA either (1) adopt the retiree mortality assumptions for the given group as the mortality assumption for the beneficiary as well or (2) adopt the retiree mortality assumptions (male and female) used in the valuation of NYCERS for the beneficiary mortality assumption for all Systems, including TRS, BERS, POLICE and FIRE.

## DISABILITY MORTALITY ASSUMPTION

The mortality assumption for disabled retirees is less significant than the mortality assumption for healthy retirees because the number of disabled retirees and their liability is much smaller compared to healthy retirees. However, this assumption is even more System-specific than the healthy assumption because the definition of disability dictates how impaired the mortality will be.

Even though this assumption is less material than the mortality assumption for healthy retirees, we recommend updating this assumption to reflect observed improvements in life expectancy and adding an explicit assumption for continued improvement in mortality (i.e., a generational mortality assumption).

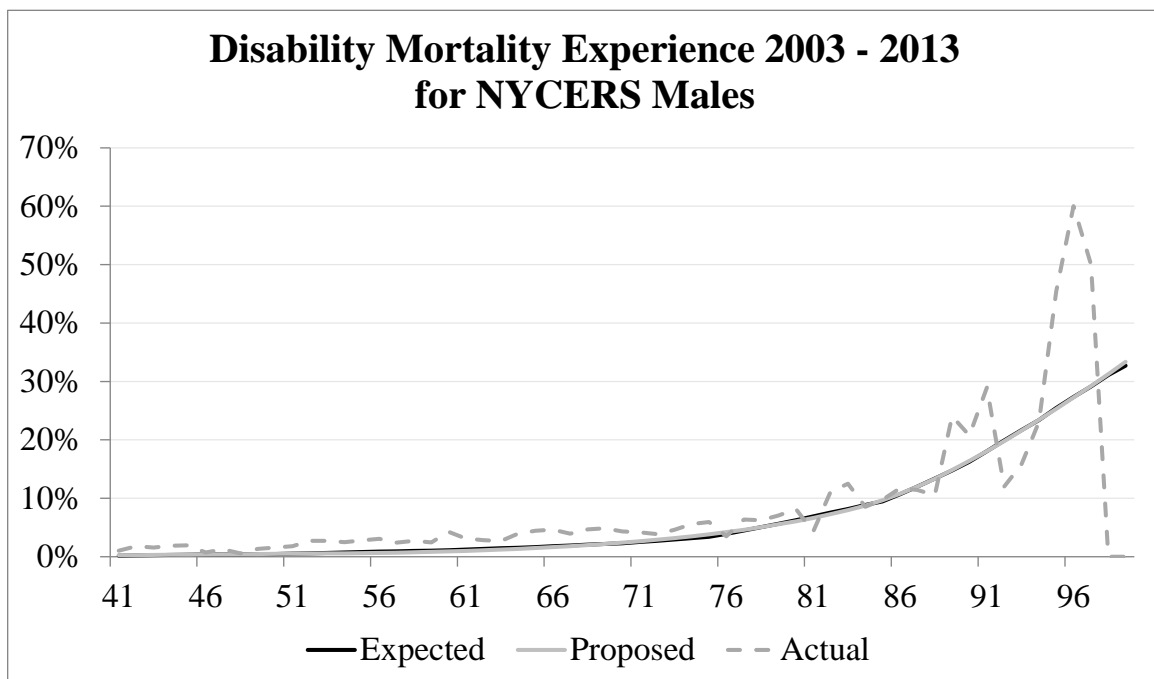
The life expectancy for disabled retirees varies by System. Below is a table with observed life expectancy by System.

**Male Life Expectancy for Disabled Retirees with 60 Years of Age  
 for the 10-Year Period Ending June 30, 2013**

Retirement System	NYCERS General	TRS	POLICE	FIRE
Observed Life Expectancy	17.1	21.7	21.7	22.9

Disabled retirees in POLICE and FIRE have a longer life expectancy, on average, than disabled retirees in NYCERS. This is not surprising as many members in POLICE and FIRE retire as a result of work-related injuries. We have observed these relative differences in life expectancy in other large retirement systems with public safety and general employee members.

The table below shows the mortality experience for the largest group of disabled retirees, disabled male retirees in NYCERS, for the 10-year period ending June 30, 2013. The purpose of this exhibit is to show that there is significant volatility in the actual mortality experience across the age spectrum. Much of this volatility is due to the inherent variability in experience associated with this assumption as well as the smaller pool of experience (for instance, NYCERS has 3,075 disability deaths for the 10-year period ending June 30, 2013).





The observed variation in the mortality rates is much higher in the other Systems since there is even less experience to observe. This was especially true when reviewing the assumption for disabled retirees in BERS and disabled female retirees in POLICE and FIRE.

However, using the same methodologies as healthy retirees except using 10 years of data in all Systems, we have developed System-specific tables for this assumption. Even though there is not as much credibility, we believe the table created based on the NYCRS data is more appropriate, and provided a much better fit, than the recently published RP-2014 tables.

We also recommend using the same mortality improvement assumption used to project mortality improvement for healthy retirees, Scale MP-2014.

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SECTION V  
SUMMARY RESULTS BY SYSTEM

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**The results of each System of the NYCERS Retirement System are quantified in this section.**

**For each System, the following Business Rules were applied:**

**Business Rules**

<b>Rule #</b>	<b>Rule Name</b>
1	Death Reclassification
2	Accidental Disability Reclassification
3	Ordinary Disability Reclassification
4	Status Continuity
5	Active-Inactive Reclassification #1
6	Active-Inactive Reclassification #2
7	Service Retirement Adjustment
8	Eligibility Adjustment

**See the summary results of the individual System to determine which Business Rules were implemented.**

### Business Rule 1: Death Reclassification

Description:	Example:	2006	2007	2008	2009	
For a member who shows as a death in a given data file and shows a date of death in an earlier period, the death status was filled backwards until the fiscal year associated with the death date.	A member is identified as a death status in the 6/30/2009 data file with a Date of Death of 7/2/2006. The member's 6/30/2007 status and all future statuses are updated to reflect the new Date of Death.	<b>Initial</b>	R	R	R	R
				↓	↓	↓
		<b>Matured</b>	R	D	D	D

### Business Rule 2: Accidental Disability Reclassification

Description:	Example:	2002	2003	2004	2005	
For members reclassifying to Accidental Disability (status code 'J'), either after service retirement or after termination, GRS changed the record as though the member immediately retired under Accidental Disability.	An active member retires 8/22/2002 and is reclassified to Accidental Disability as of 6/30/2005. The statuses for FYE 2003 and 2004 are changed to Accidental Disability.	<b>Initial</b>	A	R	R	J
				↓	↓	
		<b>Matured</b>	A	J	J	J

### Business Rule 3: Ordinary Disability Reclassification

Description:	Example:	2001	2002	2003	2004	
For members retiring under Ordinary Disability (status code 'I'), either after service retirement or after termination, GRS changed the record as though the member immediately retired under Ordinary Disability.	An active member retires 4/23/2002 and is reclassified to ordinary disability in FYE 2004. The statuses for FYE 2002 and 2003 are changed to Ordinary Disability.	<b>Initial</b>	A	R	R	I
				↓	↓	
		<b>Matured</b>	A	I	I	I

### Business Rule 4: Status Continuity

Description:	Example:	2004	2005	2006	2007	
In any three year period, if the first and last year's status matched, the middle year was also changed to be consistent. This rule was applied to statuses A, I, J, and R.	A record shows ordinary disability in 6/30/2004 and 6/30/2006 but beneficiary in 6/30/2005. The 6/30/2005 status is changed to ordinary disability.	<b>Initial</b>	I	B3	I	I
				↓		
		<b>Matured</b>	I	I	I	I

### Business Rule 5: Active-Inactive Reclassification #1

Description:	Example:	2008	2009	2010	2011	
Status B was introduced to differentiate active-inactive members that returned to service. Any active member that becomes active-inactive for a period and eventually returns to active service will have all active-inactive statuses changed to B.	An active member as of 6/30/2008 becomes Active-Inactive as of 6/30/2009. When the member returns to active status in 6/30/2011, all prior active-inactive years are changed to B.	<b>Initial</b>	A	F	F	A
				↓	↓	
		<b>Matured</b>	A	B	B	A

### Business Rule 6: Active-Inactive Reclassification #2

Description:	Example:	2010	2011	2012	2013	
Status C was introduced to differentiate active-inactive members in the final two years of the experience period. Any active member that becomes active-inactive during this period will have all active-inactive statuses changed to C.	An active member as of FYE 2011 becomes Active-Inactive as of FYE 2012. Based on this Rule, the member's status for FYE 2012 and 2013 is changed to C.	<b>Initial</b>	A	A	F	F
					↓	↓
		<b>Matured</b>	A	A	C	C

Status B&C were added to classify members as active in the reconciliation process but not include them in the salary analysis.

### Business Rule 7: Service Retirement Adjustment

Description:	Example:	2004	2005	2006	2007	
If MSTATC for any currently active member indicated they retired (code 90, 91, 92, or 93), that member's status was changed to retirement, unless the status was disabled. This rule was only applied to the last four years of data (2010, 2011, 2012, and 2013) and has priority over Rule 8.	A record shows ordinary disability in 6/30/2004 and 6/30/2006 but beneficiary in 6/30/2005. The 6/30/2005 status is changed to ordinary disability.	<b>Initial</b>	I	B3	I	I
				↓		
		<b>Matured</b>	I	I	I	I

### Business Rule 8: Eligibility Adjustment

Description:	Example:	2004	2005	2006	2007	
If an active member's status indicated they decremented out under a decrement they were not eligible for, they were assumed to have terminated. Additionally, if a member was eligible for retirement but their status indicated they terminated, the member's status was changed to retirement.	An active member is shown to have terminated as of the 6/30/2006 data and was eligible to retire based on their service. The member's status was changed to retirement.	<b>Initial</b>	A	A	T	T
					↓	↓
		<b>Matured</b>	A	A	R	R

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## SECTION V

### SUMMARY RESULTS BY SYSTEM: NYCERS

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## NYCERS

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### Findings

The results of the four-year and ten-year experience studies are shown in Appendices I - VI. We have quantified the differences between actual experience and current actuarial assumptions as well as provided illustrative proposed assumptions we believe would be appropriate and reasonable. The tables on the page following our summary of recommendations provide a summary of the reconciliation in comparison to the current assumptions.

The following business rules were applied to the NYCERS data. A general description of each rule may be found at the beginning of Section V.

### Business Rules

Rule #	Rule Name
1	Death Reclassification
2	Accidental Disability Reclassification
3	Ordinary Disability Reclassification
4	Status Continuity
5	Active-Inactive Reclassification #1
6	Active-Inactive Reclassification #2
7	Service Retirement Adjustment
8	Eligibility Adjustment

Based on our analysis of NYCERS, GRS recommends consideration of the following changes for future valuations:

- 1. Post-Retirement Mortality:** For this analysis and for recommendations, all employee classifications under NYCERS were grouped together except for HPTP, which was compared to the recommended assumptions for Police. We recommend updating the base mortality table to a System-specific mortality table developed using NYCERS' actual experience. We also recommend using a full generational mortality assumption using projection scale MP-2014. A new table based on the results of this study and the application of MP-2014 is provided in the Appendix.
- 2. Salary and Overtime Assumptions:** For the General group, the general wage increase portion of the salary scale has been lower than currently assumed and we believe a decrease in this assumption is appropriate. For most of the other groups, the general wage increase portion of the salary scale has been higher than currently assumed, but the merit portion has been materially flatter than currently assumed, and we have recommended an adjustment to both.



However, a new labor contract provides material increases over the next several years, including retroactive increases. Thus, it is unlikely the rate of salary increases the members experienced over the last ten years is representative of the rate of salary increases that will be provided in future years. We believe the OA is better positioned to reflect these factors in the development of the updated assumption as it best fits their model.

3. **Withdrawal Assumption:** The number of actual withdrawals has been consistently higher than expected by the current assumption. We have recommended a higher termination schedule that moves more than halfway to the experience. Further movement will likely be needed in the next study.
4. **Disability Assumption:** We have made minor recommendations as necessary by group.
5. **Retirement Patterns:** Beginning with the June 30, 2010 data, the OA began to include an indicator in the retiree data that identified whether the member was a reduced retirement, a retirement in the first year eligible, in the second year, or after. This indicator greatly increased the credibility and reliability of the reconciliation process, especially for reduced retirement. Consistent with national trends, members have been deferring retirement. We have made recommendations based on the trend as a whole and based on behavior at specific ages.

The cost estimates shown below are illustrative only and are based on the change in normal cost plus a 19-year amortization of the change in AAL as if all recommendations in this report were adopted. As discussed on Page II-1, there are always a range of reasonable assumptions and thus actual costs will be determined by the OA once the OA and the Board finalize the assumption changes.

### Illustrative Cost Estimates

	FY 14 results (June 30, 2012 lag valuation)		
	AAL (\$ Millions)	Normal Cost (\$Millions)	Employer Contribution (\$ Millions)
Base Results (current Assumptions)	\$66,629	\$1,468	\$3,040
<b>Estimated Change for changes in</b>			
Mortality Assumptions	\$2,027	\$92	\$282
Overtime Assumptions	\$1,191	\$59	\$170
Other pay related and demographic assumptions	-\$315	-\$62	-\$91
<b>Sub Total</b>	<b>\$69,532</b>	<b>\$1,557</b>	<b>\$3,401</b>
Estimated Change for ¼% decrease in investment return assumption	\$1,877	\$111	\$239
<b>Total</b>	<b>\$71,409</b>	<b>\$1,668</b>	<b>\$3,640</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – GENERAL  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
	Service Retiree Mortality						
1A	Men	93%	1237	97%	97%	1265	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
1B	Women	93%	1321	97%	99%	1336	
1C	Men & Women	93%	2557	97%	98%	2601	
1D	By Year						
	Disabled Retiree Mortality						
2A	Men	93%	126	95%	108%	123	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
2B	Women	116%	94	119%	101%	88	
2C	Men & Women	102%	219	104%	105%	211	
2D	By Year						
	Active Member Withdrawals						
3A	Men	131%	1385	132%	114%	1393	Actual experience is higher than expected. We recommend raising the current assumption.
3B	Women	140%	2047	139%	120%	1994	
3C	Men & Women	136%	3432	136%	118%	3387	
3D	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Unreduced retirements were expected to roughly double over the period. Generally, members have been delaying retirements, consistent with national trends. Consider extending maximum retirement age from 70 to 75.
4A	Total	68%	844	82%	83%	908	
4B	Elected	76%	182	70%	79%	151	
4C	Mandated	66%	662	84%	84%	757	
	In 2nd Year of Eligibility						
5A	Total	68%	387	75%	75%	360	
5B	Elected	80%	63	75%	75%	50	
5C	Mandated	66%	325	75%	75%	310	
	After 2nd Year of Eligibility						
6A	Total	51%	1830	49%	49%	1414	
6B	Elected	81%	191	77%	77%	120	
6C	Mandated	49%	1639	47%	47%	1295	
6D	By Year						
	Reduced Service Retirements						
7A	Total	167%	755	91%	67%	383	There were more reduced retirements than expected. We recommend raising the current assumption.
7B	By Year						

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – GENERAL  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Proposed			
				Expected	Proposed		
	Active Member Ordinary Mortality						
8A	Men	81%	108	95%	108%	119	Mortality was lower than expected. We recommend lowering the current rates.
8B	Women	80%	84	95%	106%	94	
8C	Men & Women	80%	192	95%	107%	213	
8D	By Year						
	Active Member Ordinary Disability						
9A	Men	84%	170	88%	88%	171	The current assumption is reasonable.
9B	Women	89%	179	89%	89%	167	
9C	Men & Women	86%	348	88%	88%	338	
9D	By Year						
	Active Member Accidental Disability						
10A	Men	73%	17	99%	99%	22	Minor assumption. Actuals appears to be trending down and may warrant an assumption change if this trend continues.
10B	Women	86%	12	98%	98%	14	
10C	Men & Women	78%	29	99%	99%	36	
10D	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
11A	Total	4.98%	2.03%	5.00%	4.47%	3.91%	Merit looks reasonable. Actual experience is lower than expected, largely due to productivity component (which is trending further downward). Recommend lowering ultimate assumption by 0.25%.
11B	Merit Only	1.98%	1.75%	2.00%	1.72%	1.76%	
11C	General Increase over Inflation By Year	1.50%	-0.57%	0.50%	0.25%	-0.23%	
	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
12A	For All Years	4.00%	12.21%	4.00%	8.00%	12.05%	Actual overtime has been higher than expected assumption. Recommend higher assumption.
12B	In Year Before Service Retirement	4.00%	12.46%	4.00%	8.00%	12.11%	
12C	In Year Before Disability Retirement	4.00%	10.52%	4.00%	8.00%	9.98%	
12D	By Year						

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – TRANSIT  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
	Service Retiree Mortality						
1A	Men	96%	817	98%	99%	828	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
1B	Women	100%	68	101%	103%	64	
1C	Men & Women	96%	884	99%	107%	892	
1D	By Year						
	Disabled Retiree Mortality						
2A	Men	94%	66	100%	113%	70	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
2B	Women	98%	12	89%	75%	10	
2C	Men & Women	95%	78	98%	107%	79	
2D	By Year						
	Active Member Withdrawals						
3A	Men	99%	287	114%	114%	329	The current assumption is reasonable.
3B	Women	170%	94	165%	165%	92	
3C	Men & Women	110%	381	122%	122%	421	
3D	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Actual experience has outpaced the current assumptions. Consider extending maximum retirement age from 70 to 75.
4A	Total	53%	342	50%	60%	264	
4B	Elected	66%	206	55%	65%	126	
4C	Mandated	40%	136	46%	57%	137	
	In 2nd Year of Eligibility						
5A	Total	55%	141	66%	74%	141	
5B	Elected	79%	74	88%	88%	63	
5C	Mandated	41%	67	55%	66%	78	
	After 2nd Year of Eligibility						
6A	Total	54%	557	59%	60%	485	
6B	Elected	104%	221	105%	105%	133	
6C	Mandated	41%	336	50%	57%	352	
6D	By Year						
	Reduced Service Retirements						
7A	Total	268%	1	47%	35%	1	Due to limited experience, we recommend using the NYCERS General group's reduced retirement proposed assumption.
7B	By Year						

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – TRANSIT  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Expected	Proposed		
	Active Member Ordinary Mortality						Minor Assumption. The current assumption is reasonable.
8A	Men	107%	53	120%	120%	57	
8B	Women	168%	6	192%	192%	7	
8C	Men & Women	112%	59	125%	125%	64	
8D	By Year						
9A	Active Member Accidental Mortality	14%	1	11%	45%	0	Minor Assumption. We recommend a lower assumption.
9B	By Year						
	Active Member Ordinary Disability						We recommend raising Ordinary Disability rates for Women.
10A	Men	93%	98	93%	93%	94	
10B	Women	239%	40	215%	153%	34	
10C	Men & Women	113%	138	110%	104%	128	
10D	By Year						
	Active Member Accidental Disability						Minor Assumption. We recommend lowering Accidental Disability rates for Men.
11A	Men	8%	1	34%	69%	2	
11B	Women	23%	0	104%	104%	1	
11C	Men & Women	10%	1	45%	78%	3	
11D	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
12A	Total	4.19%	3.41%	4.32%	4.32%	3.90%	Overall, experience has slightly outpaced assumption, especially when adjusted for actual versus expected inflation.
12B	Merit Only	0.69%	0.70%	0.82%	0.82%	0.78%	
12C	General Increase over Inflation	1.00%	0.37%	1.00%	1.00%	0.78%	
	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
13A	For All Years	8.00%	9.21%	8.00%	8.00%	8.22%	Experience has been close to the expected assumption. Members are working less Overtime before becoming disabled.
13B	In Year Before Service Retirement	8.00%	7.62%	8.00%	8.00%	7.01%	
13C	In Year Before Disability Retirement	8.00%	5.24%	8.00%	8.00%	5.04%	
13D	By Year						

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – SANITATION  
EXPERIENCE STUDY RESULTS  
OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
	Service Retiree Mortality						
1A	Men	96%	279	98%	101%	284	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
1B	Women	113%	1	88%	93%	1	
1C	Men & Women	96%	280	98%	101%	285	
1D	By Year						
	Disabled Retiree Mortality						
2A	Men	92%	68	93%	75%	68	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
2B	Women	150%	0	181%	105%	0	
2C	Men & Women	92%	69	94%	75%	68	
2D	By Year						
	Active Member Withdrawals						
3A	Men	94%	44	112%	112%	56	The current assumption is reasonable. No change is recommended.
3B	Women	128%	2	116%	116%	2	
3C	Men & Women	95%	45	113%	113%	57	
3D	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Experience has been consistently lower than expected. In certain places, the current assumption should be lowered to match experience.
4A	Total	48%	67	49%	58%	92	
4B	Elected	74%	48	49%	54%	71	
4C	Mandated	25%	19	50%	80%	21	
	In 2nd Year of Eligibility						
5A	Total	97%	48	120%	120%	63	
5B	Elected	108%	42	114%	114%	51	
5C	Mandated	58%	6	156%	156%	12	
	After 2nd Year of Eligibility						
6A	Total	63%	125	79%	94%	131	
6B	Elected	71%	119	76%	96%	105	
6C	Mandated	19%	6	90%	90%	26	
6D	By Year						
	Reduced Service Retirements						
7A	Total	93%	1	72%	72%	1	Due to limited experience, we recommend using the NYCERS General group's reduced retirement proposed assumption.
7B	By Year						

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – SANITATION  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
	Active Member Ordinary Mortality						
8A	Men	69%	7	115%	115%	11	Minor Assumption. Experience has been trending below current assumption.
8B	Women	0%	0	131%	131%	0	
8C	Men & Women	68%	7	115%	115%	11	
8D	By Year						
	Active Member Accidental Mortality						
9A	Men	71%	1	82%	82%	1	Minor Assumption. The current assumption is reasonable.
9B	By Year						
	Active Member Ordinary Disability						
10A	Men	61%	14	63%	84%	15	Minor Assumption. The proposed assumption is 75% of the current assumption.
10B	Women	120%	1	132%	176%	1	
10C	Men & Women	62%	14	64%	86%	15	
10D	By Year						
	Active Member Accidental Disability						
11A	Men	138%	38	136%	120%	38	The proposed assumption is based on an exponential fit of actual data for Men and is 120% of the current assumption for Women.
11B	Women	138%	1	111%	93%	1	
11C	Men & Women	138%	39	135%	119%	39	
11D	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
12A	Total	7.70%	5.17%	7.70%	7.86%	6.96%	General increases and merit are slightly lower than expected.
12B	Merit Only	4.20%	3.44%	4.20%	3.86%	3.46%	
12C	General Increase over Inflation By Year	1.00%	-1.09%	1.00%	1.50%	1.60%	
	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
13A	For All Years	12.00%	12.16%	12.00%	12.00%	12.45%	Experience has been close to the Expected assumption. Members are working less overtime before becoming disabled.
13B	In Year Before Service Retirement	12.00%	11.63%	12.00%	12.00%	13.55%	
13C	In Year Before Disability Retirement By Year	12.00%	4.41%	12.00%	12.00%	4.80%	

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – CORRECTIONS  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments	
		Expected	Average Number of Decrements per Year	Ratio of Actual to Proposed				
				Expected	Proposed			
<b>Service Retiree Mortality</b>								
1A	Men	76%	61	84%	90%	58	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.	
1B	Women	91%	11	96%	99%	9		
1C	Men & Women	78%	72	85%	92%	68		
1D	By Year							
<b>Disabled Retiree Mortality</b>								
2A	Men	72%	18	76%	59%	17	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.	
2B	Women	70%	4	108%	61%	5		
2C	Men & Women	72%	22	81%	81%	22		
2D	By Year							
<b>Active Member Withdrawals</b>								
3A	Men	113%	56	121%	121%	59	Recent experience has been volatile, but is in line with the current assumption. No change is recommended.	
3B	Women	98%	41	115%	115%	48		
3C	Men & Women	106%	97	118%	118%	107		
3D	By Year							
<b>Active Member Service Retirements</b>								
<b>In 1st Year of Eligibility</b>								
4A	Total	49%	164	63%	74%	257	Generally, members have been delaying retirements, consistent with national trends. The current assumption reflects long-term anticipated retirement patterns.	
4B	Elected	48%	96	36%	42%	93		
4C	Mandated	50%	68	107%	129%	165		
<b>In 2nd Year of Eligibility</b>								
5A	Total	82%	68	146%	156%	101		
5B	Elected	92%	51	153%	154%	80		
5C	Mandated	63%	17	123%	165%	21		
<b>After 2nd Year of Eligibility</b>								
6A	Total	58%	157	64%	88%	100		
6B	Elected	64%	137	66%	90%	81		
6C	Mandated	36%	20	57%	80%	20		
6D	By Year							
<b>Reduced Service Retirements</b>								
7A	Total	0%	0	1250%	833%	0	Due to limited experience, we recommend using the NYCERS General group's reduced retirement proposed assumption.	
7B	By Year							



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – CORRECTIONS  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
8A	Active Member Ordinary Mortality Men	74%	5	67%	67%	4	Minor Assumption. Experience appears to be less than the assumptions.
8B	Women	67%	2	80%	80%	2	
8C	Men & Women	72%	7	71%	71%	7	
8D	By Year						
9A	Active Member Accidental Mortality	0%	0	0%	0%	0	Minor Assumption. There were no deaths over the measured period.
9B	By Year						
10A	Active Member Ordinary Disability Men	27%	4	46%	46%	6	Minor Assumption. Experience has been trending below current assumption.
10B	Women	76%	7	98%	98%	9	
10C	Men & Women	48%	11	67%	67%	16	
10D	By Year						
11A	Active Member Accidental Disability Men	133%	28	127%	110%	28	The proposed assumption is 115% of the current assumption for Men and 0.20% at all ages for women.
11B	Women	35%	6	38%	77%	6	
11C	Men & Women	90%	34	89%	102%	35	
11D	By Year						
12A	Salary Increases** Total	<b>Expected</b> 7.45%	<b>Actual</b> 6.61%	<b>Expected</b> 6.93%	<b>Proposed</b> 7.06%	<b>Actual</b> 6.79%	Merit increases are lower than expected, though this is offset by greater observed productivity.
12B	Merit Only	3.95%	3.20%	3.43%	3.06%	2.84%	
12C	General Increase over Inflation By Year	1.00%	0.84%	1.00%	1.50%	1.70%	
13A	Overtime Pay** For All Years	<b>Expected</b> 11.59%	<b>Actual</b> 15.67%	<b>Expected</b> 11.44%	<b>Proposed</b> 13.00%	<b>Actual</b> 13.17%	Experience has been close to the expected assumption. Members are working less overtime before becoming retired or disabled.
13B	In Year Before Service Retirement	14.80%	15.41%	14.37%	14.00%	12.51%	
13C	In Year Before Disability Retirement By Year	12.20%	7.82%	11.86%	13.00%	6.38%	

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – TBTA  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments	
		Expected	Average Number of Decrements per Year	Ratio of Actual to Proposed				
				Expected	Proposed			
<b>Service Retiree Mortality</b>								
1A	Men	83%	21	94%	97%	22	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.	
1B	Women	128%	3	99%	104%	2		
1C	Men & Women	86%	23	94%	97%	24		
1D	By Year							
<b>Disabled Retiree Mortality</b>								
2A	Men	108%	5	85%	102%	4	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.	
2B	Women	114%	1	74%	61%	0		
2C	Men & Women	108%	5	84%	97%	4		
2D	By Year							
<b>Active Member Withdrawals</b>								
3A	Men	151%	19	161%	127%	21	Actual withdrawals are considerably outpacing the expectations. We recommend a higher assumption.	
3B	Women	391%	13	301%	243%	11		
3C	Men & Women	203%	32	192%	152%	32		
3D	By Year							
<b>Active Member Service Retirements</b>								
<b>In 1st Year of Eligibility</b>								
4A	Total	116%	16	74%	74%	9	Very small data set, no credibility. Due to limited experience, we recommend using the General group's reduced retirement proposed assumption.	
4B	Elected	145%	9	74%	74%	5		
4C	Mandated	91%	7	73%	73%	4		
<b>In 2nd Year of Eligibility</b>								
5A	Total	74%	3	135%	135%	7		
5B	Elected	45%	1	126%	126%	3		
5C	Mandated	84%	3	142%	142%	4		
<b>After 2nd Year of Eligibility</b>								
6A	Total	80%	15	99%	99%	17		
6B	Elected	127%	6	151%	151%	7		
6C	Mandated	66%	9	77%	77%	9		
6D	By Year							
<b>Reduced Service Retirements</b>								
7A	Total	390%	14	406%	406%	13		
7B	By Year							

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – TBTA  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*			Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to		Average Number of Decrements per Year	
				Expected	Proposed		
8A	Active Member Ordinary Mortality Men	60%	1	82%	82%	1	Very small data set, no credibility.
8B	Women	112%	0	94%	94%	0	
8C	Men & Women	66%	1	83%	83%	2	
8D	By Year						
9A	Active Member Accidental Mortality	0%	0	0%	0%	0	Very small data set, no credibility.
9B	By Year						
10A	Active Member Ordinary Disability Men	85%	2	105%	105%	3	Very small data set, no credibility.
10B	Women	41%	0	117%	117%	1	
10C	Men & Women	76%	2	107%	107%	3	
10D	By Year						
11A	Active Member Accidental Disability Men	0%	0	40%	73%	0	Very small data set, no credibility.
11B	Women	342%	0	169%	169%	0	
11C	Men & Women	24%	0	49%	85%	1	
11D	By Year						
12A	Salary Increases** Total	<u>Expected</u> 4.70%	<u>Actual</u> 2.78%	<u>Expected</u> 5.23%	<u>Proposed</u> 5.07%	<u>Actual</u> 4.46%	Overall, expected general increases have slightly outpaced experience. Merit increases have been lower than expected.
12B	Merit Only	1.20%	0.72%	1.73%	1.32%	1.10%	
12C	General Increase over Inflation	1.00%	-1.68%	1.00%	1.25%	1.28%	
12C	By Year						
13A	Overtime Pay** For All Years	<u>Expected</u> 20.00%	<u>Actual</u> 18.64%	<u>Expected</u> 20.00%	<u>Proposed</u> 20.00%	<u>Actual</u> 20.80%	Experience has been close to the Expected assumption. Members are working less Overtime before becoming disabled.
13B	In Year Before Service Retirement	20.00%	17.64%	20.00%	22.00%	27.08%	
13C	In Year Before Disability Retirement	20.00%	12.45%	20.00%	20.00%	14.47%	
13D	By Year						

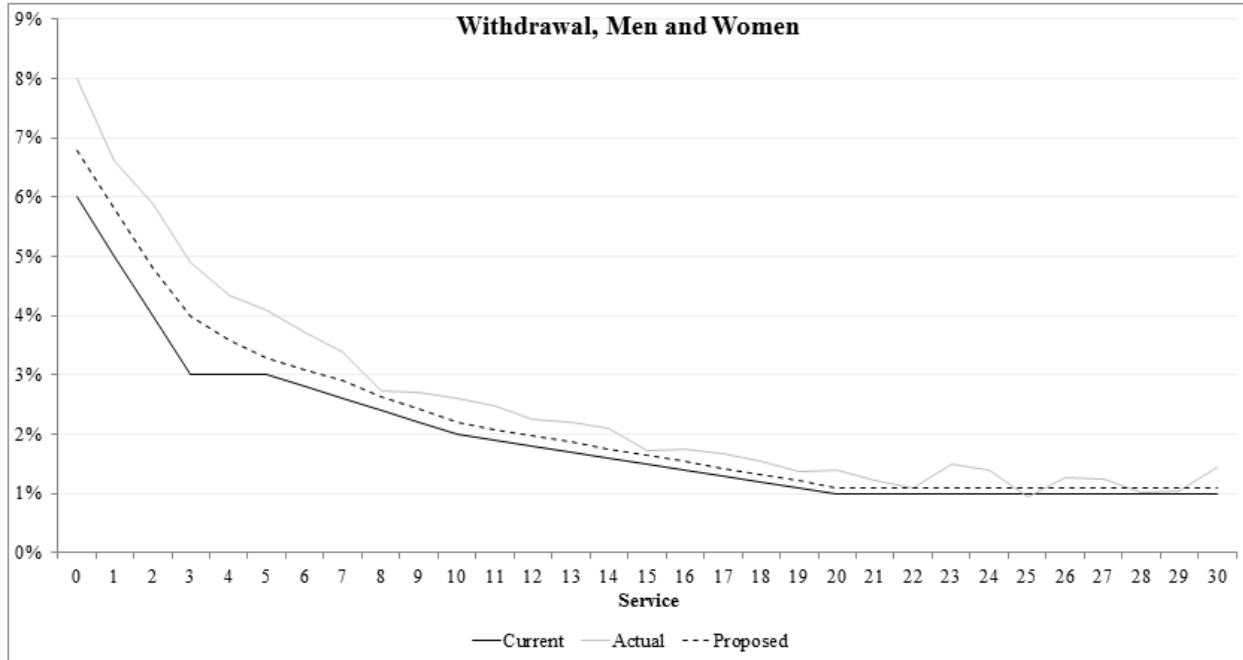
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

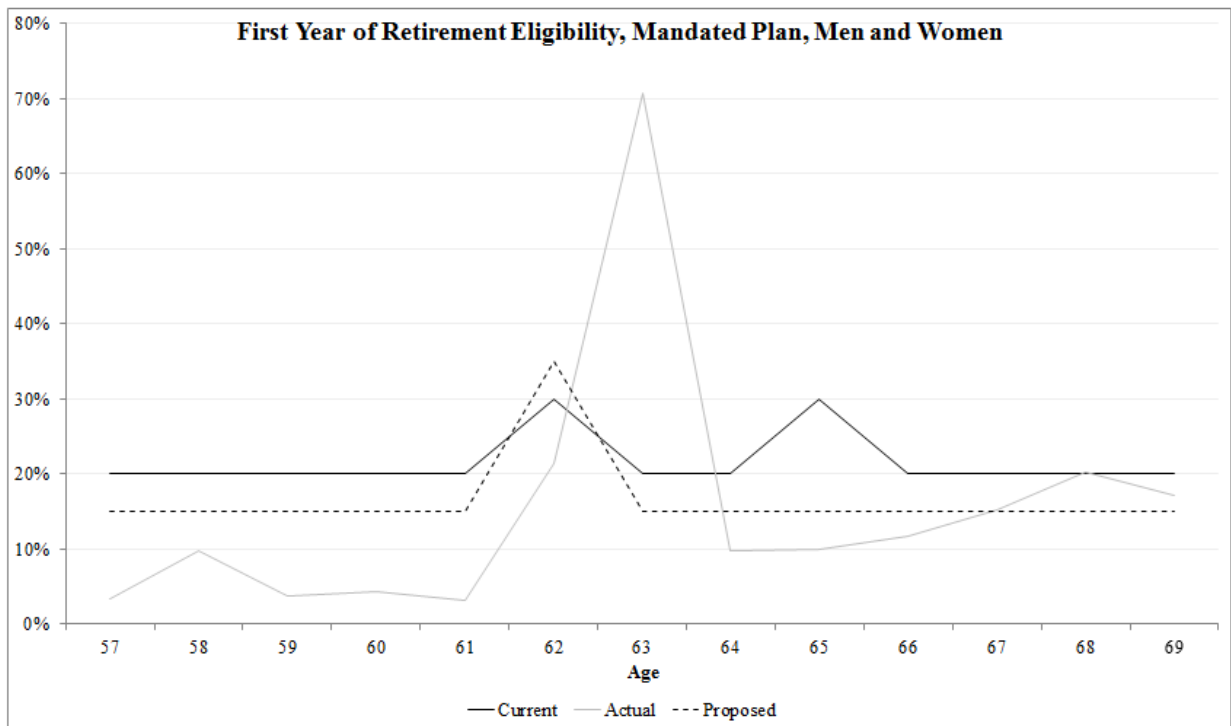
**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – HP TP  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013		10-YEAR PERIOD ENDING 6/30/2013		Average Number of Decrements per Year	GRS' Ideal A/E Range	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed			
	Service Retiree Mortality						98-103%	The proposed assumption is equivalent to the proposed assumption for the Police System.
1A	Men	102%	61	101%	106%	56		
1B	Women	283%	1	208%	124%	0		
1C	Men & Women	102%	61	102%	106%	56		
1D	By Year							
	Disabled Retiree Mortality						98-103%	The proposed assumption is equivalent to the proposed assumption for the Police System.
2A	Men	94%	28	95%	100%	26		
2B	Women	0%	0	56%	33%	0		
2C	Men & Women	93%	28	95%	99%	26		
2D	By Year							

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – GENERAL  
 WITHDRAWAL ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM – GENERAL  
 RETIREMENT ASSUMPTIONS AND EXPERIENCE  
 FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**GRS' APPROACH TO ASSIGNING STATUSES FOR NYCERS ACTIVE TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*
A	Active		10, 20, or 60	10
B	Active-Inactive, Adjusted	Withdrawal		20
B1	Beneficiary of Retiree	Beneficiary		
B2	Beneficiary of Ordinary Death	Beneficiary		
B3	Beneficiary of Accidental Death	Beneficiary		
B4	Beneficiary of Ordinary Disability	Beneficiary		
B5	Beneficiary of Accidental Disability	Beneficiary		
C	Active-Inactive, Adjusted	Withdrawal		20
D	Deceased	Ordinary Mortality	10, 20, or 60	60
D1	Ordinary Death w/o Ben	Ordinary Mortality	not 81 or 82	60
D2	Accidental Death w/o Ben	Accidental Mortality		61
F	Active-Inactive	Withdrawal		20
I	Ordinary Disability	Ordinary Disability		70
J	Accidental Disability	Accidental Disability		71
L	Lump Sum	Withdrawal		
P	Duplicate			
R	Service Retirement Year 1	Retirement		90
R	Service Retirement Year 2	Retirement		91
R	Service Retirement Year Ultimate	Retirement		92
R	Reduced Service Retirement	Retirement		93
S	Retiree from Vested	Retirement		
T	Terminated Non-Vested	Withdrawal		80
U	5-Year Out	Withdrawal		
V	Deferred Vested	Withdrawal		81 or 82
WI	Missing Ordinary Disability	Ordinary Disability		
WJ	Missing Accidental Disability	Accidental Disability		
WR	Missing Services Retirement	Retirement		
WS	Missing Retirement from Vested	Retirement		
Z	Refunded	Withdrawal		

**GRS' APPROACH TO ASSIGNING STATUSES FOR NYCERS PENSIONER TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*	RetCause**	PayeePen
A	Active					
B	Active-Inactive, Adjusted	Withdrawal				
B1	Beneficiary of Retiree	Beneficiary			0 or 3	not 0,1 or 1
B2	Beneficiary of Ordinary Death	Beneficiary			7	not 0,1 or 1
B3	Beneficiary of Accidental Death	Beneficiary			4	not 0,1 or 1
B4	Beneficiary of Ordinary Disability	Beneficiary			2	not 0,1 or 1
B5	Beneficiary of Accidental Disability	Beneficiary			1	not 0,1 or 1
C	Active-Inactive, Adjusted	Withdrawal				
D	Deceased	Mortality*		60		
D1	Ordinary Death w/o Ben	Mortality*				
D2	Accidental Death w/o Ben	Mortality*				
F	Active-Inactive	Withdrawal				
I	Ordinary Disability	Ordinary Disability			2	0, 1, or 6
J	Accidental Disability	Accidental Disability			1 or 6	0, 1, or 6
L	Lump Sum	Withdrawal				
P	Duplicate					
R	Service Retiree	Retirement			3	0, 1, or 6
S	Retiree from Vested	Retirement			0	0, 1, or 6
T	Terminated Non-Vested	Withdrawal		80		
U	5-Year Out	Withdrawal				
V	Deferred Vested	Withdrawal	70	10	0	
WI	Missing Ordinary Disability	Ordinary Disability	70	10	2	0, 1, or 6
WJ	Missing Accidental Disability	Accidental Disability	70	10	1 or 6	0, 1, or 6
WR	Missing Services Retirement	Retirement	70	10	3	0, 1, or 6
WS	Missing Retirement from Vested	Retirement				
Z	Refunded	Withdrawal				

\* The mortality decrements are determined by the member's status in the previous year. For example, a disability retiree's mortality decrement would be Disabled Mortality.

\*\* For all Tier 6 disabilities, indicated by RetCause equal to 6, members were classified as Ordinary Disabilities.

### Status Changes Due to Maturation

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	-1,006	-1,430	-2,023	-2,085	-2,196	-2,288	-2,392	-40,967	-46,016	-50,936	-55,200	<b>-206,539</b>
A	-12	-2	-1	-2	0	-2	-2	-63	-60	-58	-53	<b>-255</b>
B	315	321	333	684	540	789	2,390	2,681	2,577	1,897	0	<b>12,527</b>
B1	-13,117	-13,031	-12,883	-12,742	-12,463	-12,369	-12,287	-11,472	-11,331	-11,308	-11,175	<b>-134,178</b>
B2	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
B3	-103	-103	-103	-102	-101	-99	-101	-1,572	-1,652	-1,613	-2,241	<b>-7,790</b>
B4	-1,406	-1,502	-1,553	-1,602	-1,638	-1,670	-1,687	-996	-984	-961	-934	<b>-14,933</b>
B5	-123	-127	-127	-134	-133	-138	-138	-174	-175	-195	-197	<b>-1,661</b>
C	0	0	0	0	0	0	0	0	0	3,176	8,860	<b>12,036</b>
D	17,236	17,586	17,575	17,878	18,103	18,669	19,050	55,810	60,809	66,012	70,236	<b>378,964</b>
D1	-282	-298	-1	-17	-24	-20	-29	-322	-96	-93	-15	<b>-1,197</b>
D2	0	0	0	0	0	0	0	0	0	0	-1	<b>-1</b>
F	-391	-370	-383	-885	-951	-1,531	-4,369	-4,770	-4,763	-6,703	-8,878	<b>-33,994</b>
I	52	73	85	68	97	171	419	296	267	255	-14	<b>1,769</b>
J	121	113	117	121	129	137	168	158	172	33	-4	<b>1,265</b>
L	0	0	0	-260	-496	-920	-1,122	0	0	0	0	<b>-2,798</b>
P	-9	-9	-9	-9	-9	-9	-9	0	0	0	0	<b>-63</b>
R	-189	-203	-164	-193	-231	-259	-315	-135	-134	-303	-133	<b>-2,259</b>
S	-3	-4	-3	-3	-4	-4	-4	-6	-8	-19	-14	<b>-72</b>
T	-275	-238	-13	-3	-4	-18	-29	-75	-330	-442	-192	<b>-1,619</b>
U	-790	-744	-789	-828	-883	-938	-992	0	0	0	0	<b>-5,964</b>
V	6	-13	-14	150	321	549	1,503	1,610	1,727	1,264	-44	<b>7,059</b>
WI	0	0	0	0	0	0	0	-3	-2	-6	0	<b>-11</b>
WJ	0	0	-2	-2	-2	-2	-2	0	0	0	0	<b>-10</b>
WR	-3	-3	-8	-3	-3	-3	-4	0	-1	0	-1	<b>-29</b>
WS	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
Y	-21	-16	-34	-31	-52	-45	-48	0	0	0	0	<b>-247</b>
Z	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
Total												<b>0</b>

### Status Counts after Maturation

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	118,062	111,986	107,449	94,826	82,379	69,630	58,599	86,726	83,692	73,224	65,198	<b>951,771</b>
A	177,013	176,709	179,086	181,304	182,751	185,497	186,209	184,919	181,961	187,056	185,918	<b>2,008,423</b>
B	315	321	333	684	540	789	2,390	2,681	2,577	1,897	0	<b>12,527</b>
B1	31	51	65	218	344	304	189	5	3	3	7	<b>1,220</b>
B2	0	0	0	10	10	12	12	0	0	0	0	<b>44</b>
B3	6	7	5	5	4	4	3	1	1	1	171	<b>208</b>
B4	12	11	2	9	14	7	3	0	0	0	0	<b>58</b>
B5	2	2	0	0	1	0	0	1	0	0	12	<b>18</b>
C	0	0	0	0	0	0	0	0	0	3,176	8,860	<b>12,036</b>
D	26,268	31,440	36,052	40,581	45,717	50,723	55,516	60,423	65,447	69,958	74,547	<b>556,672</b>
D1	415	338	472	773	905	1,054	1,568	111	31	85	90	<b>5,842</b>
D2	0	0	0	1	1	1	1	2	1	0	1	<b>8</b>
F	2,323	2,482	2,607	22,622	23,586	19,674	17,110	14,562	14,206	9,650	7,604	<b>136,426</b>
I	8,207	8,483	8,528	8,654	8,796	8,973	9,145	9,282	9,510	9,662	9,585	<b>98,825</b>
J	4,250	4,294	4,300	4,368	4,398	4,438	4,447	4,384	4,400	4,412	4,366	<b>48,057</b>
L	0	0	0	47	353	220	279	0	0	0	0	<b>899</b>
P	15	12	10	10	10	10	10	0	0	0	0	<b>77</b>
R	99,726	100,241	98,927	99,513	99,809	100,740	100,404	100,809	103,397	105,123	106,266	<b>1,114,955</b>
S	1,370	1,375	1,319	1,359	1,408	1,356	1,305	2,646	2,883	3,292	3,701	<b>22,014</b>
T	27,511	28,491	27,330	10,946	13,305	21,261	26,949	6,061	4,377	5,470	6,771	<b>178,472</b>
U	7,738	6,567	6,159	6,116	6,059	6,000	5,940	0	0	0	0	<b>44,579</b>
V	8,227	8,504	8,953	9,442	9,934	9,694	10,357	10,584	10,707	10,181	10,089	<b>106,672</b>
WI	2	0	1	1	1	1	0	0	0	0	6	<b>12</b>
WJ	2	0	3	3	3	3	3	0	0	1	1	<b>19</b>
WR	34	15	77	80	77	80	77	2	6	8	6	<b>462</b>
WS	1	1	0	0	0	0	0	0	0	0	0	<b>2</b>
Y	1,619	1,837	1,492	1,627	2,794	2,728	2,683	0	0	0	0	<b>14,780</b>
Z	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
Total												<b>5,315,078</b>



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## SECTION V

### SUMMARY RESULTS BY SYSTEM: TRS

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## TRS

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### Findings

The results of the four-year and ten-year experience studies are shown in Appendix VII. We have quantified the differences between actual experience and current actuarial assumptions as well as provided illustrative proposed assumptions we believe would be appropriate and reasonable. The tables on the page following our summary of recommendations provide a summary of the reconciliation in comparison to the current assumptions.

The following business rules were applied to the TRS data. A general description of each rule may be found at the beginning of Section V.

### Business Rules

Rule #	Rule Name
1	Death Reclassification
2	Accidental Disability Reclassification
3	Ordinary Disability Reclassification
4	Status Continuity
5	Active-Inactive Reclassification #1
6	Active-Inactive Reclassification #2
7	Service Retirement Adjustment
8	Eligibility Adjustment

Based on our analysis of TRS, GRS recommends consideration of the following changes for future valuations:

- 1. Post-Retirement Mortality:** We recommend updating the base mortality table to a System-specific mortality table developed using TRS' actual experience. We also recommend using a full generational mortality assumption using projection scale MP-2014. A new table based on the results of this study and the application of MP-2014 is provided in the Appendix.
- 2. Salary and Overtime Assumptions:** Over the shorter and longer observation periods, the across-the-board increases have been much lower than the current assumption, and in fact, have been in pace with the increase in inflation. Based on the historical data alone, a recommendation could be made to lower the general wage increase portion of the salary scale.

However, a new labor contract provides material increases over the next several years, including retroactive increases. Thus, it is unlikely the rate of salary increases the members experienced over the last ten years is representative of the rate of salary increases that will be

provided in future years. We believe the OA is better positioned to reflect these factors in the development of the updated assumption as it best fits their model. For these reasons, we do not have a proposed assumption that is different than the current general wage increase assumption.

The merit portion of the scale has had a very close fit between the assumption and the expectation. We are also not recommending a change to this component of the compensation assumption.

While members of TRS are not eligible for overtime, there are other sources of additional pensionable earnings that could be increased to cause a “spike” at the end of the member’s career. We recommend additional data be collected in the next experience study to attempt to capture any such pattern of increase at the end of the career.

3. **Withdrawal Assumption:** The number of actual withdrawals has been consistently higher than expected by the current assumption. We have recommended a higher termination schedule that moves more than halfway to the experience. Further movement will likely be needed in the next study.
4. **Disability Assumption:** Experience indicates the OA should substantially increase the rates of disability for both ordinary and accidental.
5. **Retirement Patterns:** Beginning with the June 30, 2010 data, the OA began to include an indicator in the retiree data that identified whether the member was a reduced retirement, a retirement in the first year eligible, in the second year, or after. This indicator greatly increased the credibility and reliability of the reconciliation process. As such, we have given more weight to the 4-year period than the 10-year analysis. Consistent with national trends, members have been deferring retirement. We have made recommendations based on the trend as a whole and based on behavior at specific ages.

The cost estimates shown below are illustrative only and are based on the change in normal cost plus a 19-year amortization of the change in AAL as if all recommendations in this report were adopted. As discussed on Page II-1, there are always a range of reasonable assumptions and thus actual costs will be determined by the OA once the OA and the Board finalize the assumption changes.

### Illustrative Cost Estimates

	FY 14 results (June 30, 2012 lag valuation)		
	AAL (\$ Millions)	Normal Cost (\$Millions)	Employer Contribution (\$ Millions)
Base Results (current Assumptions)	\$58,046	\$1,066	\$2,895
<b>Estimated Change for changes in</b>			
Mortality Assumptions	\$2,238	\$71	\$281
Overtime Assumptions	\$0	\$0	\$0
Other pay related and demographic assumptions	<u>\$463</u>	<u>\$12</u>	<u>\$55</u>
Sub Total	\$60,747	\$1,149	\$3,231
Estimated Change for ¼% decrease in investment return assumption	\$1,505	\$86	\$185
<b>Total</b>	<b>\$62,252</b>	<b>\$1,235</b>	<b>\$3,415</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed	Year	
	Service Retiree Mortality						The proposed assumption is a based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
1A	Men	82%	532	84%	98%	503	
1B	Women	93%	1044	99%	101%	1037	
1C	By Year						
	Disabled Retiree Mortality						The proposed assumption is a based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
2A	Men	76%	20	91%	92%	25	
2B	Women	106%	68	105%	96%	68	
2C	By Year						
3A	Active Member Withdrawals	119%	4223	126%	112%	4537	Actual withdrawal experience appears to be higher than expected. The proposed assumption is based on actual experience.
3B	By Year						
	Active Member Service Retirements In 1st Year of Eligibility						Generally, members have been delaying retirements, consistent with national trends. Consider extending maximum retirement age from 70 to 75.
	Total						
4A	Men	67%	127	100%	86%	167	
4B	Women	60%	398	80%	68%	451	
	Elected						
4C	Men	92%	62	70%	66%	26	
4D	Women	84%	218	63%	65%	88	
	Mandated						
4E	Men	54%	65	109%	91%	141	
4F	Women	44%	180	86%	69%	363	
	In 2nd Year of Eligibility						
	Total						
5A	Men	134%	132	149%	84%	127	
5B	Women	118%	386	134%	74%	361	
	Elected						
5C	Men	124%	41	101%	96%	17	
5D	Women	114%	145	92%	88%	59	
	Mandated						
5E	Men	139%	92	161%	83%	110	
5F	Women	120%	241	147%	71%	302	

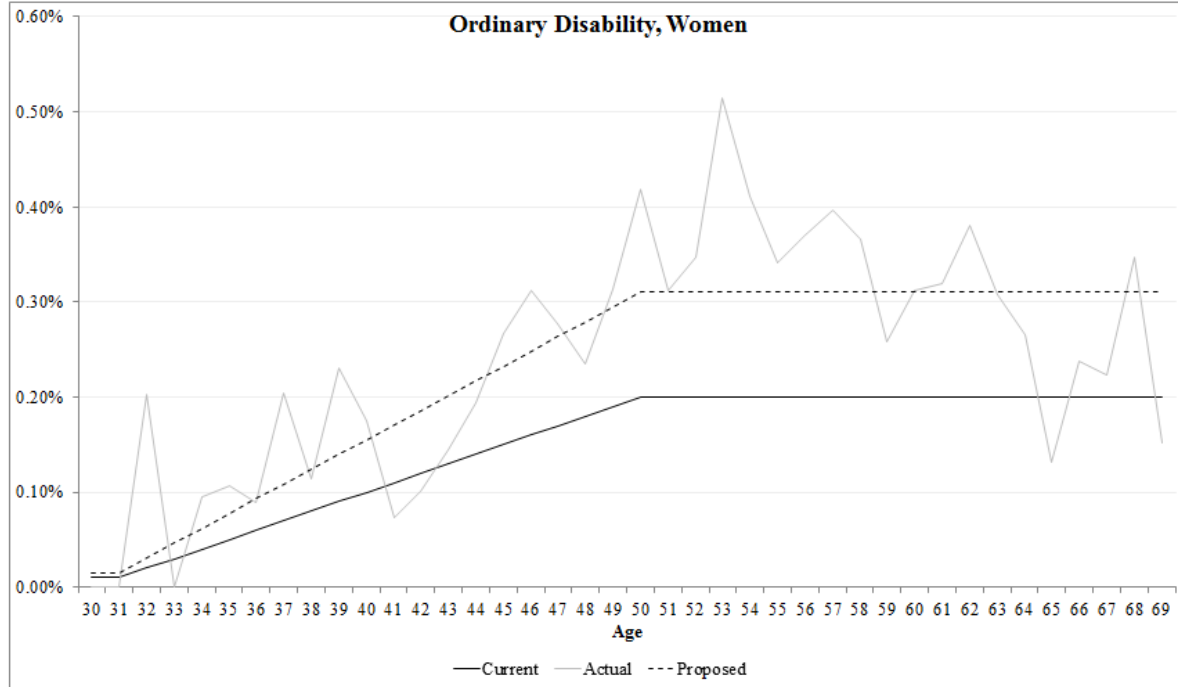
**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
EXPERIENCE STUDY RESULTS  
OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
	After 2nd Year of Eligibility						
	Total						
6A	Men	64%	358	83%	76%	402	
6B	Women	76%	1270	83%	76%	1164	
	Elected						
6C	Men	91%	59	84%	81%	24	
6D	Women	98%	246	90%	87%	100	
	Mandated						
6E	Men	60%	299	83%	76%	378	
6F	Women	72%	1024	83%	75%	1064	
6G	By Year						
	Reduced Service Retirements						
	Total						
7A	Men	164%	122	205%	170%	136	Last 4 years has higher credibility based on maturation process. Recent experience resembles current assumption and is trending downward. The proposed assumption is 120% for males and 110% for females of the current assumption.
7B	Women	133%	388	164%	149%	424	
7C	By Year						
	Active Member Ordinary Mortality						
8A	Men	93%	31	109%	109%	36	Recent experience is consistent with current assumption. There may be data issues in earlier years.
8B	Women	103%	59	136%	136%	74	
8C	By Year						
	Active Member Ordinary Disability						
9A	Men	195%	29	207%	135%	30	Actual experience appears higher than current assumption. The proposed assumption is 175% for males and 155% for females of the current assumption.
9B	Women	145%	93	172%	111%	107	
9C	By Year						
	Active Member Accidental Disability						
10A	Men	135%	8	163%	121%	9	Actual experience appears higher than current assumption. The proposed assumption is 135% of the current assumption for males and rates exponentially-fitted to actual data for females.
10B	Women	177%	30	181%	137%	30	
10C	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
11A	Total	6.56%	2.94%	6.72%	6.72%	4.94%	Merit component appears appropriate based on experience. Productivity component has been significantly lower than expected, but will need to be examined in comparison to new contracts which include retrospective increases.
11B	Merit Only	3.56%	2.40%	3.72%	3.72%	0.41%	
11C	General Increase over Inflation	0.50%	-1.18%	0.50%	0.50%	2.54%	

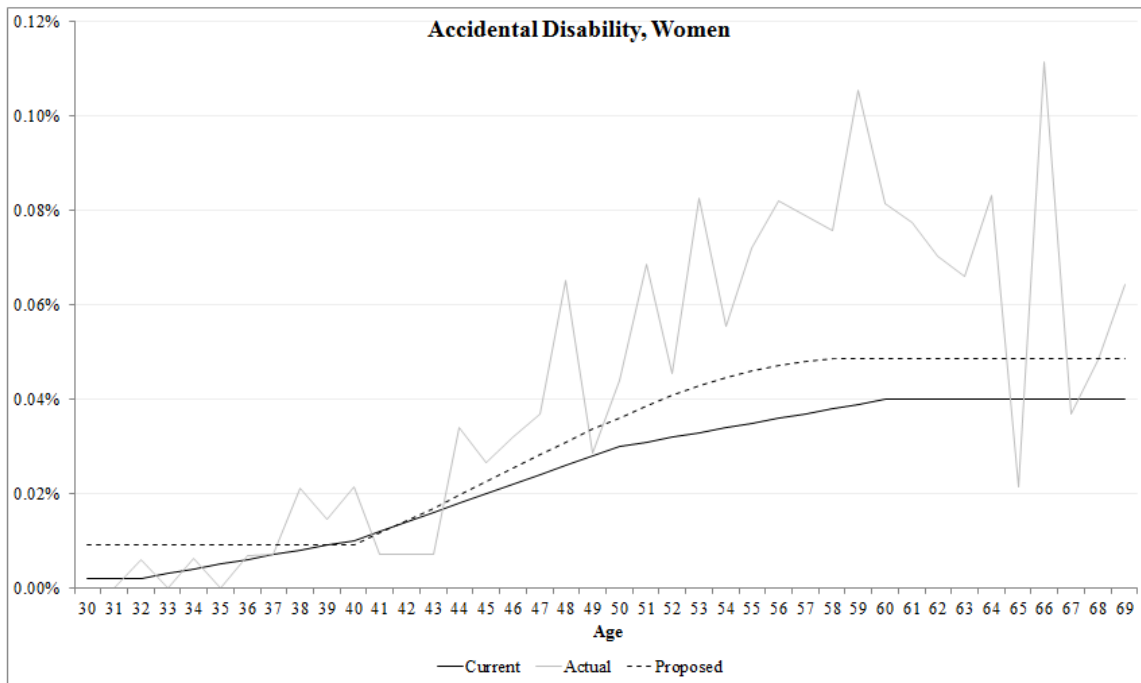
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
 ORDINARY DISABILITY ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
 ACCIDENTAL DISABILITY ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**GRS' APPROACH TO ASSIGNING STATUSES FOR TRS ACTIVE TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*
A	Active			10
B	Active-Inactive, Adjusted	Withdrawal		20
B1	Beneficiary of Retiree	Beneficiary		
B2	Beneficiary of Ordinary Death	Beneficiary		
B3	Beneficiary of Accidental Death	Beneficiary		
B4	Beneficiary of Ordinary Disability	Beneficiary		
B5	Beneficiary of Accidental Disability	Beneficiary		
C	Active-Inactive, Adjusted	Withdrawal		20
D	Deceased	Ordinary Mortality		
D1	Ordinary Death w/o Ben	Ordinary Mortality		60
D2	Accidental Death w/o Ben	Accidental Mortality		61
F	Active-Inactive	Withdrawal		20
I	Ordinary Disability	Ordinary Disability		70
J	Accidental Disability	Accidental Disability		71
L	Lump Sum	Withdrawal		
P	Duplicate			
R	Service Retirement Year 1	Retirement		90
R	Service Retirement Year 2	Retirement		91
R	Service Retirement Year Ultimate	Retirement		92
R	Reduced Service Retirement	Retirement		93
S	Retiree from Vested	Retirement		
T	Terminated Non-Vested	Withdrawal		80
U	5-Year Out	Withdrawal		
V	Deferred Vested	Withdrawal		81
WI	Missing Ordinary Disability	Ordinary Disability		
WJ	Missing Accidental Disability	Accidental Disability		
WR	Missing Services Retirement	Retirement		
WS	Missing Retirement from Vested	Retirement		
Z	Refunded	Withdrawal		

**GRS' APPROACH TO ASSIGNING STATUSES FOR TRS PENSIONER TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*	RetCause**	PayeePen
A	Active					
B	Active-Inactive, Adjusted	Withdrawal				
B1	Beneficiary of Retiree	Beneficiary			0 or 3	not 0 or 1
B2	Beneficiary of Ordinary Death	Beneficiary			7	not 0 or 1
B3	Beneficiary of Accidental Death	Beneficiary			4	not 0 or 1
B4	Beneficiary of Ordinary Disability	Beneficiary			2	not 0 or 1
B5	Beneficiary of Accidental Disability	Beneficiary			1	not 0 or 1
C	Active-Inactive, Adjusted	Withdrawal				
D	Deceased	Mortality*		60		
D1	Ordinary Death w/o Ben	Mortality*				
D2	Accidental Death w/o Ben	Mortality*				
F	Active-Inactive	Withdrawal				
I	Ordinary Disability	Ordinary Disability			2	0 or 1
J	Accidental Disability	Accidental Disability			1	0 or 1
L	Lump Sum	Withdrawal				
P	Duplicate					
R	Service Retiree	Retirement			3	0 or 1
S	Retiree from Vested	Retirement			0	0 or 1
T	Terminated Non-Vested	Withdrawal		80		
U	5-Year Out	Withdrawal				
V	Deferred Vested	Withdrawal	70	10	0	
WI	Missing Ordinary Disability	Ordinary Disability	70	10	2	0 or 1
WJ	Missing Accidental Disability	Accidental Disability	70	10	1	0 or 1
WR	Missing Services Retirement	Retirement	70	10	3	0 or 1
WS	Missing Retirement from Vested	Retirement				
Z	Refunded	Withdrawal				

\* The mortality decrements are determined by the member's status in the previous year. For example, a disability retiree's mortality decrement would be Disabled Mortality.

\*\* For all Tier 6 disabilities, indicated by RetCause equal to 6, members were classified as Ordinary Disabilities.



**Status Changes Due to Maturation**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	-2,446	-2,668	-2,949	-3,050	-3,134	-3,248	-3,362	-31,138	-32,542	-34,368	-36,127	<b>-155,032</b>
A	-41	-38	-3	-2	-3	-4	0	-1	-3	0	0	<b>-95</b>
B	124	122	172	420	755	1,937	1,835	1,577	1,332	970	0	<b>9,244</b>
B1	-2,698	-2,794	-2,894	-2,881	-3,000	-3,111	-3,189	-2,920	-2,933	-2,991	-3,060	<b>-32,471</b>
B2												<b>0</b>
B3								-53	-451	-505	-520	<b>-1,529</b>
B4	-279	-283	-298	-308	-311	-320	-317	-241	-234	-229	-221	<b>-3,041</b>
B5	-9	-10	-10	-10	-11	-9	-12	-9	-33	-27	-39	<b>-179</b>
C	0	0	0	0	0	0	0	0	0	2,337	4,986	<b>7,323</b>
D	5,935	6,262	6,649	6,804	7,013	7,771	8,287	35,125	36,664	38,729	40,232	<b>199,471</b>
D1	-6	-8	-25	-105	-210	-319	-452	-98	-97	-53	0	<b>-1,373</b>
D2												<b>0</b>
F	-181	-174	-218	-652	-1,135	-2,533	-2,934	-2,782	-2,796	-4,054	-4,986	<b>-22,445</b>
I	18	21	60	29	92	116	175	140	128	73	-2	<b>850</b>
J	4	5	13	6	7	14	49	57	44	11	0	<b>210</b>
L						-295	-501					<b>-796</b>
P	-26	-30	-48	-7	-7	-7	-7					<b>-132</b>
R	-199	-204	-176	-251	-128	-250	-224	-235	-241	-173	-34	<b>-2,115</b>
S	-3	-5	-8	-2	-7	-7	-5	-5	-8	-2	-1	<b>-53</b>
T	-138	-97	-116	-117	-198	-209	-270	-435	-110	-367	-227	<b>-2,284</b>
U	-16	-9	-10	-2	-2	-2	-2					<b>-43</b>
V	-35	-73	-111	145	296	493	946	1,030	1,307	649	-1	<b>4,646</b>
WI	-2	-8	-19	-13	-13	-13	-13	-8	-20			<b>-109</b>
WJ								-4	-7		0	<b>-11</b>
WR	-2	-9	-9	-3	-3	-3	-3	0	0	0	0	<b>-32</b>
WS												<b>0</b>
Y	0	0	0	-1	-1	-1	-1					<b>-4</b>
Z									0			<b>0</b>
Total												<b>0</b>

New York City Retirement Systems  
 Actuarial Experience Investigation  
 For the Four-Year and Ten-Year Periods Ending June 30, 2013

**Status Counts after Maturation**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	111,144	97,976	89,518	78,225	69,023	58,070	50,663	70,487	65,865	58,743	54,406	<b>804,120</b>
A	99,244	106,755	107,243	111,363	110,631	112,387	113,056	111,529	109,627	112,460	112,481	<b>1,206,776</b>
B	124	122	172	420	755	1,937	1,835	1,577	1,332	970	0	<b>9,244</b>
B1	116	115	116	114	105	95	87	59	57	60	59	<b>983</b>
B2	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
B3	0	0	0	0	0	0	0	0	5	4	10	<b>19</b>
B4	16	16	16	16	16	15	14	16	14	12	12	<b>163</b>
B5	2	2	2	2	2	2	1	1	1	1	1	<b>17</b>
C	0	0	0	0	0	0	0	0	0	2,337	4,986	<b>7,323</b>
D	23,298	25,170	26,985	28,893	31,372	33,248	35,117	36,236	38,196	40,017	41,670	<b>360,202</b>
D1	8	14	37	74	99	117	119	10	10	65	141	<b>694</b>
D2	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
F	451	544	737	4,424	4,226	4,174	5,645	8,021	8,142	5,635	1,697	<b>43,696</b>
I	1,842	1,896	2,013	2,030	2,097	2,141	2,154	2,203	2,261	2,315	2,297	<b>23,249</b>
J	464	485	525	543	588	608	641	672	707	721	711	<b>6,665</b>
L	0	0	0	0	0	380	826	0	0	0	0	<b>1,206</b>
P	557	367	366	3	3	3	3	0	0	0	0	<b>1,302</b>
R	50,173	54,395	56,548	58,373	59,236	60,351	61,259	62,316	63,610	65,993	67,440	<b>659,694</b>
S	2,132	2,351	2,493	2,519	2,552	2,509	2,481	3,082	3,275	3,301	3,489	<b>30,184</b>
T	9,422	8,917	12,030	11,196	17,326	21,195	22,957	560	2,608	2,880	5,752	<b>114,843</b>
U	347	277	220	148	148	146	146	0	0	0	0	<b>1,432</b>
V	5,618	5,967	6,363	7,072	7,245	8,052	8,427	9,267	10,308	10,528	10,891	<b>89,738</b>
WI	3	2	3	2	2	1	1	0	0	0	0	<b>14</b>
WJ	0	0	0	0	0	0	0	0	0	0	1	<b>1</b>
WR	366	143	176	175	173	170	169	24	41	18	16	<b>1,471</b>
WS	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
Y	733	546	497	468	461	459	459	0	0	0	0	<b>3,623</b>
Z	0	0	0	0	0	0	0	0	1	0	0	<b>1</b>
Total												<b>3,366,660</b>

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## SECTION V

### SUMMARY RESULTS BY SYSTEM: BERS

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## BERS

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### Findings

The results of the four-year and ten-year experience studies are shown in Appendix VIII. We have quantified the differences between actual experience and current actuarial assumptions as well as provided illustrative proposed assumptions we believe would be appropriate and reasonable. The tables on the page following our summary of recommendations provide a summary of the reconciliation in comparison to the current assumptions.

The following business rules were applied to the BERS data. A general description of each rule may be found at the beginning of Section V.

### Business Rules

Rule #	Rule Name
1	Death Reclassification
2	Accidental Disability Reclassification
3	Ordinary Disability Reclassification
4	Status Continuity
5	Active-Inactive Reclassification #1
6	Active-Inactive Reclassification #2
7	Service Retirement Adjustment
8	Eligibility Adjustment

Based on our analysis of BERS, GRS recommends consideration of the following changes for future valuations:

- 1. Post-Retirement Mortality:** Historically, based on the size of the group, members of BERS were valued using the same assumptions as NYCERS. Based on consistent data from previous and this experience studies, we are recommending a change to use the same assumptions used for TRS to be used for BERS.
- 2. Salary Assumptions:** Over the shorter and longer observation periods, the across the board compensation increases have been much lower than the current assumption, and in fact, have been in step with the rate of increase in inflation. Based on the historical data alone, a recommendation could be made to lower the general wage increase portion of the salary scale.

However, a new labor contract provides material increases over the next several years, including retroactive increases. Thus, it is unlikely the rate of salary increases the members experienced over the last ten years is representative of the rate of salary increases that will be

provided in future years. We believe the OA is better positioned to reflect these factors in the development of the updated assumption as it best fits their model. For these reasons, we do not have a proposed assumption that is different than the current general increase assumption.

The current merit portion of the scale shows declines fairly quickly for the first five years of service, with smaller merit increases for the members for service years 6 through 25. We propose decreasing the select period for this assumption from 25 years to 10 years, with smaller merit increases for years 6 through 10.

3. **Withdrawal Assumption:** The number of actual withdrawals has been consistently higher than currently assumed. We are recommending a proposed assumption with higher termination rates. Due to the size of the group, we do not believe the experience provides complete credibility, the proposed assumption does not fully reflect the actual experience during the observation. Therefore, additional increases to the termination rates may be necessary in the next experience study if future experience is consistent with historical experience.
4. **Retirement Patterns:** Beginning with the census data as of June 30, 2010, the OA began to include an indicator in the retiree data that identified whether the member was a reduced retirement, a retirement in the first year eligible, in the second year, or after. This indicator greatly increased the credibility and reliability of the reconciliation process. As such, we have given more weight to the four-year period than the ten-year analysis. Consistent with national trends, members have been deferring retirement. We have made recommendations based on the trend as a whole and based on behavior at specific ages.

The cost estimates shown below are illustrative only and are based on the change in normal cost plus a 19-year amortization of the change in AAL as if all recommendations in this report were adopted. As discussed on Page II-1, there are always a range of reasonable assumptions and thus actual costs will be determined by the OA once the OA and the Board finalize the assumption changes.

### Illustrative Cost Estimates

	FY 14 results (June 30, 2012 lag valuation)		
	AAL (\$ Millions)	Normal Cost (\$Millions)	Employer Contribution (\$ Millions)
Base Results (current Assumptions)	\$3,730	\$121	\$216
<b>Estimated Change for changes in</b>			
Mortality Assumptions	\$297	\$13	\$41
Overtime Assumptions	NA	N/A	NA
Other pay related and demographic assumptions	<u>-\$29</u>	<u>-\$18</u>	<u>-\$20</u>
Sub Total	\$3,998	\$116	\$237
Estimated Change for ¼% decrease in investment return assumption	\$116	\$9	\$17
<b>Total</b>	<b>\$4,114</b>	<b>\$125</b>	<b>\$254</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
EXPERIENCE STUDY RESULTS  
OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
	Service Retiree Mortality						
1A	Men	76%	76	82%	104%	77	The proposed assumption is based on actual TRS experience. Future mortality improvements will be projected using scale MP-2014.
1B	Women	73%	231	84%	96%	233	
1C	By Year						
	Disabled Retiree Mortality						
2A	Men	107%	9	100%	97%	8	The proposed assumption is equal to the proposed TRS Disabled Retiree Mortality assumption.
2B	Women	99%	15	101%	101%	12	
2C	By Year						
	Active Member Withdrawals						
3A	Men	132%	179	155%	124%	207	Actual withdrawal experience appears to be higher than expected. The proposed assumption is 125% for males and females of the current assumption.
3B	Women	144%	476	167%	133%	568	
3C	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Actual experience appears lower than the current assumption for unreduced retirements. Maximum retirement age of 70 may need to be increased as there are a material number of exposures in excess of 70.
4A	Total	25%	67	38%	44%	94	
4B	Elected	32%	4	35%	47%	4	
4C	Mandated	25%	63	38%	44%	90	
	In 2nd Year of Eligibility						
5A	Total	72%	111	74%	74%	86	
5B	Elected	110%	6	98%	98%	5	
5C	Mandated	71%	105	73%	73%	81	
	After 2nd Year of Eligibility						
6A	Total	44%	421	44%	90%	354	
6B	Elected	106%	16	100%	100%	10	
6C	Mandated	43%	406	43%	90%	343	
6D	By Year						
	Reduced Service Retirements						
7A	Total	262%	166	252%	184%	235	Reduced retirement actuals are outpacing what is expected, though actual experience is trending towards the current assumption.
7B	By Year						

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

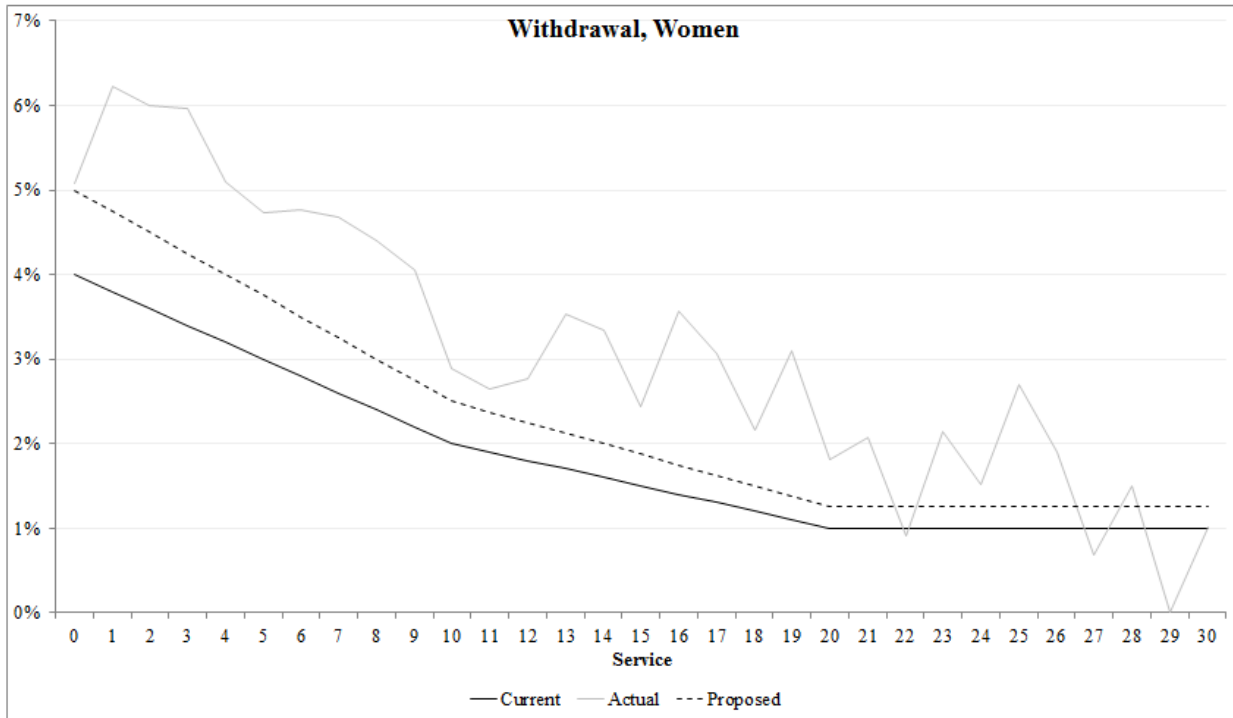
Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Proposed		
8A	Active Member Ordinary Mortality Men	59%	7	82%	82%	9	Experience has been volatile, but appears to be consistently lower than the current assumption.
8B	Women	41%	13	66%	66%	19	
8C	By Year						
9A	Active Member Ordinary Disability Men	42%	9	58%	68%	11	Ordinary Disability experience appears lower than the current assumption. The proposed assumption is 85% for males and 70% females of the current assumption.
9B	Women	39%	27	49%	69%	32	
9C	By Year						
10A	Active Member Accidental Disability Men	37%	1	96%	96%	2	Volatile experience with insufficient actuals to determine if changing the assumption is appropriate. The current assumption appears reasonable given the data over the experience period.
10B	Women	129%	5	130%	130%	5	
10C	By Year						
11A	Salary Increases** Total	<u>Expected</u> 5.21%	<u>Actual</u> 1.53%	<u>Expected</u> 5.20%	<u>Proposed</u> 4.37%	<u>Actual</u> 3.74%	Merit component is slightly higher than actual experience. Productivity component has been significantly lower than expected and may need adjustment.
11B	Merit Only	2.21%	0.68%	2.20%	1.37%	1.54%	
11C	General Increase over Inflation By Year	0.50%	-0.86%	0.50%	0.50%	-0.23%	

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown.



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
 WITHDRAWAL ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
 ORDINARY DISABILITY ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**GRS' APPROACH TO ASSIGNING STATUSES FOR BERS ACTIVE TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*
A	Active			10
B	Active-Inactive, Adjusted	Withdrawal		20
B1	Beneficiary of Retiree	Beneficiary		
B2	Beneficiary of Ordinary Death	Beneficiary		
B3	Beneficiary of Accidental Death	Beneficiary		
B4	Beneficiary of Ordinary Disability	Beneficiary		
B5	Beneficiary of Accidental Disability	Beneficiary		
C	Active-Inactive, Adjusted	Withdrawal		20
D	Deceased	Ordinary Mortality		
D1	Ordinary Death w/o Ben	Ordinary Mortality		60
D2	Accidental Death w/o Ben	Accidental Mortality		
F	Active-Inactive	Withdrawal		20
I	Ordinary Disability	Ordinary Disability		70
J	Accidental Disability	Accidental Disability		71
L	Lump Sum	Withdrawal		
P	Duplicate			
R	Service Retirement Year 1	Retirement		90
R	Service Retirement Year 2	Retirement		91
R	Service Retirement Year Ultimate	Retirement		92
R	Reduced Service Retirement	Retirement		93
S	Retiree from Vested	Retirement		
T	Terminated Non-Vested	Withdrawal		80
U	5-Year Out	Withdrawal		
V	Deferred Vested	Withdrawal		81
WI	Missing Ordinary Disability	Ordinary Disability		
WJ	Missing Accidental Disability	Accidental Disability		
WR	Missing Services Retirement	Retirement		
WS	Missing Retirement from Vested	Retirement		
Z	Refunded	Withdrawal		

**GRS' APPROACH TO ASSIGNING STATUSES FOR BERS PENSIONER TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*	RetCause**	Payee Pen
A	Active					
B	Active-Inactive, Adjusted	Withdrawal				
B1	Beneficiary of Retiree	Beneficiary			0 or 3	not 0 or 1
B2	Beneficiary of Ordinary Death	Beneficiary				
B3	Beneficiary of Accidental Death	Beneficiary			4	not 0 or 1
B4	Beneficiary of Ordinary Disability	Beneficiary			2	not 0 or 1
B5	Beneficiary of Accidental Disability	Beneficiary			1	not 0 or 1
C	Active-Inactive, Adjusted	Withdrawal				
D	Deceased	Mortality*		60		
D1	Ordinary Death w/o Ben	Mortality*				
D2	Accidental Death w/o Ben	Mortality*				
F	Active-Inactive	Withdrawal				
I	Ordinary Disability	Ordinary Disability			2 or 6	0 or 1
J	Accidental Disability	Accidental Disability			1	0 or 1
L	Lump Sum	Withdrawal				
P	Duplicate					
R	Service Retiree	Retirement			3	0 or 1
S	Retiree from Vested	Retirement			0	0 or 1
T	Terminated Non-Vested	Withdrawal		80		
U	5-Year Out	Withdrawal				
V	Deferred Vested	Withdrawal	70	10	0	
WI	Missing Ordinary Disability	Ordinary Disability	70	10	2	0 or 1
WJ	Missing Accidental Disability	Accidental Disability	70	10	1	0 or 1
WR	Missing Services Retirement	Retirement	70	10	3	0 or 1
WS	Missing Retirement from Vested	Retirement				
Z	Refunded	Withdrawal				

\* The mortality decrements are determined by the member's status in the previous year. For example, a disability retiree's mortality decrement would be Disabled Mortality.

\*\* For all Tier 6 disabilities, indicated by RetCause equal to 6, members were classified as Ordinary Disabilities.

### Status Changes Due to Maturation

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	0	-1	0	0	0	0	0	-3	0	0	-2	-6
A	0	0	0	0	0	0	0	0	0	0	0	0
B	9	8	0	17	59	88	243	254	231	190	0	1,099
B1	0	0	0	0	0	0	0	0	0	0	0	0
B2	0	0	0	0	0	0	0	0	0	0	0	0
B3	0	0	0	0	0	0	0	0	0	0	0	0
B4	0	0	0	0	0	0	0	0	0	0	0	0
B5	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	601	2,253	2,854
D	0	0	0	0	0	0	0	0	0	0	0	0
D1	0	0	0	0	0	0	0	0	0	0	0	0
D2	0	0	0	0	0	0	0	0	0	0	0	0
F	-9	-9	0	-29	-133	-184	-464	-383	-461	-998	-2,253	-4,923
I	0	0	0	0	0	0	-1	0	0	0	0	-1
J	0	1	0	3	0	0	15	6	7	7	0	39
L	0	0	0	0	0	0	0	0	0	0	0	0
P	0	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	-1	0	-1	0	0	-2
S	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	3	0	0	2	5
U	0	0	0	0	0	0	0	0	0	0	0	0
V	0	1	0	9	74	96	208	124	224	200	0	936
WI	0	0	0	0	0	0	0	0	0	0	0	0
WJ	0	0	0	0	0	0	0	-1	0	0	0	-1
WR	0	0	0	0	0	0	0	0	0	0	0	0
WS	0	0	0	0	0	0	0	0	0	0	0	0
Y	0	0	0	0	0	0	0	0	0	0	0	0
Z	0	0	0	0	0	0	0	0	0	0	0	0
Total												0

New York City Retirement Systems  
 Actuarial Experience Investigation  
 For the Four-Year and Ten-Year Periods Ending June 30, 2013

**Status Counts after Maturation**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	27,195	32,913	32,355	30,104	28,461	26,383	24,761	41,169	40,847	36,070	36,403	<b>356,661</b>
A	22,494	21,419	23,098	23,379	22,434	23,206	23,299	23,324	23,131	27,840	25,848	<b>259,472</b>
B	9	8	0	17	59	88	243	254	231	190	0	<b>1,099</b>
B1	517	533	550	584	606	599	623	545	556	538	640	<b>6,291</b>
B2	0	1	0	0	0	0	0	0	0	0	0	<b>1</b>
B3	4	3	3	3	3	3	3	50	31	98	54	<b>255</b>
B4	45	55	65	70	71	73	79	75	76	73	79	<b>761</b>
B5	6	6	7	7	9	11	9	13	6	11	5	<b>90</b>
C	0	0	0	0	0	0	0	0	0	601	2,253	<b>2,854</b>
D	2,815	3,165	3,530	3,761	4,061	4,346	4,627	255	400	288	175	<b>27,423</b>
D1	138	121	61	123	179	210	218	10	54	35	33	<b>1,182</b>
D2	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
F	74	77	62	2,615	2,999	3,067	3,201	3,278	2,984	2,307	1,874	<b>22,538</b>
I	436	483	516	546	583	589	588	669	703	731	790	<b>6,634</b>
J	120	130	130	132	145	140	149	138	144	155	153	<b>1,536</b>
L	0	0	0	157	408	523	705	0	0	0	0	<b>1,793</b>
P	5	2	0	0	0	0	0	0	0	0	0	<b>7</b>
R	10,012	10,261	10,528	10,961	11,341	11,610	11,813	11,963	12,362	12,698	13,074	<b>126,623</b>
S	271	273	276	273	279	276	271	371	388	411	457	<b>3,546</b>
T	6,870	6,661	5,728	4,361	5,435	5,973	6,456	940	1,041	930	1,330	<b>45,725</b>
U	365	264	300	299	298	297	297	0	0	0	0	<b>2,120</b>
V	293	315	325	382	401	381	437	327	425	407	200	<b>3,893</b>
WI	0	1	8	1	1	1	1	0	1	0	0	<b>14</b>
WJ	0	0	0	0	1	0	0	0	0	0	0	<b>1</b>
WR	22	152	240	11	16	16	15	4	5	2	17	<b>500</b>
WS	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
Y	11,694	6,542	5,603	5,599	5,595	5,592	5,590	0	0	0	0	<b>46,215</b>
Z	0	0	0	0	0	0	0	0	0	0	0	<b>0</b>
Total												<b>917,234</b>

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## SECTION V

### SUMMARY RESULTS BY SYSTEM: POLICE

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## POLICE

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### Findings and Recommendations

The results of the four-year and ten-year experience studies are shown in Appendix IX. We have quantified the differences between actual experience and current actuarial assumptions as well as provided proposed assumptions we believe would be appropriate and reasonable. The tables on the page following our summary of recommendations provide a summary of the reconciliation in comparison to the current assumptions.

The following business rules were applied to the POLICE data. A general description of each rule may be found at the beginning of Section V.

### Business Rules

Rule #	Rule Name
1	Death Reclassification
2	Accidental Disability Reclassification
3	Ordinary Disability Reclassification
4	Status Continuity
5	Active-Inactive Reclassification #1
6	Active-Inactive Reclassification #2
7	Service Retirement Adjustment
8	Eligibility Adjustment

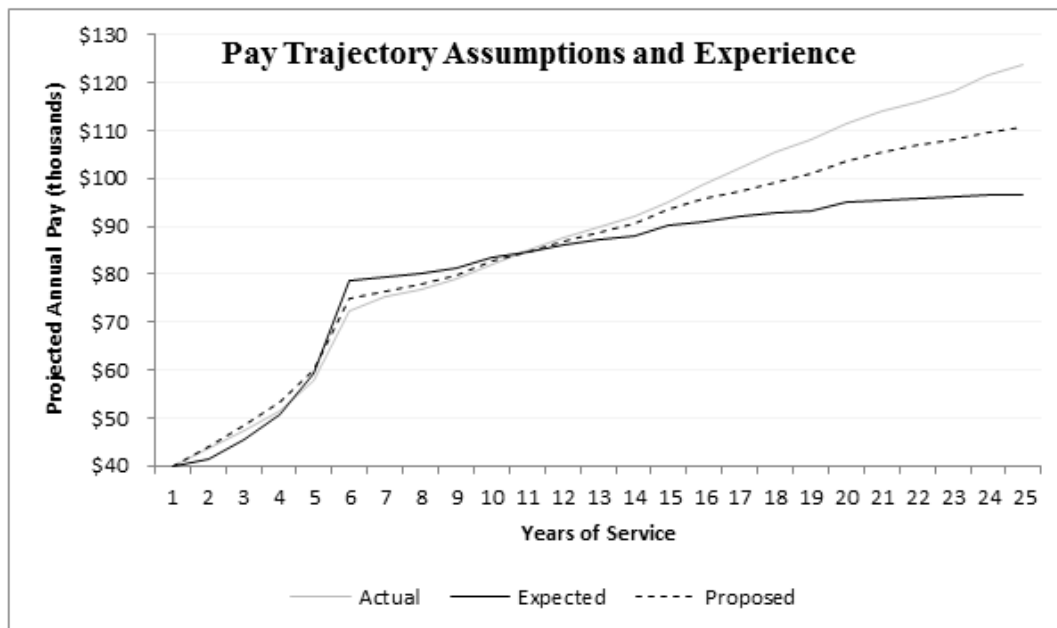
Based on our analysis of POLICE, GRS recommends consideration of the following changes for future valuations:

- 1. Post-Retirement Mortality:** We recommend updating the base mortality table to a System-specific mortality table developed using POLICE's actual experience. We also recommend using a full generational mortality assumption using projection scale MP-2014. A new table based on the results of this study and the application of MP-2014 is provided in the Appendix.
- 2. Salary and Overtime Assumptions:** While there is a large amount of variation in the average salary increase from year to year, the actual average salary increases for individual members over the observation period have been higher than expected based on the current assumptions. As a result, we recommend the OA increase the rates of the merit component of the salary increase assumption, especially for members with more than five-years of service.

The following table gives the average actual increase and the average expected increase by category:

	4-Year Period Ending FY2013		10-Year Period Ending FY2013	
	Expected	Actual	Expected	Actual
Inflation	2.50%	2.00%	2.50%	2.43%
General Increase above Inflation	1.00%	-0.47%	1.00%	0.73%
Average Additional Merit	4.04%	6.68%	3.87%	4.91%
Total Average Salary Increase	7.54%	8.21%	7.37%	8.07%
Baseline Overtime	14.76%	16.92%	14.84%	17.23%
Dual Service Overtime	14.03%	21.12%	14.42%	23.89%
Overtime "Spike"	-0.71%	4.20%	-0.42%	6.66%

As shown, for the four and ten-year period, the actual merit increases were noticeably higher than assumed. The following graph shows the growth of salary for a new member hired with a hypothetical \$40,000 salary receiving only the merit portion of the salary schedule during their career. As shown, the actual experience has materially outpaced the assumption.



Due to external factors (such as 9/11 and contract negotiations), it is unlikely the rate of salary increases the members experienced over the last ten years is representative of the rate of salary increases that will be provided in future years. That said, we are recommending an increase to the assumed rate of merit increases, especially for members with more than five years of service, and have provided a revised assumption in the Appendix. Since the rate of compensation increases is very dependent on several external factors which include contract agreements and current human capital philosophies, we believe the OA is better positioned to reflect these factors in the development of the updated assumption.

Experience also shows there is a behavior for members to incur additional overtime to increase their compensation in the year prior to retirement. This is most likely attributable to the member intentionally increasing their final compensation, or “spiking,” for purposes of increasing the amount of their retirement benefit. Since “spiking” is a behavioral measure that is permitted by plan design and less related to compensation structure, we are recommending updating the assumption to a constant 22% Overtime Pay Assumption for members eligible for a service retirement benefit, which equates to an approximate average 6% overtime “spiking” assumption. Since it is more difficult for Tier 6 members to spike their overtime based on their averaging period, a lower assumption is likely more appropriate for this group.

It is our understanding that management is aware of an increase in overtime for the City's uniformed forces in recent years. To address the situation for Police, the City has implemented an overtime reduction consistent with the Police Commissioner's commitment to reduce such expenditures going forward. Overtime expenditure levels will be strictly monitored by the Police Department and by the Office of Management and Budget to ensure they do not exceed budgeted overtime amounts. The OA should monitor this assumption for changes in behavior to reflect in future valuations.

These recommendations, if incorporated by the OA in their assumption updates, would increase the liability and contribution requirements.

- 3. Withdrawal Assumption:** The number of actual withdrawals has been on a steady decline over the last eight years for the period ending June 30, 2011. However, we are not recommending a change at this time. The experience has been lower than the assumption for the short term but higher over the longer term. We do recommend the OA continue to monitor this assumption as a reduction may be appropriate in the future.
- 4. Disability Assumption:** Experience indicates the OA could substantially reduce the rates of disability for members who are eligible for WTC benefits. We recommend the OA adopt new assumptions that move at least halfway toward the experience from current expectations. However, the OA purposefully uses higher rates of disability than actual experience to reflect members who would have qualified for disability, but instead chose normal retirement because they would be eligible for a VSF benefit. Thus, we are



recommending lower probabilities but not reflecting as large an adjustment as the experience would suggest.

The cost estimates shown below are illustrative only and are based on the change in normal cost plus a 19-year amortization of the change in AAL as if all recommendations in this report were adopted. As discussed on Page II-1, there are always a range of reasonable assumptions and thus actual costs will be determined by the OA once the OA and the Board finalize the assumption changes.

### Illustrative Cost Estimates

	FY 14 results (June 30, 2012 lag valuation)		
	AAL (\$ Millions)	Normal Cost (\$Millions)	Employer Contribution (\$ Millions)
Base Results (current Assumptions)	\$42,463	\$1,242	\$2,262
<b>Estimated Change for changes in</b>			
Mortality Assumptions	\$870	\$25	\$107
Overtime Assumptions	\$557	\$62	\$114
Other pay related and demographic assumptions	<u>\$576</u>	<u>-\$49</u>	<u>\$6</u>
Sub Total	\$44,466	\$1,280	\$2,488
Estimated Change for ¼% decrease in investment return assumption	\$1,226	\$68	\$157
<b>Total</b>	<b>\$45,692</b>	<b>\$1,348</b>	<b>\$2,645</b>

**NEW YORK CITY POLICE PENSION FUND  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
1A	Service Retiree Mortality Men	96%	520	97%	97%	503	The proposed assumption is a based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
1B	By Year						
2A	Disabled Retiree Mortality Men	89%	311	88%	94%	286	The proposed assumption is a based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
2B	By Year						
3A	Active Member Withdrawals	82%	318	137%	137%	537	Actual experience has been trending downward. Recommend no change at this time as different timeframes provide different results.
3B	By Year						
4A	Active Member Service Retirements In 1st Year of Eligibility	71%	602	97%	97%	886	Recent experience has been consistent with OA assumption.
4B	In 2nd Year of Eligibility	136%	140	114%	114%	104	
4C	After 2nd Year of Eligibility	101%	382	88%	88%	239	
4D	By Year						
5A	Active Member Ordinary Mortality Men	76%	14	94%	94%	16	Actual experience has been consistent with current assumption, with trend lowering recently. We recommend no change.
5B	By Year						
6A	Active Member Accidental Mortality	45%	3	61%	76%	4	Actual experience appears lower than current assumption. We recommend a lower assumption.
6B	By Year						

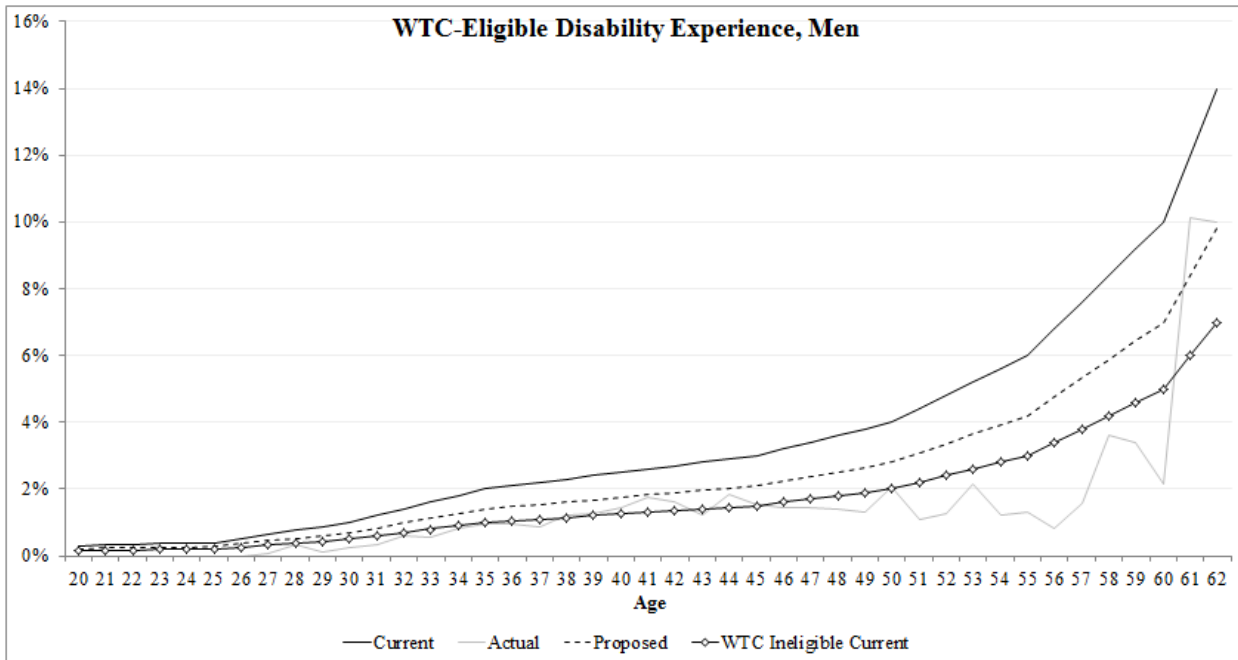
**NEW YORK CITY POLICE PENSION FUND  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*			Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to		Average Number of Decrements per Year	
				Expected	Proposed		
7A	Active Member Ordinary Disability	95%	51	118%	118%	63	Recent experience has been consistent with OA assumption.
7B	By Year						
8A	Active Member Accidental Disability						Actual experience has been lower than current assumption. Members that are and are not eligible for WTC benefits appear to have similar actual experience. New rates, exponentially-fitted to actual data, are proposed for both those eligible and not eligible for WTC Disability.
8B	WTC Eligible	54%	241	49%	76%	226	
8C	WTC Ineligible By Year	67%	91	105%	104%	134	
9A	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Overall, salary experience has outpaced the assumption. We recommend a higher merit portion of the salary scale.
9B	Total	7.54%	8.21%	7.37%	6.35%	8.07%	
9C	Merit Only	4.54%	6.68%	4.37%	2.35%	3.21%	
9C	General Increase over Inflation By Year	0.50%	-0.47%	0.50%	0.50%	0.62%	
10A	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Recommend a flat assumption for OT and OT in year before disability. Recommend a higher OT assumption before retirement. Members are working less Overtime before becoming disabled.
10B	For All Years	14.76%	16.92%	14.84%	16.00%	17.23%	
10C	In Year Before Service Retirement	14.03%	21.12%	14.42%	22.00%	23.89%	
10D	In Year Before Disability Retirement By Year	14.73%	11.13%	14.75%	16.00%	11.54%	

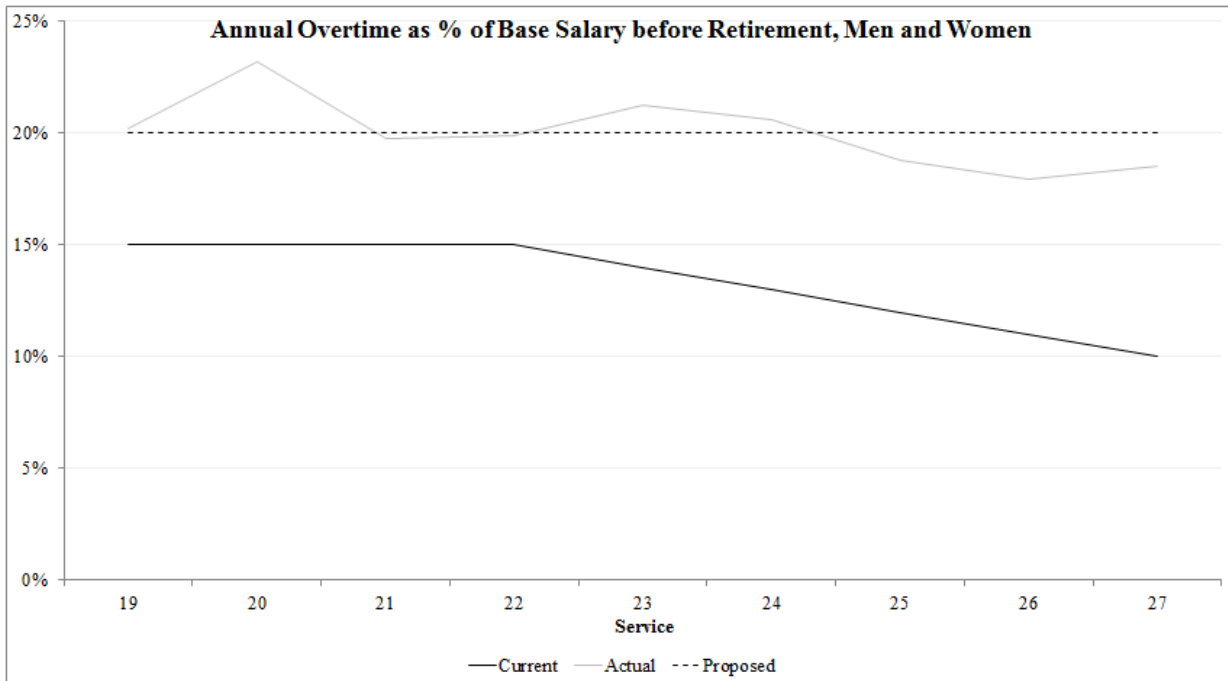
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
 DISABILITY ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
 OVERTIME ASSUMPTIONS AND EXPERIENCE  
 FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**



**GRS' APPROACH TO ASSIGNING STATUSES FOR POLICE ACTIVE TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*
A	Active			10
B	Active-Inactive, Adjusted	Withdrawal		20
B1	Beneficiary of Retiree	Beneficiary		
B2	Beneficiary of Ordinary Death	Beneficiary		
B3	Beneficiary of Accidental Death	Beneficiary		
B4	Beneficiary of Ordinary Disability	Beneficiary		
B5	Beneficiary of Accidental Disability	Beneficiary		
C	Active-Inactive, Adjusted	Withdrawal		20
D	Deceased	Ordinary Mortality		
D1	Ordinary Death w/o Ben	Ordinary Mortality		60
D2	Accidental Death w/o Ben	Accidental Mortality		61
F	Active-Inactive	Withdrawal		20
I	Ordinary Disability	Ordinary Disability		70
J	Accidental Disability	Accidental Disability		71
L	Lump Sum	Withdrawal		
P	Duplicate			
R	Service Retiree	Retirement		90
R	Service Retirement Year 2	Retirement		91
R	Service Retirement Year Ultimate	Retirement		92
R	Reduced Service Retirement	Retirement		93
S	Retiree from Vested	Retirement		
T	Terminated Non-Vested	Withdrawal		80
U	5-Year Out	Withdrawal		
V	Deferred Vested	Withdrawal		81
WI	Missing Ordinary Disability	Ordinary Disability		
WJ	Missing Accidental Disability	Accidental Disability		
WR	Missing Services Retirement	Retirement		
WS	Missing Retirement from Vested	Retirement		
Z	Refunded	Withdrawal		

**GRS' APPROACH TO ASSIGNING STATUSES FOR POLICE PENSIONER TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*	RetCause	PayeePen
A	Active					
B	Active-Inactive, Adjusted	Withdrawal				
B1	Beneficiary of Retiree	Beneficiary			0 or 3	not 0 or 1
B2	Beneficiary of Ordinary Death	Beneficiary			7	not 0 or 1
B3	Beneficiary of Accidental Death	Beneficiary			4	not 0 or 1
B4	Beneficiary of Ordinary Disability	Beneficiary			2	not 0 or 1
B5	Beneficiary of Accidental Disability	Beneficiary			1	not 0 or 1
C	Active-Inactive, Adjusted	Withdrawal				
D	Deceased	Mortality*		60		
D1	Ordinary Death w/o Ben	Mortality*				
D2	Accidental Death w/o Ben	Mortality*				
F	Active-Inactive	Withdrawal				
I	Ordinary Disability	Ordinary Disability			2	0 or 1
J	Accidental Disability	Accidental Disability			1	0 or 1
L	Lump Sum	Withdrawal				
P	Duplicate					
R	Service Retiree	Retirement			3	0 or 1
S	Retiree from Vested	Retirement			0	0 or 1
T	Terminated Non-Vested	Withdrawal		80		
U	5-Year Out	Withdrawal				
V	Deferred Vested	Withdrawal	70	10	0	
WI	Missing Ordinary Disability	Ordinary Disability				
WJ	Missing Accidental Disability	Accidental Disability				
WR	Missing Services Retirement	Retirement				
WS	Missing Retirement from Vested	Retirement				
Z	Refunded	Withdrawal				


\* The mortality decrements are determined by the member's status in the previous year. For example, a disability retiree's mortality decrement would be Disabled Mortality.

### Business Rule 1: Death Reclassification

Description:	Example:	2006	2007	2008	2009	
For a member who shows as a death in a given data file and shows a date of death in an earlier period, the death status was filled backwards until the fiscal year associated with the death date.	A member is identified as a death status in the 6/30/2009 data file with a Date of Death of 7/2/2006. The member's 6/30/2007 status and all future statuses are updated to reflect the new Date of Death.	<b>Initial</b>	R	R	R	R
				↓	↓	↓
		<b>Matured</b>	R	D	D	D

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status												
A				-1				-1				
B												
B1	-204	-33	-38	-22	-36	-28	-39	-1				
B2			-1						-1	-3	-1	
B3												
B4	335	98	85	49	75	72	103	91	65	61	55	1,089
B5	-88	-8	-11	-10	-13	-9	-9	-61	-54	-50	-54	-367
C												
D												
D1	-10	-17	-6	-1	-12	-8	-20	-7	-5	-6		-92
D2												
F				-1	-1	-2	-2	-9	-4			-19
I	-11	-8	-2	-5	-4	-5	-5	-4	-1			-45
J	-5	-8	-2	-5	-4	-7	-5		-1			-37
L								-2				-2
R	-17	-23	-25	-4	-5	-13	-20	-8		-1		-116
S		-1								-1		-2
T												
U												
V												
WI												
WJ												
WR												
WS												
Y												
Z												
<b>Total</b>												

### Business Rule 2: Accidental Disability Reclassification

Description:	Example:	2002	2003	2004	2005	
For members reclassifying to Accidental Disability (status code 'J') within one year after retirement, GRS changed the record as though the member immediately retired under Accidental Disability.	An active member retires 8/22/2002 and is reclassified to Accidental Disability as of 6/30/2005. The statuses for FYE 2003 and 2004 are changed to Accidental Disability.	<b>Initial</b>	A	R	J	J
						
		<b>Matured</b>	A	J	J	J

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status												
A												
B												
B1												
B2												
B3												
B4												
B5												
C												
D												
D1			13				56	41	60	48		218
D2												
F									-1			-1
I							-10	-2	-6	-8		-26
J												
L												
R			-13				-46	-39	-53	-38		-189
S										-2		-2
T												
U												
V												
WI												
WJ												
WR												
WS												
Y												
Z												
<b>Total</b>												


**Business Rule 3: Ordinary Disability Reclassification**

Description:	Example:	2001	2002	2003	2004	
For members retiring under Ordinary Disability (status code 'I'), either after service retirement or after termination, GRS changed the record as though the member immediately retired under Ordinary Disability.	An active member retires 4/23/2002 and is reclassified to ordinary disability in FYE 2004. The statuses for FYE 2002 and 2003 are changed to Ordinary Disability.	<b>Initial</b>	A	R	R	I
				↓	↓	
		<b>Matured</b>	A	I	I	I

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status												
A												
B												
B1												
B2												
B3												
B4												
B5												
C												
D							1	1	2	4		8
D1												
D2												
F							-1	-1	-1	-2		-5
I												
J												
L												
R									-1	-2		-3
S												
T												
U												
V												
WI												
WJ												
WR												
WS												
Y												
Z												
<b>Total</b>												



### Business Rule 4: Status Continuity

Description:	Example:	2004	2005	2006	2007	
In any three year period, if the first and last year's status matched, the middle year was also changed to be consistent. This rule was applied to statuses A, I, J, and R.	A record shows ordinary disability in 6/30/2004 and 6/30/2006 but beneficiary in 6/30/2005. The 6/30/2005 status is changed to ordinary disability.	<b>Initial</b>	I	B3	I	I
						
		<b>Matured</b>	I	I	I	I

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status												
A							79	66	60	46		251
B												
B1												
B2												
B3												
B4												
B5												
C												
D												
D1												
D2												
F							-79	-66	-60	-46		-251
I												
J												
L												
R												
S												
T												
U												
V												
WI												
WJ												
WR												
WS												
Y												
Z												
<b>Total</b>												

**Business Rule 5: Active-Inactive Reclassification #1**

<b>Description:</b>	<b>Example:</b>		2008	2009	2010	2011
Status B was introduced to differentiate active-inactive members that returned to service. Any active member that becomes active-inactive for a period and eventually returns to active service will have all active-inactive statuses changed to B.	An active member as of 6/30/2008 becomes Active-Inactive as of 6/30/2009. When the member returns to active status in 6/30/2011, all prior active-inactive years are changed to B.	<b>Initial</b>	A	F	F	A
				↓	↓	
		<b>Matured</b>	A	B	B	A

**Business Rule 6: Active-Inactive Reclassification #2**

<b>Description:</b>	<b>Example:</b>		2010	2011	2012	2013
Status C was introduced to differentiate active-inactive members in the final two years of the experience period. Any active member that becomes active-inactive during this period will have all active-inactive statuses changed to C.	An active member as of FYE 2011 becomes Active-Inactive as of FYE 2012. Based on this Rule, the member's status for FYE 2012 and 2013 is changed to C.	<b>Initial</b>	A	A	F	F
					↓	↓
		<b>Matured</b>	A	A	C	C

Status B&C were added to classify members as active in the reconciliation process but not include them in the salary analysis.

**Impact of Business Rules 5 and 6**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status												
A												
B				-4	-4	-15	-88	-70	-67	-47		<b>-295</b>
B1												
B2												
B3												
B4												
B5												
C										-63	-206	<b>-269</b>
D												
D1												
D2												
F				4	4	15	88	70	67	110	206	<b>564</b>
I												
J												
L												
R												
S												
T												
U												
V												
WI												
WJ												
WR												
WS												
Y												
Z												
<b>Total</b>												

**Status Changes Due to Maturation, Using Business Rules 1, 2, 3, 4, 5 and 6**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status												
A				-1			78	66	60	46		<b>249</b>
B				-4	-4	-15	-88	-70	-67	-47		<b>-295</b>
B1	-204	-33	-38	-22	-36	-28	-39	-1				<b>-401</b>
B2			-1					-1		-3	-1	<b>-6</b>
B3												
B4	335	98	85	49	75	72	103	91	65	61	55	<b>1,089</b>
B5	-88	-8	-11	-10	-13	-9	-9	-61	-54	-50	-54	<b>-367</b>
C										-63	-206	<b>-269</b>
D							1	1	2	4		<b>8</b>
D1	-10	-17	7	-1	-12	-8	36	34	55	42		<b>126</b>
D2												
F				3	3	13	6	-6	1	62	206	<b>288</b>
I	-11	-8	-2	-5	-4	-5	-15	-6	-7	-8		<b>-71</b>
J	-5	-8	-2	-5	-4	-7	-5		-1			<b>-37</b>
L							-2					<b>-2</b>
R	-17	-23	-38	-4	-5	-13	-66	-47	-54	-41		<b>-308</b>
S		-1								-3		<b>-4</b>
T												
U												
V												
WI												
WJ												
WR												
WS												
Y												
Z												
<b>Total</b>												

**Status Counts after Maturation, Using Business Rules 1, 2, 3, 4, 5 and 6**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	16,121	14,767	11,341	8,442	5,976	3,695	2,136	5,656	5,933	6,196	6,596	<b>86,859</b>
A	36,208	35,144	35,477	35,337	35,357	35,456	35,709	34,311	32,284	30,456	29,054	<b>374,793</b>
B												
B1	1,090	933	801	677	557	465	396	307	248	205	164	<b>5,843</b>
B2				2	3	3	3					<b>11</b>
B3	311	311	313	316	309	301	289	280	276	268	263	<b>3,237</b>
B4	27	28	21	19	18	16	14	13	11	10	10	<b>187</b>
B5	34	33	32	31	31	29	29	26	24	22	21	<b>312</b>
C												
D	10,552	11,453	12,391	13,266	14,213	15,171	16,130	17,068	18,020	18,934	19,884	<b>167,082</b>
D1	9	12	6	7	12	16	18	4		10	22	<b>116</b>
D2	8	5	2	2	6	12	13	2	2		3	<b>55</b>
F	3	3	3	1,336	1,503	1,738	1,885	1,736	1,547	1,277	1,141	<b>12,172</b>
I	3,933	3,911	3,878	3,829	3,751	3,665	3,587	3,519	3,438	3,342	3,258	<b>40,111</b>
J	10,152	10,449	10,672	10,942	11,134	11,306	11,485	11,634	11,803	11,943	12,067	<b>123,587</b>
L							8					<b>8</b>
R	22,510	23,766	25,235	26,500	27,440	27,751	27,648	26,876	27,866	28,691	28,947	<b>293,230</b>
S	119	110	136	167	213	207	203	1,262	1,340	1,388	1,420	<b>6,565</b>
T	2,244	2,293	2,850	2,188	2,512	3,178	3,426	323	296	375	298	<b>19,983</b>
U	42	40	40	40	39	39	39					<b>279</b>
V	495	597	643	755	782	808	838	846	775	746	715	<b>8,000</b>
WI			1									<b>1</b>
WJ			1									<b>1</b>
WR		3	12	2	2	2	2					<b>23</b>
WS			3									<b>3</b>
Y												
Z												
<b>Total</b>												<b>1,142,458</b>

## **Development of WTC Reclassification Assumption**

The POLICE System reclassifies members from Service Retirement, Ordinary Disability, and Accidental Disability to WTC Accidental Disability or WTC Death if certain requirements are satisfied. The WTC benefit is payable to the member or the beneficiary of the member after death if the death has been determined to be caused by the WTC. Thus, reclassifications (or approvals) can occur before or after the death of the member.

To analyze the occurrence of spousal reclassification, GRS identified the members who would have been eligible for a WTC benefit, and then identified the members from that group whose beneficiary received a WTC benefit.

To be eligible for reclassification, GRS identified members who met the following conditions: (1) were active in the 6/30/2001 data (were active on September 11, 2001), (2) were still alive in the 6/30/2008 data, and (3) subsequently died prior to the 6/30/2013 data. The 6/30/2007 data was the first time WTC elements were included in the data set and thus deaths prior to that would not be reliable comparisons for future reclassifications. Using these conditions, a total of 43 members were used in the analysis.

We then grouped the data based on the WTC\_elig field in the member's record and the RetCause field from the resulting beneficiary's record.

All 43 identified members had a WTC\_elig field code of "WT", which means the member had filed paperwork to be eligible for WTC benefits. Of the 43, 10 had beneficiaries with a RetCause equal to 6 in the 6/30/2013 data (which means receiving a WTC benefit) and 33 had a non-WTC benefit. Thus, 23% of the members who died with a "WT" eligibility code have resulted in a WTC benefit.

No members without a "WT" in the WTC\_elig field have been reclassified to a WTC benefit as of the 6/30/2013 data; so the reclassification occurrence has been 0% for members who had not filed paperwork.

Based on this data, GRS recommends an explicit assumption as to how many members will qualify for WTC benefits.

In our opinion, for members with a WTC\_elig code of "WT", it would be reasonable to have an assumption of 25% to 35%, for those who will receive a WTC benefit.

While there have been no members without a WTC\_elig code of "WT" show up with a WTC benefit, there has been very little time elapsed and very few occurrences. Therefore, we believe it would be reasonable to have a reclassification assumption of 5-10% for this group. This assumption may need to be updated as more experience becomes available.

**POLICE WTC RECLASSIFICATION METHODOLOGY AND ASSUMPTIONS**

GRS also has examined WTC Disability reclassification for participants of the POLICE System that reclassify immediately upon retirement, ultimately following retirement, or have not reclassified. For this analysis, member's *Status* and *WTC\_Elig* code were collected over the eight-year period ending 6/30/2013 for all participants in the POLICE system who were active as of 6/30/2001. The *WTC\_Elig* code TC (WTC Disability Benefit Approved) was used to indicate which members were approved to receive a WTC disability benefit. Members retiring under Service Retirement and Disability were looked at separately. Based on this information, it appears that a majority of the members who reclassify do so very soon after or in conjunction with retirement.

**NEW YORK CITY POLICE PENSION FUND  
 RECLASSIFICATION TO WTC DISABILITY  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2013**

First Year with WTC Elig = TC	Year of Retirement															
	2007		2008		2009		2010		2011		2012		2013		Total	
	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis
No occurrence	1,440	354	801	332	398	339	806	289	1,528	306	1,346	238	828	230	7,147	2,088
2007		30													0	30
2008		2		22											0	24
2009		4		2											0	6
2010	6					40		14							6	54
2011	3		2					1		22					5	23
2012	1		1				2	2		8		8			4	18
2013	1	1	1		1		4	1		2		3		17	7	24
Subtotal	11	37	4	24	1	40	6	18	0	32	0	11	0	17	22	179
<b>Total</b>	<b>1,451</b>	<b>391</b>	<b>805</b>	<b>356</b>	<b>399</b>	<b>379</b>	<b>812</b>	<b>307</b>	<b>1,528</b>	<b>338</b>	<b>1,346</b>	<b>249</b>	<b>828</b>	<b>247</b>	<b>7,169</b>	<b>2,267</b>

Reclassification	Year of Retirement									
	2007	2008	2009	2010	2011	2012	2013	Total		
Immediate Ret	0%	0%	0%	0%	0%	0%	0%	0%		
Immediate Dis	2%	2%	0%	1%	1%	1%	2%	1%		
Ultimate Ret	1%	0%	0%	1%	0%	0%		0%		
Ultimate Dis	0%	0%	5%	0%	1%	0%		1%		
None Ret	78%	69%	51%	72%	82%	84%	77%	76%		
None Dis	19%	29%	44%	26%	16%	15%	21%	22%		
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>		

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## SECTION V

### SUMMARY RESULTS BY SYSTEM: FIRE

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## FIRE

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### Findings and Recommendations

The results of the four-year and ten-year experience studies are shown in Appendix X. We have quantified the differences between actual experience and current actuarial assumptions as well as provided illustrative proposed assumptions we believe would be appropriate and reasonable. The table on the page following a summary of our recommendations provides a summary of the reconciliation in comparison to the current assumptions.

The following business rules were applied to the FIRE data. A general description of each rule may be found at the beginning of Section V.

### Business Rules

Rule #	Rule Name
1	Death Reclassification
2	Accidental Disability Reclassification
3	Ordinary Disability Reclassification
4	Status Continuity
5	Active-Inactive Reclassification #1
6	Active-Inactive Reclassification #2
7	Service Retirement Adjustment
8	Eligibility Adjustment

Based on our analysis of FIRE, GRS recommends consideration of the following changes for future valuations:

- 1. Post-Retirement Mortality:** We recommend updating the base mortality table to a System-specific mortality table developed using FIRE's actual experience for the core ages for retirees (ages 60 to 84). We also recommend using a full generational mortality assumption using projection scale MP-2014. A new table based on the results of this study and the application of MP-2014 is provided in the Appendix.
- 2. Salary and Overtime Assumptions:** The following table gives the average actual increase and the average expected increase by category.

	4-Year Period Ending FY2013		10-Year Period Ending FY2013	
	Expected	Actual	Expected	Actual
Inflation	2.50%	2.00%	2.50%	2.43%
General Increase above Inflation	1.00%	0.52%	1.00%	0.68%
Average Additional Merit	2.76%	4.55%	3.48%	4.52%
Total Average Salary Increase	6.26%	7.08%	6.98%	7.62%
Baseline Overtime	14.71%	19.29%	14.85%	19.54%
Dual Service Overtime	15.46%	25.12%	17.67%	30.41%
Overtime "Spike"	0.75%	5.83%	2.82%	10.87%

As shown, the actual merit increases were noticeably higher than assumed. As a result, we recommend the OA consider increasing the rates of the merit component of the salary increase assumption, especially for members with more than five years of service and have provided a revised assumption in the Appendix. However, since the rate of compensation increase is dependent on several external factors which include contract agreements and current human capital philosophies, we believe the OA is better positioned to reflect these factors and determine whether an update to this assumption is appropriate.

Experience also shows there is a behavior for members to incur additional overtime to increase their compensation in the year prior to retirement. This is most likely attributable to the members intentionally increasing their final compensation, or "spiking," for purposes of increasing the amount of their retirement benefit. Since "spiking" is a behavioral measure that is permitted by plan design and less related to compensation structure, we are recommending updating the assumption to a constant 24% Overtime Pay Assumption for members eligible for a service retirement benefit, which equates to an approximate average 7% overtime "spiking" assumption. This recommendation, if incorporated by the OA in their assumption updates, would increase the liability and contribution requirements. Since it is more difficult for Tier 6 members to spike their overtime based on their averaging period, a lower assumption is likely more appropriate for this group.

It is our understanding that management is aware of an increase in overtime for the City's uniformed forces in recent years. The increase in Fire overtime is the result of a hiring freeze from 2008 to 2013 due to a hiring discrimination lawsuit (United States v. City of New York). The City has budgeted for an increase in Fire headcount and the Office of Management and Budget projects that the Fire Department will reach its budgeted headcount

by the end of FY 2018. Additionally, the Fire Department is also working to reduce discretionary overtime. The OA should monitor this assumption for changes in behavior to reflect in future valuations.

3. **Disability Assumption:** Experience indicates the OA could substantially reduce the rates of disability for ordinary disability and non-WTC accidental disabilities. However, the OA purposefully uses higher rates of disability than actual experience to reflect members who would have qualified for disability, but instead chose normal retirement because they would be eligible for a VSF benefit. Thus, we are recommending lower probabilities but not reflecting as large an adjustment as the experience would suggest.

The cost estimates shown below are illustrative only and are based on the change in normal cost plus a 19-year amortization of the change in AAL as if all recommendations in this report were adopted. As discussed on Page II-1, there are always a range of reasonable assumptions and thus actual costs will be determined by the OA once the OA and the Board finalize the assumption changes.

### Illustrative Cost Estimates

	FY 14 results (June 30, 2012 lag valuation)		
	AAL (\$ Millions)	Normal Cost (\$Millions)	Employer Contribution (\$ Millions)
Base Results (current Assumptions)	\$17,026	\$418	\$963
<b>Estimated Change for changes in</b>			
Mortality Assumptions	\$240	\$9	\$32
Overtime Assumptions	\$307	\$11	\$39
Other pay related and demographic assumptions	<u>\$261</u>	<u>\$46</u>	<u>\$71</u>
Sub Total	\$17,834	\$484	\$1,105
Estimated Change for ¼% decrease in investment return assumption	\$456	\$28	\$57
<b>Total</b>	<b>\$18,290</b>	<b>\$512</b>	<b>\$1,162</b>

**NEW YORK FIRE PENSION FUND  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
1A	Service Retiree Mortality Men	102%	194	102%	93%	192	The proposed assumption is a based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
1B	By Year						
2A	Disabled Retiree Mortality Men	95%	220	94%	93%	204	The proposed assumption is a based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
2B	By Year						
3A	Active Member Withdrawals	91%	25	106%	106%	34	Recommend no change.
3B	By Year						
4A	Active Member Service Retirements In 1st Year of Eligibility	38%	14	71%	101%	28	Actual experience has been trending downward. We recommend a lower assumption. The proposed assumptions are 70%, 90%, and 85% of the current assumption for members retiring in the first, second, and after second year of eligibility, respectively, with other small adjustments at specific ages as warranted. We anticipate the use of the MSTATC field will lead to more accurate data in future experience studies.
4B	In 2nd Year of Eligibility	62%	4	96%	107%	6	
4C	After 2nd Year of Eligibility	53%	52	62%	73%	48	
4D	By Year						
5A	Active Member Ordinary Mortality Men	46%	4	61%	101%	5	Actual experience has been trending downward. The proposed assumption is 60% of the current assumption.
5B	By Year						
6A	Active Member Accidental Mortality	58%	3	73%	98%	4	Actual experience has been trending downward. The proposed assumption is 75% of the current assumption.
6B	By Year						

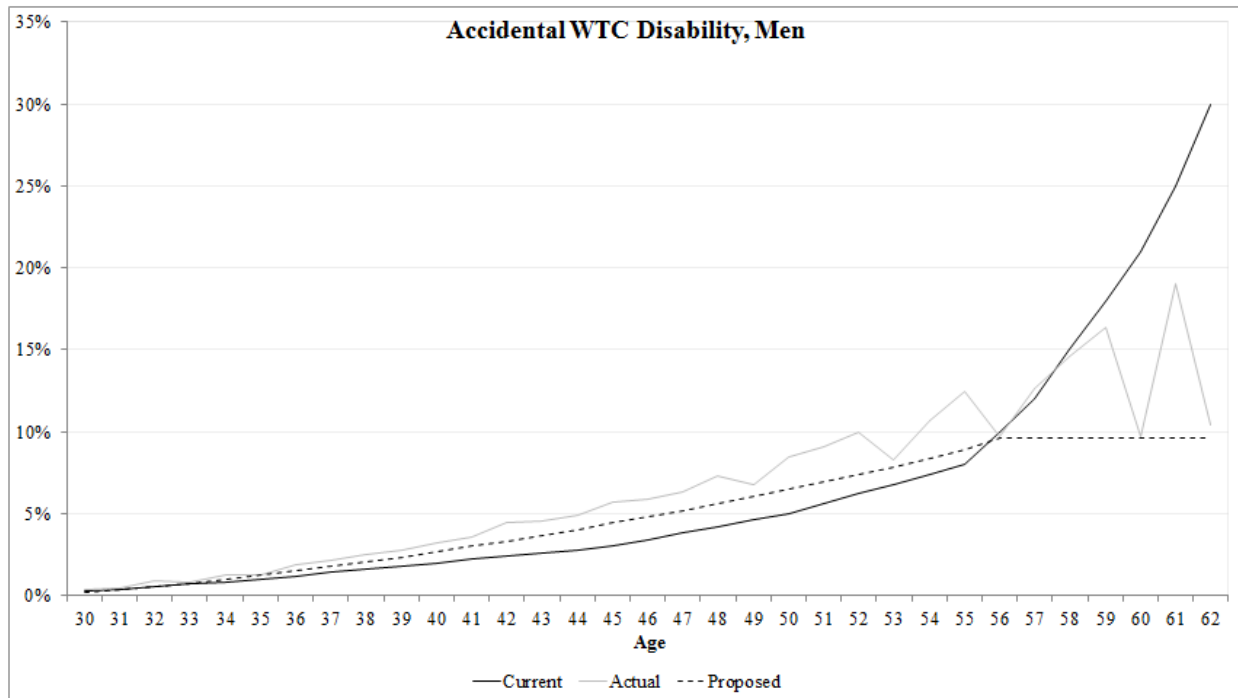
**NEW YORK FIRE PENSION FUND  
 EXPERIENCE STUDY RESULTS  
 OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
7A	Active Member Ordinary Disability	6%	2	11%	13%	3	Materially different results emerged than were expected. Expectations should be lowered. The proposed assumption is 80% of the current assumption.
7B	By Year						
8A	Active Member Accidental Disability WTC Eligible	134%	328	152%	124%	365	Expectations should be moved towards experience in both cases. New rates, exponentially-fitted to actual data, are proposed for both those eligible and not eligible for WTC Disability.
8B	WTC Ineligible	52%	6	45%	79%	4	
8C	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Overall, salary experience has been higher than the current assumption.
9A	Total	6.26%	7.08%	6.98%	6.68%	7.62%	
9B	Merit Only	3.26%	4.55%	3.98%	3.67%	4.52%	
	General Increase over Inflation	0.50%	0.52%	0.50%	0.50%	0.68%	
9C	By Year						
	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Actual OT rates appear to increase over member's working career. The current assumption assumes overtime rates will decline over time. We recommend a materially higher, flat dual-service OT assumption.
10A	For All Years	14.71%	19.29%	14.85%	17.00%	19.54%	
10B	In Year Before Service Retirement	15.46%	25.12%	17.67%	24.00%	30.41%	
10C	In Year Before Disability Retirement	14.74%	20.56%	15.36%	20.00%	23.98%	
10D	By Year						

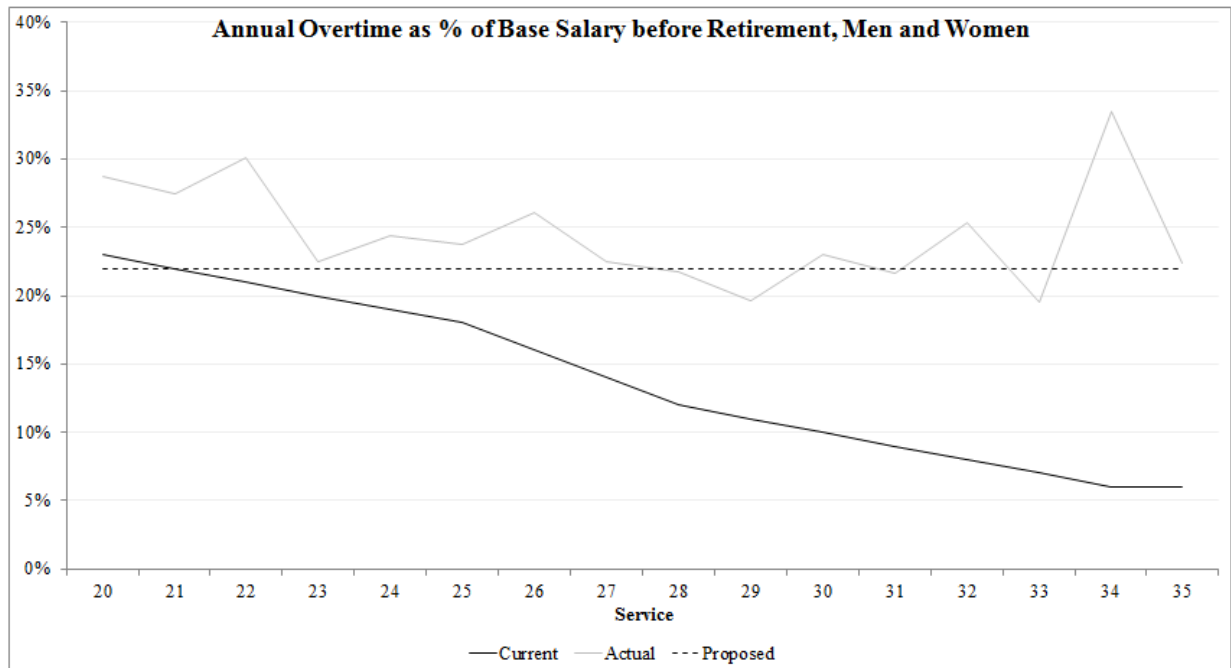
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK FIRE DEPARTMENT FUND  
 DISABILITY ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK FIRE DEPARTMENT FUND  
 OVERTIME ASSUMPTIONS AND EXPERIENCE  
 FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**



**GRS' APPROACH TO ASSIGNING STATUSES FOR FIRE ACTIVE TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*
A	Active			10
B	Active-Inactive, Adjusted	Withdrawal		20
B1	Beneficiary of Retiree	Beneficiary		
B2	Beneficiary of Ordinary Death	Beneficiary		
B3	Beneficiary of Accidental Death	Beneficiary		
B4	Beneficiary of Ordinary Disability	Beneficiary		
B5	Beneficiary of Accidental Disability	Beneficiary		
C	Active-Inactive, Adjusted	Withdrawal		20
D	Deceased	Ordinary Mortality		
D1	Ordinary Death w/o Ben	Ordinary Mortality		60
D2	Accidental Death w/o Ben	Accidental Mortality		61
F	Active-Inactive	Withdrawal		20
I	Ordinary Disability	Ordinary Disability		70
J	Accidental Disability	Accidental Disability		71
L	Lump Sum	Withdrawal		
P	Duplicate			
R	Service Retirement Year 1	Retirement		90
R	Service Retirement Year 2	Retirement		91
R	Service Retirement Year Ultimate	Retirement		92
R	Reduced Service Retirement	Retirement		93
S	Retiree from Vested	Retirement		
T	Terminated Non-Vested	Withdrawal		80
U	5-Year Out	Withdrawal		
V	Deferred Vested	Withdrawal		81
WI	Missing Ordinary Disability	Ordinary Disability		
WJ	Missing Accidental Disability	Accidental Disability		
WR	Missing Services Retirement	Retirement		
WS	Missing Retirement from Vested	Retirement		
Z	Refunded	Withdrawal		

**GRS' APPROACH TO ASSIGNING STATUSES FOR FIRE PENSIONER TABLES  
 FROM 6/30/2010 THROUGH 6/30/2013**

GRS Status Code	Meaning	Associated Decrement	MSTATP*	MSTATC*	RetCause	PayeePen
A	Active					
B	Active-Inactive, Adjusted	Withdrawal				
B1	Beneficiary of Retiree	Beneficiary			0 or 3	not 0 or 1
B2	Beneficiary of Ordinary Death	Beneficiary				
B3	Beneficiary of Accidental Death	Beneficiary			4 or 6	not 0 or 1
B4	Beneficiary of Ordinary Disability	Beneficiary			2	not 0 or 1
B5	Beneficiary of Accidental Disability	Beneficiary			1 or 5	not 0 or 1
C	Active-Inactive, Adjusted	Withdrawal				
D	Deceased	Mortality*		60		
D1	Ordinary Death w/o Ben	Mortality*				
D2	Accidental Death w/o Ben	Mortality*				
F	Active-Inactive	Withdrawal				
I	Ordinary Disability	Ordinary Disability			2	0 or 1
J	Accidental Disability	Accidental Disability			1	0 or 1
L	Lump Sum	Withdrawal				
P	Duplicate					
R	Service Retiree	Retirement			3	0 or 1
S	Retiree from Vested	Retirement			0	0 or 1
T	Terminated Non-Vested	Withdrawal				
U	5-Year Out	Withdrawal				
V	Deferred Vested	Withdrawal	70	10	0	
WI	Missing Ordinary Disability	Ordinary Disability				
WJ	Missing Accidental Disability	Accidental Disability	70	10	1	0 or 1
WR	Missing Services Retirement	Retirement				
WS	Missing Retirement from Vested	Retirement				
Z	Refunded	Withdrawal		80		

\* The mortality decrements are determined by the member's status in the previous year. For example, a disability retiree's mortality decrement would be Disabled Mortality.

### Business Rule 1: Death Reclassification

Description:	Example:	2006	2007	2008	2009	
For a member who shows as a death in a given data file and shows a date of death in an earlier period, the death status was filled backwards until the fiscal year associated with the death date.	A member is identified as a death status in the 6/30/2009 data file with a Date of Death of 7/2/2006. The member's 6/30/2007 status and all future statuses are updated to reflect the new Date of Death.	<b>Initial</b>	R	R	R	R
				↓	↓	↓
		<b>Matured</b>	R	D	D	D

Status	Fiscal Year Ended June 30,											Total	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
No Status	-262	-176	-173	-1	-3	-1	-1	-2			-2		<b>-619</b>
A	-5		-1										<b>-6</b>
B													
B1	-33	-23	-23	-17	-27	-16	-10	-7	-11				<b>-167</b>
B2													
B3				-31									<b>-31</b>
B4	-7	-2	-4	-2	-3	-4	-5		-4				<b>-31</b>
B5	-36	-6	-7	-4	-11	-12	-7	-11	-12	-12	-11		<b>-106</b>
C													
D	366	217	230	69	49	47	31	26	36	21	11		<b>1,071</b>
D1	-2	-2	-3	-4		-4	-7	-4	-5	-4			<b>-31</b>
D2													
F													
I	-1	-1	-1	-1	-1	-1							<b>-6</b>
J	-3	-1	-7	-6		-5		-2	-3	-1			<b>-27</b>
L													
P													
R	-4	-2	-11	-3	-4	-4							<b>-28</b>
S													
T	-12	-3											<b>-15</b>
U	-1												<b>-1</b>
V							-1						<b>-1</b>
WI													
WJ													
WR		-1											<b>-1</b>
WS													
Z								-1	-2				<b>-1</b>
<b>Total</b>													



**Business Rule 2: Accidental Disability Reclassification**

Description:	Example:	2002	2003	2004	2005	
For members reclassifying to Accidental Disability (status code 'J'), either after service retirement or after termination, GRS changed the record as though the member immediately retired under Accidental Disability.	An active member retires 8/22/2002 and is reclassified to Accidental Disability as of 6/30/2005. The statuses for FYE 2003 and 2004 are changed to Accidental Disability.	<b>Initial</b>	A	R	R	J
				↓	↓	
		<b>Matured</b>	A	J	J	J

Status	Fiscal Year Ended June 30,										Total	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012		2013
No Status	-27	-7	-2									<b>-36</b>
A												
B												
B1												
B2												
B3	-39	-39	-39									<b>-117</b>
B4												
B5												
C												
D												
D1												
D2												
F												
I												
J	93	119	63						32	10		<b>317</b>
L												
P												
R	-1		-20						-31	-10		<b>-62</b>
S									-1			<b>-1</b>
T												
U												
V												
WI												
WJ	-26	-73	-2									<b>-101</b>
WR												
WS												
Z												
<b>Total</b>												

### Business Rule 3: Ordinary Disability Reclassification

Description:	Example:	2001	2002	2003	2004	
For members retiring under Ordinary Disability (status code 'I'), either after service retirement or after termination, GRS changed the record as though the member immediately retired under Ordinary Disability.	An active member retires 4/23/2002 and is reclassified to ordinary disability in FYE 2004. The statuses for FYE 2002 and 2003 are changed to Ordinary Disability.	<b>Initial</b>	A	R	R	I
				↓	↓	
		<b>Matured</b>	A	I	I	I

Status	Fiscal Year Ended June 30,												Total	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			
No Status	-2	-2	-1	-1	-1	-1	-1							-9
A														
B														
B1														
B2														
B3														
B4														
B5														
C														
D														
D1														
D2														
F									-1					-1
I	2	3	2	2	3	3	3	2	2	1				22
J														
L														
P														
R				-1	-1	-1	-1	-1	-1	-2	-1			-8
S														
T														
U														
V														
WI							-1	-1	-1					-3
WJ														
WR			-1											-1
WS														
Z														
<b>Total</b>														

### Business Rule 4: Status Continuity

Description:	Example:	2004	2005	2006	2007	
In any three year period, if the first and last year's status matched, the middle year was also changed to be consistent. This rule was applied to statuses A, I, J, and R.	A record shows ordinary disability in 6/30/2004 and 6/30/2006 but beneficiary in 6/30/2005. The 6/30/2005 status is changed to ordinary disability.	<b>Initial</b>	I	B3	I	I
				↓		
		<b>Matured</b>	I	I	I	I

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status												
A				2								2
B												
B1												
B2												
B3												
B4												
B5												
C												
D												
D1												
D2												
F												
I												
J												
L												
P												
R				3								3
S												
T				-2								-2
U												
V												
WI												
WJ												
WR				-3								-3
WS												
Z												
<b>Total</b>												

**Business Rule 5: Active-Inactive Reclassification #1**

Description:	Example:	2008	2009	2010	2011
Status B was introduced to differentiate active-inactive members that returned to service. Any active member that becomes active-inactive for a period and eventually returns to active service will have all active-inactive statuses changed to B.	An active member as of 6/30/2008 becomes Active-Inactive as of 6/30/2009. When the member returns to active status in 6/30/2011, all prior active-inactive years are changed to B.	<b>Initial</b>	A	F	F
				↓	↓
		<b>Matured</b>	A	B	B

**Business Rule 6: Active-Inactive Reclassification #2**

Description:	Example:	2010	2011	2012	2013
Status C was introduced to differentiate active-inactive members in the final two years of the experience period. Any active member that becomes active-inactive during this period will have all active-inactive statuses changed to C.	An active member as of FYE 2011 becomes Active-Inactive as of FYE 2012. Based on this Rule, the member's status for FYE 2012 and 2013 is changed to C.	<b>Initial</b>	A	A	F
				↓	↓
		<b>Matured</b>	A	A	C

Status B&C were added to classify members as active in the reconciliation process but not include them in the salary analysis.

**Impact of Business Rules 5 and 6**

Status	Fiscal Year Ended June 30,											Total	
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		
No Status													
A													
B				1		11	23	12	11	6			<b>64</b>
B1													
B2													
B3													
B4													
B5													
C										2	12		<b>14</b>
D													
D1													
D2													
F				-1		-11	-23	-12	-11	-8	-12		<b>-78</b>
I													
J													
L													
P													
R													
S													
T													
U													
V													
WI													
WJ													
WR													
WS													
Z													
<b>Total</b>													

**Status Changes Due to Maturation, Using Business Rules 1, 2, 3, 4, 5 and 6**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	-291	-185	-176	-2	-4	-2	-2	-2		-2		<b>-666</b>
A	-5		-1	2								<b>-4</b>
B				1		11	23	12	11	6		<b>64</b>
B1	-33	-23	-23	-17	-27	-16	-10	-7	-11			<b>-167</b>
B2												
B3	-39	-39	-39	-31								<b>-148</b>
B4	-7	-2	-4	-2	-3	-4	-5		-4			<b>-31</b>
B5	-36	-6	-7	-4	-11	-12	-7	-11	-12	-12	-11	<b>-129</b>
C										2	12	<b>14</b>
D	366	217	230	69	49	47	31	26	36	21	11	<b>1103</b>
D1	-2	-2	-3	-4		-4	-7	-4	-5	-4		<b>-35</b>
D2												
F				-1		-11	-23	-13	-11	-8	-12	<b>-79</b>
I	1	2	1	1	2	2	3	2	2	1		<b>17</b>
J	90	118	56	-6		-5		-2	29	9		<b>289</b>
L												
R	-5	-2	-32	-1	-5	-5	-1	-1	-33	-11		<b>-96</b>
S									-1			<b>-1</b>
T	-12	-3		-2								<b>-17</b>
U	-1											<b>-1</b>
V							-1					<b>-1</b>
WI					-1	-1	-1					<b>-3</b>
WJ	-26	-73	-2									<b>-101</b>
WR		-2		-3								<b>-5</b>
WS												
Y												
Z									-1	-2		<b>-3</b>
<b>Total</b>												

**Status Counts after Maturation, Using Business Rules 1, 2, 3, 4, 5 and 6**

Status	Fiscal Year Ended June 30,											Total
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
No Status	6,496	5,564	4,822	4,196	3,740	3,152	2,837	3,093	3,105	3,128	3,008	<b>43,141</b>
A	10,898	11,328	11,498	11,640	11,529	11,585	11,459	11,079	10,649	10,266	10,022	<b>121,953</b>
B				1		11	23	12	11	6		<b>64</b>
B1	1,311	1,218	1,093	972	845	726	631	521	437	360	311	<b>8,425</b>
B2	1											<b>1</b>
B3	594	582	568	568	561	560	553	590	578	563	556	<b>6,273</b>
B4	15	15	13	12	12	12	12	15	13	14	15	<b>148</b>
B5	21	22	22	23	23	22	17	26	21	24	26	<b>247</b>
C										2	12	<b>14</b>
D	5,333	5,870	6,372	6,932	7,489	8,030	8,558	9,064	9,627	10,121	10,606	<b>88,002</b>
D1		1	2	5	6	7	7	7	10	3		<b>48</b>
D2	21	24	28	31	31	31	33	33	33	33	37	<b>335</b>
F	5	5				3	7	10	5	4	4	<b>43</b>
I	1,548	1,489	1,442	1,388	1,339	1,287	1,219	1,167	1,112	1,058	1,007	<b>14,056</b>
J	7,052	7,260	7,569	7,796	8,061	8,283	8,460	8,635	8,763	8,943	9,074	<b>89,896</b>
L							1					<b>1</b>
R	6,205	6,454	6,516	6,422	6,309	6,159	6,013	5,869	5,755	5,591	5,439	<b>66,732</b>
S	33	34	34	33	31	28	28	31	32	38	37	<b>359</b>
T	66	80	104	61	95	173	210	13	16	9	10	<b>837</b>
U	89	89	94	94	94	94	94					<b>648</b>
V	16	13	19	20	31	33	34	33	30	30	33	<b>292</b>
WI												
WJ	1	1		2	2	2	2			1		<b>11</b>
WR	481	147		2								<b>630</b>
WS	1											<b>1</b>
Y	10	2	2									<b>14</b>
Z									1	4	1	<b>6</b>
<b>Total</b>												<b>442,177</b>

## **Development of WTC Reclassification Assumption**

The FIRE System reclassifies members from Service Retirement, Ordinary Disability, and Accidental Disability to WTC Accidental Disability or WTC Death if certain requirements are satisfied. The WTC benefit is payable to the member or the beneficiary of the member after death if the death has been determined to be caused by the WTC. Thus, reclassifications (or approvals) can occur before or after the death of the member.

To analyze the occurrence of spousal reclassification, GRS identified the members who would have been eligible for a WTC benefit, and then identified the members from that group whose beneficiary received a WTC benefit.

To be eligible for reclassification, GRS identified members who met the following conditions: (1) were active in the 6/30/2001 data (were active on September 11, 2001), (2) were still alive in the 6/30/2008 data, and (3) subsequently died prior to 6/30/2013. The 6/30/2008 data was the first time WTC elements were included in the data set and thus deaths prior to that would not be reliable comparisons for future reclassifications. Using these conditions, a total of 39 members were used in the analysis.

We then grouped the data based on the WTC\_elig field in the member's record and the RetCause field from the resulting beneficiary's record.

Of the 39, 8 of the members had a "WTA" or blank WTC\_elig field and of those 8, none of the beneficiaries have been reclassified to a WTC benefit as of the 6/30/2013 data; so the reclassification occurrence has been 0% (albeit a very small data set).

The remaining 31 members all had a WTC\_elig field code of "WTB," which means the member had filed paperwork to be eligible for WTC benefits and the application had been verified. Of the 31, 17 had beneficiaries with a RetCause equal to 6 in the 6/20/2013 data (which means they were receiving a WTC benefit) and 14 had a non-WTC benefit. Thus, 55% of the members who died with a WTA eligibility code have resulted in a WTC benefit.

Based on this data, GRS recommends an explicit assumption as to how many members will qualify for WTC benefits.

In our opinion, for members with a WTC\_elig code of WT, it would be reasonable to have an assumption of 55% to 70%, for those who will receive a WTC benefit.

While there have been no members without a WTC\_elig code of "WT" show up with a WTC benefit, there has been very little time elapsed and very few occurrences. Therefore, we believe it would be reasonable to have a reclassification assumption of 5-15% for this group. This assumption may need to be updated as more experience becomes available.



## FIRE WTC RECLASSIFICATION METHODOLOGY AND ASSUMPTIONS

GRS also has examined WTC Disability reclassification for participants of the FIRE System that reclassify immediately upon retirement, ultimately following retirement, or have not reclassified. For this analysis, member's *Status*, *WTC\_Elig* code, and *Retirement Cause* code were collected over the eight-year period ending 6/30/2013 for all participants in the FIRE system who were active as of 6/30/2001 and had filed an Application for a WTC benefit. Any *WTC\_Elig* value was used to indicate which members had filed for a WTC disability benefit. *Retirement Cause* value 5 was used to indicate which members were in receipt of a WTC Disability benefit. Members retiring under Service Retirement and Disability were looked at separately. Based on this information, it appears that most members who do reclassify do so very soon after or in conjunction with retirement.

### NEW YORK CITY FIRE PENSION FUND RECLASSIFICATION TO WTC DISABILITY FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2013

First Year with RetCause = 5	Year of Retirement															
	2007		2008		2009		2010		2011		2012		2013		Total	
	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis	Ret	Dis
No occurrence	89	308	42	214	38	164	42	155	89	146	52	141	90	111	442	1,239
2007		29													0	29
2008		20		115											0	135
2009		8		17		115									0	140
2010		13		6		26		125							0	170
2011		22		12		11		17		128					0	190
2012	1	4		5	2	3	2	1		18		130			5	161
2013	3	3	1	2	1	1		1		3		5		111	5	126
Subtotal	4	99	1	157	3	156	2	144	0	149	0	135	0	111	10	951
<b>Total</b>	<b>93</b>	<b>407</b>	<b>43</b>	<b>371</b>	<b>41</b>	<b>320</b>	<b>44</b>	<b>299</b>	<b>89</b>	<b>295</b>	<b>52</b>	<b>276</b>	<b>90</b>	<b>222</b>	<b>452</b>	<b>2,190</b>

Reclassification	Year of Retirement									
	2007	2008	2009	2010	2011	2012	2013	Total		
Immediate Ret	0%	0%	0%	0%	0%	0%	0%	0%		
Immediate Dis	6%	28%	32%	36%	33%	40%	36%	29%		
Ultimate Ret	1%	0%	1%	1%	0%	0%		0%		
Ultimate Dis	14%	10%	11%	6%	5%	2%		7%		
None Ret	18%	10%	11%	12%	23%	16%	29%	17%		
None Dis	62%	52%	45%	45%	38%	43%	36%	47%		
<b>Total</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>		

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
	Service Retiree Mortality						
1A	Men	93%	1237	97%	97%	1265	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
1B	Women	93%	1321	97%	99%	1336	
1C	Men & Women	93%	2557	97%	98%	2601	
1D	By Year						
	Disabled Retiree Mortality						
2A	Men	93%	126	95%	108%	123	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
2B	Women	116%	94	119%	101%	88	
2C	Men & Women	102%	219	104%	105%	211	
2D	By Year						
	Active Member Withdrawals						
3A	Men	131%	1385	132%	114%	1393	Actual experience is higher than expected. We recommend raising the current assumption.
3B	Women	140%	2047	139%	120%	1994	
3C	Men & Women	136%	3432	136%	118%	3387	
3D	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Unreduced retirements were expected to roughly double over the period. Generally, members have been delaying retirements, consistent with national trends. Consider extending maximum retirement age from 70 to 75.
4A	Total	68%	844	82%	83%	908	
4B	Elected	76%	182	70%	79%	151	
4C	Mandated	66%	662	84%	84%	757	
	In 2nd Year of Eligibility						
5A	Total	68%	387	75%	75%	360	
5B	Elected	80%	63	75%	75%	50	
5C	Mandated	66%	325	75%	75%	310	
	After 2nd Year of Eligibility						
6A	Total	51%	1830	49%	49%	1414	
6B	Elected	81%	191	77%	77%	120	
6C	Mandated	49%	1639	47%	47%	1295	
6D	By Year						
	Reduced Service Retirements						
7A	Total	167%	755	91%	67%	383	There were more reduced retirements than expected. We recommend raising the current assumption.
7B	By Year						

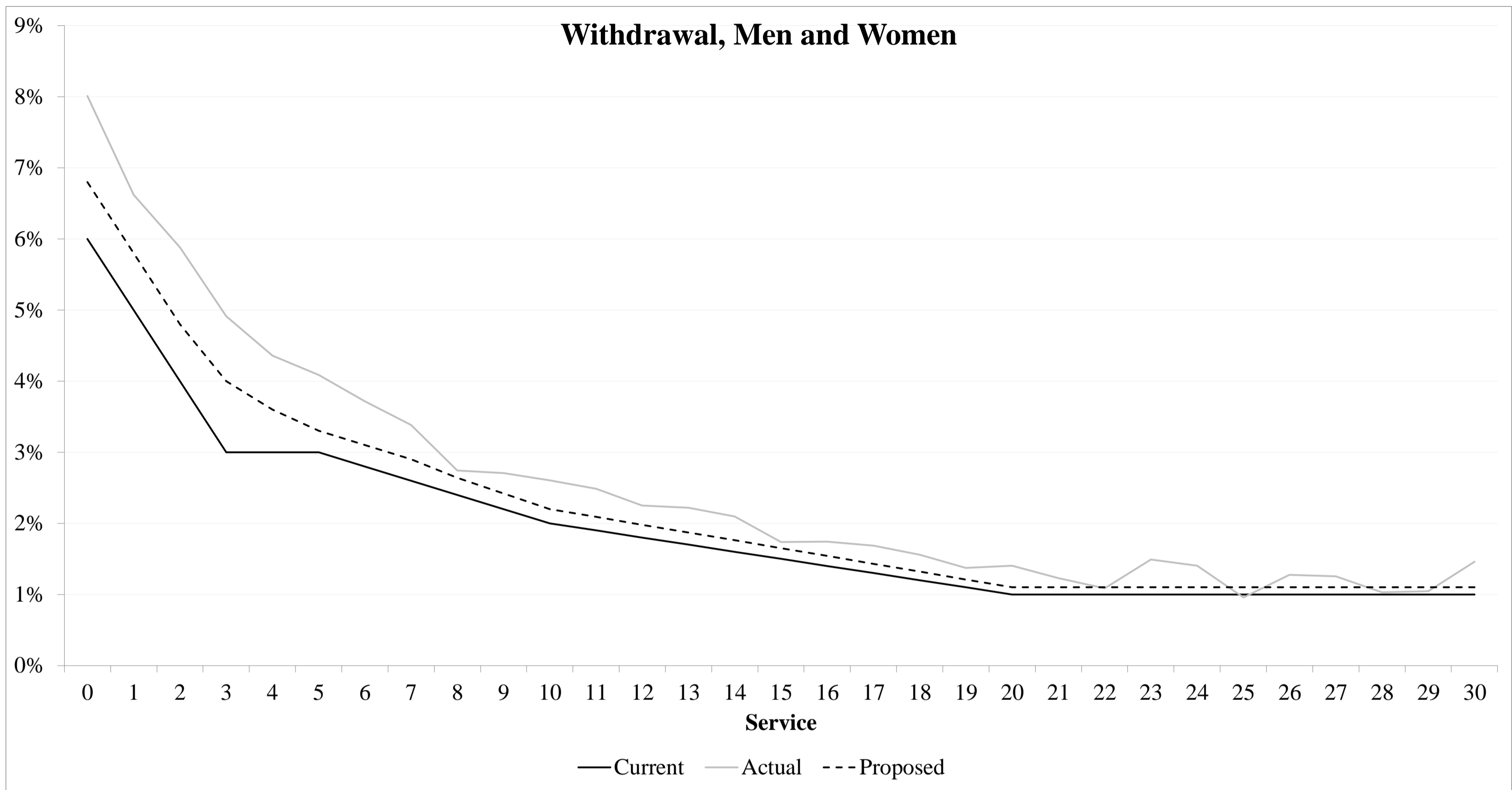
NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
	Active Member Ordinary Mortality						
8A	Men	81%	108	95%	108%	119	Mortality was lower than expected. We recommend lowering the current rates.
8B	Women	80%	84	95%	106%	94	
8C	Men & Women	80%	192	95%	107%	213	
8D	By Year						
	Active Member Ordinary Disability						
9A	Men	84%	170	88%	88%	171	The current assumption is reasonable.
9B	Women	89%	179	89%	89%	167	
9C	Men & Women	86%	348	88%	88%	338	
9D	By Year						
	Active Member Accidental Disability						
10A	Men	73%	17	99%	99%	22	Minor assumption. Actuals appears to be trending down and may warrant an assumption change if this trend continues.
10B	Women	86%	12	98%	98%	14	
10C	Men & Women	78%	29	99%	99%	36	
10D	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
11A	Total	4.98%	2.03%	5.00%	4.47%	3.91%	Merit looks reasonable. Actual experience is lower than expected, largely due to productivity component (which is trending further downward). Recommend lowering ultimate assumption by 0.25%.
11B	Merit Only	1.98%	1.75%	2.00%	1.72%	1.76%	
11C	General Increase over Inflation	1.50%	-0.57%	0.50%	0.25%	-0.23%	
	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
12A	For All Years	4.00%	12.21%	4.00%	8.00%	12.05%	Actual overtime has been higher than expected assumption. Recommend higher assumption.
12B	In Year Before Service Retirement	4.00%	12.46%	4.00%	8.00%	12.11%	
12C	In Year Before Disability Retirement	4.00%	10.52%	4.00%	8.00%	9.98%	
12D	By Year						

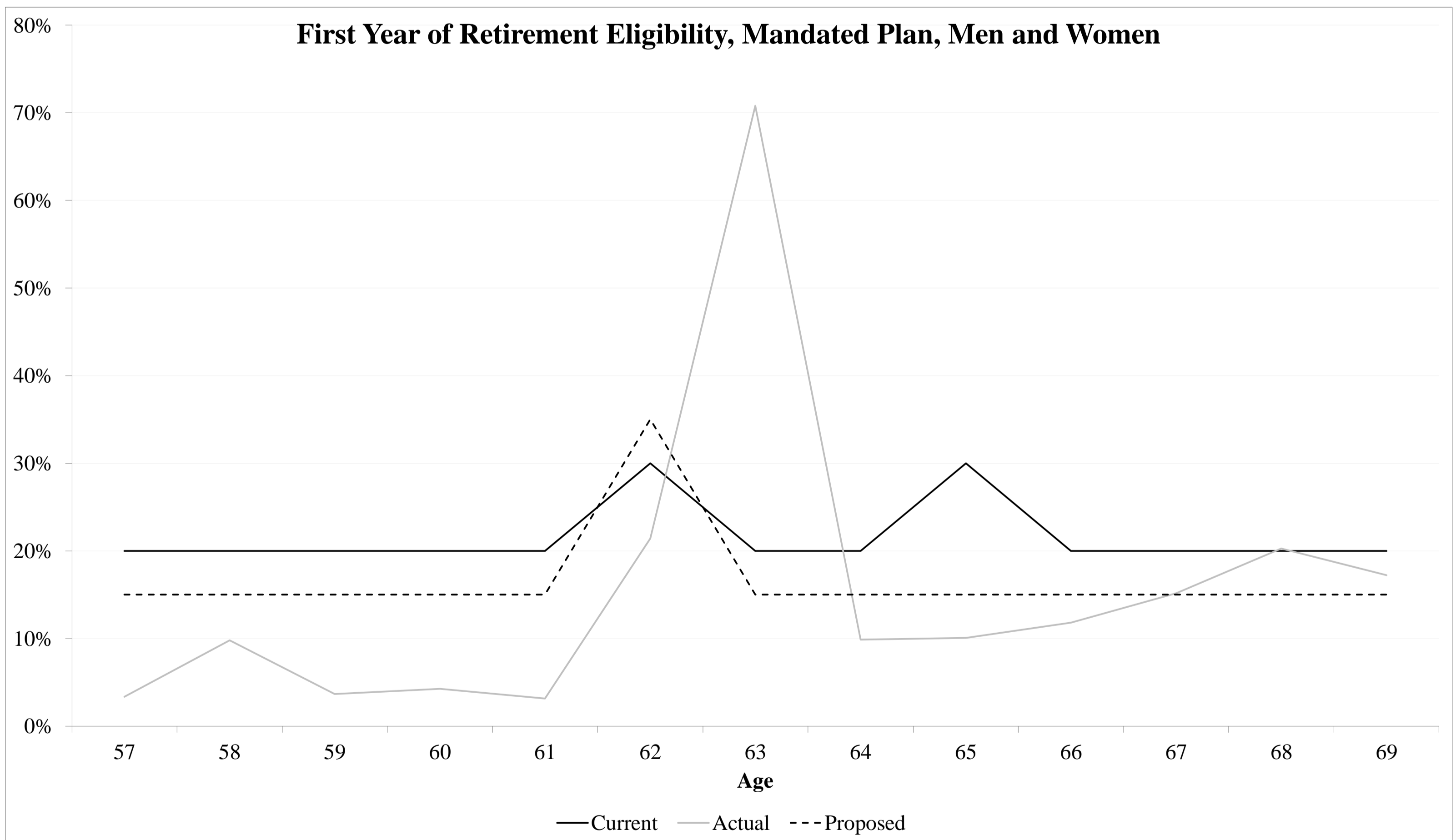
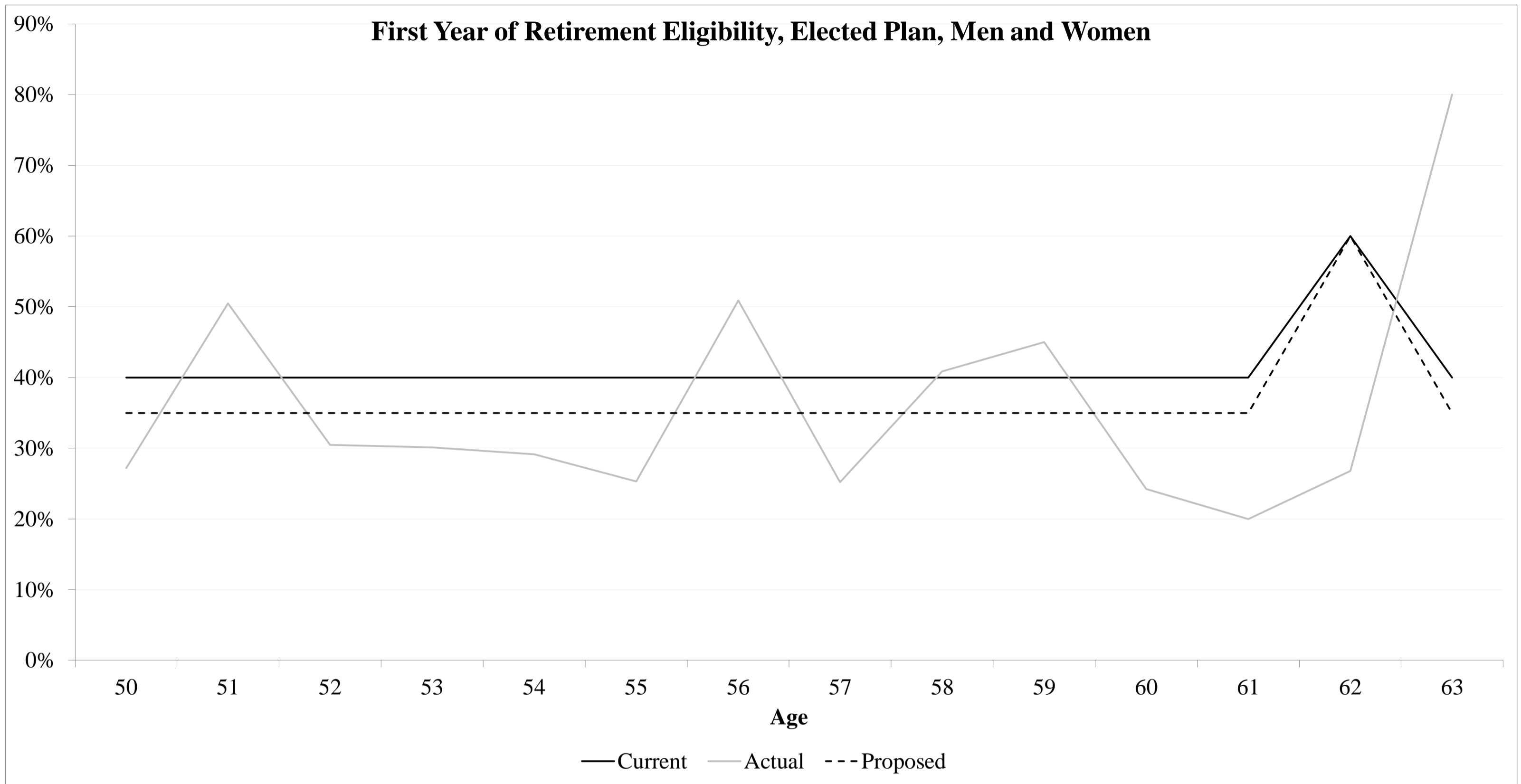
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

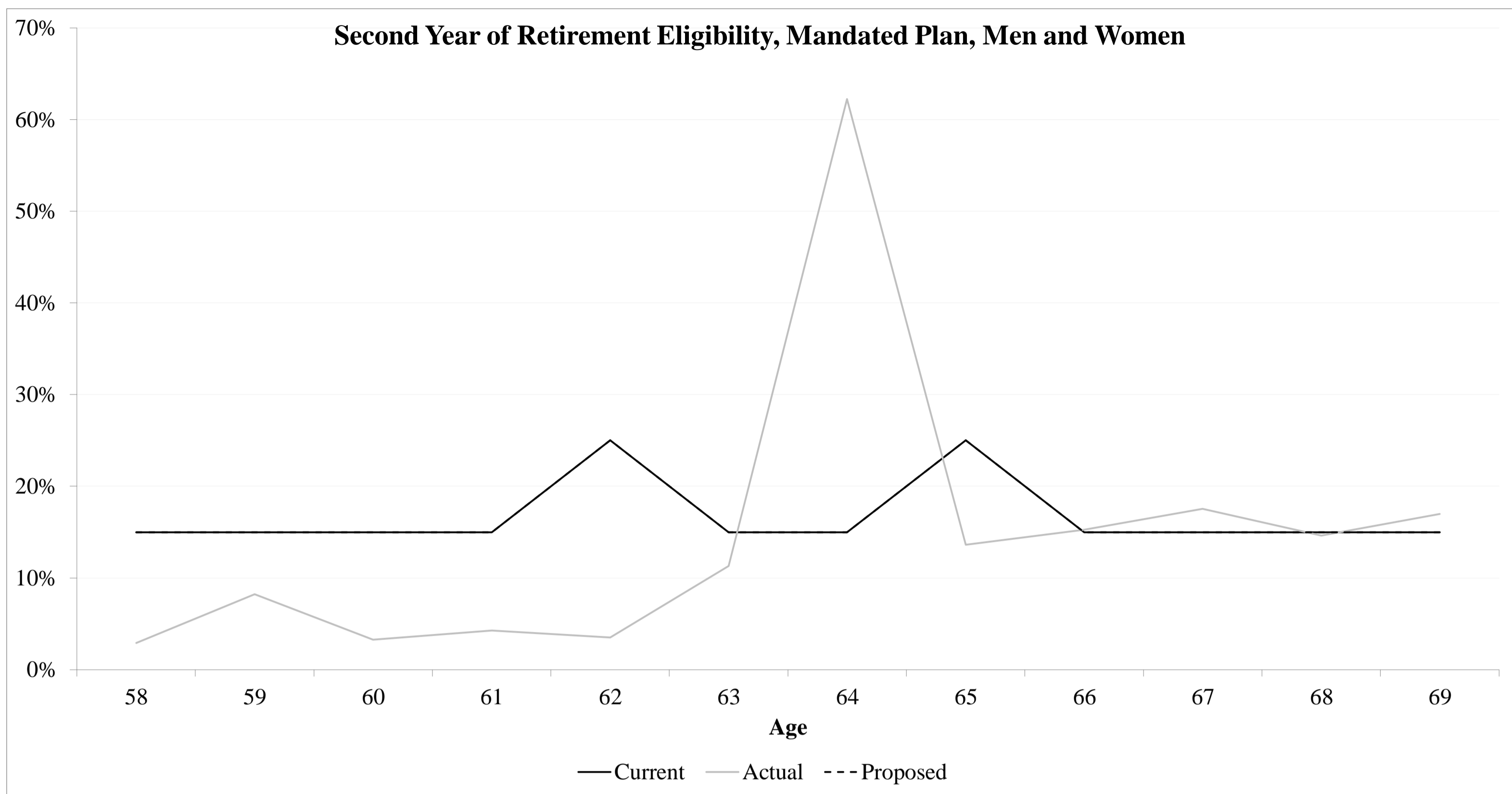
**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
WITHDRAWAL ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



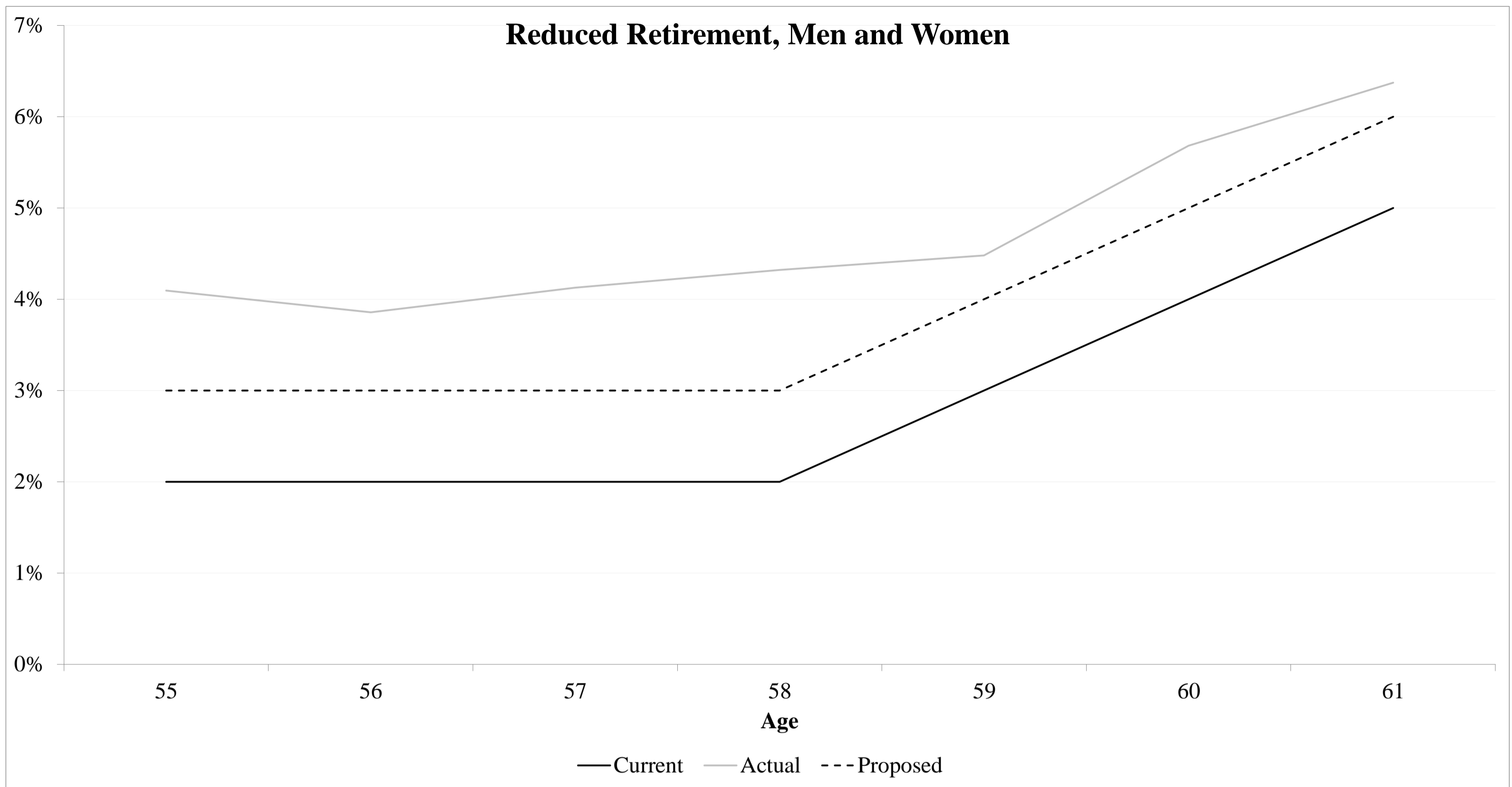
**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



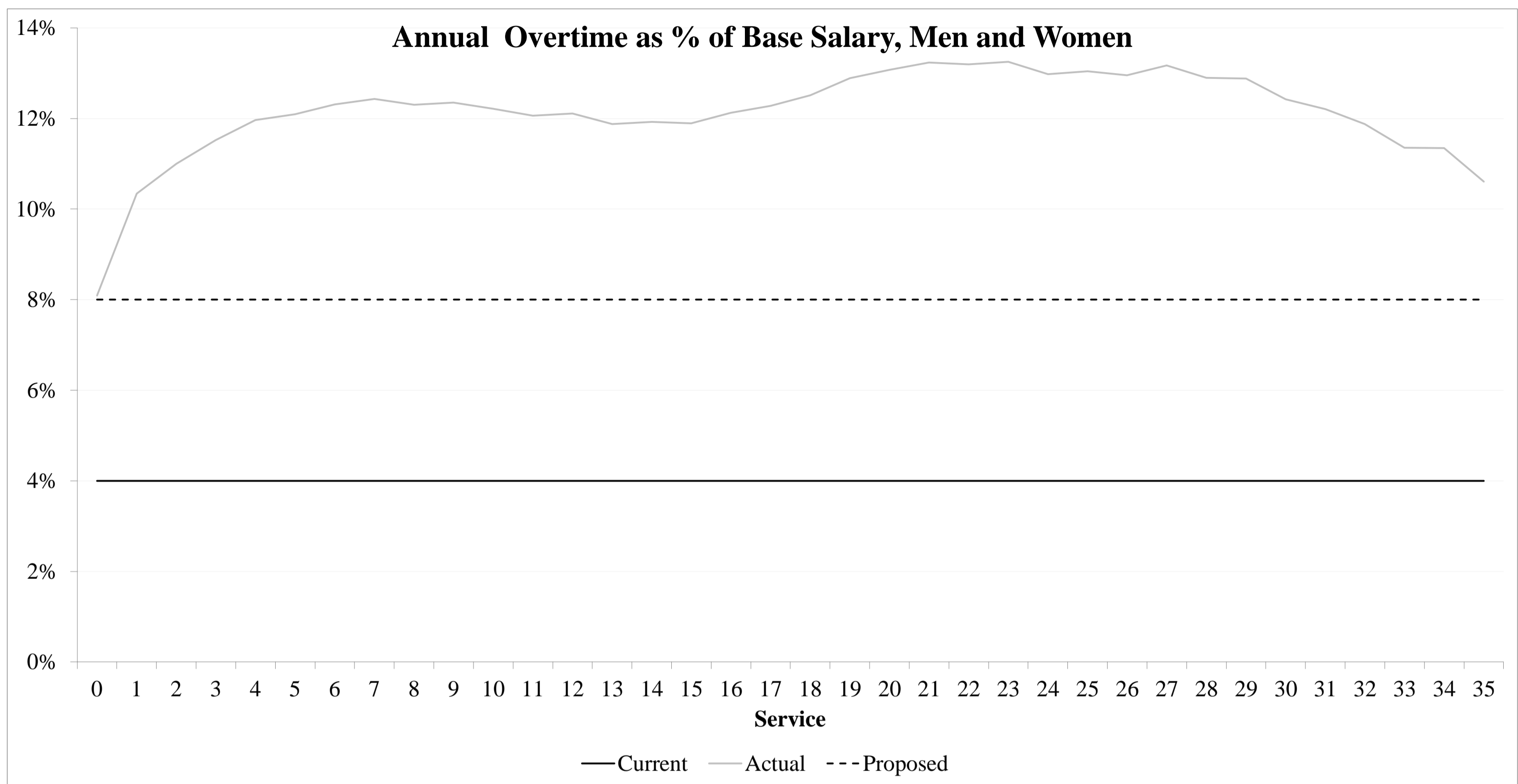
**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.1597%	0.1800%	0	0	0%	0%
42	0	0	N/A	0.2033%	0.1964%	0	0	0%	0%
43	0	0	N/A	0.2442%	0.2140%	0	0	0%	0%
44	0	3	0.000000	0.2825%	0.2329%	0.0	0.0	0%	0%
45	0	7	0.000000	0.3182%	0.2531%	0.0	0.0	0%	0%
46	0	8	0.000000	0.3473%	0.2744%	0.0	0.0	0%	0%
47	0	15	0.000000	0.3729%	0.2968%	0.1	0.0	0%	0%
48	0	24	0.000000	0.3954%	0.3206%	0.1	0.1	0%	0%
49	0	34	0.000000	0.4146%	0.3455%	0.1	0.1	0%	0%
50	1	65	0.015385	0.4307%	0.3720%	0.3	0.2	357%	414%
51	0	199	0.000000	0.4875%	0.4006%	1.0	0.8	0%	0%
52	0	250	0.000000	0.5460%	0.4320%	1.4	1.1	0%	0%
53	1	306	0.003268	0.6110%	0.4669%	1.9	1.4	53%	70%
54	2	366	0.005464	0.6785%	0.5058%	2.5	1.9	81%	108%
55	2	501	0.003992	0.7545%	0.5494%	3.8	2.8	53%	73%
56	9	840	0.010714	0.8125%	0.5983%	6.8	5.0	132%	179%
57	13	1,151	0.011295	0.8712%	0.6533%	10.0	7.5	130%	173%
58	11	1,478	0.007442	0.9309%	0.7148%	13.8	10.6	80%	104%
59	22	1,759	0.012507	0.9834%	0.7836%	17.3	13.8	127%	160%
60	28	2,112	0.013258	1.0360%	0.8603%	21.9	18.2	128%	154%
61	45	2,447	0.018390	1.1527%	0.9456%	28.2	23.1	160%	194%
62	33	3,215	0.010264	1.2582%	1.0393%	40.5	33.4	82%	99%
63	52	4,301	0.012090	1.3720%	1.1423%	59.0	49.1	88%	106%
64	73	4,456	0.016382	1.4726%	1.2554%	65.6	55.9	111%	130%
65	78	4,539	0.017184	1.5702%	1.3799%	71.3	62.6	109%	125%
66	67	4,631	0.014468	1.7139%	1.5166%	79.4	70.2	84%	95%
67	71	4,931	0.014399	1.8447%	1.6669%	91.0	82.2	78%	86%
68	72	5,082	0.014168	1.9597%	1.8320%	99.6	93.1	72%	77%
69	95	5,054	0.018797	2.0894%	2.0136%	105.6	101.8	90%	93%
70	99	4,937	0.020053	2.2013%	2.2131%	108.7	109.3	91%	91%
71	120	4,728	0.025381	2.3984%	2.4324%	113.4	115.0	106%	104%
72	132	4,561	0.028941	2.5999%	2.6735%	118.6	121.9	111%	108%
73	100	4,446	0.022492	2.8053%	2.9384%	124.7	130.6	80%	77%
74	128	4,202	0.030462	3.0149%	3.2295%	126.7	135.7	101%	94%
75	117	4,075	0.028712	3.2551%	3.5496%	132.6	144.6	88%	81%
76	148	3,906	0.037890	3.7527%	3.9013%	146.6	152.4	101%	97%
77	153	3,695	0.041407	4.2954%	4.2879%	158.7	158.4	96%	97%
78	145	3,553	0.040811	4.8575%	4.7128%	172.6	167.4	84%	87%
79	151	3,429	0.044036	5.4395%	5.1798%	186.5	177.6	81%	85%
80	179	3,289	0.054424	6.0416%	5.6931%	198.7	187.2	90%	96%
81	204	3,149	0.064782	6.6973%	6.2572%	210.9	197.0	97%	104%
82	202	3,000	0.067333	7.3631%	6.8772%	220.9	206.3	91%	98%
83	211	2,825	0.074690	7.9745%	7.5587%	225.3	213.5	94%	99%
84	220	2,653	0.082925	8.6555%	8.3077%	229.6	220.4	96%	100%
85	201	2,381	0.084418	9.2719%	9.1310%	220.8	217.4	91%	92%
86	213	2,106	0.101140	10.4648%	10.0358%	220.4	211.4	97%	101%
87	193	1,828	0.105580	11.7953%	11.0303%	215.6	201.6	90%	96%
88	178	1,579	0.112730	13.1900%	12.1233%	208.3	191.4	85%	93%
89	171	1,362	0.125551	14.5331%	13.3246%	197.9	181.5	86%	94%
90	190	1,126	0.168739	16.0483%	14.6450%	180.7	164.9	105%	115%
91	146	893	0.163494	17.8244%	16.0962%	159.2	143.7	92%	102%
92	141	744	0.189516	19.7255%	17.6912%	146.8	131.6	96%	107%
93	114	571	0.199650	21.4517%	19.4443%	122.5	111.0	93%	103%
94	103	459	0.224401	23.1923%	21.3710%	106.5	98.1	97%	105%
95	92	371	0.247978	25.3168%	23.4887%	93.9	87.1	98%	106%
96	66	253	0.260870	27.1711%	25.8163%	68.7	65.3	96%	101%
97	60	186	0.322581	28.9556%	28.3745%	53.9	52.8	111%	114%
98	26	116	0.224138	30.9964%	31.1862%	36.0	36.2	72%	72%
99	23	75	0.306667	32.6018%	34.2765%	24.5	25.7	94%	89%
Subtotal	4,901	118,272				5,251.0	4,992.5	93%	98%
100 or more	45	125	0.360000	37.1685%	45.5092%	46.5	56.9	97%	79%
Total	4,946	118,397				5,297.4	5,049.4	93%	98%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0783%	0.1485%	0	0	0%	0%
42	0	0	N/A	0.0868%	0.1594%	0	0	0%	0%
43	0	0	N/A	0.0975%	0.1702%	0	0	0%	0%
44	0	0	N/A	0.1105%	0.1810%	0	0	0%	0%
45	0	1	0.000000	0.1251%	0.1918%	0.0	0.0	0%	0%
46	0	1	0.000000	0.1417%	0.2024%	0.0	0.0	0%	0%
47	0	1	0.000000	0.1603%	0.2130%	0.0	0.0	0%	0%
48	0	2	0.000000	0.1817%	0.2231%	0.0	0.0	0%	0%
49	0	12	0.000000	0.2048%	0.2329%	0.0	0.0	0%	0%
50	0	19	0.000000	0.2307%	0.2471%	0.0	0.0	0%	0%
51	0	31	0.000000	0.2622%	0.2656%	0.1	0.1	0%	0%
52	0	39	0.000000	0.2990%	0.2885%	0.1	0.1	0%	0%
53	0	42	0.000000	0.3392%	0.3158%	0.1	0.1	0%	0%
54	0	44	0.000000	0.3835%	0.3474%	0.2	0.2	0%	0%
55	1	137	0.007299	0.4321%	0.3835%	0.6	0.5	169%	190%
56	2	500	0.004000	0.5051%	0.4239%	2.5	2.1	79%	94%
57	7	865	0.008092	0.5811%	0.4687%	5.0	4.1	139%	173%
58	6	1,281	0.004684	0.6577%	0.5178%	8.4	6.6	71%	90%
59	6	1,654	0.003628	0.7386%	0.5714%	12.2	9.5	49%	63%
60	20	2,113	0.009465	0.8236%	0.6294%	17.4	13.3	115%	150%
61	22	2,564	0.008580	0.9145%	0.6918%	23.4	17.7	94%	124%
62	31	3,420	0.009064	0.9912%	0.7604%	33.9	26.0	91%	119%
63	46	4,906	0.009376	1.0664%	0.8357%	52.3	41.0	88%	112%
64	48	5,386	0.008912	1.1462%	0.9186%	61.7	49.5	78%	97%
65	60	5,554	0.010803	1.2310%	1.0096%	68.4	56.1	88%	107%
66	62	5,756	0.010771	1.3217%	1.1097%	76.1	63.9	81%	97%
67	65	5,932	0.010958	1.4235%	1.2197%	84.4	72.4	77%	90%
68	71	6,026	0.011782	1.5303%	1.3406%	92.2	80.8	77%	88%
69	79	5,969	0.013235	1.6051%	1.4735%	95.8	88.0	82%	90%
70	111	5,762	0.019264	1.6732%	1.6195%	96.4	93.3	115%	119%
71	96	5,494	0.017474	1.8431%	1.7800%	101.3	97.8	95%	98%
72	67	5,292	0.012661	2.0222%	1.9565%	107.0	103.5	63%	65%
73	91	5,019	0.018131	2.1798%	2.1504%	109.4	107.9	83%	84%
74	117	4,664	0.025086	2.3496%	2.3635%	109.6	110.2	107%	106%
75	88	4,329	0.020328	2.4953%	2.5978%	108.0	112.5	81%	78%
76	95	3,993	0.023792	2.8182%	2.8553%	112.5	114.0	84%	83%
77	104	3,891	0.026728	3.1667%	3.1383%	123.2	122.1	84%	85%
78	124	3,808	0.032563	3.4923%	3.4494%	133.0	131.4	93%	94%
79	123	3,702	0.033225	3.8179%	3.7913%	141.3	140.4	87%	88%
80	132	3,593	0.036738	4.1435%	4.1671%	148.9	149.7	89%	88%
81	144	3,488	0.041284	4.6586%	4.5802%	162.5	159.8	89%	90%
82	160	3,433	0.046606	5.1835%	5.0341%	177.9	172.8	90%	93%
83	167	3,280	0.050915	5.7181%	5.5331%	187.6	181.5	89%	92%
84	176	3,190	0.055172	6.2626%	6.0816%	199.8	194.0	88%	91%
85	230	3,135	0.073365	6.8720%	6.6844%	215.4	209.6	107%	110%
86	218	2,947	0.073974	7.9002%	7.3469%	232.8	216.5	94%	101%
87	236	2,781	0.084862	8.9443%	8.0752%	248.7	224.6	95%	105%
88	228	2,620	0.087023	9.9247%	8.8756%	260.0	232.5	88%	98%
89	259	2,367	0.109421	10.9930%	9.7553%	260.2	230.9	100%	112%
90	254	2,033	0.124939	11.9814%	10.7223%	243.6	218.0	104%	117%
91	223	1,785	0.124930	13.6802%	11.7851%	244.2	210.4	91%	106%
92	223	1,531	0.145656	15.3234%	12.9532%	234.6	198.3	95%	112%
93	206	1,266	0.162717	17.0656%	14.2372%	216.1	180.2	95%	114%
94	182	1,092	0.166667	18.5767%	15.6484%	202.9	170.9	90%	107%
95	173	874	0.197941	20.0298%	17.1994%	175.1	150.3	99%	115%
96	134	673	0.199108	21.1824%	18.9042%	142.6	127.2	94%	105%
97	132	522	0.252874	22.3611%	20.7780%	116.7	108.5	113%	122%
98	75	343	0.218659	23.0718%	22.8376%	79.1	78.3	95%	96%
99	76	246	0.308943	23.4718%	25.1012%	57.7	61.7	132%	123%
Subtotal	5,170	139,408				5,583.2	5,140.8	93%	101%
100 or more	113	392	0.288265	25.4498%	33.3297%	99.8	130.7	113%	86%
Total	5,283	139,800				5,683.0	5,271.4	93%	100%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	3	0.000000	0.2825%	0.2329%	0.0	0.0	0%	0%
45-49	0	88	0.000000	0.3885%	0.3166%	0.3	0.3	0%	0%
50-54	4	1,186	0.003373	0.5875%	0.4552%	7.0	5.4	57%	74%
55-59	57	5,729	0.009949	0.9022%	0.6920%	51.7	39.6	110%	144%
60-64	231	16,531	0.013974	1.3016%	1.0876%	215.2	179.8	107%	128%
65-69	383	24,237	0.015802	1.8434%	1.6913%	446.8	409.9	86%	93%
70-74	579	22,874	0.025313	2.5884%	2.6779%	592.1	612.5	98%	95%
75-79	714	18,658	0.038268	4.2719%	4.2905%	797.0	800.5	90%	89%
80-84	1,016	14,916	0.068115	7.2768%	6.8687%	1,085.4	1,024.5	94%	99%
85-89	956	9,256	0.103284	11.4842%	10.8395%	1,063.0	1,003.3	90%	95%
90-94	694	3,793	0.182969	18.8657%	17.1206%	715.6	649.4	97%	107%
95-99	267	1,001	0.266733	27.6656%	26.6852%	276.9	267.1	96%	100%
100+	45	125	0.360000	37.1685%	45.5092%	46.5	56.9	97%	79%
<b>Total</b>	<b>4,946</b>	<b>118,397</b>				<b>5,297.4</b>	<b>5,049.4</b>	<b>93%</b>	<b>98%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	17	0.000000	0.1911%	0.2264%	0.0	0.0	0%	0%
50-54	0	175	0.000000	0.3160%	0.3013%	0.6	0.5	0%	0%
55-59	22	4,437	0.004958	0.6488%	0.5135%	28.8	22.8	76%	97%
60-64	167	18,389	0.009082	1.0267%	0.8022%	188.8	147.5	88%	113%
65-69	337	29,237	0.011526	1.4260%	1.2349%	416.9	361.0	81%	93%
70-74	482	26,231	0.018375	1.9964%	1.9550%	523.7	512.8	92%	94%
75-79	534	19,723	0.027075	3.1339%	3.1450%	618.1	620.3	86%	86%
80-84	779	16,984	0.045867	5.1616%	5.0506%	876.6	857.8	89%	91%
85-89	1,171	13,850	0.084549	8.7887%	8.0440%	1,217.2	1,114.1	96%	105%
90-94	1,088	7,707	0.141170	14.8084%	12.6870%	1,141.3	977.8	95%	111%
95-99	590	2,658	0.221971	21.4906%	19.7928%	571.2	526.1	103%	112%
100+	113	392	0.288265	25.4498%	33.3297%	99.8	130.7	113%	86%
<b>Total</b>	<b>5,283</b>	<b>139,800</b>				<b>5,683.0</b>	<b>5,271.4</b>	<b>93%</b>	<b>100%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	3	0.000000	0.2825%	0.2329%	0.0	0.0	0%	0%
45-49	0	105	0.000000	0.3565%	0.3020%	0.4	0.3	0%	0%
50-54	4	1,361	0.002939	0.5526%	0.4354%	7.5	5.9	53%	67%
55-59	79	10,166	0.007771	0.7916%	0.6141%	80.5	62.4	98%	127%
60-64	398	34,920	0.011397	1.1568%	0.9373%	404.0	327.3	99%	122%
65-69	720	53,474	0.013464	1.6152%	1.4418%	863.7	771.0	83%	93%
70-74	1,061	49,105	0.021607	2.2722%	2.2917%	1,115.7	1,125.4	95%	94%
75-79	1,248	38,381	0.032516	3.6871%	3.7019%	1,415.1	1,420.8	88%	88%
80-84	1,795	31,900	0.056270	6.1506%	5.9007%	1,962.1	1,882.3	91%	95%
85-89	2,127	23,106	0.092054	9.8685%	9.1638%	2,280.2	2,117.4	93%	100%
90-94	1,782	11,500	0.154957	16.1466%	14.1493%	1,856.9	1,627.2	96%	110%
95-99	857	3,659	0.234217	23.1799%	21.6783%	848.2	793.2	101%	108%
100+	158	517	0.305609	28.2831%	36.2744%	146.2	187.5	108%	84%
Total	10,229	258,197				10,980.4	10,320.8	93%	99%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

TABLE 1B				10-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0819%	0.1596%	0	0	0%	0%
42	0	0	N/A	0.0908%	0.1706%	0	0	0%	0%
43	0	0	N/A	0.1020%	0.1812%	0	0	0%	0%
44	0	1	0.000000	0.1156%	0.1914%	0.0	0.0	0%	0%
45	0	3	0.000000	0.1313%	0.2012%	0.0	0.0	0%	0%
46	0	4	0.000000	0.1492%	0.2105%	0.0	0.0	0%	0%
47	0	6	0.000000	0.1693%	0.2194%	0.0	0.0	0%	0%
48	0	9	0.000000	0.1919%	0.2277%	0.0	0.0	0%	0%
49	0	22	0.000000	0.2162%	0.2358%	0.0	0.1	0%	0%
50	0	39	0.000000	0.2429%	0.2488%	0.1	0.1	0%	0%
51	1	70	0.014286	0.2752%	0.2666%	0.2	0.2	519%	536%
52	0	136	0.000000	0.3119%	0.2895%	0.4	0.4	0%	0%
53	0	226	0.000000	0.3517%	0.3177%	0.8	0.7	0%	0%
54	0	375	0.000000	0.3952%	0.3513%	1.5	1.3	0%	0%
55	2	1,004	0.001992	0.4427%	0.3906%	4.4	3.9	45%	51%
56	13	2,428	0.005354	0.5143%	0.4353%	12.5	10.6	104%	123%
57	24	3,446	0.006965	0.5899%	0.4857%	20.3	16.7	118%	143%
58	27	4,478	0.006029	0.6677%	0.5414%	29.9	24.2	90%	111%
59	40	5,307	0.007537	0.7498%	0.6025%	39.8	32.0	101%	125%
60	45	6,245	0.007206	0.8360%	0.6685%	52.2	41.7	86%	108%
61	71	7,101	0.009999	0.9283%	0.7392%	65.9	52.5	108%	135%
62	83	8,699	0.009541	1.0063%	0.8160%	87.5	71.0	95%	117%
63	120	11,418	0.010510	1.0825%	0.8998%	123.6	102.7	97%	117%
64	135	12,318	0.010960	1.1636%	0.9910%	143.3	122.1	94%	111%
65	145	12,726	0.011394	1.2496%	1.0901%	159.0	138.7	91%	105%
66	161	13,205	0.012192	1.3417%	1.1984%	177.2	158.2	91%	102%
67	151	13,310	0.011345	1.4451%	1.3166%	192.3	175.2	79%	86%
68	180	13,219	0.013617	1.5535%	1.4461%	205.4	191.2	88%	94%
69	183	12,965	0.014115	1.6294%	1.5881%	211.3	205.9	87%	89%
70	229	12,520	0.018291	1.6985%	1.7437%	212.7	218.3	108%	105%
71	238	12,108	0.019656	1.8767%	1.9146%	227.2	231.8	105%	103%
72	206	11,668	0.017655	2.0590%	2.1020%	240.2	245.3	86%	84%
73	236	11,290	0.020903	2.2263%	2.3080%	251.3	260.6	94%	91%
74	278	10,825	0.025681	2.3996%	2.5337%	259.8	274.3	107%	101%
75	230	10,461	0.021986	2.5562%	2.7819%	267.4	291.0	86%	79%
76	274	10,212	0.026831	2.8870%	3.0552%	294.8	312.0	93%	88%
77	312	10,007	0.031178	3.2341%	3.3563%	323.6	335.9	96%	93%
78	340	9,806	0.034673	3.5667%	3.6878%	349.8	361.6	97%	94%
79	346	9,715	0.035615	3.8992%	4.0546%	378.8	393.9	91%	88%
80	385	9,639	0.039942	4.2318%	4.4584%	407.9	429.7	94%	90%
81	409	9,384	0.043585	4.7578%	4.9043%	446.5	460.2	92%	89%
82	475	9,142	0.051958	5.2939%	5.3948%	484.0	493.2	98%	96%
83	483	8,829	0.054706	5.8399%	5.9362%	515.6	524.1	94%	92%
84	502	8,459	0.059345	6.3959%	6.5306%	541.0	552.4	93%	91%
85	572	8,063	0.070941	6.9972%	7.1838%	564.2	579.2	101%	99%
86	631	7,473	0.084437	8.0199%	7.8991%	599.3	590.3	105%	107%
87	583	6,875	0.084800	9.0525%	8.6794%	622.4	596.7	94%	98%
88	585	6,345	0.092199	10.0447%	9.5319%	637.3	604.8	92%	97%
89	630	5,682	0.110876	11.0925%	10.4649%	630.3	594.6	100%	106%
90	602	4,922	0.122308	12.0898%	11.4834%	595.1	565.2	101%	107%
91	552	4,282	0.128912	13.8041%	12.5946%	591.1	539.3	93%	102%
92	529	3,601	0.146904	15.4621%	13.8048%	556.8	497.1	95%	106%
93	488	2,944	0.165761	17.1684%	15.1237%	505.4	445.2	97%	110%
94	432	2,381	0.181436	18.6886%	16.5652%	445.0	394.4	97%	110%
95	392	1,840	0.213043	20.1504%	18.1442%	370.8	333.9	106%	117%
96	307	1,353	0.226903	21.3100%	19.8879%	288.3	269.1	106%	114%
97	236	967	0.244054	22.4283%	21.7949%	216.9	210.8	109%	112%
98	147	649	0.226502	23.1412%	23.8896%	150.2	155.0	98%	95%
99	135	455	0.296703	23.5424%	26.1831%	107.1	119.1	126%	113%
Subtotal	13,145	340,657				13,608.5	13,228.7	97%	99%
100 or more	216	709	0.304654	25.4498%	34.6676%	180.4	245.8	120%	88%
Total	13,361	341,366				13,789.0	13,474.5	97%	99%





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	11	0.000000	0.2663%	0.2412%	0.0	0.0	0%	0%
45-49	0	180	0.000000	0.4095%	0.3409%	0.7	0.6	0%	0%
50-54	13	3,289	0.003953	0.6281%	0.4715%	20.7	15.5	63%	84%
55-59	193	18,041	0.010698	0.9442%	0.6962%	170.3	125.6	113%	154%
60-64	542	40,704	0.013316	1.3509%	1.1270%	549.9	458.7	99%	118%
65-69	1,003	57,074	0.017574	1.9172%	1.8061%	1,094.2	1,030.8	92%	97%
70-74	1,442	54,408	0.026503	2.7142%	2.9076%	1,476.7	1,582.0	98%	91%
75-79	2,077	47,715	0.043529	4.4504%	4.6660%	2,123.5	2,226.4	98%	93%
80-84	2,603	36,872	0.070596	7.4351%	7.3861%	2,741.5	2,723.4	95%	96%
85-89	2,464	21,650	0.113811	11.6852%	11.6072%	2,529.9	2,513.0	97%	98%
90-94	1,629	8,901	0.183013	19.0319%	18.0874%	1,694.0	1,610.0	96%	101%
95-99	585	2,194	0.266636	27.8313%	27.8421%	610.6	610.9	96%	96%
100+	95	235	0.404255	37.1685%	47.0399%	87.3	110.5	109%	86%
<b>Total</b>	<b>12,646</b>	<b>291,274</b>				<b>13,099.4</b>	<b>13,007.4</b>	<b>97%</b>	<b>97%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Rate		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	1	0.000000	0.1156%	0.1914%	0.0	0.0	0%	0%
45-49	0	44	0.000000	0.1930%	0.2273%	0.1	0.1	0%	0%
50-54	1	846	0.001182	0.3532%	0.3207%	3.0	2.7	33%	37%
55-59	106	16,663	0.006361	0.6418%	0.5248%	107.0	87.4	99%	121%
60-64	454	45,781	0.009917	1.0323%	0.8519%	472.6	390.0	96%	116%
65-69	820	65,425	0.012533	1.4446%	1.3286%	945.1	869.3	87%	94%
70-74	1,187	58,411	0.020322	2.0394%	2.1062%	1,191.2	1,230.2	100%	96%
75-79	1,502	50,201	0.029920	3.2159%	3.3753%	1,614.4	1,694.4	93%	89%
80-84	2,254	45,453	0.049590	5.2691%	5.4115%	2,395.0	2,459.7	94%	92%
85-89	3,001	34,438	0.087142	8.8666%	8.6116%	3,053.5	2,965.7	98%	101%
90-94	2,603	18,130	0.143574	14.8558%	13.4654%	2,693.4	2,441.3	97%	107%
95-99	1,217	5,264	0.231193	21.5288%	20.6662%	1,133.3	1,087.9	107%	112%
100+	216	709	0.304654	25.4498%	34.6676%	180.4	245.8	120%	88%
Total	13,361	341,366				13,789.0	13,474.5	97%	99%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Rate		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	12	0.000000	0.2538%	0.2371%	0.0	0.0	0%	0%
45-49	0	224	0.000000	0.3669%	0.3186%	0.8	0.7	0%	0%
50-54	14	4,135	0.003386	0.5718%	0.4406%	23.6	18.2	59%	77%
55-59	299	34,704	0.008616	0.7990%	0.6139%	277.3	213.0	108%	140%
60-64	996	86,485	0.011516	1.1823%	0.9814%	1,022.5	848.8	97%	117%
65-69	1,823	122,499	0.014882	1.6648%	1.5511%	2,039.4	1,900.1	89%	96%
70-74	2,629	112,819	0.023303	2.3648%	2.4927%	2,668.0	2,812.2	99%	93%
75-79	3,579	97,916	0.036552	3.8175%	4.0042%	3,737.9	3,920.8	96%	91%
80-84	4,857	82,325	0.058998	6.2392%	6.2959%	5,136.5	5,183.1	95%	94%
85-89	5,465	56,088	0.097436	9.9546%	9.7679%	5,583.3	5,478.6	98%	100%
90-94	4,232	27,031	0.156561	16.2309%	14.9874%	4,387.4	4,051.2	96%	104%
95-99	1,802	7,458	0.241620	23.3829%	22.7772%	1,743.9	1,698.7	103%	106%
100+	311	944	0.329449	28.3671%	37.7476%	267.8	356.3	116%	87%
Total	26,007	632,640				26,888.4	26,481.9	97%	98%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	63,360	2,845	2,278.0	125%	4.4902%	3.5954%
2005	63,112	2,729	2,302.4	119%	4.3241%	3.6480%
2006	61,877	2,510	2,323.1	108%	4.0564%	3.7544%
2007	61,920	2,716	2,357.2	115%	4.3863%	3.8068%
2008	61,924	2,467	2,362.5	104%	3.9839%	3.8151%
2009	62,256	2,511	2,404.5	104%	4.0333%	3.8623%
2010	62,126	2,575	2,434.7	106%	4.1448%	3.9189%
2011	63,389	2,529	2,481.4	102%	3.9897%	3.9145%
2012	65,497	2,210	2,537.3	87%	3.3742%	3.8740%
2013	67,185	2,915	2,607.7	112%	4.3388%	3.8814%
Total	632,646	26,007	24,088.8	108%	4.1108%	3.8076%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

TABLE 2A				4-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	1	66	0.015152	1.4444%	0.4277%	1.0	0.3	105%	354%
42	2	74	0.027027	1.4841%	0.5537%	1.1	0.4	182%	488%
43	2	85	0.023529	1.5246%	0.6796%	1.3	0.6	154%	346%
44	2	113	0.017699	1.5660%	0.8055%	1.8	0.9	113%	220%
45	4	133	0.030075	1.6079%	0.9315%	2.1	1.2	187%	323%
46	1	147	0.006803	1.6532%	1.0574%	2.4	1.6	41%	64%
47	4	162	0.024691	1.6979%	1.1833%	2.8	1.9	145%	209%
48	1	190	0.005263	1.7687%	1.2873%	3.4	2.4	30%	41%
49	1	223	0.004484	1.8401%	1.3912%	4.1	3.1	24%	32%
50	3	279	0.010753	1.9120%	1.4952%	5.3	4.2	56%	72%
51	3	324	0.009259	2.0266%	1.5992%	6.6	5.2	46%	58%
52	13	349	0.037249	2.1447%	1.7031%	7.5	5.9	174%	219%
53	8	382	0.020942	2.2867%	1.7916%	8.7	6.8	92%	117%
54	11	406	0.027094	2.4343%	1.8801%	9.9	7.6	111%	144%
55	9	434	0.020737	2.6085%	1.9686%	11.3	8.5	79%	105%
56	8	472	0.016949	2.6895%	2.0571%	12.7	9.7	63%	82%
57	10	473	0.021142	2.7715%	2.1456%	13.1	10.1	76%	99%
58	8	483	0.016563	2.8551%	2.2383%	13.8	10.8	58%	74%
59	13	516	0.025194	2.9164%	2.3309%	15.0	12.0	86%	108%
60	20	542	0.036900	2.9783%	2.4235%	16.1	13.1	124%	152%
61	18	555	0.032432	3.1350%	2.5162%	17.4	14.0	103%	129%
62	14	571	0.024518	3.2734%	2.6088%	18.7	14.9	75%	94%
63	12	557	0.021544	3.4465%	2.7383%	19.2	15.3	63%	79%
64	18	516	0.034884	3.6008%	2.8677%	18.6	14.8	97%	122%
65	19	464	0.040948	3.7650%	2.9972%	17.5	13.9	109%	137%
66	17	422	0.040284	3.8492%	3.1266%	16.2	13.2	105%	129%
67	18	385	0.046753	3.9079%	3.2560%	15.0	12.5	120%	144%
68	18	372	0.048387	3.9758%	3.4680%	14.8	12.9	122%	140%
69	20	375	0.053333	4.0089%	3.6800%	15.0	13.8	133%	145%
70	20	345	0.057971	4.0789%	3.8920%	14.1	13.4	142%	149%
71	15	324	0.046296	4.2824%	4.1040%	13.9	13.3	108%	113%
72	13	292	0.044521	4.5348%	4.3160%	13.2	12.6	98%	103%
73	12	284	0.042254	4.8103%	4.6694%	13.7	13.3	88%	90%
74	16	253	0.063241	5.1099%	5.0227%	12.9	12.7	124%	126%
75	11	223	0.049327	5.4793%	5.3761%	12.2	12.0	90%	92%
76	6	200	0.030000	5.9251%	5.7294%	11.9	11.5	51%	52%
77	9	170	0.052941	6.4623%	6.0828%	11.0	10.3	82%	87%
78	7	168	0.041667	7.0498%	6.6494%	11.8	11.2	59%	63%
79	10	152	0.065789	7.6912%	7.2161%	11.7	11.0	86%	91%
80	7	141	0.049645	8.3900%	7.7827%	11.8	11.0	59%	64%
81	5	148	0.033784	9.1500%	8.3493%	13.5	12.4	37%	40%
82	13	140	0.092857	9.9739%	8.9159%	14.0	12.5	93%	104%
83	11	119	0.092437	10.7832%	9.7808%	12.8	11.6	86%	95%
84	9	96	0.093750	11.7507%	10.6456%	11.3	10.2	80%	88%
85	8	80	0.100000	12.7010%	11.5105%	10.2	9.2	79%	87%
86	6	60	0.100000	13.4167%	12.3753%	8.1	7.4	75%	81%
87	6	55	0.109091	14.0240%	13.2402%	7.7	7.3	78%	82%
88	6	46	0.130435	14.7914%	14.5013%	6.8	6.7	88%	90%
89	11	41	0.268293	15.4730%	15.7625%	6.3	6.5	173%	170%
90	8	29	0.275862	16.3129%	17.0236%	4.7	4.9	169%	162%
91	6	18	0.333333	18.1428%	18.2847%	3.3	3.3	184%	182%
92	0	13	0.000000	20.3472%	19.5459%	2.6	2.5	0%	0%
93	3	12	0.250000	22.3332%	21.3144%	2.7	2.6	112%	117%
94	1	10	0.100000	24.2739%	23.0829%	2.4	2.3	41%	43%
95	3	8	0.375000	26.4093%	24.8515%	2.1	2.0	142%	151%
96	1	3	0.333333	28.2045%	26.6200%	0.8	0.8	118%	125%
97	1	2	0.500000	29.8596%	28.3885%	0.6	0.6	167%	176%
98	0	0	N/A	31.6972%	30.7886%	0	0	0%	0%
99	0	0	N/A	33.0026%	33.1888%	0	0	0%	0%
Subtotal	502	13,502				540.7	466.8	93%	108%
100 or more	0	0	N/A	37.1685%	40.3891%	0	0	0%	0%
Total	502	13,502				540.7	466.8	93%	108%







**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	7	338	0.020710	1.5139%	0.6449%	5.1	2.2	137%	321%
45-49	11	855	0.012865	1.7290%	1.1998%	14.8	10.3	74%	107%
50-54	38	1,740	0.021839	2.1841%	1.7112%	38.0	29.8	100%	128%
55-59	48	2,378	0.020185	2.7739%	2.1548%	66.0	51.2	73%	94%
60-64	82	2,741	0.029916	3.2838%	2.6285%	90.0	72.0	91%	114%
65-69	92	2,018	0.045590	3.8941%	3.2873%	78.6	66.3	117%	139%
70-74	76	1,498	0.050734	4.5246%	4.3589%	67.8	65.3	112%	116%
75-79	43	913	0.047097	6.4172%	6.1257%	58.6	55.9	73%	77%
80-84	45	644	0.069876	9.8522%	8.9552%	63.4	57.7	71%	78%
85-89	37	282	0.131206	13.8553%	13.1379%	39.1	37.0	95%	100%
90-94	18	82	0.219512	19.2060%	19.0672%	15.7	15.6	114%	115%
95-99	5	13	0.384615	27.3544%	25.8037%	3.6	3.4	141%	149%
100+	0	0	N/A			0	0	0%	0%
Total	502	13,502				540.7	466.8	93%	108%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	4	216	0.018519	1.5342%	1.1800%	3.3	2.5	121%	157%
45-49	14	638	0.021944	1.6954%	1.7882%	10.8	11.4	129%	123%
50-54	33	1,238	0.026656	1.7712%	2.2976%	21.9	28.4	150%	116%
55-59	52	1,998	0.026026	2.0434%	2.6913%	40.8	53.8	127%	97%
60-64	74	2,224	0.033273	2.5348%	3.0178%	56.4	67.1	131%	110%
65-69	66	1,891	0.034902	3.1709%	3.4259%	60.0	64.8	110%	102%
70-74	45	1,199	0.037531	3.6246%	4.0955%	43.5	49.1	104%	92%
75-79	31	597	0.051926	4.6175%	5.3313%	27.6	31.8	112%	97%
80-84	21	271	0.077491	7.1654%	7.4846%	19.4	20.3	108%	104%
85-89	14	171	0.081871	11.1576%	10.9387%	19.1	18.7	73%	75%
90-94	11	59	0.186441	18.1132%	16.2834%	10.7	9.6	103%	114%
95-99	6	21	0.285714	23.2259%	22.9030%	4.9	4.8	123%	125%
100+	3	12	0.250000	25.4498%	34.8703%	3.1	4.2	98%	72%
Total	374	10,535				321.4	366.6	116%	102%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	11	554	0.019856	1.5218%	0.8536%	8.4	4.7	130%	233%
45-49	25	1,493	0.016745	1.7147%	1.4513%	25.6	21.7	98%	115%
50-54	71	2,978	0.023842	2.0125%	1.9550%	59.9	58.2	118%	122%
55-59	100	4,376	0.022852	2.4404%	2.3997%	106.8	105.0	94%	95%
60-64	156	4,965	0.031420	2.9483%	2.8029%	146.4	139.2	107%	112%
65-69	158	3,909	0.040420	3.5442%	3.3543%	138.5	131.1	114%	120%
70-74	121	2,697	0.044865	4.1245%	4.2418%	111.2	114.4	109%	106%
75-79	74	1,510	0.049007	5.7057%	5.8116%	86.2	87.8	86%	84%
80-84	66	915	0.072131	9.0564%	8.5197%	82.9	78.0	80%	85%
85-89	51	453	0.112583	12.8370%	12.3078%	58.2	55.8	88%	91%
90-94	29	141	0.205674	18.7487%	17.9023%	26.4	25.2	110%	115%
95-99	11	34	0.323529	24.8045%	24.0121%	8.4	8.2	130%	135%
100+	3	12	0.250000	25.4498%	34.8703%	3.1	4.2	98%	72%
<b>Total</b>	<b>876</b>	<b>24,037</b>				<b>862.0</b>	<b>833.4</b>	<b>102%</b>	<b>105%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

TABLE 2A

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	2	198	0.010101	1.4841%	0.4643%	2.9	0.9	68%	218%
42	4	225	0.017778	1.5295%	0.6030%	3.4	1.4	116%	295%
43	4	258	0.015504	1.5760%	0.7413%	4.1	1.9	98%	209%
44	6	320	0.018750	1.6237%	0.8782%	5.2	2.8	115%	214%
45	7	362	0.019337	1.6723%	1.0132%	6.1	3.7	116%	191%
46	3	415	0.007229	1.7246%	1.1457%	7.2	4.8	42%	63%
47	6	474	0.012658	1.7766%	1.2757%	8.4	6.0	71%	99%
48	3	544	0.005515	1.8563%	1.3794%	10.1	7.5	30%	40%
49	8	604	0.013245	1.9372%	1.4804%	11.7	8.9	68%	89%
50	11	702	0.015670	2.0191%	1.5788%	14.2	11.1	78%	99%
51	14	781	0.017926	2.1466%	1.6744%	16.8	13.1	84%	107%
52	23	845	0.027219	2.2787%	1.7670%	19.3	14.9	119%	154%
53	25	925	0.027027	2.4295%	1.8420%	22.5	17.0	111%	147%
54	25	1,016	0.024606	2.5864%	1.9177%	26.3	19.5	95%	128%
55	30	1,076	0.027881	2.7631%	1.9960%	29.7	21.5	101%	140%
56	35	1,153	0.030356	2.8401%	2.0785%	32.7	24.0	107%	146%
57	28	1,169	0.023952	2.9177%	2.1668%	34.1	25.3	82%	111%
58	33	1,212	0.027228	2.9966%	2.2656%	36.3	27.5	91%	120%
59	30	1,231	0.024370	3.0609%	2.3705%	37.7	29.2	80%	103%
60	53	1,254	0.042265	3.1259%	2.4814%	39.2	31.1	135%	170%
61	39	1,257	0.031026	3.2804%	2.5964%	41.2	32.6	95%	119%
62	35	1,245	0.028112	3.4252%	2.7138%	42.6	33.8	82%	104%
63	32	1,202	0.026622	3.5954%	2.8702%	43.2	34.5	74%	93%
64	45	1,147	0.039233	3.7564%	3.0262%	43.1	34.7	104%	130%
65	49	1,103	0.044424	3.9277%	3.1809%	43.3	35.1	113%	140%
66	47	1,016	0.046260	4.0033%	3.3338%	40.7	33.9	116%	139%
67	37	937	0.039488	4.0644%	3.4857%	38.1	32.7	97%	113%
68	41	879	0.046644	4.1476%	3.7241%	36.5	32.7	112%	125%
69	41	846	0.048463	4.1821%	3.9627%	35.4	33.5	116%	122%
70	33	765	0.043137	4.2681%	4.2004%	32.7	32.1	101%	103%
71	29	697	0.041607	4.4810%	4.4379%	31.2	30.9	93%	94%
72	25	647	0.038640	4.7452%	4.6748%	30.7	30.2	81%	83%
73	28	612	0.045752	5.0334%	5.0643%	30.8	31.0	91%	90%
74	32	572	0.055944	5.3469%	5.4526%	30.6	31.2	105%	103%
75	31	523	0.059273	5.7161%	5.8386%	29.9	30.5	104%	102%
76	17	490	0.034694	6.1811%	6.2236%	30.3	30.5	56%	56%
77	29	456	0.063596	6.7210%	6.6054%	30.6	30.1	95%	96%
78	26	418	0.062201	7.3098%	7.2148%	30.6	30.2	85%	86%
79	27	383	0.070496	7.9507%	7.8215%	30.5	30.0	89%	90%
80	28	343	0.081633	8.6468%	8.4262%	29.7	28.9	94%	97%
81	14	326	0.042945	9.4016%	9.0276%	30.6	29.4	46%	48%
82	33	298	0.110738	10.2172%	9.6264%	30.4	28.7	108%	115%
83	32	256	0.125000	11.0462%	10.5450%	28.3	27.0	113%	119%
84	18	211	0.085308	12.0010%	11.4610%	25.3	24.2	71%	74%
85	17	175	0.097143	12.9715%	12.3743%	22.7	21.7	75%	79%
86	17	145	0.117241	13.7025%	13.2837%	19.9	19.3	86%	88%
87	13	114	0.114035	14.2795%	14.1888%	16.3	16.2	80%	80%
88	10	95	0.105263	15.0155%	15.5101%	14.3	14.7	70%	68%
89	19	79	0.240506	15.7075%	16.8210%	12.4	13.3	153%	143%
90	11	53	0.207547	16.5102%	18.1205%	8.8	9.6	126%	115%
91	11	38	0.289474	18.3623%	19.4074%	7.0	7.4	158%	149%
92	3	25	0.120000	20.5314%	20.6763%	5.1	5.2	58%	58%
93	3	19	0.157895	22.5354%	22.4555%	4.3	4.3	70%	70%
94	3	13	0.230769	24.4937%	24.2273%	3.2	3.1	94%	95%
95	5	11	0.454545	26.5684%	25.9989%	2.9	2.9	171%	175%
96	3	5	0.600000	28.3744%	27.7814%	1.4	1.4	211%	216%
97	1	2	0.500000	30.0395%	29.5550%	0.6	0.6	166%	169%
98	0	0	N/A	31.7925%	31.9759%	0	0	0%	0%
99	0	0	N/A	33.1018%	34.3885%	0	0	0%	0%
Subtotal	1,234	32,167				1,302.9	1,140.0	95%	108%
100 or more	0	0	N/A	37.1685%	41.8491%	0	0	0%	0%
Total	1,234	32,167				1,302.9	1,140.0	95%	108%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	103	0.000000	1.5525%	0.9910%	1.6	1.0	0%	0%
42	1	138	0.007246	1.5823%	1.1369%	2.2	1.6	46%	64%
43	4	168	0.023810	1.6123%	1.2792%	2.7	2.1	148%	186%
44	0	203	0.000000	1.6355%	1.4176%	3.3	2.9	0%	0%
45	2	230	0.008696	1.6857%	1.5526%	3.9	3.6	52%	56%
46	9	270	0.033333	1.7372%	1.6837%	4.7	4.5	192%	198%
47	8	304	0.026316	1.7899%	1.8115%	5.4	5.5	147%	145%
48	6	341	0.017595	1.8139%	1.9058%	6.2	6.5	97%	92%
49	9	416	0.021635	1.8405%	2.0007%	7.7	8.3	118%	108%
50	12	472	0.025424	1.8353%	2.0987%	8.7	9.9	139%	121%
51	9	521	0.017274	1.8563%	2.2008%	9.7	11.5	93%	78%
52	19	593	0.032040	1.8450%	2.3092%	10.9	13.7	174%	139%
53	19	645	0.029457	1.8316%	2.3940%	11.8	15.4	161%	123%
54	23	730	0.031507	1.8548%	2.4855%	13.5	18.1	170%	127%
55	23	815	0.028221	1.8755%	2.5832%	15.3	21.1	150%	109%
56	19	891	0.021324	1.9362%	2.6856%	17.3	23.9	110%	79%
57	21	956	0.021967	2.0283%	2.7913%	19.4	26.7	108%	79%
58	37	988	0.037449	2.2025%	2.8828%	21.8	28.5	170%	130%
59	41	998	0.041082	2.3011%	2.9744%	23.0	29.7	179%	138%
60	40	1,043	0.038351	2.4029%	3.0636%	25.1	32.0	160%	125%
61	33	1,064	0.031015	2.5083%	3.1501%	26.7	33.5	124%	98%
62	37	1,083	0.034164	2.5622%	3.2323%	27.7	35.0	133%	106%
63	30	1,025	0.029268	2.6166%	3.3266%	26.8	34.1	112%	88%
64	32	996	0.032129	2.7909%	3.4169%	27.8	34.0	115%	94%
65	37	931	0.039742	2.9141%	3.5037%	27.1	32.6	136%	113%
66	21	871	0.024110	3.1089%	3.5883%	27.1	31.3	78%	67%
67	35	817	0.042840	3.2481%	3.6707%	26.5	30.0	132%	117%
68	25	737	0.033921	3.3962%	3.8133%	25.0	28.1	100%	89%
69	34	672	0.050595	3.4785%	3.9553%	23.4	26.6	145%	128%
70	17	586	0.029010	3.5632%	4.0962%	20.9	24.0	81%	71%
71	16	538	0.029740	3.6366%	4.2368%	19.6	22.8	82%	70%
72	26	458	0.056769	3.6748%	4.3767%	16.8	20.0	154%	130%
73	16	403	0.039702	3.7508%	4.6388%	15.1	18.7	106%	86%
74	14	349	0.040115	3.9370%	4.8993%	13.7	17.1	102%	82%
75	14	306	0.045752	4.2369%	5.1602%	13.0	15.8	108%	89%
76	12	260	0.046154	4.4942%	5.4218%	11.7	14.1	103%	85%
77	10	230	0.043478	4.6978%	5.6846%	10.8	13.1	93%	76%
78	12	210	0.057143	5.1043%	6.1456%	10.7	12.9	112%	93%
79	16	197	0.081218	5.5196%	6.6103%	10.9	13.0	147%	123%
80	12	166	0.072289	6.0999%	7.0761%	10.1	11.7	119%	102%
81	10	147	0.068027	6.7426%	7.5453%	9.9	11.1	101%	90%
82	15	141	0.106383	7.4535%	8.0153%	10.5	11.3	143%	133%
83	11	114	0.096491	8.2382%	8.7774%	9.4	10.0	117%	110%
84	7	96	0.072917	9.1031%	9.5393%	8.7	9.2	80%	76%
85	8	85	0.094118	9.8932%	10.3015%	8.4	8.8	95%	91%
86	5	79	0.063291	10.5252%	11.0604%	8.3	8.7	60%	57%
87	8	78	0.102564	11.4355%	11.8114%	8.9	9.2	90%	87%
88	6	65	0.092308	12.3603%	12.9505%	8.0	8.4	75%	71%
89	9	56	0.160714	13.8041%	14.0834%	7.7	7.9	116%	114%
90	7	47	0.148936	15.4621%	15.2059%	7.3	7.1	96%	98%
91	2	37	0.054054	17.4460%	16.3164%	6.5	6.0	31%	33%
92	8	34	0.235294	18.9908%	17.4115%	6.5	5.9	124%	135%
93	9	28	0.321429	20.1504%	19.0011%	5.6	5.3	160%	169%
94	3	19	0.157895	21.3100%	20.5761%	4.0	3.9	74%	77%
95	4	16	0.250000	22.7906%	22.1400%	3.6	3.5	110%	113%
96	5	16	0.312500	23.5150%	23.7098%	3.8	3.8	133%	132%
97	2	11	0.181818	23.5424%	25.2658%	2.6	2.8	77%	72%
98	0	8	0.000000	23.5623%	27.4526%	1.9	2.2	0%	0%
99	2	8	0.250000	24.8785%	29.6244%	2.0	2.4	100%	84%
Subtotal	872	23,809				729.2	862.6	120%	101%
100 or more	5	19	0.263158	25.4498%	36.3732%	4.8	6.9	103%	72%
Total	877	23,828				734.1	869.5	119%	101%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	2	301	0.006645	1.5075%	0.6445%	4.5	1.9	44%	103%
42	5	363	0.013774	1.5496%	0.8060%	5.6	2.9	89%	171%
43	8	426	0.018779	1.5903%	0.9534%	6.8	4.1	118%	197%
44	6	523	0.011472	1.6283%	1.0876%	8.5	5.7	70%	105%
45	9	592	0.015203	1.6775%	1.2227%	9.9	7.2	91%	124%
46	12	685	0.017518	1.7296%	1.3577%	11.8	9.3	101%	129%
47	14	778	0.017995	1.7818%	1.4850%	13.9	11.6	101%	121%
48	9	885	0.010169	1.8400%	1.5822%	16.3	14.0	55%	64%
49	17	1,020	0.016667	1.8978%	1.6926%	19.4	17.3	88%	98%
50	23	1,174	0.019591	1.9452%	1.7878%	22.8	21.0	101%	110%
51	23	1,302	0.017665	2.0304%	1.8850%	26.4	24.5	87%	94%
52	42	1,438	0.029207	2.0999%	1.9906%	30.2	28.6	139%	147%
53	44	1,570	0.028025	2.1839%	2.0688%	34.3	32.5	128%	135%
54	48	1,746	0.027491	2.2805%	2.1551%	39.8	37.6	121%	128%
55	53	1,891	0.028027	2.3806%	2.2491%	45.0	42.5	118%	125%
56	54	2,044	0.026419	2.4461%	2.3431%	50.0	47.9	108%	113%
57	49	2,125	0.023059	2.5176%	2.4477%	53.5	52.0	92%	94%
58	70	2,200	0.031818	2.6400%	2.5428%	58.1	55.9	121%	125%
59	71	2,229	0.031853	2.7207%	2.6409%	60.6	58.9	117%	121%
60	93	2,297	0.040488	2.7976%	2.7458%	64.3	63.1	145%	147%
61	72	2,321	0.031021	2.9265%	2.8502%	67.9	66.2	106%	109%
62	72	2,328	0.030928	3.0237%	2.9550%	70.4	68.8	102%	105%
63	62	2,227	0.027840	3.1449%	3.0803%	70.0	68.6	89%	90%
64	77	2,143	0.035931	3.3077%	3.2078%	70.9	68.7	109%	112%
65	86	2,034	0.042281	3.4638%	3.3286%	70.5	67.7	122%	127%
66	68	1,887	0.036036	3.5905%	3.4513%	67.8	65.1	100%	104%
67	72	1,754	0.041049	3.6842%	3.5719%	64.6	62.7	111%	115%
68	66	1,616	0.040842	3.8049%	3.7648%	61.5	60.8	107%	108%
69	75	1,518	0.049407	3.8706%	3.9594%	58.8	60.1	128%	125%
70	50	1,351	0.037010	3.9623%	4.1552%	53.5	56.1	93%	89%
71	45	1,235	0.036437	4.1132%	4.3503%	50.8	53.7	89%	84%
72	51	1,105	0.046154	4.3015%	4.5512%	47.5	50.3	107%	101%
73	44	1,015	0.043350	4.5242%	4.8953%	45.9	49.7	96%	89%
74	46	921	0.049946	4.8126%	5.2429%	44.3	48.3	104%	95%
75	45	829	0.054282	5.1701%	5.5882%	42.9	46.3	105%	97%
76	29	750	0.038667	5.5963%	5.9456%	42.0	44.6	69%	65%
77	39	686	0.056851	6.0427%	6.2967%	41.5	43.2	94%	90%
78	38	628	0.060510	6.5723%	6.8572%	41.3	43.1	92%	88%
79	43	580	0.074138	7.1250%	7.4101%	41.3	43.0	104%	100%
80	40	509	0.078585	7.8162%	7.9859%	39.8	40.6	101%	98%
81	24	473	0.050740	8.5752%	8.5669%	40.6	40.5	59%	59%
82	48	439	0.109339	9.3295%	9.1090%	41.0	40.0	117%	120%
83	43	370	0.116216	10.1810%	10.0004%	37.7	37.0	114%	116%
84	25	307	0.081433	11.0948%	10.8601%	34.1	33.3	73%	75%
85	25	260	0.096154	11.9651%	11.6967%	31.1	30.4	80%	82%
86	22	224	0.098214	12.5819%	12.4996%	28.2	28.0	78%	79%
87	21	192	0.109375	13.1241%	13.2230%	25.2	25.4	83%	83%
88	16	160	0.100000	13.9368%	14.4702%	22.3	23.2	72%	69%
89	28	135	0.207407	14.9179%	15.6854%	20.1	21.2	139%	132%
90	18	100	0.180000	16.0176%	16.7507%	16.0	16.8	112%	107%
91	13	75	0.173333	17.9103%	17.8825%	13.4	13.4	97%	97%
92	11	59	0.186441	19.6436%	18.7949%	11.6	11.1	95%	99%
93	12	47	0.255319	21.1145%	20.3975%	9.9	9.6	121%	125%
94	6	32	0.187500	22.6034%	22.0594%	7.2	7.1	83%	85%
95	9	27	0.333333	24.3297%	23.7121%	6.6	6.4	137%	141%
96	8	21	0.380952	24.6720%	24.6792%	5.2	5.2	154%	154%
97	3	13	0.230769	24.5420%	25.9257%	3.2	3.4	94%	89%
98	0	8	0.000000	23.5623%	27.4526%	1.9	2.2	0%	0%
99	2	8	0.250000	24.8785%	29.6244%	2.0	2.4	100%	84%
Subtotal	2,106	55,976				2,032.1	2,002.6	104%	105%
100 or more	5	19	0.263158	25.4498%	36.3732%	4.8	6.9	103%	72%
Total	2,111	55,995				2,036.9	2,009.5	104%	105%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	16	1,001	0.015984	1.5626%	0.6992%	15.6	7.0	102%	229%
45-49	27	2,399	0.011255	1.8104%	1.2886%	43.4	30.9	62%	87%
50-54	98	4,269	0.022956	2.3177%	1.7712%	98.9	75.6	99%	130%
55-59	156	5,841	0.026708	2.9205%	2.1813%	170.6	127.4	91%	122%
60-64	204	6,105	0.033415	3.4296%	2.7314%	209.4	166.8	97%	122%
65-69	215	4,781	0.044970	4.0560%	3.5113%	193.9	167.9	111%	128%
70-74	147	3,293	0.044640	4.7365%	4.7219%	156.0	155.5	94%	95%
75-79	130	2,270	0.057269	6.6888%	6.6637%	151.8	151.3	86%	86%
80-84	125	1,434	0.087169	10.0666%	9.6371%	144.4	138.2	87%	90%
85-89	76	608	0.125000	14.0660%	13.9991%	85.5	85.1	89%	89%
90-94	31	148	0.209459	19.1398%	19.9756%	28.3	29.6	109%	105%
95-99	9	18	0.500000	27.4557%	26.8892%	4.9	4.8	182%	186%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,234</b>	<b>32,167</b>				<b>1,302.9</b>	<b>1,140.0</b>	<b>95%</b>	<b>108%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	5	612	0.008170	1.6032%	1.2445%	9.8	7.6	51%	66%
45-49	34	1,561	0.021781	1.7842%	1.8223%	27.9	28.4	122%	120%
50-54	82	2,961	0.027693	1.8449%	2.3185%	54.6	68.7	150%	119%
55-59	141	4,648	0.030336	2.0795%	2.7933%	96.7	129.8	146%	109%
60-64	172	5,211	0.033007	2.5737%	3.2356%	134.1	168.6	128%	102%
65-69	152	4,028	0.037736	3.2063%	3.6879%	129.2	148.5	118%	102%
70-74	89	2,334	0.038132	3.6903%	4.3974%	86.1	102.6	103%	87%
75-79	64	1,203	0.053200	4.7421%	5.7265%	57.0	68.9	112%	93%
80-84	55	664	0.082831	7.3309%	8.0276%	48.7	53.3	113%	103%
85-89	36	363	0.099174	11.4072%	11.8489%	41.4	43.0	87%	84%
90-94	29	165	0.175758	18.1031%	17.1718%	29.9	28.3	97%	102%
95-99	13	59	0.220339	23.5150%	24.8837%	13.9	14.7	94%	89%
100+	5	19	0.263158	25.4498%	36.3732%	4.8	6.9	103%	72%
Total	877	23,828				734.1	869.5	119%	101%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	21	1,613	0.013019	1.5780%	0.9061%	25.5	14.6	83%	144%
45-49	61	3,960	0.015404	1.8000%	1.4990%	71.3	59.4	86%	103%
50-54	180	7,230	0.024896	2.1241%	1.9953%	153.6	144.3	117%	125%
55-59	297	10,489	0.028315	2.5478%	2.4525%	267.2	257.2	111%	115%
60-64	376	11,316	0.033227	3.0355%	2.9636%	343.5	335.4	109%	112%
65-69	367	8,809	0.041662	3.6675%	3.5921%	323.1	316.4	114%	116%
70-74	236	5,627	0.041941	4.3026%	4.5873%	242.1	258.1	97%	91%
75-79	194	3,473	0.055859	6.0145%	6.3391%	208.9	220.2	93%	88%
80-84	180	2,098	0.085796	9.2008%	9.1277%	193.0	191.5	93%	94%
85-89	112	971	0.115345	13.0720%	13.1953%	126.9	128.1	88%	87%
90-94	60	313	0.191693	18.5933%	18.4976%	58.2	57.9	103%	104%
95-99	22	77	0.285714	24.4362%	25.3525%	18.8	19.5	117%	113%
100+	5	19	0.263158	25.4498%	36.3732%	4.8	6.9	103%	72%
<b>Total</b>	<b>2,111</b>	<b>55,995</b>				<b>2,036.9</b>	<b>2,009.5</b>	<b>104%</b>	<b>105%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	5,029	196	145.8	134%	3.8974%	2.8985%
2005	5,283	199	153.3	130%	3.7668%	2.9019%
2006	5,380	197	158.1	125%	3.6617%	2.9384%
2007	5,507	245	163.7	150%	4.4489%	2.9720%
2008	5,654	218	168.4	129%	3.8557%	2.9787%
2009	5,816	185	174.4	106%	3.1809%	2.9981%
2010	5,960	198	180.8	110%	3.3221%	3.0338%
2011	6,027	199	184.6	108%	3.3018%	3.0635%
2012	6,043	195	189.0	103%	3.2269%	3.1272%
2013	6,258	285	197.3	144%	4.5542%	3.1535%
Total	56,957	2,117	1,715.4	123%	3.7168%	3.0117%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	503	6,784	0.0741	6.00%	6.80%	407.0	461.3	124%	109%
1	839	13,252	0.0633	5.00%	5.80%	662.6	768.6	127%	109%
2	792	13,949	0.0568	4.00%	4.80%	558.0	669.6	142%	118%
3	586	11,981	0.0489	3.00%	4.00%	359.4	479.2	163%	122%
4	383	8,912	0.0430	3.00%	3.60%	267.4	320.8	143%	119%
5	339	8,282	0.0409	3.00%	3.30%	248.5	273.3	136%	124%
6	286	7,384	0.0387	2.80%	3.10%	206.8	228.9	138%	125%
7	249	7,217	0.0345	2.60%	2.90%	187.6	209.3	133%	119%
8	192	7,175	0.0268	2.40%	2.64%	172.2	189.4	111%	101%
9	158	6,749	0.0234	2.20%	2.42%	148.5	163.3	106%	97%
10	126	6,098	0.0207	2.00%	2.20%	122.0	134.2	103%	94%
11	118	5,321	0.0222	1.90%	2.09%	101.1	111.2	117%	106%
12	108	5,137	0.0210	1.80%	1.98%	92.5	101.7	117%	106%
13	118	4,879	0.0242	1.70%	1.87%	82.9	91.2	142%	129%
14	103	4,966	0.0207	1.60%	1.76%	79.5	87.4	130%	118%
15	76	4,927	0.0154	1.50%	1.65%	73.9	81.3	103%	93%
16	70	4,608	0.0152	1.40%	1.54%	64.5	71.0	109%	99%
17	69	4,910	0.0141	1.30%	1.43%	63.8	70.2	108%	98%
18	71	4,703	0.0151	1.20%	1.32%	56.4	62.1	126%	114%
19	53	4,686	0.0113	1.10%	1.21%	51.5	56.7	103%	93%
20	58	4,610	0.0126	1.00%	1.10%	46.1	50.7	126%	114%
21	49	4,044	0.0121	1.00%	1.10%	40.4	44.5	121%	110%
22	42	3,540	0.0119	1.00%	1.10%	35.4	38.9	119%	108%
23	52	3,084	0.0169	1.00%	1.10%	30.8	33.9	169%	153%
24	26	1,996	0.0130	1.00%	1.10%	20.0	22.0	130%	118%
25	11	1,487	0.0074	1.00%	1.10%	14.9	16.4	74%	67%
26	14	1,267	0.0110	1.00%	1.10%	12.7	13.9	110%	100%
27	14	1,024	0.0137	1.00%	1.10%	10.2	11.3	137%	124%
28	14	886	0.0158	1.00%	1.10%	8.9	9.7	158%	144%
29	7	587	0.0119	1.00%	1.10%	5.9	6.5	119%	108%
30	6	330	0.0182	1.00%	1.10%	3.3	3.6	182%	165%
Subtotal	5,532	164,775	0.0336			4,234.6	4,882.2	131%	113%
31 or more	8	366	0.0219	1.00%	1.10%	3.7	4.0	219%	199%
Total	5,540	165,141	0.0335			4,238.3	4,886.2	131%	113%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**4-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	644	9,045	0.0712	6.00%	6.80%	542.7	615.1	119%	105%
1	1,279	18,483	0.0692	5.00%	5.80%	924.2	1,072.0	138%	119%
2	1,194	19,321	0.0618	4.00%	4.80%	772.8	927.4	154%	129%
3	834	17,296	0.0482	3.00%	4.00%	518.9	691.8	161%	121%
4	640	13,387	0.0478	3.00%	3.60%	401.6	481.9	159%	133%
5	522	12,675	0.0412	3.00%	3.30%	380.3	418.3	137%	125%
6	445	11,813	0.0377	2.80%	3.10%	330.8	366.2	135%	122%
7	398	11,228	0.0354	2.60%	2.90%	291.9	325.6	136%	122%
8	307	10,889	0.0282	2.40%	2.64%	261.3	287.5	117%	107%
9	303	9,690	0.0313	2.20%	2.42%	213.2	234.5	142%	129%
10	235	8,283	0.0284	2.00%	2.20%	165.7	182.2	142%	129%
11	181	6,829	0.0265	1.90%	2.09%	129.8	142.7	139%	127%
12	142	6,412	0.0221	1.80%	1.98%	115.4	127.0	123%	112%
13	138	6,045	0.0228	1.70%	1.87%	102.8	113.0	134%	122%
14	133	5,963	0.0223	1.60%	1.76%	95.4	104.9	139%	127%
15	102	5,948	0.0171	1.50%	1.65%	89.2	98.1	114%	104%
16	95	5,477	0.0173	1.40%	1.54%	76.7	84.3	124%	113%
17	91	4,954	0.0184	1.30%	1.43%	64.4	70.8	141%	128%
18	90	4,721	0.0191	1.20%	1.32%	56.7	62.3	159%	144%
19	69	4,155	0.0166	1.10%	1.21%	45.7	50.3	151%	137%
20	62	3,890	0.0159	1.00%	1.10%	38.9	42.8	159%	145%
21	52	3,649	0.0143	1.00%	1.10%	36.5	40.1	143%	130%
22	29	3,135	0.0093	1.00%	1.10%	31.4	34.5	93%	84%
23	56	2,811	0.0199	1.00%	1.10%	28.1	30.9	199%	181%
24	35	2,117	0.0165	1.00%	1.10%	21.2	23.3	165%	150%
25	22	1,745	0.0126	1.00%	1.10%	17.5	19.2	126%	115%
26	19	1,571	0.0121	1.00%	1.10%	15.7	17.3	121%	110%
27	18	1,475	0.0122	1.00%	1.10%	14.8	16.2	122%	111%
28	9	1,139	0.0079	1.00%	1.10%	11.4	12.5	79%	72%
29	9	734	0.0123	1.00%	1.10%	7.3	8.1	123%	111%
30	6	423	0.0142	1.00%	1.10%	4.2	4.7	142%	129%
Total	8,159	215,303	0.0379			5,806.2	6,705.7	141%	122%
31 or more	27	2,487	0.0109	1.00%	1.10%	24.9	27.4	109%	99%
Total	8,186	217,790	0.0376			5,831.1	6,733.1	140%	122%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> <u>Withdrawals</u> (2)	<u>Total</u> <u>Exposed</u> (3)	<u>Actual Rate</u> <u>(2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> <u>(3) x (5)</u> (7)	<u>Proposed</u> <u>(3) x (6)</u> (8)	<u>Expected</u> <u>(2) / (7)</u> (9)	<u>Proposed</u> <u>(2) / (8)</u> (10)
0	1,147	15,829	0.0725	6.00%	6.80%	949.7	1,076.4	121%	107%
1	2,118	31,735	0.0667	5.00%	5.80%	1,586.8	1,840.6	133%	115%
2	1,986	33,270	0.0597	4.00%	4.80%	1,330.8	1,597.0	149%	124%
3	1,420	29,277	0.0485	3.00%	4.00%	878.3	1,171.1	162%	121%
4	1,023	22,299	0.0459	3.00%	3.60%	669.0	802.8	153%	127%
5	861	20,957	0.0411	3.00%	3.30%	628.7	691.6	137%	124%
6	731	19,197	0.0381	2.80%	3.10%	537.5	595.1	136%	123%
7	647	18,445	0.0351	2.60%	2.90%	479.6	534.9	135%	121%
8	499	18,064	0.0276	2.40%	2.64%	433.5	476.9	115%	105%
9	461	16,439	0.0280	2.20%	2.42%	361.7	397.8	127%	116%
10	361	14,381	0.0251	2.00%	2.20%	287.6	316.4	126%	114%
11	299	12,150	0.0246	1.90%	2.09%	230.9	253.9	130%	118%
12	250	11,549	0.0216	1.80%	1.98%	207.9	228.7	120%	109%
13	256	10,924	0.0234	1.70%	1.87%	185.7	204.3	138%	125%
14	236	10,929	0.0216	1.60%	1.76%	174.9	192.4	135%	123%
15	178	10,875	0.0164	1.50%	1.65%	163.1	179.4	109%	99%
16	165	10,085	0.0164	1.40%	1.54%	141.2	155.3	117%	106%
17	160	9,864	0.0162	1.30%	1.43%	128.2	141.1	125%	113%
18	161	9,424	0.0171	1.20%	1.32%	113.1	124.4	142%	129%
19	122	8,841	0.0138	1.10%	1.21%	97.3	107.0	125%	114%
20	120	8,500	0.0141	1.00%	1.10%	85.0	93.5	141%	128%
21	101	7,693	0.0131	1.00%	1.10%	76.9	84.6	131%	119%
22	71	6,675	0.0106	1.00%	1.10%	66.8	73.4	106%	97%
23	108	5,895	0.0183	1.00%	1.10%	59.0	64.8	183%	167%
24	61	4,113	0.0148	1.00%	1.10%	41.1	45.2	148%	135%
25	33	3,232	0.0102	1.00%	1.10%	32.3	35.6	102%	93%
26	33	2,838	0.0116	1.00%	1.10%	28.4	31.2	116%	106%
27	32	2,499	0.0128	1.00%	1.10%	25.0	27.5	128%	116%
28	23	2,025	0.0114	1.00%	1.10%	20.3	22.3	114%	103%
29	16	1,321	0.0121	1.00%	1.10%	13.2	14.5	121%	110%
30	12	753	0.0159	1.00%	1.10%	7.5	8.3	159%	145%
Total	13,691	380,078	0.0360			10,040.8	11,587.9	136%	118%
31 or more	35	2,853	0.0123	1.00%	1.10%	28.5	31.4	123%	112%
Total	13,726	382,931	0.0358			10,069.3	11,619.3	136%	118%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	1,009	12,218	0.0826	6.00%	6.80%	733.1	830.8	138%	121%
1	1,694	26,515	0.0639	5.00%	5.80%	1,325.8	1,537.9	128%	110%
2	1,464	25,355	0.0577	4.00%	4.80%	1,014.2	1,217.0	144%	120%
3	1,169	23,145	0.0505	3.00%	4.00%	694.4	925.8	168%	126%
4	770	18,586	0.0414	3.00%	3.60%	557.6	669.1	138%	115%
5	689	17,261	0.0399	3.00%	3.30%	517.8	569.6	133%	121%
6	572	15,427	0.0371	2.80%	3.10%	432.0	478.2	132%	120%
7	465	14,364	0.0324	2.60%	2.90%	373.5	416.6	125%	112%
8	367	13,952	0.0263	2.40%	2.64%	334.8	368.3	110%	100%
9	308	13,195	0.0233	2.20%	2.42%	290.3	319.3	106%	96%
10	295	12,856	0.0229	2.00%	2.20%	257.1	282.8	115%	104%
11	270	12,116	0.0223	1.90%	2.09%	230.2	253.2	117%	107%
12	274	11,480	0.0239	1.80%	1.98%	206.6	227.3	133%	121%
13	251	11,606	0.0216	1.70%	1.87%	197.3	217.0	127%	116%
14	233	11,405	0.0204	1.60%	1.76%	182.5	200.7	128%	116%
15	196	11,333	0.0173	1.50%	1.65%	170.0	187.0	115%	105%
16	182	11,000	0.0165	1.40%	1.54%	154.0	169.4	118%	107%
17	170	10,609	0.0160	1.30%	1.43%	137.9	151.7	123%	112%
18	133	9,829	0.0135	1.20%	1.32%	117.9	129.7	113%	103%
19	109	9,298	0.0117	1.10%	1.21%	102.3	112.5	107%	97%
20	104	8,324	0.0125	1.00%	1.10%	83.2	91.6	125%	114%
21	83	7,241	0.0115	1.00%	1.10%	72.4	79.7	115%	104%
22	74	6,475	0.0114	1.00%	1.10%	64.8	71.2	114%	104%
23	77	5,731	0.0134	1.00%	1.10%	57.3	63.0	134%	122%
24	52	4,022	0.0129	1.00%	1.10%	40.2	44.2	129%	118%
25	25	3,044	0.0082	1.00%	1.10%	30.4	33.5	82%	75%
26	24	2,311	0.0104	1.00%	1.10%	23.1	25.4	104%	94%
27	24	1,721	0.0139	1.00%	1.10%	17.2	18.9	139%	127%
28	17	1,272	0.0134	1.00%	1.10%	12.7	14.0	134%	121%
29	11	985	0.0112	1.00%	1.10%	9.9	10.8	112%	102%
30	14	859	0.0163	1.00%	1.10%	8.6	9.4	163%	148%
Subtotal	11,125	333,535	0.0334			8,449.1	9,726.0	132%	114%
31 or more	20	1,123	0.0178	1.00%	1.10%	11.2	12.4	178%	162%
Total	11,145	334,658	0.0333			8,460.3	9,738.3	132%	114%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	1,341	17,116	0.0783	6.00%	6.80%	1,027.0	1,163.9	131%	115%
1	2,575	38,001	0.0678	5.00%	5.80%	1,900.1	2,204.1	136%	117%
2	2,200	36,955	0.0595	4.00%	4.80%	1,478.2	1,773.8	149%	124%
3	1,654	34,315	0.0482	3.00%	4.00%	1,029.5	1,372.6	161%	121%
4	1,268	28,198	0.0450	3.00%	3.60%	845.9	1,015.1	150%	125%
5	1,065	25,669	0.0415	3.00%	3.30%	770.1	847.1	138%	126%
6	851	22,847	0.0372	2.80%	3.10%	639.7	708.3	133%	120%
7	710	20,380	0.0348	2.60%	2.90%	529.9	591.0	134%	120%
8	549	19,446	0.0282	2.40%	2.64%	466.7	513.4	118%	107%
9	534	17,898	0.0298	2.20%	2.42%	393.8	433.1	136%	123%
10	466	16,373	0.0285	2.00%	2.20%	327.5	360.2	142%	129%
11	407	15,151	0.0269	1.90%	2.09%	287.9	316.7	141%	129%
12	297	13,919	0.0213	1.80%	1.98%	250.5	275.6	119%	108%
13	296	13,064	0.0227	1.70%	1.87%	222.1	244.3	133%	121%
14	268	12,510	0.0214	1.60%	1.76%	200.2	220.2	134%	122%
15	206	11,828	0.0174	1.50%	1.65%	177.4	195.2	116%	106%
16	201	11,001	0.0183	1.40%	1.54%	154.0	169.4	131%	119%
17	182	10,292	0.0177	1.30%	1.43%	133.8	147.2	136%	124%
18	165	9,319	0.0177	1.20%	1.32%	111.8	123.0	148%	134%
19	132	8,244	0.0160	1.10%	1.21%	90.7	99.8	146%	132%
20	115	7,289	0.0158	1.00%	1.10%	72.9	80.2	158%	143%
21	87	6,585	0.0132	1.00%	1.10%	65.9	72.4	132%	120%
22	61	5,962	0.0102	1.00%	1.10%	59.6	65.6	102%	93%
23	92	5,616	0.0164	1.00%	1.10%	56.2	61.8	164%	149%
24	65	4,309	0.0151	1.00%	1.10%	43.1	47.4	151%	137%
25	36	3,340	0.0108	1.00%	1.10%	33.4	36.7	108%	98%
26	39	2,621	0.0149	1.00%	1.10%	26.2	28.8	149%	135%
27	23	2,024	0.0114	1.00%	1.10%	20.2	22.3	114%	103%
28	12	1,543	0.0078	1.00%	1.10%	15.4	17.0	78%	71%
29	12	1,219	0.0098	1.00%	1.10%	12.2	13.4	98%	89%
30	16	1,196	0.0134	1.00%	1.10%	12.0	13.2	134%	122%
Total	15,925	424,230	0.0375			11,453.6	13,232.6	139%	120%
31 or more	27	2,487	0.0109	1.00%	1.10%	24.9	27.4	109%	99%
Total	15,952	426,717	0.0374			11,478.5	13,259.9	139%	120%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	2,350	29,334	0.0801	6.00%	6.80%	1,760.0	1,994.7	134%	118%
1	4,269	64,516	0.0662	5.00%	5.80%	3,225.8	3,741.9	132%	114%
2	3,664	62,310	0.0588	4.00%	4.80%	2,492.4	2,990.9	147%	123%
3	2,823	57,460	0.0491	3.00%	4.00%	1,723.8	2,298.4	164%	123%
4	2,038	46,784	0.0436	3.00%	3.60%	1,403.5	1,684.2	145%	121%
5	1,754	42,930	0.0409	3.00%	3.30%	1,287.9	1,416.7	136%	124%
6	1,423	38,274	0.0372	2.80%	3.10%	1,071.7	1,186.5	133%	120%
7	1,175	34,744	0.0338	2.60%	2.90%	903.3	1,007.6	130%	117%
8	916	33,398	0.0274	2.40%	2.64%	801.6	881.7	114%	104%
9	842	31,093	0.0271	2.20%	2.42%	684.0	752.5	123%	112%
10	761	29,229	0.0260	2.00%	2.20%	584.6	643.0	130%	118%
11	677	27,267	0.0248	1.90%	2.09%	518.1	569.9	131%	119%
12	571	25,399	0.0225	1.80%	1.98%	457.2	502.9	125%	114%
13	547	24,670	0.0222	1.70%	1.87%	419.4	461.3	130%	119%
14	501	23,915	0.0209	1.60%	1.76%	382.6	420.9	131%	119%
15	402	23,161	0.0174	1.50%	1.65%	347.4	382.2	116%	105%
16	383	22,001	0.0174	1.40%	1.54%	308.0	338.8	124%	113%
17	352	20,901	0.0168	1.30%	1.43%	271.7	298.9	130%	118%
18	298	19,148	0.0156	1.20%	1.32%	229.8	252.8	130%	118%
19	241	17,542	0.0137	1.10%	1.21%	193.0	212.3	125%	114%
20	219	15,613	0.0140	1.00%	1.10%	156.1	171.7	140%	128%
21	170	13,826	0.0123	1.00%	1.10%	138.3	152.1	123%	112%
22	135	12,437	0.0109	1.00%	1.10%	124.4	136.8	109%	99%
23	169	11,347	0.0149	1.00%	1.10%	113.5	124.8	149%	135%
24	117	8,331	0.0140	1.00%	1.10%	83.3	91.6	140%	128%
25	61	6,384	0.0096	1.00%	1.10%	63.8	70.2	96%	87%
26	63	4,932	0.0128	1.00%	1.10%	49.3	54.3	128%	116%
27	47	3,745	0.0126	1.00%	1.10%	37.5	41.2	126%	114%
28	29	2,815	0.0103	1.00%	1.10%	28.2	31.0	103%	94%
29	23	2,204	0.0104	1.00%	1.10%	22.0	24.2	104%	95%
30	30	2,055	0.0146	1.00%	1.10%	20.6	22.6	146%	133%
Total	27,050	757,765	0.0357			19,902.7	22,958.6	136%	118%
31 or more	47	3,610	0.0130	1.00%	1.10%	36.1	39.7	130%	118%
Total	27,097	761,375	0.0356			19,938.8	22,998.3	136%	118%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 3D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals (3)	Expected Withdrawals (4)	Actual / Expected (5)	Withdrawal Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	95,892	2,964	2,698.0	110%	3.09%	2.81%
2005	95,161	3,158	2,634.5	120%	3.32%	2.77%
2006	94,578	3,295	2,610.5	126%	3.48%	2.76%
2007	94,693	3,974	2,619.6	152%	4.20%	2.77%
2008	95,062	3,715	2,688.7	138%	3.91%	2.83%
2009	95,769	3,075	2,714.5	113%	3.21%	2.83%
2010	95,404	3,241	2,713.0	119%	3.40%	2.84%
2011	94,816	3,675	2,653.1	139%	3.88%	2.80%
2012	93,229	737	2,583.5	29%	0.79%	2.77%
2013	97,670	2,116	2,885.7	73%	2.17%	2.95%
Total	952,274	29,950	26,801.0	112%	3.15%	2.81%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	1	3	0.3333	40.00%	35.00%	1.2	1.1	83%	95%
44	2	4	0.5000	40.00%	35.00%	1.6	1.4	125%	143%
45	2	5	0.4000	40.00%	35.00%	2.0	1.8	100%	114%
46	5	8	0.6250	40.00%	35.00%	3.2	2.8	156%	179%
47	6	10	0.6000	40.00%	35.00%	4.0	3.5	150%	171%
48	9	17	0.5294	40.00%	35.00%	6.8	6.0	132%	151%
49	11	17	0.6471	40.00%	35.00%	6.8	6.0	162%	185%
50	109	393	0.2774	39.29%	34.29%	154.4	134.8	71%	81%
51	57	111	0.5135	38.92%	33.92%	43.2	37.7	132%	151%
52	30	88	0.3409	38.64%	33.64%	34.0	29.6	88%	101%
53	27	86	0.3140	39.30%	34.30%	33.8	29.5	80%	92%
54	25	77	0.3247	38.70%	33.70%	29.8	26.0	84%	96%
55	193	742	0.2601	39.06%	34.06%	289.8	252.7	67%	76%
56	99	184	0.5380	38.80%	33.80%	71.4	62.2	139%	159%
57	175	4,465	0.0392	20.53%	15.53%	916.8	693.6	19%	25%
58	83	552	0.1504	23.37%	18.37%	129.0	101.4	64%	82%
59	42	469	0.0896	22.56%	17.56%	105.8	82.4	40%	51%
60	23	384	0.0599	21.72%	16.72%	83.4	64.2	28%	36%
61	15	342	0.0439	21.46%	16.46%	73.4	56.3	20%	27%
62	1,687	7,819	0.2158	30.86%	35.72%	2,412.9	2,792.7	70%	60%
63	639	898	0.7116	20.78%	15.78%	186.6	141.7	342%	451%
64	21	215	0.0977	20.19%	15.19%	43.4	32.7	48%	64%
65	17	172	0.0988	30.52%	15.35%	52.5	26.4	32%	64%
66	19	148	0.1284	20.54%	15.54%	30.4	23.0	63%	83%
67	17	114	0.1491	20.35%	15.35%	23.2	17.5	73%	97%
68	15	74	0.2027	20.00%	15.00%	14.8	11.1	101%	135%
69	10	58	0.1724	20.00%	15.00%	11.6	8.7	86%	115%
70	9	37	0.2432	100.00%	100.00%	37.0	37.0	24%	24%
Subtotal	3,348	17,492				4,802.8	4,683.3	70%	71%
Other	29	138	0.2101	100.00%	100.00%	138.0	138.0	21%	21%
Total	3,377	17,630				4,940.8	4,821.3	68%	70%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
41	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
42	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
43	1	3	0.3333	40.00%	35.00%	1.2	1.1	83%	95%
44	2	4	0.5000	40.00%	35.00%	1.6	1.4	125%	143%
45	2	5	0.4000	40.00%	35.00%	2.0	1.8	100%	114%
46	5	8	0.6250	40.00%	35.00%	3.2	2.8	156%	179%
47	6	10	0.6000	40.00%	35.00%	4.0	3.5	150%	171%
48	9	17	0.5294	40.00%	35.00%	6.8	6.0	132%	151%
49	11	17	0.6471	40.00%	35.00%	6.8	6.0	162%	185%
50	103	379	0.2718	40.00%	35.00%	151.6	132.7	68%	78%
51	53	105	0.5048	40.00%	35.00%	42.0	36.8	126%	144%
52	25	82	0.3049	40.00%	35.00%	32.8	28.7	76%	87%
53	25	83	0.3012	40.00%	35.00%	33.2	29.1	75%	86%
54	21	72	0.2917	40.00%	35.00%	28.8	25.2	73%	83%
55	179	707	0.2532	40.00%	35.00%	282.8	247.5	63%	72%
56	88	173	0.5087	40.00%	35.00%	69.2	60.6	127%	145%
57	30	119	0.2521	40.00%	35.00%	47.6	41.7	63%	72%
58	38	93	0.4086	40.00%	35.00%	37.2	32.6	102%	117%
59	27	60	0.4500	40.00%	35.00%	24.0	21.0	113%	129%
60	8	33	0.2424	40.00%	35.00%	13.2	11.6	61%	69%
61	5	25	0.2000	40.00%	35.00%	10.0	8.8	50%	57%
62	60	224	0.2679	60.00%	60.00%	134.4	134.4	45%	45%
63	28	35	0.8000	40.00%	35.00%	14.0	12.3	200%	229%
64	0	2	0.0000	40.00%	35.00%	0.8	0.7	0%	0%
65	0	3	0.0000	60.00%	35.00%	1.8	1.1	0%	0%
66	2	4	0.5000	40.00%	35.00%	1.6	1.4	125%	143%
67	0	2	0.0000	40.00%	35.00%	0.8	0.7	0%	0%
68	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
69	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	728	2,265				951.4	848.8	77%	86%
Other	0	1	0.0000	100.00%	100.00%	1.0	1.0	0%	0%
Total	728	2,266				952.4	849.8	76%	86%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
50	6	14	0.4286	20.00%	15.00%	2.8	2.1	214%	286%
51	4	6	0.6667	20.00%	15.00%	1.2	0.9	333%	444%
52	5	6	0.8333	20.00%	15.00%	1.2	0.9	417%	556%
53	2	3	0.6667	20.00%	15.00%	0.6	0.5	333%	444%
54	4	5	0.8000	20.00%	15.00%	1.0	0.8	400%	533%
55	14	35	0.4000	20.00%	15.00%	7.0	5.3	200%	267%
56	11	11	1.0000	20.00%	15.00%	2.2	1.7	500%	667%
57	145	4,346	0.0334	20.00%	15.00%	869.2	651.9	17%	22%
58	45	459	0.0980	20.00%	15.00%	91.8	68.9	49%	65%
59	15	409	0.0367	20.00%	15.00%	81.8	61.4	18%	24%
60	15	351	0.0427	20.00%	15.00%	70.2	52.7	21%	28%
61	10	317	0.0315	20.00%	15.00%	63.4	47.6	16%	21%
62	1,627	7,595	0.2142	30.00%	35.00%	2,278.5	2,658.3	71%	61%
63	611	863	0.7080	20.00%	15.00%	172.6	129.5	354%	472%
64	21	213	0.0986	20.00%	15.00%	42.6	32.0	49%	66%
65	17	169	0.1006	30.00%	15.00%	50.7	25.4	34%	67%
66	17	144	0.1181	20.00%	15.00%	28.8	21.6	59%	79%
67	17	112	0.1518	20.00%	15.00%	22.4	16.8	76%	101%
68	15	74	0.2027	20.00%	15.00%	14.8	11.1	101%	135%
69	10	58	0.1724	20.00%	15.00%	11.6	8.7	86%	115%
70	9	37	0.2432	100.00%	100.00%	37.0	37.0	24%	24%
Subtotal	2,620	15,227				3,851.4	3,834.5	68%	68%
Other	29	137	0.2117	100.00%	100.00%	137.0	137.0	21%	21%
Total	2,649	15,364				3,988.4	3,971.5	66%	67%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	1	1	1.0000	40.00%	35.00%	0.4	0.4	250%	286%
43	3	6	0.5000	36.67%	31.67%	2.2	1.9	136%	158%
44	6	11	0.5455	36.36%	31.36%	4.0	3.5	150%	174%
45	3	9	0.3333	37.78%	32.78%	3.4	3.0	88%	102%
46	15	22	0.6818	34.55%	29.55%	7.6	6.5	197%	231%
47	16	28	0.5714	37.86%	32.86%	10.6	9.2	151%	174%
48	26	42	0.6190	38.57%	33.57%	16.2	14.1	160%	184%
49	38	56	0.6786	38.93%	33.93%	21.8	19.0	174%	200%
50	247	854	0.2892	38.85%	33.85%	331.8	289.1	74%	85%
51	109	270	0.4037	38.07%	33.07%	102.8	89.3	106%	122%
52	82	222	0.3694	38.02%	33.02%	84.4	73.3	97%	112%
53	65	199	0.3266	37.99%	32.99%	75.6	65.7	86%	99%
54	153	271	0.5646	32.99%	27.99%	89.4	75.9	171%	202%
55	1,070	3,526	0.3035	30.12%	25.12%	1,062.2	885.9	101%	121%
56	441	645	0.6837	31.07%	26.07%	200.4	168.2	220%	262%
57	587	7,691	0.0763	20.78%	15.78%	1,598.0	1,213.5	37%	48%
58	392	1,383	0.2834	23.09%	18.09%	319.4	250.3	123%	157%
59	362	1,215	0.2979	22.26%	17.26%	270.4	209.7	134%	173%
60	368	1,105	0.3330	21.43%	16.43%	236.8	181.6	155%	203%
61	484	1,147	0.4220	20.92%	15.92%	240.0	182.7	202%	265%
62	3,520	17,703	0.1988	30.67%	35.56%	5,430.0	6,295.3	65%	56%
63	694	1,200	0.5783	20.68%	15.68%	248.2	188.2	280%	369%
64	62	510	0.1216	20.31%	15.31%	103.6	78.1	60%	79%
65	54	390	0.1385	30.62%	15.41%	119.4	60.1	45%	90%
66	70	329	0.2128	20.73%	15.73%	68.2	51.8	103%	135%
67	56	250	0.2240	20.32%	15.32%	50.8	38.3	110%	146%
68	39	160	0.2438	20.13%	15.13%	32.2	24.2	121%	161%
69	25	117	0.2137	20.17%	15.17%	23.6	17.8	106%	141%
70	26	99	0.2626	100.00%	100.00%	99.0	99.0	26%	26%
Subtotal	9,014	39,461				10,852.4	10,595.0	83%	85%
Other	65	286	0.2273	100.00%	100.00%	286.0	286.0	23%	23%
Total	9,079	39,747				11,138.4	10,881.0	82%	83%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
41	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
42	1	1	1.0000	40.00%	35.00%	0.4	0.4	250%	286%
43	3	5	0.6000	40.00%	35.00%	2.0	1.8	150%	171%
44	4	9	0.4444	40.00%	35.00%	3.6	3.2	111%	127%
45	3	8	0.3750	40.00%	35.00%	3.2	2.8	94%	107%
46	11	16	0.6875	40.00%	35.00%	6.4	5.6	172%	196%
47	13	25	0.5200	40.00%	35.00%	10.0	8.8	130%	149%
48	24	39	0.6154	40.00%	35.00%	15.6	13.7	154%	176%
49	35	53	0.6604	40.00%	35.00%	21.2	18.6	165%	189%
50	210	805	0.2609	40.00%	35.00%	322.0	281.8	65%	75%
51	87	244	0.3566	40.00%	35.00%	97.6	85.4	89%	102%
52	63	200	0.3150	40.00%	35.00%	80.0	70.0	79%	90%
53	48	179	0.2682	40.00%	35.00%	71.6	62.7	67%	77%
54	62	176	0.3523	40.00%	35.00%	70.4	61.6	88%	101%
55	411	1,785	0.2303	40.00%	35.00%	714.0	624.8	58%	66%
56	153	357	0.4286	40.00%	35.00%	142.8	125.0	107%	122%
57	79	299	0.2642	40.00%	35.00%	119.6	104.7	66%	75%
58	71	214	0.3318	40.00%	35.00%	85.6	74.9	83%	95%
59	56	137	0.4088	40.00%	35.00%	54.8	48.0	102%	117%
60	38	79	0.4810	40.00%	35.00%	31.6	27.7	120%	137%
61	14	53	0.2642	40.00%	35.00%	21.2	18.6	66%	75%
62	81	397	0.2040	60.00%	60.00%	238.2	238.2	34%	34%
63	30	41	0.7317	40.00%	35.00%	16.4	14.4	183%	209%
64	0	8	0.0000	40.00%	35.00%	3.2	2.8	0%	0%
65	2	8	0.2500	60.00%	35.00%	4.8	2.8	42%	71%
66	5	12	0.4167	40.00%	35.00%	4.8	4.2	104%	119%
67	0	4	0.0000	40.00%	35.00%	1.6	1.4	0%	0%
68	0	1	0.0000	40.00%	35.00%	0.4	0.4	0%	0%
69	0	1	0.0000	40.00%	35.00%	0.4	0.4	0%	0%
70	1	5	0.2000	100.00%	100.00%	5.0	5.0	20%	20%
Subtotal	1,505	5,161				2,148.4	1,908.9	70%	79%
Other	0	7	0.0000	100.00%	100.00%	7.0	7.0	0%	0%
Total	1,505	5,168				2,155.4	1,915.9	70%	79%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
43	0	1	0.0000	20.00%	15.00%	0.2	0.2	0%	0%
44	2	2	1.0000	20.00%	15.00%	0.4	0.3	500%	667%
45	0	1	0.0000	20.00%	15.00%	0.2	0.2	0%	0%
46	4	6	0.6667	20.00%	15.00%	1.2	0.9	333%	444%
47	3	3	1.0000	20.00%	15.00%	0.6	0.5	500%	667%
48	2	3	0.6667	20.00%	15.00%	0.6	0.5	333%	444%
49	3	3	1.0000	20.00%	15.00%	0.6	0.5	500%	667%
50	37	49	0.7551	20.00%	15.00%	9.8	7.4	378%	503%
51	22	26	0.8462	20.00%	15.00%	5.2	3.9	423%	564%
52	19	22	0.8636	20.00%	15.00%	4.4	3.3	432%	576%
53	17	20	0.8500	20.00%	15.00%	4.0	3.0	425%	567%
54	91	95	0.9579	20.00%	15.00%	19.0	14.3	479%	639%
55	659	1,741	0.3785	20.00%	15.00%	348.2	261.2	189%	252%
56	288	288	1.0000	20.00%	15.00%	57.6	43.2	500%	667%
57	508	7,392	0.0687	20.00%	15.00%	1,478.4	1,108.8	34%	46%
58	321	1,169	0.2746	20.00%	15.00%	233.8	175.4	137%	183%
59	306	1,078	0.2839	20.00%	15.00%	215.6	161.7	142%	189%
60	330	1,026	0.3216	20.00%	15.00%	205.2	153.9	161%	214%
61	470	1,094	0.4296	20.00%	15.00%	218.8	164.1	215%	286%
62	3,439	17,306	0.1987	30.00%	35.00%	5,191.8	6,057.1	66%	57%
63	664	1,159	0.5729	20.00%	15.00%	231.8	173.9	286%	382%
64	62	502	0.1235	20.00%	15.00%	100.4	75.3	62%	82%
65	52	382	0.1361	30.00%	15.00%	114.6	57.3	45%	91%
66	65	317	0.2050	20.00%	15.00%	63.4	47.6	103%	137%
67	56	246	0.2276	20.00%	15.00%	49.2	36.9	114%	152%
68	39	159	0.2453	20.00%	15.00%	31.8	23.9	123%	164%
69	25	116	0.2155	20.00%	15.00%	23.2	17.4	108%	144%
70	25	94	0.2660	100.00%	100.00%	94.0	94.0	27%	27%
Subtotal	7,509	34,300				8,704.0	8,686.1	86%	86%
Other	65	279	0.2330	100.00%	100.00%	279.0	279.0	23%	23%
Total	7,574	34,579				8,983.0	8,965.1	84%	84%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 5A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
46	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
47	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
48	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
49	6	15	0.4000	20.00%	20.00%	3.0	3.0	200%	200%
50	3	7	0.4286	19.29%	19.29%	1.4	1.4	222%	222%
51	25	242	0.1033	19.92%	19.92%	48.2	48.2	52%	52%
52	13	71	0.1831	19.79%	19.79%	14.1	14.1	93%	93%
53	7	59	0.1186	19.83%	19.83%	11.7	11.7	60%	60%
54	5	51	0.0980	19.90%	19.90%	10.2	10.2	49%	49%
55	12	56	0.2143	19.64%	19.64%	11.0	11.0	109%	109%
56	55	559	0.0984	19.49%	19.49%	109.0	109.0	50%	50%
57	49	122	0.4016	19.71%	19.71%	24.1	24.1	204%	204%
58	125	3,694	0.0338	15.14%	15.14%	559.4	559.4	22%	22%
59	42	453	0.0927	15.56%	15.56%	70.5	70.5	60%	60%
60	17	408	0.0417	15.50%	15.50%	63.3	63.3	27%	27%
61	18	358	0.0503	15.43%	15.43%	55.3	55.3	33%	33%
62	13	303	0.0429	25.00%	25.00%	75.8	75.8	17%	17%
63	646	5,664	0.1141	15.13%	15.13%	857.0	857.0	75%	75%
64	391	621	0.6296	15.20%	15.20%	94.4	94.4	414%	414%
65	30	203	0.1478	25.00%	25.00%	50.8	50.8	59%	59%
66	22	144	0.1528	15.00%	15.00%	21.6	21.6	102%	102%
67	20	116	0.1724	15.09%	15.09%	17.5	17.5	114%	114%
68	13	85	0.1529	15.18%	15.18%	12.9	12.9	101%	101%
69	11	55	0.2000	15.18%	15.18%	8.4	8.4	132%	132%
70	7	39	0.1795	100.00%	100.00%	39.0	39.0	18%	18%
Subtotal	1,530	13,336				2,160.3	2,160.3	71%	71%
Other	19	123	0.1545	100.00%	100.00%	123.0	123.0	15%	15%
Total	1,549	13,459				2,283.3	2,283.3	68%	68%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
45	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
46	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
47	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
48	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
49	6	15	0.4000	20.00%	20.00%	3.0	3.0	200%	200%
50	2	6	0.3333	20.00%	20.00%	1.2	1.2	167%	167%
51	25	238	0.1050	20.00%	20.00%	47.6	47.6	53%	53%
52	13	68	0.1912	20.00%	20.00%	13.6	13.6	96%	96%
53	7	57	0.1228	20.00%	20.00%	11.4	11.4	61%	61%
54	5	50	0.1000	20.00%	20.00%	10.0	10.0	50%	50%
55	12	52	0.2308	20.00%	20.00%	10.4	10.4	115%	115%
56	47	502	0.0936	20.00%	20.00%	100.4	100.4	47%	47%
57	42	115	0.3652	20.00%	20.00%	23.0	23.0	183%	183%
58	21	106	0.1981	20.00%	20.00%	21.2	21.2	99%	99%
59	9	51	0.1765	20.00%	20.00%	10.2	10.2	88%	88%
60	5	41	0.1220	20.00%	20.00%	8.2	8.2	61%	61%
61	4	31	0.1290	20.00%	20.00%	6.2	6.2	65%	65%
62	3	17	0.1765	25.00%	25.00%	4.3	4.3	71%	71%
63	22	147	0.1497	20.00%	20.00%	29.4	29.4	75%	75%
64	20	25	0.8000	20.00%	20.00%	5.0	5.0	400%	400%
65	3	5	0.6000	25.00%	25.00%	1.3	1.3	240%	240%
66	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
67	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
68	1	3	0.3333	20.00%	20.00%	0.6	0.6	167%	167%
69	2	2	1.0000	20.00%	20.00%	0.4	0.4	500%	500%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	250	1,545				310.9	310.9	80%	80%
Other	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Total	251	1,546				311.9	311.9	80%	80%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
51	0	4	0.0000	15.00%	15.00%	0.6	0.6	0%	0%
52	0	3	0.0000	15.00%	15.00%	0.5	0.5	0%	0%
53	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
54	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
55	0	4	0.0000	15.00%	15.00%	0.6	0.6	0%	0%
56	8	57	0.1404	15.00%	15.00%	8.6	8.6	94%	94%
57	7	7	1.0000	15.00%	15.00%	1.1	1.1	667%	667%
58	104	3,588	0.0290	15.00%	15.00%	538.2	538.2	19%	19%
59	33	402	0.0821	15.00%	15.00%	60.3	60.3	55%	55%
60	12	367	0.0327	15.00%	15.00%	55.1	55.1	22%	22%
61	14	327	0.0428	15.00%	15.00%	49.1	49.1	29%	29%
62	10	286	0.0350	25.00%	25.00%	71.5	71.5	14%	14%
63	624	5,517	0.1131	15.00%	15.00%	827.6	827.6	75%	75%
64	371	596	0.6225	15.00%	15.00%	89.4	89.4	415%	415%
65	27	198	0.1364	25.00%	25.00%	49.5	49.5	55%	55%
66	22	144	0.1528	15.00%	15.00%	21.6	21.6	102%	102%
67	20	114	0.1754	15.00%	15.00%	17.1	17.1	117%	117%
68	12	82	0.1463	15.00%	15.00%	12.3	12.3	98%	98%
69	9	53	0.1698	15.00%	15.00%	8.0	8.0	113%	113%
70	6	38	0.1579	100.00%	100.00%	38.0	38.0	16%	16%
Subtotal	1,280	11,791				1,849.4	1,849.4	69%	69%
Other	18	122	0.1475	100.00%	100.00%	122.0	122.0	15%	15%
Total	1,298	11,913				1,971.4	1,971.4	66%	66%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 5A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
45	0	4	0.0000	18.75%	18.75%	0.8	0.8	0%	0%
46	1	4	0.2500	20.00%	20.00%	0.8	0.8	125%	125%
47	2	7	0.2857	19.29%	19.29%	1.4	1.4	148%	148%
48	3	14	0.2143	18.93%	18.93%	2.7	2.7	113%	113%
49	8	25	0.3200	19.60%	19.60%	4.9	4.9	163%	163%
50	4	20	0.2000	19.25%	19.25%	3.9	3.9	104%	104%
51	74	514	0.1440	19.82%	19.82%	101.9	101.9	73%	73%
52	25	163	0.1534	19.82%	19.82%	32.3	32.3	77%	77%
53	19	132	0.1439	19.85%	19.85%	26.2	26.2	73%	73%
54	21	122	0.1721	19.63%	19.63%	24.0	24.0	88%	88%
55	22	111	0.1982	19.68%	19.68%	21.9	21.9	101%	101%
56	441	2,640	0.1670	17.30%	17.30%	456.7	456.7	97%	97%
57	64	227	0.2819	19.67%	19.67%	44.7	44.7	143%	143%
58	227	5,890	0.0385	15.17%	15.17%	893.6	893.6	25%	25%
59	75	959	0.0782	15.68%	15.68%	150.4	150.4	50%	50%
60	35	791	0.0442	15.47%	15.47%	122.4	122.4	29%	29%
61	37	698	0.0530	15.27%	15.27%	106.6	106.6	35%	35%
62	42	614	0.0684	25.00%	25.00%	153.5	153.5	27%	27%
63	1,839	12,978	0.1417	15.10%	15.10%	1,960.0	1,960.0	94%	94%
64	413	857	0.4819	15.18%	15.18%	130.1	130.1	318%	318%
65	60	450	0.1333	25.00%	25.00%	112.5	112.5	53%	53%
66	56	323	0.1734	15.05%	15.05%	48.6	48.6	115%	115%
67	34	229	0.1485	15.13%	15.13%	34.7	34.7	98%	98%
68	27	172	0.1570	15.12%	15.12%	26.0	26.0	104%	104%
69	19	113	0.1681	15.09%	15.09%	17.1	17.1	111%	111%
70	15	78	0.1923	100.00%	100.00%	78.0	78.0	19%	19%
Subtotal	3,563	28,136				4,555.3	4,555.3	78%	78%
Other	36	260	0.1385	100.00%	100.00%	260.0	260.0	14%	14%
Total	3,599	28,396				4,815.3	4,815.3	75%	75%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
45	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
46	1	4	0.2500	20.00%	20.00%	0.8	0.8	125%	125%
47	1	6	0.1667	20.00%	20.00%	1.2	1.2	83%	83%
48	3	11	0.2727	20.00%	20.00%	2.2	2.2	136%	136%
49	8	23	0.3478	20.00%	20.00%	4.6	4.6	174%	174%
50	3	17	0.1765	20.00%	20.00%	3.4	3.4	88%	88%
51	63	496	0.1270	20.00%	20.00%	99.2	99.2	64%	64%
52	22	157	0.1401	20.00%	20.00%	31.4	31.4	70%	70%
53	18	128	0.1406	20.00%	20.00%	25.6	25.6	70%	70%
54	14	113	0.1239	20.00%	20.00%	22.6	22.6	62%	62%
55	19	104	0.1827	20.00%	20.00%	20.8	20.8	91%	91%
56	141	1,214	0.1161	20.00%	20.00%	242.8	242.8	58%	58%
57	50	212	0.2358	20.00%	20.00%	42.4	42.4	118%	118%
58	38	202	0.1881	20.00%	20.00%	40.4	40.4	94%	94%
59	25	130	0.1923	20.00%	20.00%	26.0	26.0	96%	96%
60	10	75	0.1333	20.00%	20.00%	15.0	15.0	67%	67%
61	6	38	0.1579	20.00%	20.00%	7.6	7.6	79%	79%
62	6	32	0.1875	25.00%	25.00%	8.0	8.0	75%	75%
63	42	265	0.1585	20.00%	20.00%	53.0	53.0	79%	79%
64	21	30	0.7000	20.00%	20.00%	6.0	6.0	350%	350%
65	3	9	0.3333	25.00%	25.00%	2.3	2.3	133%	133%
66	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
67	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
68	1	4	0.2500	20.00%	20.00%	0.8	0.8	125%	125%
69	2	2	1.0000	20.00%	20.00%	0.4	0.4	500%	500%
70	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Subtotal	498	3,286				660.9	660.9	75%	75%
Other	1	6	0.1667	100.00%	100.00%	6.0	6.0	17%	17%
Total	499	3,292				666.9	666.9	75%	75%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 5C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
45	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
48	0	3	0.0000	15.00%	15.00%	0.5	0.5	0%	0%
49	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
50	1	3	0.3333	15.00%	15.00%	0.5	0.5	222%	222%
51	11	18	0.6111	15.00%	15.00%	2.7	2.7	407%	407%
52	3	6	0.5000	15.00%	15.00%	0.9	0.9	333%	333%
53	1	4	0.2500	15.00%	15.00%	0.6	0.6	167%	167%
54	7	9	0.7778	15.00%	15.00%	1.4	1.4	519%	519%
55	3	7	0.4286	15.00%	15.00%	1.1	1.1	286%	286%
56	300	1,426	0.2104	15.00%	15.00%	213.9	213.9	140%	140%
57	14	15	0.9333	15.00%	15.00%	2.3	2.3	622%	622%
58	189	5,688	0.0332	15.00%	15.00%	853.2	853.2	22%	22%
59	50	829	0.0603	15.00%	15.00%	124.4	124.4	40%	40%
60	25	716	0.0349	15.00%	15.00%	107.4	107.4	23%	23%
61	31	660	0.0470	15.00%	15.00%	99.0	99.0	31%	31%
62	36	582	0.0619	25.00%	25.00%	145.5	145.5	25%	25%
63	1,797	12,713	0.1414	15.00%	15.00%	1,907.0	1,907.0	94%	94%
64	392	827	0.4740	15.00%	15.00%	124.1	124.1	316%	316%
65	57	441	0.1293	25.00%	25.00%	110.3	110.3	52%	52%
66	56	320	0.1750	15.00%	15.00%	48.0	48.0	117%	117%
67	34	223	0.1525	15.00%	15.00%	33.5	33.5	102%	102%
68	26	168	0.1548	15.00%	15.00%	25.2	25.2	103%	103%
69	17	111	0.1532	15.00%	15.00%	16.7	16.7	102%	102%
70	14	76	0.1842	100.00%	100.00%	76.0	76.0	18%	18%
Subtotal	3,065	24,850				3,894.4	3,894.4	79%	79%
Other	35	254	0.1378	100.00%	100.00%	254.0	254.0	14%	14%
Total	3,100	25,104				4,148.4	4,148.4	75%	75%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
47	1	4	0.2500	15.00%	15.00%	0.6	0.6	167%	167%
48	3	6	0.5000	15.00%	15.00%	0.9	0.9	333%	333%
49	1	7	0.1429	15.00%	15.00%	1.1	1.1	95%	95%
50	4	18	0.2222	15.00%	15.00%	2.7	2.7	148%	148%
51	5	19	0.2632	15.00%	15.00%	2.9	2.9	175%	175%
52	26	230	0.1130	14.96%	14.96%	34.4	34.4	76%	76%
53	34	253	0.1344	14.90%	14.90%	37.7	37.7	90%	90%
54	34	259	0.1313	14.85%	14.85%	38.5	38.5	88%	88%
55	52	261	0.1992	14.87%	14.87%	38.8	38.8	134%	134%
56	39	242	0.1612	14.81%	14.81%	35.9	35.9	109%	109%
57	98	697	0.1406	14.30%	14.30%	99.7	99.7	98%	98%
58	102	735	0.1388	13.86%	13.86%	101.9	101.9	100%	100%
59	182	3,600	0.0506	10.76%	10.76%	387.3	387.3	47%	47%
60	217	3,472	0.0625	10.70%	10.70%	371.6	371.6	58%	58%
61	203	3,307	0.0614	15.00%	15.00%	496.1	496.1	41%	41%
62	321	3,012	0.1066	20.51%	20.51%	617.7	617.7	52%	52%
63	276	2,678	0.1031	15.43%	15.43%	413.2	413.2	67%	67%
64	674	6,560	0.1027	15.19%	15.19%	996.5	996.5	68%	68%
65	970	5,668	0.1711	20.15%	20.15%	1,142.1	1,142.1	85%	85%
66	977	4,524	0.2160	15.13%	15.13%	684.6	684.6	143%	143%
67	699	3,370	0.2074	15.12%	15.12%	509.5	509.5	137%	137%
68	534	2,646	0.2018	15.10%	15.10%	399.6	399.6	134%	134%
69	362	2,056	0.1761	15.10%	15.10%	310.5	310.5	117%	117%
70	331	1,649	0.2007	100.00%	100.00%	1,649.0	1,649.0	20%	20%
Subtotal	6,146	45,276				8,372.6	8,372.6	73%	73%
Other	1,172	6,048	0.1938	100.00%	100.00%	6,048.0	6,048.0	19%	19%
Total	7,318	51,324				14,420.6	14,420.6	51%	51%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
47	1	4	0.2500	15.00%	15.00%	0.6	0.6	167%	167%
48	3	6	0.5000	15.00%	15.00%	0.9	0.9	333%	333%
49	1	7	0.1429	15.00%	15.00%	1.1	1.1	95%	95%
50	4	18	0.2222	15.00%	15.00%	2.7	2.7	148%	148%
51	5	19	0.2632	15.00%	15.00%	2.9	2.9	175%	175%
52	26	228	0.1140	15.00%	15.00%	34.2	34.2	76%	76%
53	34	248	0.1371	15.00%	15.00%	37.2	37.2	91%	91%
54	32	251	0.1275	15.00%	15.00%	37.7	37.7	85%	85%
55	49	254	0.1929	15.00%	15.00%	38.1	38.1	129%	129%
56	36	233	0.1545	15.00%	15.00%	35.0	35.0	103%	103%
57	76	599	0.1269	15.00%	15.00%	89.9	89.9	85%	85%
58	84	567	0.1481	15.00%	15.00%	85.1	85.1	99%	99%
59	63	545	0.1156	15.00%	15.00%	81.8	81.8	77%	77%
60	59	487	0.1211	15.00%	15.00%	73.1	73.1	81%	81%
61	44	407	0.1081	15.00%	15.00%	61.1	61.1	72%	72%
62	52	306	0.1699	25.00%	25.00%	76.5	76.5	68%	68%
63	38	229	0.1659	20.00%	20.00%	45.8	45.8	83%	83%
64	40	249	0.1606	20.00%	20.00%	49.8	49.8	80%	80%
65	38	170	0.2235	25.00%	25.00%	42.5	42.5	89%	89%
66	26	119	0.2185	20.00%	20.00%	23.8	23.8	109%	109%
67	18	80	0.2250	20.00%	20.00%	16.0	16.0	113%	113%
68	9	54	0.1667	20.00%	20.00%	10.8	10.8	83%	83%
69	8	41	0.1951	20.00%	20.00%	8.2	8.2	98%	98%
70	7	29	0.2414	100.00%	100.00%	29.0	29.0	24%	24%
Subtotal	754	5,153				883.8	883.8	85%	85%
Other	10	60	0.1667	100.00%	100.00%	60.0	60.0	17%	17%
Total	764	5,213				943.8	943.8	81%	81%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
44	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
45	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
46	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
47	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
48	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
49	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
50	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
51	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
52	0	2	0.0000	10.00%	10.00%	0.2	0.2	0%	0%
53	0	5	0.0000	10.00%	10.00%	0.5	0.5	0%	0%
54	2	8	0.2500	10.00%	10.00%	0.8	0.8	250%	250%
55	3	7	0.4286	10.00%	10.00%	0.7	0.7	429%	429%
56	3	9	0.3333	10.00%	10.00%	0.9	0.9	333%	333%
57	22	98	0.2245	10.00%	10.00%	9.8	9.8	224%	224%
58	18	168	0.1071	10.00%	10.00%	16.8	16.8	107%	107%
59	119	3,055	0.0390	10.00%	10.00%	305.5	305.5	39%	39%
60	158	2,985	0.0529	10.00%	10.00%	298.5	298.5	53%	53%
61	159	2,900	0.0548	15.00%	15.00%	435.0	435.0	37%	37%
62	269	2,706	0.0994	20.00%	20.00%	541.2	541.2	50%	50%
63	238	2,449	0.0972	15.00%	15.00%	367.4	367.4	65%	65%
64	634	6,311	0.1005	15.00%	15.00%	946.7	946.7	67%	67%
65	932	5,498	0.1695	20.00%	20.00%	1,099.6	1,099.6	85%	85%
66	951	4,405	0.2159	15.00%	15.00%	660.8	660.8	144%	144%
67	681	3,290	0.2070	15.00%	15.00%	493.5	493.5	138%	138%
68	525	2,592	0.2025	15.00%	15.00%	388.8	388.8	135%	135%
69	354	2,015	0.1757	15.00%	15.00%	302.3	302.3	117%	117%
70	324	1,620	0.2000	100.00%	100.00%	1,620.0	1,620.0	20%	20%
Subtotal	5,392	40,123				7,488.8	7,488.8	72%	72%
Other	1,162	5,988	0.1941	100.00%	100.00%	5,988.0	5,988.0	19%	19%
Total	6,554	46,111				13,476.8	13,476.8	49%	49%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	2	0.0000	10.00%	10.00%	0.2	0.2	0%	0%
46	0	4	0.0000	15.00%	15.00%	0.6	0.6	0%	0%
47	1	6	0.1667	15.00%	15.00%	0.9	0.9	111%	111%
48	4	11	0.3636	15.00%	15.00%	1.7	1.7	242%	242%
49	6	16	0.3750	14.38%	14.38%	2.3	2.3	261%	261%
50	8	30	0.2667	14.67%	14.67%	4.4	4.4	182%	182%
51	9	40	0.2250	14.88%	14.88%	6.0	6.0	151%	151%
52	54	418	0.1292	14.87%	14.87%	62.2	62.2	87%	87%
53	56	435	0.1287	14.87%	14.87%	64.7	64.7	87%	87%
54	54	419	0.1289	14.86%	14.86%	62.3	62.3	87%	87%
55	80	411	0.1946	14.85%	14.85%	61.1	61.1	131%	131%
56	56	357	0.1569	14.85%	14.85%	53.0	53.0	106%	106%
57	346	2,617	0.1322	12.27%	12.27%	321.0	321.0	108%	108%
58	316	2,527	0.1250	12.08%	12.08%	305.2	305.2	104%	104%
59	440	6,769	0.0650	10.69%	10.69%	723.6	723.6	61%	61%
60	421	6,358	0.0662	10.62%	10.62%	675.1	675.1	62%	62%
61	390	5,893	0.0662	15.00%	15.00%	884.0	884.0	44%	44%
62	631	5,245	0.1203	20.44%	20.44%	1,072.3	1,072.3	59%	59%
63	492	4,435	0.1109	15.37%	15.37%	681.5	681.5	72%	72%
64	1,537	13,579	0.1132	15.14%	15.14%	2,056.3	2,056.3	75%	75%
65	1,862	11,482	0.1622	20.12%	20.12%	2,309.8	2,309.8	81%	81%
66	1,856	9,161	0.2026	15.10%	15.10%	1,383.2	1,383.2	134%	134%
67	1,227	6,919	0.1773	15.09%	15.09%	1,043.8	1,043.8	118%	118%
68	951	5,455	0.1743	15.07%	15.07%	822.2	822.2	116%	116%
69	670	4,293	0.1561	15.07%	15.07%	646.9	646.9	104%	104%
70	592	3,411	0.1736	100.00%	100.00%	3,411.0	3,411.0	17%	17%
Subtotal	12,060	90,294				16,655.1	16,655.1	72%	72%
Other	2,082	12,354	0.1685	100.00%	100.00%	12,354.0	12,354.0	17%	17%
Total	14,142	102,648				29,009.1	29,009.1	49%	49%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	4	0.0000	15.00%	15.00%	0.6	0.6	0%	0%
47	1	6	0.1667	15.00%	15.00%	0.9	0.9	111%	111%
48	4	11	0.3636	15.00%	15.00%	1.7	1.7	242%	242%
49	5	14	0.3571	15.00%	15.00%	2.1	2.1	238%	238%
50	8	28	0.2857	15.00%	15.00%	4.2	4.2	190%	190%
51	9	39	0.2308	15.00%	15.00%	5.9	5.9	154%	154%
52	48	407	0.1179	15.00%	15.00%	61.1	61.1	79%	79%
53	52	424	0.1226	15.00%	15.00%	63.6	63.6	82%	82%
54	50	407	0.1229	15.00%	15.00%	61.1	61.1	82%	82%
55	74	399	0.1855	15.00%	15.00%	59.9	59.9	124%	124%
56	51	346	0.1474	15.00%	15.00%	51.9	51.9	98%	98%
57	147	1,186	0.1239	15.00%	15.00%	177.9	177.9	83%	83%
58	133	1,050	0.1267	15.00%	15.00%	157.5	157.5	84%	84%
59	111	933	0.1190	15.00%	15.00%	140.0	140.0	79%	79%
60	91	786	0.1158	15.00%	15.00%	117.9	117.9	77%	77%
61	67	633	0.1058	15.00%	15.00%	95.0	95.0	71%	71%
62	71	466	0.1524	25.00%	25.00%	116.5	116.5	61%	61%
63	53	325	0.1631	20.00%	20.00%	65.0	65.0	82%	82%
64	56	389	0.1440	20.00%	20.00%	77.8	77.8	72%	72%
65	50	268	0.1866	25.00%	25.00%	67.0	67.0	75%	75%
66	37	181	0.2044	20.00%	20.00%	36.2	36.2	102%	102%
67	30	118	0.2542	20.00%	20.00%	23.6	23.6	127%	127%
68	10	79	0.1266	20.00%	20.00%	15.8	15.8	63%	63%
69	11	59	0.1864	20.00%	20.00%	11.8	11.8	93%	93%
70	9	39	0.2308	100.00%	100.00%	39.0	39.0	23%	23%
Subtotal	1,179	8,598				1,453.8	1,453.8	81%	81%
Other	17	101	0.1683	100.00%	100.00%	101.0	101.0	17%	17%
Total	1,196	8,699				1,554.8	1,554.8	77%	77%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
44	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
45	0	2	0.0000	10.00%	10.00%	0.2	0.2	0%	0%
46	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
47	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
48	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
49	1	2	0.5000	10.00%	10.00%	0.2	0.2	500%	500%
50	0	2	0.0000	10.00%	10.00%	0.2	0.2	0%	0%
51	0	1	0.0000	10.00%	10.00%	0.1	0.1	0%	0%
52	6	11	0.5455	10.00%	10.00%	1.1	1.1	545%	545%
53	4	11	0.3636	10.00%	10.00%	1.1	1.1	364%	364%
54	4	12	0.3333	10.00%	10.00%	1.2	1.2	333%	333%
55	6	12	0.5000	10.00%	10.00%	1.2	1.2	500%	500%
56	5	11	0.4545	10.00%	10.00%	1.1	1.1	455%	455%
57	199	1,431	0.1391	10.00%	10.00%	143.1	143.1	139%	139%
58	183	1,477	0.1239	10.00%	10.00%	147.7	147.7	124%	124%
59	329	5,836	0.0564	10.00%	10.00%	583.6	583.6	56%	56%
60	330	5,572	0.0592	10.00%	10.00%	557.2	557.2	59%	59%
61	323	5,260	0.0614	15.00%	15.00%	789.0	789.0	41%	41%
62	560	4,779	0.1172	20.00%	20.00%	955.8	955.8	59%	59%
63	439	4,110	0.1068	15.00%	15.00%	616.5	616.5	71%	71%
64	1,481	13,190	0.1123	15.00%	15.00%	1,978.5	1,978.5	75%	75%
65	1,812	11,214	0.1616	20.00%	20.00%	2,242.8	2,242.8	81%	81%
66	1,819	8,980	0.2026	15.00%	15.00%	1,347.0	1,347.0	135%	135%
67	1,197	6,801	0.1760	15.00%	15.00%	1,020.2	1,020.2	117%	117%
68	941	5,376	0.1750	15.00%	15.00%	806.4	806.4	117%	117%
69	659	4,234	0.1556	15.00%	15.00%	635.1	635.1	104%	104%
70	583	3,372	0.1729	100.00%	100.00%	3,372.0	3,372.0	17%	17%
Subtotal	10,881	81,696				15,201.3	15,201.3	72%	72%
Other	2,065	12,253	0.1685	100.00%	100.00%	12,253.0	12,253.0	17%	17%
Total	12,946	93,949				27,454.3	27,454.3	47%	47%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH UNREDUCED SERVICE  
TOTAL - MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 6D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements (3)	Expected Retirements (4)	Actual / Expected (5)	Retirement Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	11,389	2,315	4,580.0	51%	20.33%	40.21%
2005	12,206	1,404	5,029.4	28%	11.50%	41.20%
2006	14,562	2,463	5,985.9	41%	16.91%	41.11%
2007	15,882	2,939	6,484.5	45%	18.51%	40.83%
2008	16,531	2,830	6,802.4	42%	17.12%	41.15%
2009	17,808	2,625	7,554.8	35%	14.74%	42.42%
2010	19,226	2,849	8,297.5	34%	14.82%	43.16%
2011	20,311	3,606	8,651.6	42%	17.75%	42.60%
2012	21,004	3,019	8,986.1	34%	14.37%	42.78%
2013	21,872	2,770	9,301.6	30%	12.66%	42.53%
Total	170,791	26,820	71,673.7	37%	15.70%	41.97%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	425	10,377	0.0410	2.00%	3.00%	207.5	311.3	205%	137%
56	391	10,141	0.0386	2.00%	3.00%	202.8	304.2	193%	129%
57	402	9,746	0.0412	2.00%	3.00%	194.9	292.4	206%	137%
58	404	9,355	0.0432	2.00%	3.00%	187.1	280.7	216%	144%
59	400	8,928	0.0448	3.00%	4.00%	267.8	357.1	149%	112%
60	485	8,534	0.0568	4.00%	5.00%	341.4	426.7	142%	114%
61	512	8,036	0.0637	5.00%	6.00%	401.8	482.2	127%	106%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	3,019	65,117				1,803.4	2,454.6	167%	123%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	3,019	65,117				1,803.4	2,454.6	167%	123%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	588	25,321	0.0232	2.00%	3.00%	506.4	759.6	116%	77%
56	549	24,397	0.0225	2.00%	3.00%	487.9	731.9	113%	75%
57	524	23,482	0.0223	2.00%	3.00%	469.6	704.5	112%	74%
58	542	22,180	0.0244	2.00%	3.00%	443.6	665.4	122%	81%
59	492	20,823	0.0236	3.00%	4.00%	624.7	832.9	79%	59%
60	559	19,535	0.0286	4.00%	5.00%	781.4	976.8	72%	57%
61	577	18,040	0.0320	5.00%	6.00%	902.0	1,082.4	64%	53%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	3,831	153,778				4,215.7	5,753.5	91%	67%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	3,831	153,778				4,215.7	5,753.5	91%	67%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	13,282	94	356.2	26%	0.71%	2.68%
2005	14,071	95	378.1	25%	0.68%	2.69%
2006	14,716	109	396.3	28%	0.74%	2.69%
2007	15,230	208	414.9	50%	1.37%	2.72%
2008	15,588	128	431.5	30%	0.82%	2.77%
2009	15,774	178	435.3	41%	1.13%	2.76%
2010	16,373	652	451.3	144%	3.98%	2.76%
2011	16,375	926	452.4	205%	5.65%	2.76%
2012	16,180	583	446.3	131%	3.60%	2.76%
2013	16,369	1,038	449.3	231%	6.34%	2.75%
Total	153,958	4,011	4,211.7	95%	2.61%	2.74%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	65	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	182	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
22	0	394	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
23	0	711	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
24	0	1,177	0.00000	0.040%	0.040%	0.5	0.5	0%	0%
25	0	1,612	0.00000	0.040%	0.040%	0.6	0.6	0%	0%
26	1	1,968	0.00051	0.044%	0.040%	0.9	0.8	115%	127%
27	0	2,341	0.00000	0.048%	0.040%	1.1	0.9	0%	0%
28	0	2,603	0.00000	0.052%	0.044%	1.4	1.1	0%	0%
29	2	2,725	0.00073	0.056%	0.048%	1.5	1.3	131%	153%
30	0	3,004	0.00000	0.060%	0.052%	1.8	1.6	0%	0%
31	2	3,178	0.00063	0.064%	0.056%	2.0	1.8	98%	112%
32	2	3,330	0.00060	0.068%	0.060%	2.3	2.0	88%	100%
33	3	3,437	0.00087	0.072%	0.064%	2.5	2.2	121%	136%
34	1	3,467	0.00029	0.076%	0.068%	2.6	2.4	38%	42%
35	4	3,554	0.00113	0.080%	0.072%	2.8	2.6	141%	156%
36	0	3,571	0.00000	0.084%	0.076%	3.0	2.7	0%	0%
37	1	3,743	0.00027	0.088%	0.080%	3.3	3.0	30%	33%
38	6	3,925	0.00153	0.092%	0.084%	3.6	3.3	166%	182%
39	2	4,256	0.00047	0.096%	0.088%	4.1	3.7	49%	53%
40	0	4,555	0.00000	0.100%	0.092%	4.6	4.2	0%	0%
41	2	4,930	0.00041	0.110%	0.096%	5.4	4.7	37%	42%
42	6	5,320	0.00113	0.120%	0.100%	6.4	5.3	94%	113%
43	8	5,561	0.00144	0.130%	0.110%	7.2	6.1	111%	131%
44	9	5,920	0.00152	0.140%	0.120%	8.3	7.1	109%	127%
45	11	6,338	0.00174	0.150%	0.130%	9.5	8.2	116%	134%
46	7	6,909	0.00101	0.160%	0.140%	11.1	9.7	63%	72%
47	9	7,447	0.00121	0.170%	0.150%	12.7	11.2	71%	81%
48	7	7,801	0.00090	0.180%	0.160%	14.0	12.5	50%	56%
49	11	8,259	0.00133	0.190%	0.170%	15.7	14.0	70%	78%
50	10	8,476	0.00118	0.200%	0.180%	17.0	15.3	59%	66%
51	9	8,500	0.00106	0.220%	0.190%	18.7	16.2	48%	56%
52	15	8,597	0.00174	0.240%	0.200%	20.6	17.2	73%	87%
53	24	8,562	0.00280	0.260%	0.220%	22.3	18.8	108%	127%
54	12	8,494	0.00141	0.280%	0.240%	23.8	20.4	50%	59%
55	17	8,520	0.00200	0.300%	0.260%	25.6	22.2	67%	77%
56	15	8,131	0.00184	0.320%	0.280%	26.0	22.8	58%	66%
57	25	7,756	0.00322	0.340%	0.300%	26.4	23.3	95%	107%
58	19	7,355	0.00258	0.360%	0.320%	26.5	23.5	72%	81%
59	19	6,903	0.00275	0.380%	0.340%	26.2	23.5	72%	81%
60	21	6,543	0.00321	0.400%	0.360%	26.2	23.6	80%	89%
61	20	6,149	0.00325	0.420%	0.380%	25.8	23.4	77%	86%
62	22	5,588	0.00394	0.440%	0.400%	24.6	22.4	89%	98%
63	18	4,485	0.00401	0.460%	0.420%	20.6	18.8	87%	96%
64	14	3,621	0.00387	0.480%	0.440%	17.4	15.9	81%	88%
65	12	2,905	0.00413	0.500%	0.460%	14.5	13.4	83%	90%
66	6	2,359	0.00254	0.540%	0.480%	12.7	11.3	47%	53%
67	5	1,806	0.00277	0.580%	0.500%	10.5	9.0	48%	55%
68	9	1,439	0.00625	0.620%	0.540%	8.9	7.8	101%	116%
69	7	1,178	0.00594	0.660%	0.580%	7.8	6.8	90%	102%
70	5	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	7	0	N/A	N/A	N/A	0	0	0%	0%
73	2	0	N/A	N/A	N/A	0	0	0%	0%
74	4	0	N/A	N/A	N/A	0	0	0%	0%
Other	19	0	N/A	0.000%	N/A	0	0	0%	0%
Total	430	229,650				531.4	469.5	81%	92%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	26	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
21	0	97	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
22	0	189	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
23	0	474	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
24	1	980	0.00102	0.030%	0.030%	0.3	0.3	340%	340%
25	0	1,607	0.00000	0.030%	0.030%	0.5	0.5	0%	0%
26	0	2,283	0.00000	0.032%	0.030%	0.7	0.7	0%	0%
27	0	2,940	0.00000	0.034%	0.030%	1.0	0.9	0%	0%
28	0	3,477	0.00000	0.036%	0.032%	1.3	1.1	0%	0%
29	1	3,974	0.00025	0.038%	0.034%	1.5	1.4	66%	74%
30	0	4,321	0.00000	0.040%	0.036%	1.7	1.6	0%	0%
31	1	4,590	0.00022	0.042%	0.038%	1.9	1.7	52%	57%
32	3	4,793	0.00063	0.044%	0.040%	2.1	1.9	142%	156%
33	2	5,024	0.00040	0.046%	0.042%	2.3	2.1	87%	95%
34	0	5,253	0.00000	0.048%	0.044%	2.5	2.3	0%	0%
35	1	5,350	0.00019	0.050%	0.046%	2.7	2.5	37%	41%
36	2	5,372	0.00037	0.052%	0.048%	2.8	2.6	72%	78%
37	1	5,526	0.00018	0.054%	0.050%	3.0	2.8	34%	36%
38	2	5,577	0.00036	0.056%	0.052%	3.1	2.9	64%	69%
39	2	5,963	0.00034	0.058%	0.054%	3.5	3.2	58%	62%
40	5	6,374	0.00078	0.060%	0.056%	3.8	3.6	131%	140%
41	0	6,709	0.00000	0.068%	0.058%	4.6	3.9	0%	0%
42	2	7,173	0.00028	0.076%	0.060%	5.5	4.3	37%	46%
43	3	7,553	0.00040	0.084%	0.068%	6.3	5.1	47%	58%
44	5	7,908	0.00063	0.092%	0.076%	7.3	6.0	69%	83%
45	6	8,473	0.00071	0.100%	0.084%	8.5	7.1	71%	84%
46	8	8,946	0.00089	0.110%	0.092%	9.8	8.2	81%	97%
47	4	9,441	0.00042	0.120%	0.100%	11.3	9.4	35%	42%
48	3	9,738	0.00031	0.130%	0.110%	12.7	10.7	24%	28%
49	8	10,089	0.00079	0.140%	0.120%	14.1	12.1	57%	66%
50	11	10,303	0.00107	0.150%	0.130%	15.5	13.4	71%	82%
51	7	10,464	0.00067	0.160%	0.140%	16.7	14.6	42%	48%
52	16	10,610	0.00151	0.170%	0.150%	18.0	15.9	89%	101%
53	11	10,672	0.00103	0.180%	0.160%	19.2	17.1	57%	64%
54	12	10,517	0.00114	0.190%	0.170%	20.0	17.9	60%	67%
55	14	10,330	0.00136	0.200%	0.180%	20.7	18.6	68%	75%
56	12	9,788	0.00123	0.210%	0.190%	20.6	18.6	58%	65%
57	10	9,112	0.00110	0.220%	0.200%	20.0	18.2	50%	55%
58	13	8,616	0.00151	0.230%	0.210%	19.8	18.1	66%	72%
59	21	8,038	0.00261	0.240%	0.220%	19.3	17.7	109%	119%
60	11	7,582	0.00145	0.250%	0.230%	19.0	17.4	58%	63%
61	23	7,051	0.00326	0.260%	0.240%	18.3	16.9	125%	136%
62	18	6,500	0.00277	0.270%	0.250%	17.6	16.3	103%	111%
63	15	5,400	0.00278	0.280%	0.260%	15.1	14.0	99%	107%
64	11	4,271	0.00258	0.290%	0.270%	12.4	11.5	89%	95%
65	7	3,490	0.00201	0.300%	0.280%	10.5	9.8	67%	72%
66	8	2,717	0.00294	0.320%	0.290%	8.7	7.9	92%	102%
67	11	1,974	0.00557	0.340%	0.300%	6.7	5.9	164%	186%
68	11	1,497	0.00735	0.360%	0.320%	5.4	4.8	204%	230%
69	4	1,095	0.00365	0.380%	0.340%	4.2	3.7	96%	107%
70	2	0	N/A	N/A	N/A	0	0	0%	0%
71	10	0	N/A	N/A	N/A	0	0	0%	0%
72	3	0	N/A	N/A	N/A	0	0	0%	0%
73	4	0	N/A	N/A	N/A	0	0	0%	0%
74	1	0	N/A	N/A	N/A	0	0	0%	0%
Other	11	0	N/A	0.000%	N/A	0	0	0%	0%
Total	337	290,247				422.6	377.5	80%	89%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	91	0.00000	0.037%	0.037%	0.0	0.0	0%	0%
21	0	279	0.00000	0.037%	0.037%	0.1	0.1	0%	0%
22	0	583	0.00000	0.037%	0.037%	0.2	0.2	0%	0%
23	0	1,185	0.00000	0.036%	0.036%	0.4	0.4	0%	0%
24	1	2,157	0.00046	0.035%	0.035%	0.8	0.8	131%	131%
25	0	3,219	0.00000	0.035%	0.035%	1.1	1.1	0%	0%
26	1	4,251	0.00024	0.038%	0.035%	1.6	1.5	63%	68%
27	0	5,281	0.00000	0.040%	0.034%	2.1	1.8	0%	0%
28	0	6,080	0.00000	0.043%	0.037%	2.6	2.3	0%	0%
29	3	6,699	0.00045	0.045%	0.040%	3.0	2.7	99%	113%
30	0	7,325	0.00000	0.048%	0.043%	3.5	3.1	0%	0%
31	3	7,768	0.00039	0.051%	0.045%	4.0	3.5	76%	85%
32	5	8,123	0.00062	0.054%	0.048%	4.4	3.9	114%	128%
33	5	8,461	0.00059	0.057%	0.051%	4.8	4.3	104%	116%
34	1	8,720	0.00011	0.059%	0.054%	5.2	4.7	19%	21%
35	5	8,904	0.00056	0.062%	0.056%	5.5	5.0	91%	100%
36	2	8,943	0.00022	0.065%	0.059%	5.8	5.3	35%	38%
37	2	9,269	0.00022	0.068%	0.062%	6.3	5.8	32%	35%
38	8	9,502	0.00084	0.071%	0.065%	6.7	6.2	119%	129%
39	4	10,219	0.00039	0.074%	0.068%	7.5	7.0	53%	57%
40	5	10,929	0.00046	0.077%	0.071%	8.4	7.8	60%	64%
41	2	11,639	0.00017	0.086%	0.074%	10.0	8.6	20%	23%
42	8	12,493	0.00064	0.095%	0.077%	11.8	9.6	68%	83%
43	11	13,114	0.00084	0.104%	0.086%	13.6	11.3	81%	98%
44	14	13,828	0.00101	0.113%	0.095%	15.6	13.1	90%	107%
45	17	14,811	0.00115	0.121%	0.104%	18.0	15.4	95%	111%
46	15	15,855	0.00095	0.132%	0.113%	20.9	17.9	72%	84%
47	13	16,888	0.00077	0.142%	0.122%	24.0	20.6	54%	63%
48	10	17,539	0.00057	0.152%	0.132%	26.7	23.2	37%	43%
49	19	18,348	0.00104	0.163%	0.143%	29.8	26.1	64%	73%
50	21	18,779	0.00112	0.173%	0.153%	32.4	28.7	65%	73%
51	16	18,964	0.00084	0.187%	0.162%	35.4	30.8	45%	52%
52	31	19,207	0.00161	0.201%	0.172%	38.7	33.1	80%	94%
53	35	19,234	0.00182	0.216%	0.187%	41.5	35.9	84%	97%
54	24	19,011	0.00126	0.230%	0.201%	43.8	38.3	55%	63%
55	31	18,850	0.00164	0.245%	0.216%	46.2	40.7	67%	76%
56	27	17,919	0.00151	0.260%	0.231%	46.6	41.4	58%	65%
57	35	16,868	0.00207	0.275%	0.246%	46.4	41.5	75%	84%
58	32	15,971	0.00200	0.290%	0.261%	46.3	41.6	69%	77%
59	40	14,941	0.00268	0.305%	0.275%	45.5	41.2	88%	97%
60	32	14,125	0.00227	0.319%	0.290%	45.1	41.0	71%	78%
61	43	13,200	0.00326	0.335%	0.305%	44.2	40.3	97%	107%
62	40	12,088	0.00331	0.349%	0.319%	42.1	38.6	95%	104%
63	33	9,885	0.00334	0.362%	0.333%	35.8	32.9	92%	100%
64	25	7,892	0.00317	0.377%	0.348%	29.8	27.5	84%	91%
65	19	6,395	0.00297	0.391%	0.362%	25.0	23.1	76%	82%
66	14	5,076	0.00276	0.422%	0.378%	21.4	19.2	65%	73%
67	16	3,780	0.00423	0.455%	0.396%	17.2	15.0	93%	107%
68	20	2,936	0.00681	0.487%	0.428%	14.3	12.6	140%	159%
69	11	2,273	0.00484	0.525%	0.464%	11.9	10.6	92%	104%
70	7	0	N/A	0.000%	0.000%	0	0	0%	0%
71	10	0	N/A	0.000%	0.000%	0	0	0%	0%
72	10	0	N/A	0.000%	0.000%	0	0	0%	0%
73	6	0	N/A	0.000%	0.000%	0	0	0%	0%
74	5	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	30	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	767	519,897				954.0	847.0	80%	91%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	2,529	0.00000	0.040%	0.040%	1.0	1.0	0%	0%
25-29	3	11,249	0.00027	0.049%	0.043%	5.5	4.8	54%	62%
30-34	8	16,416	0.00049	0.068%	0.060%	11.2	9.9	71%	81%
35-39	13	19,049	0.00068	0.088%	0.080%	16.8	15.3	77%	85%
40-44	25	26,286	0.00095	0.121%	0.104%	31.9	27.5	78%	91%
45-49	45	36,754	0.00122	0.171%	0.151%	63.0	55.6	71%	81%
50-54	70	42,629	0.00164	0.240%	0.206%	102.3	87.8	68%	80%
55-59	95	38,665	0.00246	0.338%	0.298%	130.7	115.2	73%	82%
60-64	95	26,386	0.00360	0.434%	0.394%	114.6	104.0	83%	91%
65-69	39	9,687	0.00403	0.562%	0.499%	54.4	48.3	72%	81%
70-74	18	0	N/A			0	0	0%	0%
Other	19	0	N/A			0	0	0%	0%
Total	430	229,650				531.4	469.5	81%	92%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	1	1,766	0.00057	0.030%	0.030%	0.5	0.5	189%	189%
25-29	1	14,281	0.00007	0.035%	0.032%	5.0	4.5	20%	22%
30-34	6	23,981	0.00025	0.044%	0.040%	10.6	9.6	57%	62%
35-39	8	27,788	0.00029	0.054%	0.050%	15.0	13.9	53%	57%
40-44	15	35,717	0.00042	0.077%	0.064%	27.5	22.9	55%	65%
45-49	29	46,687	0.00062	0.121%	0.102%	56.4	47.6	51%	61%
50-54	57	52,566	0.00108	0.170%	0.150%	89.4	78.9	64%	72%
55-59	70	45,884	0.00153	0.219%	0.199%	100.4	91.2	70%	77%
60-64	78	30,804	0.00253	0.267%	0.247%	82.3	76.2	95%	102%
65-69	41	10,773	0.00381	0.329%	0.298%	35.4	32.1	116%	128%
70-74	20	0	N/A			0	0	0%	0%
Other	11	0	N/A			0	0	0%	0%
Total	337	290,247				422.6	377.5	80%	89%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	1	4,295	0.00023	0.036%	0.036%	1.5	1.5	65%	65%
25-29	4	25,530	0.00016	0.041%	0.037%	10.5	9.3	38%	43%
30-34	14	40,397	0.00035	0.054%	0.048%	21.8	19.5	64%	72%
35-39	21	46,837	0.00045	0.068%	0.062%	31.9	29.2	66%	72%
40-44	40	62,003	0.00065	0.096%	0.081%	59.3	50.4	67%	79%
45-49	74	83,441	0.00089	0.143%	0.124%	119.4	103.2	62%	72%
50-54	127	95,195	0.00133	0.201%	0.175%	191.8	166.7	66%	76%
55-59	165	84,549	0.00195	0.273%	0.244%	231.0	206.4	71%	80%
60-64	173	57,190	0.00303	0.344%	0.315%	196.9	180.2	88%	96%
65-69	80	20,460	0.00391	0.439%	0.393%	89.9	80.4	89%	99%
70-74	38	0	N/A			0	0	0%	0%
Other	30	0	N/A			0	0	0%	0%
Total	767	519,897				954.0	847.0	80%	91%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	146	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
21	0	431	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
22	0	857	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
23	0	1,494	0.00000	0.040%	0.040%	0.6	0.6	0%	0%
24	0	2,374	0.00000	0.040%	0.040%	0.9	0.9	0%	0%
25	2	3,197	0.00063	0.040%	0.040%	1.3	1.3	156%	156%
26	1	3,996	0.00025	0.044%	0.040%	1.8	1.6	57%	63%
27	0	4,718	0.00000	0.048%	0.040%	2.3	1.9	0%	0%
28	1	5,267	0.00019	0.052%	0.044%	2.7	2.3	37%	43%
29	3	5,690	0.00053	0.056%	0.048%	3.2	2.7	94%	110%
30	0	6,286	0.00000	0.060%	0.052%	3.8	3.3	0%	0%
31	3	6,687	0.00045	0.064%	0.056%	4.3	3.7	70%	80%
32	4	7,068	0.00057	0.068%	0.060%	4.8	4.2	83%	94%
33	7	7,607	0.00092	0.072%	0.064%	5.5	4.9	128%	144%
34	2	8,065	0.00025	0.076%	0.068%	6.1	5.5	33%	36%
35	8	8,689	0.00092	0.080%	0.072%	7.0	6.3	115%	128%
36	2	9,302	0.00022	0.084%	0.076%	7.8	7.1	26%	28%
37	4	10,146	0.00039	0.088%	0.080%	8.9	8.1	45%	49%
38	17	11,054	0.00154	0.092%	0.084%	10.2	9.3	167%	183%
39	8	11,967	0.00067	0.096%	0.088%	11.5	10.5	70%	76%
40	7	13,020	0.00054	0.100%	0.092%	13.0	12.0	54%	58%
41	7	14,154	0.00049	0.110%	0.096%	15.6	13.6	45%	52%
42	19	15,365	0.00124	0.120%	0.100%	18.4	15.4	103%	124%
43	18	16,409	0.00110	0.130%	0.110%	21.3	18.0	84%	100%
44	22	17,340	0.00127	0.140%	0.120%	24.3	20.8	91%	106%
45	22	18,269	0.00120	0.150%	0.130%	27.4	23.7	80%	93%
46	26	19,218	0.00135	0.160%	0.140%	30.7	26.9	85%	97%
47	31	20,039	0.00155	0.170%	0.150%	34.1	30.1	91%	103%
48	33	20,611	0.00160	0.180%	0.160%	37.1	33.0	89%	100%
49	45	21,142	0.00213	0.190%	0.170%	40.2	35.9	112%	125%
50	34	21,398	0.00159	0.200%	0.180%	42.8	38.5	79%	88%
51	32	21,252	0.00151	0.220%	0.190%	46.8	40.4	68%	79%
52	39	21,143	0.00184	0.240%	0.200%	50.7	42.3	77%	92%
53	58	20,795	0.00279	0.260%	0.220%	54.1	45.7	107%	127%
54	49	20,482	0.00239	0.280%	0.240%	57.3	49.2	85%	100%
55	52	20,049	0.00259	0.300%	0.260%	60.1	52.1	86%	100%
56	46	18,939	0.00243	0.320%	0.280%	60.6	53.0	76%	87%
57	57	17,909	0.00318	0.340%	0.300%	60.9	53.7	94%	106%
58	49	16,637	0.00295	0.360%	0.320%	59.9	53.2	82%	92%
59	55	15,296	0.00360	0.380%	0.340%	58.1	52.0	95%	106%
60	50	14,174	0.00353	0.400%	0.360%	56.7	51.0	88%	98%
61	59	13,045	0.00452	0.420%	0.380%	54.8	49.6	108%	119%
62	54	11,690	0.00462	0.440%	0.400%	51.4	46.8	105%	115%
63	39	9,172	0.00425	0.460%	0.420%	42.2	38.5	92%	101%
64	29	7,443	0.00390	0.480%	0.440%	35.7	32.7	81%	89%
65	24	6,139	0.00391	0.500%	0.460%	30.7	28.2	78%	85%
66	20	4,918	0.00407	0.540%	0.480%	26.6	23.6	75%	85%
67	16	3,783	0.00423	0.580%	0.500%	21.9	18.9	73%	85%
68	19	3,005	0.00632	0.620%	0.540%	18.6	16.2	102%	117%
69	21	2,424	0.00866	0.660%	0.580%	16.0	14.1	131%	149%
70	15	0	N/A	N/A	N/A	0	0	0%	0%
71	11	0	N/A	N/A	N/A	0	0	0%	0%
72	13	0	N/A	N/A	N/A	0	0	0%	0%
73	12	0	N/A	N/A	N/A	0	0	0%	0%
74	10	0	N/A	N/A	N/A	0	0	0%	0%
Other	39	0	N/A	0.000%	N/A	0	0	0%	0%
Total	1,194	560,301				1,251.3	1,104.1	95%	108%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	83	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
21	0	231	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
22	0	530	0.00000	0.030%	0.030%	0.2	0.2	0%	0%
23	0	1,173	0.00000	0.030%	0.030%	0.4	0.4	0%	0%
24	1	2,229	0.00045	0.030%	0.030%	0.7	0.7	150%	150%
25	0	3,579	0.00000	0.030%	0.030%	1.1	1.1	0%	0%
26	2	4,956	0.00040	0.032%	0.030%	1.6	1.5	126%	135%
27	0	6,181	0.00000	0.034%	0.030%	2.1	1.9	0%	0%
28	2	7,528	0.00027	0.036%	0.032%	2.7	2.4	74%	83%
29	1	8,548	0.00012	0.038%	0.034%	3.2	2.9	31%	34%
30	0	9,274	0.00000	0.040%	0.036%	3.7	3.3	0%	0%
31	1	9,951	0.00010	0.042%	0.038%	4.2	3.8	24%	26%
32	4	10,555	0.00038	0.044%	0.040%	4.6	4.2	86%	95%
33	5	11,391	0.00044	0.046%	0.042%	5.2	4.8	95%	105%
34	2	12,099	0.00017	0.048%	0.044%	5.8	5.3	34%	38%
35	2	12,746	0.00016	0.050%	0.046%	6.4	5.9	31%	34%
36	5	13,504	0.00037	0.052%	0.048%	7.0	6.5	71%	77%
37	4	14,357	0.00028	0.054%	0.050%	7.8	7.2	52%	56%
38	6	15,294	0.00039	0.056%	0.052%	8.6	8.0	70%	75%
39	7	16,357	0.00043	0.058%	0.054%	9.5	8.8	74%	79%
40	14	17,494	0.00080	0.060%	0.056%	10.5	9.8	133%	143%
41	9	18,717	0.00048	0.068%	0.058%	12.7	10.9	71%	83%
42	5	19,847	0.00025	0.076%	0.060%	15.1	11.9	33%	42%
43	10	20,952	0.00048	0.084%	0.068%	17.6	14.2	57%	70%
44	15	21,869	0.00069	0.092%	0.076%	20.1	16.6	75%	90%
45	19	23,003	0.00083	0.100%	0.084%	23.0	19.3	83%	98%
46	19	23,772	0.00080	0.110%	0.092%	26.1	21.9	73%	87%
47	14	24,529	0.00057	0.120%	0.100%	29.4	24.5	48%	57%
48	16	25,059	0.00064	0.130%	0.110%	32.6	27.6	49%	58%
49	24	25,368	0.00095	0.140%	0.120%	35.5	30.4	68%	79%
50	30	25,384	0.00118	0.150%	0.130%	38.1	33.0	79%	91%
51	28	25,162	0.00111	0.160%	0.140%	40.3	35.2	70%	79%
52	39	25,122	0.00155	0.170%	0.150%	42.7	37.7	91%	103%
53	37	24,698	0.00150	0.180%	0.160%	44.5	39.5	83%	94%
54	42	24,256	0.00173	0.190%	0.170%	46.1	41.2	91%	102%
55	50	23,571	0.00212	0.200%	0.180%	47.1	42.4	106%	118%
56	33	22,241	0.00148	0.210%	0.190%	46.7	42.3	71%	78%
57	37	20,926	0.00177	0.220%	0.200%	46.0	41.9	80%	88%
58	35	19,497	0.00180	0.230%	0.210%	44.8	40.9	78%	85%
59	49	18,077	0.00271	0.240%	0.220%	43.4	39.8	113%	123%
60	36	16,763	0.00215	0.250%	0.230%	41.9	38.6	86%	93%
61	59	15,438	0.00382	0.260%	0.240%	40.1	37.1	147%	159%
62	53	13,927	0.00381	0.270%	0.250%	37.6	34.8	141%	152%
63	46	10,986	0.00419	0.280%	0.260%	30.8	28.6	150%	161%
64	27	8,669	0.00311	0.290%	0.270%	25.1	23.4	107%	115%
65	18	7,066	0.00255	0.300%	0.280%	21.2	19.8	85%	91%
66	14	5,526	0.00253	0.320%	0.290%	17.7	16.0	79%	87%
67	16	4,057	0.00394	0.340%	0.300%	13.8	12.2	116%	131%
68	20	3,124	0.00640	0.360%	0.320%	11.2	10.0	178%	200%
69	11	2,364	0.00465	0.380%	0.340%	9.0	8.0	122%	137%
70	7	0	N/A	N/A	N/A	0	0	0%	0%
71	16	0	N/A	N/A	N/A	0	0	0%	0%
72	5	0	N/A	N/A	N/A	0	0	0%	0%
73	8	0	N/A	N/A	N/A	0	0	0%	0%
74	4	0	N/A	N/A	N/A	0	0	0%	0%
Other	28	0	N/A	0.000%	N/A	0	0	0%	0%
Total	935	698,030				985.6	878.2	95%	106%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 8C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	229	0.00000	0.036%	0.036%	0.1	0.1	0%	0%
21	0	662	0.00000	0.037%	0.037%	0.2	0.2	0%	0%
22	0	1,387	0.00000	0.036%	0.036%	0.5	0.5	0%	0%
23	0	2,667	0.00000	0.036%	0.036%	0.9	0.9	0%	0%
24	1	4,603	0.00022	0.035%	0.035%	1.6	1.6	62%	62%
25	2	6,776	0.00030	0.035%	0.035%	2.4	2.4	85%	85%
26	3	8,952	0.00034	0.037%	0.034%	3.3	3.1	90%	97%
27	0	10,899	0.00000	0.040%	0.034%	4.4	3.7	0%	0%
28	3	12,795	0.00023	0.043%	0.037%	5.4	4.7	55%	63%
29	4	14,238	0.00028	0.045%	0.040%	6.4	5.6	62%	71%
30	0	15,560	0.00000	0.048%	0.042%	7.5	6.6	0%	0%
31	4	16,638	0.00024	0.051%	0.045%	8.5	7.5	47%	53%
32	8	17,623	0.00045	0.054%	0.048%	9.5	8.5	85%	95%
33	12	18,998	0.00063	0.056%	0.051%	10.7	9.7	112%	124%
34	4	20,164	0.00020	0.059%	0.054%	11.9	10.8	34%	37%
35	10	21,435	0.00047	0.062%	0.057%	13.3	12.1	75%	83%
36	7	22,806	0.00031	0.065%	0.059%	14.8	13.6	47%	52%
37	8	24,503	0.00033	0.068%	0.062%	16.7	15.3	48%	52%
38	23	26,348	0.00087	0.071%	0.065%	18.7	17.2	123%	133%
39	15	28,324	0.00053	0.074%	0.068%	21.0	19.4	72%	77%
40	21	30,514	0.00069	0.077%	0.071%	23.5	21.8	89%	96%
41	16	32,871	0.00049	0.086%	0.074%	28.3	24.4	57%	65%
42	24	35,212	0.00068	0.095%	0.077%	33.5	27.3	72%	88%
43	28	37,361	0.00075	0.104%	0.086%	38.9	32.3	72%	87%
44	37	39,209	0.00094	0.113%	0.095%	44.4	37.4	83%	99%
45	41	41,272	0.00099	0.122%	0.104%	50.4	43.1	81%	95%
46	45	42,990	0.00105	0.132%	0.113%	56.9	48.8	79%	92%
47	45	44,568	0.00101	0.142%	0.122%	63.5	54.6	71%	82%
48	49	45,670	0.00107	0.153%	0.133%	69.7	60.5	70%	81%
49	69	46,510	0.00148	0.163%	0.143%	75.7	66.4	91%	104%
50	64	46,782	0.00137	0.173%	0.153%	80.9	71.5	79%	89%
51	60	46,414	0.00129	0.187%	0.163%	87.0	75.6	69%	79%
52	78	46,265	0.00169	0.202%	0.173%	93.5	80.0	83%	98%
53	95	45,493	0.00209	0.217%	0.187%	98.5	85.3	96%	111%
54	91	44,738	0.00203	0.231%	0.202%	103.4	90.4	88%	101%
55	102	43,620	0.00234	0.246%	0.217%	107.3	94.6	95%	108%
56	79	41,180	0.00192	0.261%	0.231%	107.3	95.3	74%	83%
57	94	38,835	0.00242	0.275%	0.246%	106.9	95.6	88%	98%
58	84	36,134	0.00232	0.290%	0.261%	104.7	94.2	80%	89%
59	104	33,373	0.00312	0.304%	0.275%	101.5	91.8	102%	113%
60	86	30,937	0.00278	0.319%	0.290%	98.6	89.6	87%	96%
61	118	28,483	0.00414	0.333%	0.304%	94.9	86.6	124%	136%
62	107	25,617	0.00418	0.348%	0.318%	89.0	81.6	120%	131%
63	85	20,158	0.00422	0.362%	0.333%	73.0	67.1	117%	127%
64	56	16,112	0.00348	0.378%	0.349%	60.9	56.2	92%	100%
65	42	13,205	0.00318	0.393%	0.364%	51.9	48.0	81%	87%
66	34	10,444	0.00326	0.424%	0.379%	44.2	39.6	77%	86%
67	32	7,840	0.00408	0.456%	0.397%	35.7	31.1	90%	103%
68	39	6,129	0.00636	0.487%	0.428%	29.9	26.2	131%	149%
69	32	4,788	0.00668	0.522%	0.462%	25.0	22.1	128%	145%
70	22	0	N/A	0.000%	0.000%	0	0	0%	0%
71	27	0	N/A	0.000%	0.000%	0	0	0%	0%
72	18	0	N/A	0.000%	0.000%	0	0	0%	0%
73	20	0	N/A	0.000%	0.000%	0	0	0%	0%
74	14	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	67	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	2,129	1,258,331				2,237.0	1,982.4	95%	107%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	5,302	0.00000	0.040%	0.040%	2.1	2.1	0%	0%
25-29	7	22,868	0.00031	0.049%	0.043%	11.2	9.8	62%	71%
30-34	16	35,713	0.00045	0.069%	0.061%	24.5	21.6	65%	74%
35-39	39	51,158	0.00076	0.089%	0.081%	45.4	41.3	86%	95%
40-44	73	76,288	0.00096	0.121%	0.105%	92.6	79.8	79%	91%
45-49	157	99,279	0.00158	0.171%	0.151%	169.5	149.6	93%	105%
50-54	212	105,070	0.00202	0.240%	0.206%	251.7	216.1	84%	98%
55-59	259	88,830	0.00292	0.337%	0.297%	299.7	264.1	86%	98%
60-64	231	55,524	0.00416	0.434%	0.394%	240.8	218.6	96%	106%
65-69	100	20,269	0.00493	0.562%	0.499%	113.8	101.0	88%	99%
70-74	61	0	N/A			0	0	0%	0%
Other	39	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,194</b>	<b>560,301</b>				<b>1,251.3</b>	<b>1,104.1</b>	<b>95%</b>	<b>108%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	1	4,246	0.00024	0.030%	0.030%	1.3	1.3	79%	79%
25-29	5	30,792	0.00016	0.035%	0.032%	10.7	9.7	47%	51%
30-34	12	53,270	0.00023	0.044%	0.040%	23.6	21.4	51%	56%
35-39	24	72,258	0.00033	0.054%	0.050%	39.2	36.3	61%	66%
40-44	53	98,879	0.00054	0.077%	0.064%	76.0	63.4	70%	84%
45-49	92	121,731	0.00076	0.120%	0.102%	146.7	123.7	63%	74%
50-54	176	124,622	0.00141	0.170%	0.150%	211.6	186.7	83%	94%
55-59	204	104,312	0.00196	0.219%	0.199%	228.1	207.3	89%	98%
60-64	221	65,783	0.00336	0.267%	0.247%	175.6	162.4	126%	136%
65-69	79	22,137	0.00357	0.329%	0.298%	72.9	66.0	108%	120%
70-74	40	0	N/A			0	0	0%	0%
Other	28	0	N/A			0	0	0%	0%
<b>Total</b>	<b>935</b>	<b>698,030</b>				<b>985.6</b>	<b>878.2</b>	<b>95%</b>	<b>106%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	1	9,548	0.00010	0.036%	0.036%	3.4	3.4	29%	29%
25-29	12	53,660	0.00022	0.041%	0.036%	21.9	19.5	55%	61%
30-34	28	88,983	0.00031	0.054%	0.048%	48.0	43.1	58%	65%
35-39	63	123,416	0.00051	0.069%	0.063%	84.6	77.6	75%	81%
40-44	126	175,167	0.00072	0.096%	0.082%	168.7	143.2	75%	88%
45-49	249	221,010	0.00113	0.143%	0.124%	316.2	273.4	79%	91%
50-54	388	229,692	0.00169	0.202%	0.175%	463.3	402.7	84%	96%
55-59	463	193,142	0.00240	0.273%	0.244%	527.8	471.4	88%	98%
60-64	452	121,307	0.00373	0.343%	0.314%	416.4	381.0	109%	119%
65-69	179	42,406	0.00422	0.440%	0.394%	186.7	167.1	96%	107%
70-74	101	0	N/A			0	0	0%	0%
Other	67	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2,129</b>	<b>1,258,331</b>				<b>2,237.0</b>	<b>1,982.4</b>	<b>95%</b>	<b>107%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 8D Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	119,180	342	196.6	174%	0.287%	0.165%
2005	120,147	242	202.0	120%	0.201%	0.168%
2006	122,336	246	212.1	116%	0.201%	0.173%
2007	124,083	134	218.9	61%	0.108%	0.176%
2008	125,340	107	223.5	48%	0.085%	0.178%
2009	127,376	291	230.0	127%	0.228%	0.181%
2010	128,850	268	235.1	114%	0.208%	0.182%
2011	129,239	250	238.1	105%	0.193%	0.184%
2012	128,229	152	236.7	64%	0.119%	0.185%
2013	133,596	97	244.2	40%	0.073%	0.183%
Total	1,258,376	2,129	2237.0	95%	0.169%	0.178%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 9A**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual Disabilities</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected (3) x (5)</u> (7)	<u>Proposed (3) x (6)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
20	0	0	N/A	0.20%	0.20%	0	0	0%	0%
21	0	0	N/A	0.20%	0.20%	0	0	0%	0%
22	0	0	N/A	0.20%	0.20%	0	0	0%	0%
23	0	0	N/A	0.20%	0.20%	0	0	0%	0%
24	0	0	N/A	0.20%	0.20%	0	0	0%	0%
25	0	0	N/A	0.20%	0.20%	0	0	0%	0%
26	0	1	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
27	0	2	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
28	1	14	0.0714	0.20%	0.20%	0.0	0.0	3571%	3571%
29	0	37	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
30	0	79	0.0000	0.20%	0.20%	0.2	0.2	0%	0%
31	0	175	0.0000	0.22%	0.22%	0.4	0.4	0%	0%
32	0	275	0.0000	0.24%	0.24%	0.7	0.7	0%	0%
33	1	397	0.0025	0.26%	0.26%	1.0	1.0	97%	97%
34	0	509	0.0000	0.28%	0.28%	1.4	1.4	0%	0%
35	4	650	0.0062	0.30%	0.30%	2.0	2.0	205%	205%
36	1	813	0.0012	0.32%	0.32%	2.6	2.6	38%	38%
37	0	1,074	0.0000	0.34%	0.34%	3.7	3.7	0%	0%
38	5	1,350	0.0037	0.36%	0.36%	4.9	4.9	103%	103%
39	9	1,733	0.0052	0.38%	0.38%	6.6	6.6	137%	137%
40	4	2,138	0.0019	0.40%	0.40%	8.6	8.6	47%	47%
41	7	2,472	0.0028	0.42%	0.42%	10.4	10.4	67%	67%
42	10	2,927	0.0034	0.44%	0.44%	12.9	12.9	78%	78%
43	15	3,332	0.0045	0.46%	0.46%	15.3	15.3	98%	98%
44	11	3,835	0.0029	0.48%	0.48%	18.4	18.4	60%	60%
45	16	4,393	0.0036	0.50%	0.50%	22.0	22.0	73%	73%
46	15	4,848	0.0031	0.52%	0.52%	25.2	25.2	60%	60%
47	21	5,304	0.0040	0.54%	0.54%	28.6	28.6	73%	73%
48	29	5,643	0.0051	0.56%	0.56%	31.6	31.6	92%	92%
49	31	5,851	0.0053	0.58%	0.58%	33.9	33.9	91%	91%
50	30	6,089	0.0049	0.60%	0.60%	36.5	36.5	82%	82%
51	34	6,163	0.0055	0.62%	0.62%	38.2	38.2	89%	89%
52	29	6,199	0.0047	0.64%	0.64%	39.7	39.7	73%	73%
53	38	6,370	0.0060	0.66%	0.66%	42.0	42.0	90%	90%
54	52	6,386	0.0081	0.68%	0.68%	43.4	43.4	120%	120%
55	47	6,277	0.0075	0.70%	0.70%	43.9	43.9	107%	107%
56	35	5,983	0.0058	0.70%	0.70%	41.9	41.9	84%	84%
57	33	5,663	0.0058	0.70%	0.70%	39.6	39.6	83%	83%
58	43	5,401	0.0080	0.70%	0.70%	37.8	37.8	114%	114%
59	38	5,126	0.0074	0.70%	0.70%	35.9	35.9	106%	106%
60	37	4,788	0.0077	0.70%	0.70%	33.5	33.5	110%	110%
61	28	4,490	0.0062	0.70%	0.70%	31.4	31.4	89%	89%
62	12	4,041	0.0030	0.70%	0.70%	28.3	28.3	42%	42%
63	12	3,048	0.0039	0.70%	0.70%	21.3	21.3	56%	56%
64	10	2,435	0.0041	0.70%	0.70%	17.0	17.0	59%	59%
65	4	1,987	0.0020	0.70%	0.70%	13.9	13.9	29%	29%
66	6	1,679	0.0036	0.70%	0.70%	11.8	11.8	51%	51%
67	4	1,315	0.0030	0.70%	0.70%	9.2	9.2	43%	43%
68	4	1,007	0.0040	0.70%	0.70%	7.0	7.0	57%	57%
69	2	807	0.0025	0.70%	0.70%	5.6	5.6	35%	35%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	678	133,106				808.5	808.5	84%	84%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 9B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.20%	0.20%	0	0	0%	0%
21	0	0	N/A	0.20%	0.20%	0	0	0%	0%
22	0	0	N/A	0.20%	0.20%	0	0	0%	0%
23	0	0	N/A	0.20%	0.20%	0	0	0%	0%
24	0	0	N/A	0.20%	0.20%	0	0	0%	0%
25	0	0	N/A	0.20%	0.20%	0	0	0%	0%
26	0	1	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
27	0	1	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
28	0	6	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
29	0	19	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
30	0	61	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
31	1	117	0.0085	0.20%	0.20%	0.2	0.2	427%	427%
32	1	231	0.0043	0.20%	0.20%	0.5	0.5	216%	216%
33	2	354	0.0056	0.20%	0.20%	0.7	0.7	282%	282%
34	0	500	0.0000	0.20%	0.20%	1.0	1.0	0%	0%
35	0	685	0.0000	0.20%	0.20%	1.4	1.4	0%	0%
36	1	844	0.0012	0.21%	0.21%	1.8	1.8	56%	56%
37	1	1,172	0.0009	0.22%	0.22%	2.6	2.6	39%	39%
38	2	1,468	0.0014	0.23%	0.23%	3.4	3.4	59%	59%
39	2	1,861	0.0011	0.24%	0.24%	4.5	4.5	45%	45%
40	4	2,388	0.0017	0.25%	0.25%	6.0	6.0	67%	67%
41	7	2,823	0.0025	0.26%	0.26%	7.3	7.3	95%	95%
42	6	3,383	0.0018	0.27%	0.27%	9.1	9.1	66%	66%
43	12	3,962	0.0030	0.28%	0.28%	11.1	11.1	108%	108%
44	13	4,470	0.0029	0.29%	0.29%	13.0	13.0	100%	100%
45	12	5,022	0.0024	0.30%	0.30%	15.1	15.1	80%	80%
46	19	5,455	0.0035	0.34%	0.34%	18.5	18.5	102%	102%
47	23	5,905	0.0039	0.38%	0.38%	22.4	22.4	103%	103%
48	27	6,284	0.0043	0.42%	0.42%	26.4	26.4	102%	102%
49	30	6,620	0.0045	0.46%	0.46%	30.5	30.5	99%	99%
50	24	6,802	0.0035	0.50%	0.50%	34.0	34.0	71%	71%
51	38	7,026	0.0054	0.54%	0.54%	37.9	37.9	100%	100%
52	37	7,109	0.0052	0.58%	0.58%	41.2	41.2	90%	90%
53	51	7,090	0.0072	0.62%	0.62%	44.0	44.0	116%	116%
54	54	7,048	0.0077	0.66%	0.66%	46.5	46.5	116%	116%
55	52	6,849	0.0076	0.70%	0.70%	47.9	47.9	108%	108%
56	40	6,525	0.0061	0.70%	0.70%	45.7	45.7	88%	88%
57	38	6,194	0.0061	0.70%	0.70%	43.4	43.4	88%	88%
58	50	5,944	0.0084	0.70%	0.70%	41.6	41.6	120%	120%
59	43	5,682	0.0076	0.70%	0.70%	39.8	39.8	108%	108%
60	40	5,397	0.0074	0.70%	0.70%	37.8	37.8	106%	106%
61	34	5,223	0.0065	0.70%	0.70%	36.6	36.6	93%	93%
62	14	4,756	0.0029	0.70%	0.70%	33.3	33.3	42%	42%
63	9	3,738	0.0024	0.70%	0.70%	26.2	26.2	34%	34%
64	11	2,887	0.0038	0.70%	0.70%	20.2	20.2	54%	54%
65	5	2,281	0.0022	0.70%	0.70%	16.0	16.0	31%	31%
66	6	1,857	0.0032	0.70%	0.70%	13.0	13.0	46%	46%
67	5	1,403	0.0036	0.70%	0.70%	9.8	9.8	51%	51%
68	0	1,080	0.0000	0.70%	0.70%	7.6	7.6	0%	0%
69	1	861	0.0012	0.70%	0.70%	6.0	6.0	17%	17%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>715</b>	<b>149,384</b>				<b>803.9</b>	<b>803.9</b>	<b>89%</b>	<b>89%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

<b>TABLE 9C</b>				<b>4-YEAR PERIOD ENDING 6/30/2011</b>					
<b>Age</b>	<b>Actual Disabilities</b>	<b>Total Exposed</b>	<b>Actual Rate (2) / (3)</b>	<b>Assumed Probability</b>		<b>Expected Disabilities</b>		<b>Actual/Expected</b>	
				<b>Expected</b>	<b>Proposed</b>	<b>Expected (3) x (5)</b>	<b>Proposed (3) x (6)</b>	<b>Expected (2) / (7)</b>	<b>Proposed (2) / (8)</b>
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>	<b>(5)</b>	<b>(6)</b>	<b>(7)</b>	<b>(8)</b>	<b>(9)</b>	<b>(10)</b>
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	2	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
27	0	3	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
28	1	20	0.0500	0.20%	0.20%	0.0	0.0	2500%	2500%
29	0	56	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
30	0	140	0.0000	0.20%	0.20%	0.3	0.3	0%	0%
31	1	292	0.0034	0.21%	0.21%	0.6	0.6	162%	162%
32	1	506	0.0020	0.22%	0.22%	1.1	1.1	89%	89%
33	3	751	0.0040	0.23%	0.23%	1.7	1.7	172%	172%
34	0	1,009	0.0000	0.24%	0.24%	2.4	2.4	0%	0%
35	4	1,335	0.0030	0.25%	0.25%	3.3	3.3	120%	120%
36	2	1,657	0.0012	0.26%	0.26%	4.4	4.4	46%	46%
37	1	2,246	0.0004	0.28%	0.28%	6.2	6.2	16%	16%
38	7	2,818	0.0025	0.29%	0.29%	8.2	8.2	85%	85%
39	11	3,594	0.0031	0.31%	0.31%	11.1	11.1	100%	100%
40	8	4,526	0.0018	0.32%	0.32%	14.5	14.5	55%	55%
41	14	5,295	0.0026	0.33%	0.33%	17.7	17.7	79%	79%
42	16	6,310	0.0025	0.35%	0.35%	22.0	22.0	73%	73%
43	27	7,294	0.0037	0.36%	0.36%	26.4	26.4	102%	102%
44	24	8,305	0.0029	0.38%	0.38%	31.4	31.4	77%	77%
45	28	9,415	0.0030	0.39%	0.39%	37.0	37.0	76%	76%
46	34	10,303	0.0033	0.42%	0.42%	43.8	43.8	78%	78%
47	44	11,209	0.0039	0.46%	0.46%	51.1	51.1	86%	86%
48	56	11,927	0.0047	0.49%	0.49%	58.0	58.0	97%	97%
49	61	12,471	0.0049	0.52%	0.52%	64.4	64.4	95%	95%
50	54	12,891	0.0042	0.55%	0.55%	70.5	70.5	77%	77%
51	72	13,189	0.0055	0.58%	0.58%	76.2	76.2	95%	95%
52	66	13,308	0.0050	0.61%	0.61%	80.9	80.9	82%	82%
53	89	13,460	0.0066	0.64%	0.64%	86.0	86.0	103%	103%
54	106	13,434	0.0079	0.67%	0.67%	89.9	89.9	118%	118%
55	99	13,126	0.0075	0.70%	0.70%	91.9	91.9	108%	108%
56	75	12,508	0.0060	0.70%	0.70%	87.6	87.6	86%	86%
57	71	11,857	0.0060	0.70%	0.70%	83.0	83.0	86%	86%
58	93	11,345	0.0082	0.70%	0.70%	79.4	79.4	117%	117%
59	81	10,808	0.0075	0.70%	0.70%	75.7	75.7	107%	107%
60	77	10,185	0.0076	0.70%	0.70%	71.3	71.3	108%	108%
61	62	9,713	0.0064	0.70%	0.70%	68.0	68.0	91%	91%
62	26	8,797	0.0030	0.70%	0.70%	61.6	61.6	42%	42%
63	21	6,786	0.0031	0.70%	0.70%	47.5	47.5	44%	44%
64	21	5,322	0.0039	0.70%	0.70%	37.3	37.3	56%	56%
65	9	4,268	0.0021	0.70%	0.70%	29.9	29.9	30%	30%
66	12	3,536	0.0034	0.70%	0.70%	24.8	24.8	48%	48%
67	9	2,718	0.0033	0.70%	0.70%	19.0	19.0	47%	47%
68	4	2,087	0.0019	0.70%	0.70%	14.6	14.6	27%	27%
69	3	1,668	0.0018	0.70%	0.70%	11.7	11.7	26%	26%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>1,393</b>	<b>282,490</b>				<b>1,612.5</b>	<b>1,612.5</b>	<b>86%</b>	<b>86%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 9A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	1	54	0.0185	0.20%	0.20%	0.1	0.1	926%	926%
30-34	1	1,435	0.0007	0.26%	0.26%	3.7	3.7	27%	27%
35-39	19	5,620	0.0034	0.35%	0.35%	19.6	19.6	97%	97%
40-44	47	14,704	0.0032	0.45%	0.45%	65.5	65.5	72%	72%
45-49	112	26,039	0.0043	0.54%	0.54%	141.4	141.4	79%	79%
50-54	183	31,207	0.0059	0.64%	0.64%	199.9	199.9	92%	92%
55-59	196	28,450	0.0069	0.70%	0.70%	199.2	199.2	98%	98%
60-64	99	18,802	0.0053	0.70%	0.70%	131.6	131.6	75%	75%
65-69	20	6,795	0.0029	0.70%	0.70%	47.6	47.6	42%	42%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>678</b>	<b>133,106</b>				<b>808.5</b>	<b>808.5</b>	<b>84%</b>	<b>84%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 9B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	27	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
30-34	4	1,263	0.0032	0.20%	0.20%	2.5	2.5	158%	158%
35-39	6	6,030	0.0010	0.22%	0.22%	13.6	13.6	44%	44%
40-44	42	17,026	0.0025	0.27%	0.27%	46.5	46.5	90%	90%
45-49	111	29,286	0.0038	0.39%	0.39%	112.9	112.9	98%	98%
50-54	204	35,075	0.0058	0.58%	0.58%	203.7	203.7	100%	100%
55-59	223	31,194	0.0071	0.70%	0.70%	218.4	218.4	102%	102%
60-64	108	22,001	0.0049	0.70%	0.70%	154.0	154.0	70%	70%
65-69	17	7,482	0.0023	0.70%	0.70%	52.4	52.4	32%	32%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>715</b>	<b>149,384</b>				<b>803.9</b>	<b>803.9</b>	<b>89%</b>	<b>89%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	1	81	0.0123	0.20%	0.20%	0.2	0.2	617%	617%
30-34	5	2,698	0.0019	0.23%	0.23%	6.2	6.2	81%	81%
35-39	25	11,650	0.0021	0.29%	0.29%	33.2	33.2	75%	75%
40-44	89	31,730	0.0028	0.35%	0.35%	112.0	112.0	79%	79%
45-49	223	55,325	0.0040	0.46%	0.46%	254.2	254.2	88%	88%
50-54	387	66,282	0.0058	0.61%	0.61%	403.5	403.5	96%	96%
55-59	419	59,644	0.0070	0.70%	0.70%	417.5	417.5	100%	100%
60-64	207	40,803	0.0051	0.70%	0.70%	285.6	285.6	72%	72%
65-69	37	14,277	0.0026	0.70%	0.70%	99.9	99.9	37%	37%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,393</b>	<b>282,490</b>				<b>1,612.5</b>	<b>1,612.5</b>	<b>86%</b>	<b>86%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 9A				8-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.20%	0.20%	0	0	0%	0%
21	0	0	N/A	0.20%	0.20%	0	0	0%	0%
22	0	0	N/A	0.20%	0.20%	0	0	0%	0%
23	0	0	N/A	0.20%	0.20%	0	0	0%	0%
24	0	0	N/A	0.20%	0.20%	0	0	0%	0%
25	0	0	N/A	0.20%	0.20%	0	0	0%	0%
26	0	2	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
27	1	9	0.1111	0.20%	0.20%	0.0	0.0	5556%	5556%
28	1	30	0.0333	0.20%	0.20%	0.1	0.1	1667%	1667%
29	0	90	0.0000	0.20%	0.20%	0.2	0.2	0%	0%
30	0	204	0.0000	0.20%	0.20%	0.4	0.4	0%	0%
31	0	377	0.0000	0.22%	0.22%	0.8	0.8	0%	0%
32	0	589	0.0000	0.24%	0.24%	1.4	1.4	0%	0%
33	2	860	0.0023	0.26%	0.26%	2.2	2.2	89%	89%
34	4	1,204	0.0033	0.28%	0.28%	3.4	3.4	119%	119%
35	4	1,653	0.0024	0.30%	0.30%	5.0	5.0	81%	81%
36	5	2,150	0.0023	0.32%	0.32%	6.9	6.9	73%	73%
37	5	2,759	0.0018	0.34%	0.34%	9.4	9.4	53%	53%
38	13	3,493	0.0037	0.36%	0.36%	12.6	12.6	103%	103%
39	14	4,306	0.0033	0.38%	0.38%	16.4	16.4	86%	86%
40	15	5,194	0.0029	0.40%	0.40%	20.8	20.8	72%	72%
41	11	6,058	0.0018	0.42%	0.42%	25.4	25.4	43%	43%
42	18	6,941	0.0026	0.44%	0.44%	30.5	30.5	59%	59%
43	29	7,828	0.0037	0.46%	0.46%	36.0	36.0	81%	81%
44	26	8,687	0.0030	0.48%	0.48%	41.7	41.7	62%	62%
45	29	9,493	0.0031	0.50%	0.50%	47.5	47.5	61%	61%
46	38	10,244	0.0037	0.52%	0.52%	53.3	53.3	71%	71%
47	42	10,881	0.0039	0.54%	0.54%	58.8	58.8	71%	71%
48	57	11,383	0.0050	0.56%	0.56%	63.7	63.7	89%	89%
49	64	11,762	0.0054	0.58%	0.58%	68.2	68.2	94%	94%
50	62	12,097	0.0051	0.60%	0.60%	72.6	72.6	85%	85%
51	68	12,110	0.0056	0.62%	0.62%	75.1	75.1	91%	91%
52	71	12,067	0.0059	0.64%	0.64%	77.2	77.2	92%	92%
53	87	12,090	0.0072	0.66%	0.66%	79.8	79.8	109%	109%
54	87	12,001	0.0072	0.68%	0.68%	81.6	81.6	107%	107%
55	86	11,796	0.0073	0.70%	0.70%	82.6	82.6	104%	104%
56	69	11,113	0.0062	0.70%	0.70%	77.8	77.8	89%	89%
57	75	10,396	0.0072	0.70%	0.70%	72.8	72.8	103%	103%
58	86	9,668	0.0089	0.70%	0.70%	67.7	67.7	127%	127%
59	75	8,934	0.0084	0.70%	0.70%	62.5	62.5	120%	120%
60	64	8,243	0.0078	0.70%	0.70%	57.7	57.7	111%	111%
61	45	7,609	0.0059	0.70%	0.70%	53.3	53.3	84%	84%
62	29	6,887	0.0042	0.70%	0.70%	48.2	48.2	60%	60%
63	23	5,252	0.0044	0.70%	0.70%	36.8	36.8	63%	63%
64	20	4,206	0.0048	0.70%	0.70%	29.4	29.4	68%	68%
65	13	3,392	0.0038	0.70%	0.70%	23.7	23.7	55%	55%
66	9	2,777	0.0032	0.70%	0.70%	19.4	19.4	46%	46%
67	7	2,207	0.0032	0.70%	0.70%	15.4	15.4	45%	45%
68	8	1,730	0.0046	0.70%	0.70%	12.1	12.1	66%	66%
69	5	1,405	0.0036	0.70%	0.70%	9.8	9.8	51%	51%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	1,367	262,177				1,560.2	1,560.2	88%	88%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 9B**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual Disabilities</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected (3) x (5)</u> (7)	<u>Proposed (3) x (6)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
20	0	0	N/A	0.20%	0.20%	0	0	0%	0%
21	0	0	N/A	0.20%	0.20%	0	0	0%	0%
22	0	0	N/A	0.20%	0.20%	0	0	0%	0%
23	0	0	N/A	0.20%	0.20%	0	0	0%	0%
24	0	0	N/A	0.20%	0.20%	0	0	0%	0%
25	0	0	N/A	0.20%	0.20%	0	0	0%	0%
26	0	2	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
27	0	3	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
28	0	15	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
29	0	39	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
30	1	105	0.0095	0.20%	0.20%	0.2	0.2	476%	476%
31	1	199	0.0050	0.20%	0.20%	0.4	0.4	251%	251%
32	1	379	0.0026	0.20%	0.20%	0.8	0.8	132%	132%
33	4	642	0.0062	0.20%	0.20%	1.3	1.3	312%	312%
34	1	994	0.0010	0.20%	0.20%	2.0	2.0	50%	50%
35	0	1,476	0.0000	0.20%	0.20%	3.0	3.0	0%	0%
36	4	2,057	0.0019	0.21%	0.21%	4.3	4.3	93%	93%
37	4	2,848	0.0014	0.22%	0.22%	6.3	6.3	64%	64%
38	3	3,678	0.0008	0.23%	0.23%	8.5	8.5	35%	35%
39	9	4,662	0.0019	0.24%	0.24%	11.2	11.2	80%	80%
40	13	5,688	0.0023	0.25%	0.25%	14.2	14.2	91%	91%
41	20	6,674	0.0030	0.26%	0.26%	17.4	17.4	115%	115%
42	11	7,681	0.0014	0.27%	0.27%	20.7	20.7	53%	53%
43	20	8,691	0.0023	0.28%	0.28%	24.3	24.3	82%	82%
44	29	9,601	0.0030	0.29%	0.29%	27.8	27.8	104%	104%
45	31	10,477	0.0030	0.30%	0.30%	31.4	31.4	99%	99%
46	28	11,203	0.0025	0.34%	0.34%	38.1	38.1	74%	74%
47	45	11,862	0.0038	0.38%	0.38%	45.1	45.1	100%	100%
48	46	12,393	0.0037	0.42%	0.42%	52.1	52.1	88%	88%
49	60	12,692	0.0047	0.46%	0.46%	58.4	58.4	103%	103%
50	56	12,936	0.0043	0.50%	0.50%	64.7	64.7	87%	87%
51	63	13,065	0.0048	0.54%	0.54%	70.6	70.6	89%	89%
52	68	13,237	0.0051	0.58%	0.58%	76.8	76.8	89%	89%
53	92	13,123	0.0070	0.62%	0.62%	81.4	81.4	113%	113%
54	93	13,136	0.0071	0.66%	0.66%	86.7	86.7	107%	107%
55	91	12,893	0.0071	0.70%	0.70%	90.3	90.3	101%	101%
56	76	12,138	0.0063	0.70%	0.70%	85.0	85.0	89%	89%
57	74	11,571	0.0064	0.70%	0.70%	81.0	81.0	91%	91%
58	76	10,863	0.0070	0.70%	0.70%	76.0	76.0	100%	100%
59	75	10,232	0.0073	0.70%	0.70%	71.6	71.6	105%	105%
60	68	9,552	0.0071	0.70%	0.70%	66.9	66.9	102%	102%
61	66	8,936	0.0074	0.70%	0.70%	62.6	62.6	106%	106%
62	38	8,114	0.0047	0.70%	0.70%	56.8	56.8	67%	67%
63	23	6,360	0.0036	0.70%	0.70%	44.5	44.5	52%	52%
64	17	4,922	0.0035	0.70%	0.70%	34.5	34.5	49%	49%
65	9	3,944	0.0023	0.70%	0.70%	27.6	27.6	33%	33%
66	9	3,186	0.0028	0.70%	0.70%	22.3	22.3	40%	40%
67	8	2,432	0.0033	0.70%	0.70%	17.0	17.0	47%	47%
68	2	1,894	0.0011	0.70%	0.70%	13.3	13.3	15%	15%
69	2	1,484	0.0013	0.70%	0.70%	10.4	10.4	19%	19%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	1,337	288,079				1,507.2	1,507.2	89%	89%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9C**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> <u>(1)</u>	<u>Actual Disabilities</u> <u>(2)</u>	<u>Total Exposed</u> <u>(3)</u>	<u>Actual Rate</u> <u>(2) / (3)</u> <u>(4)</u>	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> <u>(5)</u>	<u>Proposed</u> <u>(6)</u>	<u>Expected</u> <u>(3) x (5)</u> <u>(7)</u>	<u>Proposed</u> <u>(3) x (6)</u> <u>(8)</u>	<u>Expected</u> <u>(2) / (7)</u> <u>(9)</u>	<u>Proposed</u> <u>(2) / (8)</u> <u>(10)</u>
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	4	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
27	1	12	0.0833	0.20%	0.20%	0.0	0.0	4167%	4167%
28	1	45	0.0222	0.20%	0.20%	0.1	0.1	1111%	1111%
29	0	129	0.0000	0.20%	0.20%	0.3	0.3	0%	0%
30	1	309	0.0032	0.20%	0.20%	0.6	0.6	162%	162%
31	1	576	0.0017	0.21%	0.21%	1.2	1.2	81%	81%
32	1	968	0.0010	0.22%	0.22%	2.2	2.2	46%	46%
33	6	1,502	0.0040	0.23%	0.23%	3.5	3.5	170%	170%
34	5	2,198	0.0023	0.24%	0.24%	5.4	5.4	93%	93%
35	4	3,129	0.0013	0.25%	0.25%	7.9	7.9	51%	51%
36	9	4,207	0.0021	0.27%	0.27%	11.2	11.2	80%	80%
37	9	5,607	0.0016	0.28%	0.28%	15.6	15.6	58%	58%
38	16	7,171	0.0022	0.29%	0.29%	21.0	21.0	76%	76%
39	23	8,968	0.0026	0.31%	0.31%	27.6	27.6	83%	83%
40	28	10,882	0.0026	0.32%	0.32%	35.0	35.0	80%	80%
41	31	12,732	0.0024	0.34%	0.34%	42.8	42.8	72%	72%
42	29	14,622	0.0020	0.35%	0.35%	51.3	51.3	57%	57%
43	49	16,519	0.0030	0.37%	0.37%	60.3	60.3	81%	81%
44	55	18,288	0.0030	0.38%	0.38%	69.5	69.5	79%	79%
45	60	19,970	0.0030	0.40%	0.40%	78.9	78.9	76%	76%
46	66	21,447	0.0031	0.43%	0.43%	91.4	91.4	72%	72%
47	87	22,743	0.0038	0.46%	0.46%	103.8	103.8	84%	84%
48	103	23,776	0.0043	0.49%	0.49%	115.8	115.8	89%	89%
49	124	24,454	0.0051	0.52%	0.52%	126.6	126.6	98%	98%
50	118	25,033	0.0047	0.55%	0.55%	137.3	137.3	86%	86%
51	131	25,175	0.0052	0.58%	0.58%	145.6	145.6	90%	90%
52	139	25,304	0.0055	0.61%	0.61%	154.0	154.0	90%	90%
53	179	25,213	0.0071	0.64%	0.64%	161.2	161.2	111%	111%
54	180	25,137	0.0072	0.67%	0.67%	168.3	168.3	107%	107%
55	177	24,689	0.0072	0.70%	0.70%	172.8	172.8	102%	102%
56	145	23,251	0.0062	0.70%	0.70%	162.8	162.8	89%	89%
57	149	21,967	0.0068	0.70%	0.70%	153.8	153.8	97%	97%
58	162	20,531	0.0079	0.70%	0.70%	143.7	143.7	113%	113%
59	150	19,166	0.0078	0.70%	0.70%	134.2	134.2	112%	112%
60	132	17,795	0.0074	0.70%	0.70%	124.6	124.6	106%	106%
61	111	16,545	0.0067	0.70%	0.70%	115.8	115.8	96%	96%
62	67	15,001	0.0045	0.70%	0.70%	105.0	105.0	64%	64%
63	46	11,612	0.0040	0.70%	0.70%	81.3	81.3	57%	57%
64	37	9,128	0.0041	0.70%	0.70%	63.9	63.9	58%	58%
65	22	7,336	0.0030	0.70%	0.70%	51.4	51.4	43%	43%
66	18	5,963	0.0030	0.70%	0.70%	41.7	41.7	43%	43%
67	15	4,639	0.0032	0.70%	0.70%	32.5	32.5	46%	46%
68	10	3,624	0.0028	0.70%	0.70%	25.4	25.4	39%	39%
69	7	2,889	0.0024	0.70%	0.70%	20.2	20.2	35%	35%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>2,704</b>	<b>550,256</b>				<b>3,067.4</b>	<b>3,067.4</b>	<b>88%</b>	<b>88%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 9A GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	2	131	0.0153	0.20%	0.20%	0.3	0.3	763%	763%
30-34	6	3,234	0.0019	0.26%	0.26%	8.3	8.3	73%	73%
35-39	41	14,361	0.0029	0.35%	0.35%	50.2	50.2	82%	82%
40-44	99	34,708	0.0029	0.45%	0.45%	154.5	154.5	64%	64%
45-49	230	53,763	0.0043	0.54%	0.54%	291.5	291.5	79%	79%
50-54	375	60,365	0.0062	0.64%	0.64%	386.3	386.3	97%	97%
55-59	391	51,907	0.0075	0.70%	0.70%	363.3	363.3	108%	108%
60-64	181	32,197	0.0056	0.70%	0.70%	225.4	225.4	80%	80%
65-69	42	11,511	0.0036	0.70%	0.70%	80.6	80.6	52%	52%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,367</b>	<b>262,177</b>				<b>1,560.2</b>	<b>1,560.2</b>	<b>88%</b>	<b>88%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 9B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	59	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
30-34	8	2,319	0.0034	0.20%	0.20%	4.6	4.6	172%	172%
35-39	20	14,721	0.0014	0.23%	0.23%	33.2	33.2	60%	60%
40-44	93	38,335	0.0024	0.27%	0.27%	104.5	104.5	89%	89%
45-49	210	58,627	0.0036	0.38%	0.38%	225.0	225.0	93%	93%
50-54	372	65,497	0.0057	0.58%	0.58%	380.1	380.1	98%	98%
55-59	392	57,697	0.0068	0.70%	0.70%	403.9	403.9	97%	97%
60-64	212	37,884	0.0056	0.70%	0.70%	265.2	265.2	80%	80%
65-69	30	12,940	0.0023	0.70%	0.70%	90.6	90.6	33%	33%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,337</b>	<b>288,079</b>				<b>1,507.2</b>	<b>1,507.2</b>	<b>89%</b>	<b>89%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	2	190	0.0105	0.20%	0.20%	0.4	0.4	526%	526%
30-34	14	5,553	0.0025	0.23%	0.23%	12.9	12.9	109%	109%
35-39	61	29,082	0.0021	0.29%	0.29%	83.3	83.3	73%	73%
40-44	192	73,043	0.0026	0.35%	0.35%	259.0	259.0	74%	74%
45-49	440	112,390	0.0039	0.46%	0.46%	516.5	516.5	85%	85%
50-54	747	125,862	0.0059	0.61%	0.61%	766.4	766.4	97%	97%
55-59	783	109,604	0.0071	0.70%	0.70%	767.2	767.2	102%	102%
60-64	393	70,081	0.0056	0.70%	0.70%	490.6	490.6	80%	80%
65-69	72	24,451	0.0029	0.70%	0.70%	171.2	171.2	42%	42%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2,704</b>	<b>550,256</b>				<b>3,067.4</b>	<b>3,067.4</b>	<b>88%</b>	<b>88%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 9D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	64,636	405	343.3	118%	0.63%	0.53%
2005	66,660	259	358.2	72%	0.39%	0.54%
2006	67,782	287	371.4	77%	0.42%	0.55%
2007	68,688	369	382.1	97%	0.54%	0.56%
2008	68,579	353	386.4	91%	0.51%	0.56%
2009	69,918	335	397.7	84%	0.48%	0.57%
2010	71,183	352	408.6	86%	0.49%	0.57%
2011	72,810	364	419.8	87%	0.50%	0.58%
2012	72,472	343	420.0	82%	0.47%	0.58%
2013	72,213	180	421.3	43%	0.25%	0.58%
Total	694,941	3,247	3,908.6	83%	0.47%	0.56%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	81	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
21	0	205	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
22	0	406	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
23	0	692	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
24	0	1,021	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
25	0	1,336	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
26	0	1,599	0.0000	0.04%	0.04%	0.6	0.6	0%	0%
27	0	1,844	0.0000	0.04%	0.04%	0.7	0.7	0%	0%
28	0	2,106	0.0000	0.04%	0.04%	0.8	0.8	0%	0%
29	0	2,297	0.0000	0.04%	0.04%	0.9	0.9	0%	0%
30	0	2,603	0.0000	0.04%	0.04%	1.0	1.0	0%	0%
31	2	2,774	0.0007	0.04%	0.04%	1.1	1.1	180%	180%
32	1	2,913	0.0003	0.04%	0.04%	1.2	1.2	86%	86%
33	0	3,005	0.0000	0.04%	0.04%	1.2	1.2	0%	0%
34	1	3,066	0.0003	0.04%	0.04%	1.2	1.2	82%	82%
35	3	3,274	0.0009	0.04%	0.04%	1.3	1.3	229%	229%
36	3	3,387	0.0009	0.04%	0.04%	1.4	1.4	221%	221%
37	4	3,729	0.0011	0.04%	0.04%	1.5	1.5	268%	268%
38	3	4,111	0.0007	0.04%	0.04%	1.6	1.6	182%	182%
39	3	4,488	0.0007	0.04%	0.04%	1.8	1.8	167%	167%
40	3	4,876	0.0006	0.04%	0.04%	2.0	2.0	154%	154%
41	2	5,197	0.0004	0.04%	0.04%	2.1	2.1	96%	96%
42	2	5,655	0.0004	0.04%	0.04%	2.3	2.3	88%	88%
43	1	6,060	0.0002	0.04%	0.04%	2.4	2.4	41%	41%
44	2	6,644	0.0003	0.04%	0.04%	2.7	2.7	75%	75%
45	2	7,196	0.0003	0.04%	0.04%	2.9	2.9	69%	69%
46	3	7,617	0.0004	0.04%	0.04%	3.0	3.0	98%	98%
47	5	8,090	0.0006	0.04%	0.04%	3.2	3.2	155%	155%
48	1	8,370	0.0001	0.04%	0.04%	3.3	3.3	30%	30%
49	2	8,519	0.0002	0.04%	0.04%	3.4	3.4	59%	59%
50	4	8,670	0.0005	0.04%	0.04%	3.5	3.5	115%	115%
51	0	8,619	0.0000	0.04%	0.04%	3.4	3.4	0%	0%
52	1	8,586	0.0001	0.04%	0.04%	3.4	3.4	29%	29%
53	2	8,644	0.0002	0.04%	0.04%	3.5	3.5	58%	58%
54	2	8,523	0.0002	0.04%	0.04%	3.4	3.4	59%	59%
55	4	8,303	0.0005	0.04%	0.04%	3.3	3.3	120%	120%
56	2	7,845	0.0003	0.04%	0.04%	3.1	3.1	64%	64%
57	0	7,400	0.0000	0.04%	0.04%	3.0	3.0	0%	0%
58	1	7,056	0.0001	0.04%	0.04%	2.8	2.8	35%	35%
59	2	6,682	0.0003	0.04%	0.04%	2.7	2.7	75%	75%
60	1	6,236	0.0002	0.04%	0.04%	2.5	2.5	40%	40%
61	0	5,759	0.0000	0.04%	0.04%	2.3	2.3	0%	0%
62	2	5,104	0.0004	0.04%	0.04%	2.0	2.0	98%	98%
63	0	3,913	0.0000	0.04%	0.04%	1.6	1.6	0%	0%
64	1	3,143	0.0003	0.04%	0.04%	1.3	1.3	80%	80%
65	1	2,591	0.0004	0.04%	0.04%	1.0	1.0	96%	96%
66	0	2,176	0.0000	0.04%	0.04%	0.9	0.9	0%	0%
67	0	1,700	0.0000	0.04%	0.04%	0.7	0.7	0%	0%
68	0	1,304	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
69	0	1,024	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	14	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>66</b>	<b>226,453</b>				<b>90.6</b>	<b>90.6</b>	<b>73%</b>	<b>73%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	50	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
21	0	123	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
22	0	255	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
23	0	532	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
24	0	951	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
25	0	1,544	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
26	0	2,019	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
27	0	2,500	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
28	0	3,064	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
29	0	3,482	0.0000	0.02%	0.02%	0.7	0.7	0%	0%
30	2	3,834	0.0005	0.02%	0.02%	0.8	0.8	261%	261%
31	0	4,132	0.0000	0.02%	0.02%	0.8	0.8	0%	0%
32	0	4,411	0.0000	0.02%	0.02%	0.9	0.9	0%	0%
33	1	4,595	0.0002	0.02%	0.02%	0.9	0.9	109%	109%
34	0	4,716	0.0000	0.02%	0.02%	0.9	0.9	0%	0%
35	1	4,928	0.0002	0.02%	0.02%	1.0	1.0	101%	101%
36	2	5,033	0.0004	0.02%	0.02%	1.0	1.0	199%	199%
37	0	5,414	0.0000	0.02%	0.02%	1.1	1.1	0%	0%
38	1	5,862	0.0002	0.02%	0.02%	1.2	1.2	85%	85%
39	0	6,275	0.0000	0.02%	0.02%	1.3	1.3	0%	0%
40	1	6,790	0.0001	0.02%	0.02%	1.4	1.4	74%	74%
41	2	7,089	0.0003	0.02%	0.02%	1.4	1.4	141%	141%
42	3	7,520	0.0004	0.02%	0.02%	1.5	1.5	199%	199%
43	1	8,137	0.0001	0.02%	0.02%	1.6	1.6	61%	61%
44	1	8,641	0.0001	0.02%	0.02%	1.7	1.7	58%	58%
45	3	9,173	0.0003	0.02%	0.02%	1.8	1.8	164%	164%
46	5	9,456	0.0005	0.02%	0.02%	1.9	1.9	264%	264%
47	4	9,872	0.0004	0.02%	0.02%	2.0	2.0	203%	203%
48	1	10,170	0.0001	0.02%	0.02%	2.0	2.0	49%	49%
49	3	10,422	0.0003	0.02%	0.02%	2.1	2.1	144%	144%
50	2	10,529	0.0002	0.02%	0.02%	2.1	2.1	95%	95%
51	2	10,601	0.0002	0.02%	0.02%	2.1	2.1	94%	94%
52	4	10,534	0.0004	0.02%	0.02%	2.1	2.1	190%	190%
53	0	10,321	0.0000	0.02%	0.02%	2.1	2.1	0%	0%
54	1	10,105	0.0001	0.02%	0.02%	2.0	2.0	49%	49%
55	3	9,644	0.0003	0.02%	0.02%	1.9	1.9	156%	156%
56	0	9,136	0.0000	0.02%	0.02%	1.8	1.8	0%	0%
57	1	8,596	0.0001	0.02%	0.02%	1.7	1.7	58%	58%
58	1	8,106	0.0001	0.02%	0.02%	1.6	1.6	62%	62%
59	2	7,649	0.0003	0.02%	0.02%	1.5	1.5	131%	131%
60	0	7,122	0.0000	0.02%	0.02%	1.4	1.4	0%	0%
61	0	6,797	0.0000	0.02%	0.02%	1.4	1.4	0%	0%
62	1	6,137	0.0002	0.02%	0.02%	1.2	1.2	81%	81%
63	1	4,865	0.0002	0.02%	0.02%	1.0	1.0	103%	103%
64	0	3,795	0.0000	0.02%	0.02%	0.8	0.8	0%	0%
65	0	2,948	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
66	0	2,353	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
67	0	1,741	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
68	0	1,334	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
69	0	1,037	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	12	0.0000	0.00%	0.00%	0	0	0%	0%
Total	49	284,352				56.9	56.9	86%	86%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u>	<u>Actual Disabilities</u>	<u>Total Exposed</u>	<u>Actual Rate (2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected (5)</u>	<u>Proposed (6)</u>	<u>Expected (3) x (5)</u>	<u>Proposed (3) x (6)</u>	<u>Expected (2) / (7)</u>	<u>Proposed (2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
20	0	131	0.0000	0.03%	0.03%	0.0	0.0	0%	0%
21	0	328	0.0000	0.03%	0.03%	0.1	0.1	0%	0%
22	0	661	0.0000	0.03%	0.03%	0.2	0.2	0%	0%
23	0	1,224	0.0000	0.03%	0.03%	0.4	0.4	0%	0%
24	0	1,972	0.0000	0.03%	0.03%	0.6	0.6	0%	0%
25	0	2,880	0.0000	0.03%	0.03%	0.8	0.8	0%	0%
26	0	3,618	0.0000	0.03%	0.03%	1.0	1.0	0%	0%
27	0	4,344	0.0000	0.03%	0.03%	1.2	1.2	0%	0%
28	0	5,170	0.0000	0.03%	0.03%	1.5	1.5	0%	0%
29	0	5,779	0.0000	0.03%	0.03%	1.6	1.6	0%	0%
30	2	6,437	0.0003	0.03%	0.03%	1.8	1.8	111%	111%
31	2	6,906	0.0003	0.03%	0.03%	1.9	1.9	103%	103%
32	1	7,324	0.0001	0.03%	0.03%	2.0	2.0	49%	49%
33	1	7,600	0.0001	0.03%	0.03%	2.1	2.1	47%	47%
34	1	7,782	0.0001	0.03%	0.03%	2.2	2.2	46%	46%
35	4	8,202	0.0005	0.03%	0.03%	2.3	2.3	174%	174%
36	5	8,420	0.0006	0.03%	0.03%	2.4	2.4	212%	212%
37	4	9,143	0.0004	0.03%	0.03%	2.6	2.6	155%	155%
38	4	9,973	0.0004	0.03%	0.03%	2.8	2.8	142%	142%
39	3	10,763	0.0003	0.03%	0.03%	3.1	3.1	98%	98%
40	4	11,666	0.0003	0.03%	0.03%	3.3	3.3	121%	121%
41	4	12,286	0.0003	0.03%	0.03%	3.5	3.5	114%	114%
42	5	13,175	0.0004	0.03%	0.03%	3.8	3.8	133%	133%
43	2	14,197	0.0001	0.03%	0.03%	4.1	4.1	49%	49%
44	3	15,285	0.0002	0.03%	0.03%	4.4	4.4	68%	68%
45	5	16,369	0.0003	0.03%	0.03%	4.7	4.7	106%	106%
46	8	17,073	0.0005	0.03%	0.03%	4.9	4.9	162%	162%
47	9	17,962	0.0005	0.03%	0.03%	5.2	5.2	173%	173%
48	2	18,540	0.0001	0.03%	0.03%	5.4	5.4	37%	37%
49	5	18,941	0.0003	0.03%	0.03%	5.5	5.5	91%	91%
50	6	19,199	0.0003	0.03%	0.03%	5.6	5.6	108%	108%
51	2	19,220	0.0001	0.03%	0.03%	5.6	5.6	36%	36%
52	5	19,120	0.0003	0.03%	0.03%	5.5	5.5	90%	90%
53	2	18,965	0.0001	0.03%	0.03%	5.5	5.5	36%	36%
54	3	18,628	0.0002	0.03%	0.03%	5.4	5.4	55%	55%
55	7	17,947	0.0004	0.03%	0.03%	5.3	5.3	133%	133%
56	2	16,981	0.0001	0.03%	0.03%	5.0	5.0	40%	40%
57	1	15,996	0.0001	0.03%	0.03%	4.7	4.7	21%	21%
58	2	15,162	0.0001	0.03%	0.03%	4.4	4.4	45%	45%
59	4	14,331	0.0003	0.03%	0.03%	4.2	4.2	95%	95%
60	1	13,358	0.0001	0.03%	0.03%	3.9	3.9	26%	26%
61	0	12,556	0.0000	0.03%	0.03%	3.7	3.7	0%	0%
62	3	11,241	0.0003	0.03%	0.03%	3.3	3.3	92%	92%
63	1	8,778	0.0001	0.03%	0.03%	2.5	2.5	39%	39%
64	1	6,938	0.0001	0.03%	0.03%	2.0	2.0	50%	50%
65	1	5,539	0.0002	0.03%	0.03%	1.6	1.6	62%	62%
66	0	4,529	0.0000	0.03%	0.03%	1.3	1.3	0%	0%
67	0	3,441	0.0000	0.03%	0.03%	1.0	1.0	0%	0%
68	0	2,638	0.0000	0.03%	0.03%	0.8	0.8	0%	0%
69	0	2,061	0.0000	0.03%	0.03%	0.6	0.6	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	26	0.0000	0.00%	0.00%	0	0	0%	0%
Total	115	510,805				147.4	147.4	78%	78%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	2,405	0.0000	0.04%	0.04%	1.0	1.0	0%	0%
25-29	0	9,182	0.0000	0.04%	0.04%	3.7	3.7	0%	0%
30-34	4	14,361	0.0003	0.04%	0.04%	5.7	5.7	70%	70%
35-39	16	18,989	0.0008	0.04%	0.04%	7.6	7.6	211%	211%
40-44	10	28,432	0.0004	0.04%	0.04%	11.4	11.4	88%	88%
45-49	13	39,792	0.0003	0.04%	0.04%	15.9	15.9	82%	82%
50-54	9	43,042	0.0002	0.04%	0.04%	17.2	17.2	52%	52%
55-59	9	37,286	0.0002	0.04%	0.04%	14.9	14.9	60%	60%
60-64	4	24,155	0.0002	0.04%	0.04%	9.7	9.7	41%	41%
65-69	1	8,795	0.0001	0.04%	0.04%	3.5	3.5	28%	28%
70-74	0	0	N/A			0	0	0%	0%
Other	0	14	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>66</b>	<b>226,453</b>				<b>90.6</b>	<b>90.6</b>	<b>73%</b>	<b>73%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,911	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
25-29	0	12,609	0.0000	0.02%	0.02%	2.5	2.5	0%	0%
30-34	3	21,688	0.0001	0.02%	0.02%	4.3	4.3	69%	69%
35-39	4	27,512	0.0001	0.02%	0.02%	5.5	5.5	73%	73%
40-44	8	38,177	0.0002	0.02%	0.02%	7.6	7.6	105%	105%
45-49	16	49,093	0.0003	0.02%	0.02%	9.8	9.8	163%	163%
50-54	9	52,090	0.0002	0.02%	0.02%	10.4	10.4	86%	86%
55-59	7	43,131	0.0002	0.02%	0.02%	8.6	8.6	81%	81%
60-64	2	28,716	0.0001	0.02%	0.02%	5.7	5.7	35%	35%
65-69	0	9,413	0.0000	0.02%	0.02%	1.9	1.9	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	12	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>49</b>	<b>284,352</b>				<b>56.9</b>	<b>56.9</b>	<b>86%</b>	<b>86%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	4,316	0.0000	0.03%	0.03%	1.3	1.3	0%	0%
25-29	0	21,791	0.0000	0.03%	0.03%	6.2	6.2	0%	0%
30-34	7	36,049	0.0002	0.03%	0.03%	10.1	10.1	69%	69%
35-39	20	46,501	0.0004	0.03%	0.03%	13.1	13.1	153%	153%
40-44	18	66,609	0.0003	0.03%	0.03%	19.0	19.0	95%	95%
45-49	29	88,885	0.0003	0.03%	0.03%	25.7	25.7	113%	113%
50-54	18	95,132	0.0002	0.03%	0.03%	27.6	27.6	65%	65%
55-59	16	80,417	0.0002	0.03%	0.03%	23.5	23.5	68%	68%
60-64	6	52,871	0.0001	0.03%	0.03%	15.4	15.4	39%	39%
65-69	1	18,208	0.0001	0.03%	0.03%	5.4	5.4	19%	19%
70-74	0	0	N/A			0	0	0%	0%
Other	0	26	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>115</b>	<b>510,805</b>				<b>147.4</b>	<b>147.4</b>	<b>78%</b>	<b>78%</b>

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN

TABLE 10A

8-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	124	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
21	0	351	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
22	0	695	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
23	0	1,163	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
24	0	1,757	0.0000	0.04%	0.04%	0.7	0.7	0%	0%
25	0	2,363	0.0000	0.04%	0.04%	0.9	0.9	0%	0%
26	0	2,908	0.0000	0.04%	0.04%	1.2	1.2	0%	0%
27	1	3,389	0.0003	0.04%	0.04%	1.4	1.4	74%	74%
28	0	3,821	0.0000	0.04%	0.04%	1.5	1.5	0%	0%
29	0	4,184	0.0000	0.04%	0.04%	1.7	1.7	0%	0%
30	0	4,629	0.0000	0.04%	0.04%	1.9	1.9	0%	0%
31	4	4,991	0.0008	0.04%	0.04%	2.0	2.0	200%	200%
32	1	5,322	0.0002	0.04%	0.04%	2.1	2.1	47%	47%
33	0	5,747	0.0000	0.04%	0.04%	2.3	2.3	0%	0%
34	3	6,166	0.0005	0.04%	0.04%	2.5	2.5	122%	122%
35	5	6,824	0.0007	0.04%	0.04%	2.7	2.7	183%	183%
36	5	7,452	0.0007	0.04%	0.04%	3.0	3.0	168%	168%
37	7	8,224	0.0009	0.04%	0.04%	3.3	3.3	213%	213%
38	5	9,073	0.0006	0.04%	0.04%	3.6	3.6	138%	138%
39	5	9,878	0.0005	0.04%	0.04%	4.0	4.0	127%	127%
40	9	10,868	0.0008	0.04%	0.04%	4.3	4.3	207%	207%
41	5	11,775	0.0004	0.04%	0.04%	4.7	4.7	106%	106%
42	8	12,717	0.0006	0.04%	0.04%	5.1	5.1	157%	157%
43	6	13,680	0.0004	0.04%	0.04%	5.5	5.5	110%	110%
44	3	14,538	0.0002	0.04%	0.04%	5.8	5.8	52%	52%
45	11	15,314	0.0007	0.04%	0.04%	6.1	6.1	180%	180%
46	9	15,971	0.0006	0.04%	0.04%	6.4	6.4	141%	141%
47	8	16,520	0.0005	0.04%	0.04%	6.6	6.6	121%	121%
48	7	16,885	0.0004	0.04%	0.04%	6.8	6.8	104%	104%
49	6	17,144	0.0003	0.04%	0.04%	6.9	6.9	87%	87%
50	6	17,276	0.0003	0.04%	0.04%	6.9	6.9	87%	87%
51	3	17,035	0.0002	0.04%	0.04%	6.8	6.8	44%	44%
52	6	16,843	0.0004	0.04%	0.04%	6.7	6.7	89%	89%
53	7	16,567	0.0004	0.04%	0.04%	6.6	6.6	106%	106%
54	6	16,257	0.0004	0.04%	0.04%	6.5	6.5	92%	92%
55	7	15,799	0.0004	0.04%	0.04%	6.3	6.3	111%	111%
56	4	14,853	0.0003	0.04%	0.04%	5.9	5.9	67%	67%
57	2	13,929	0.0001	0.04%	0.04%	5.6	5.6	36%	36%
58	5	12,899	0.0004	0.04%	0.04%	5.2	5.2	97%	97%
59	5	11,845	0.0004	0.04%	0.04%	4.7	4.7	106%	106%
60	2	10,850	0.0002	0.04%	0.04%	4.3	4.3	46%	46%
61	2	9,910	0.0002	0.04%	0.04%	4.0	4.0	50%	50%
62	4	8,863	0.0005	0.04%	0.04%	3.5	3.5	113%	113%
63	3	6,887	0.0004	0.04%	0.04%	2.8	2.8	109%	109%
64	2	5,538	0.0004	0.04%	0.04%	2.2	2.2	90%	90%
65	3	4,534	0.0007	0.04%	0.04%	1.8	1.8	165%	165%
66	0	3,680	0.0000	0.04%	0.04%	1.5	1.5	0%	0%
67	0	2,912	0.0000	0.04%	0.04%	1.2	1.2	0%	0%
68	1	2,288	0.0004	0.04%	0.04%	0.9	0.9	109%	109%
69	0	1,808	0.0000	0.04%	0.04%	0.7	0.7	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	22	0.0000	0.00%	0.00%	0	0	0%	0%
Total	176	445,068				178.0	178.0	99%	99%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	74	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
21	0	195	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
22	0	461	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
23	0	960	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
24	0	1,748	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
25	0	2,797	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
26	0	3,769	0.0000	0.02%	0.02%	0.8	0.8	0%	0%
27	0	4,636	0.0000	0.02%	0.02%	0.9	0.9	0%	0%
28	0	5,659	0.0000	0.02%	0.02%	1.1	1.1	0%	0%
29	0	6,353	0.0000	0.02%	0.02%	1.3	1.3	0%	0%
30	2	6,958	0.0003	0.02%	0.02%	1.4	1.4	144%	144%
31	1	7,531	0.0001	0.02%	0.02%	1.5	1.5	66%	66%
32	0	8,038	0.0000	0.02%	0.02%	1.6	1.6	0%	0%
33	3	8,738	0.0003	0.02%	0.02%	1.7	1.7	172%	172%
34	0	9,328	0.0000	0.02%	0.02%	1.9	1.9	0%	0%
35	2	9,966	0.0002	0.02%	0.02%	2.0	2.0	100%	100%
36	3	10,642	0.0003	0.02%	0.02%	2.1	2.1	141%	141%
37	2	11,440	0.0002	0.02%	0.02%	2.3	2.3	87%	87%
38	3	12,466	0.0002	0.02%	0.02%	2.5	2.5	120%	120%
39	1	13,488	0.0001	0.02%	0.02%	2.7	2.7	37%	37%
40	2	14,487	0.0001	0.02%	0.02%	2.9	2.9	69%	69%
41	4	15,417	0.0003	0.02%	0.02%	3.1	3.1	130%	130%
42	10	16,258	0.0006	0.02%	0.02%	3.3	3.3	308%	308%
43	3	17,301	0.0002	0.02%	0.02%	3.5	3.5	87%	87%
44	5	18,094	0.0003	0.02%	0.02%	3.6	3.6	138%	138%
45	3	18,932	0.0002	0.02%	0.02%	3.8	3.8	79%	79%
46	6	19,448	0.0003	0.02%	0.02%	3.9	3.9	154%	154%
47	5	19,987	0.0003	0.02%	0.02%	4.0	4.0	125%	125%
48	7	20,305	0.0003	0.02%	0.02%	4.1	4.1	172%	172%
49	6	20,354	0.0003	0.02%	0.02%	4.1	4.1	147%	147%
50	7	20,324	0.0003	0.02%	0.02%	4.1	4.1	172%	172%
51	3	20,023	0.0001	0.02%	0.02%	4.0	4.0	75%	75%
52	6	19,832	0.0003	0.02%	0.02%	4.0	4.0	151%	151%
53	2	19,340	0.0001	0.02%	0.02%	3.9	3.9	52%	52%
54	1	18,936	0.0001	0.02%	0.02%	3.8	3.8	26%	26%
55	4	18,235	0.0002	0.02%	0.02%	3.6	3.6	110%	110%
56	1	17,165	0.0001	0.02%	0.02%	3.4	3.4	29%	29%
57	1	16,213	0.0001	0.02%	0.02%	3.2	3.2	31%	31%
58	5	15,072	0.0003	0.02%	0.02%	3.0	3.0	166%	166%
59	3	13,999	0.0002	0.02%	0.02%	2.8	2.8	107%	107%
60	0	12,843	0.0000	0.02%	0.02%	2.6	2.6	0%	0%
61	0	11,818	0.0000	0.02%	0.02%	2.4	2.4	0%	0%
62	3	10,600	0.0003	0.02%	0.02%	2.1	2.1	142%	142%
63	2	8,326	0.0002	0.02%	0.02%	1.7	1.7	120%	120%
64	0	6,506	0.0000	0.02%	0.02%	1.3	1.3	0%	0%
65	0	5,149	0.0000	0.02%	0.02%	1.0	1.0	0%	0%
66	1	4,073	0.0002	0.02%	0.02%	0.8	0.8	123%	123%
67	0	3,046	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
68	0	2,352	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
69	1	1,784	0.0006	0.02%	0.02%	0.4	0.4	280%	280%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	17	0.0000	0.00%	0.00%	0	0	0%	0%
Total	108	551,483				110.3	110.3	98%	98%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	198	0.0000	0.03%	0.03%	0.1	0.1	0%	0%
21	0	546	0.0000	0.03%	0.03%	0.2	0.2	0%	0%
22	0	1,156	0.0000	0.03%	0.03%	0.4	0.4	0%	0%
23	0	2,123	0.0000	0.03%	0.03%	0.7	0.7	0%	0%
24	0	3,505	0.0000	0.03%	0.03%	1.1	1.1	0%	0%
25	0	5,160	0.0000	0.03%	0.03%	1.5	1.5	0%	0%
26	0	6,677	0.0000	0.03%	0.03%	1.9	1.9	0%	0%
27	1	8,025	0.0001	0.03%	0.03%	2.3	2.3	44%	44%
28	0	9,480	0.0000	0.03%	0.03%	2.7	2.7	0%	0%
29	0	10,537	0.0000	0.03%	0.03%	2.9	2.9	0%	0%
30	2	11,587	0.0002	0.03%	0.03%	3.2	3.2	62%	62%
31	5	12,522	0.0004	0.03%	0.03%	3.5	3.5	143%	143%
32	1	13,360	0.0001	0.03%	0.03%	3.7	3.7	27%	27%
33	3	14,485	0.0002	0.03%	0.03%	4.0	4.0	74%	74%
34	3	15,494	0.0002	0.03%	0.03%	4.3	4.3	69%	69%
35	7	16,790	0.0004	0.03%	0.03%	4.7	4.7	148%	148%
36	8	18,094	0.0004	0.03%	0.03%	5.1	5.1	157%	157%
37	9	19,664	0.0005	0.03%	0.03%	5.6	5.6	161%	161%
38	8	21,539	0.0004	0.03%	0.03%	6.1	6.1	131%	131%
39	6	23,366	0.0003	0.03%	0.03%	6.6	6.6	90%	90%
40	11	25,355	0.0004	0.03%	0.03%	7.2	7.2	152%	152%
41	9	27,192	0.0003	0.03%	0.03%	7.8	7.8	115%	115%
42	18	28,975	0.0006	0.03%	0.03%	8.3	8.3	216%	216%
43	9	30,981	0.0003	0.03%	0.03%	8.9	8.9	101%	101%
44	8	32,632	0.0002	0.03%	0.03%	9.4	9.4	85%	85%
45	14	34,246	0.0004	0.03%	0.03%	9.9	9.9	141%	141%
46	15	35,419	0.0004	0.03%	0.03%	10.3	10.3	146%	146%
47	13	36,507	0.0004	0.03%	0.03%	10.6	10.6	123%	123%
48	14	37,190	0.0004	0.03%	0.03%	10.8	10.8	129%	129%
49	12	37,498	0.0003	0.03%	0.03%	10.9	10.9	110%	110%
50	13	37,600	0.0003	0.03%	0.03%	11.0	11.0	118%	118%
51	6	37,058	0.0002	0.03%	0.03%	10.8	10.8	55%	55%
52	12	36,675	0.0003	0.03%	0.03%	10.7	10.7	112%	112%
53	9	35,907	0.0003	0.03%	0.03%	10.5	10.5	86%	86%
54	7	35,193	0.0002	0.03%	0.03%	10.3	10.3	68%	68%
55	11	34,034	0.0003	0.03%	0.03%	10.0	10.0	110%	110%
56	5	32,018	0.0002	0.03%	0.03%	9.4	9.4	53%	53%
57	3	30,142	0.0001	0.03%	0.03%	8.8	8.8	34%	34%
58	10	27,971	0.0004	0.03%	0.03%	8.2	8.2	122%	122%
59	8	25,844	0.0003	0.03%	0.03%	7.5	7.5	106%	106%
60	2	23,693	0.0001	0.03%	0.03%	6.9	6.9	29%	29%
61	2	21,728	0.0001	0.03%	0.03%	6.3	6.3	32%	32%
62	7	19,463	0.0004	0.03%	0.03%	5.7	5.7	124%	124%
63	5	15,213	0.0003	0.03%	0.03%	4.4	4.4	113%	113%
64	2	12,044	0.0002	0.03%	0.03%	3.5	3.5	57%	57%
65	3	9,683	0.0003	0.03%	0.03%	2.8	2.8	106%	106%
66	1	7,753	0.0001	0.03%	0.03%	2.3	2.3	44%	44%
67	0	5,958	0.0000	0.03%	0.03%	1.8	1.8	0%	0%
68	1	4,640	0.0002	0.03%	0.03%	1.4	1.4	72%	72%
69	1	3,592	0.0003	0.03%	0.03%	1.1	1.1	93%	93%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	39	0.0000	0.00%	0.00%	0	0	0%	0%
Total	284	996,551				288.3	288.3	99%	99%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	4,090	0.0000	0.04%	0.04%	1.6	1.6	0%	0%
25-29	1	16,665	0.0001	0.04%	0.04%	6.7	6.7	15%	15%
30-34	8	26,855	0.0003	0.04%	0.04%	10.7	10.7	74%	74%
35-39	27	41,451	0.0007	0.04%	0.04%	16.6	16.6	163%	163%
40-44	31	63,578	0.0005	0.04%	0.04%	25.4	25.4	122%	122%
45-49	41	81,834	0.0005	0.04%	0.04%	32.7	32.7	125%	125%
50-54	28	83,978	0.0003	0.04%	0.04%	33.6	33.6	83%	83%
55-59	23	69,325	0.0003	0.04%	0.04%	27.7	27.7	83%	83%
60-64	13	42,048	0.0003	0.04%	0.04%	16.8	16.8	77%	77%
65-69	4	15,222	0.0003	0.04%	0.04%	6.1	6.1	66%	66%
70-74	0	0	N/A			0	0	0%	0%
Other	0	22	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>176</b>	<b>445,068</b>				<b>178.0</b>	<b>178.0</b>	<b>99%</b>	<b>99%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	3,438	0.0000	0.02%	0.02%	0.7	0.7	0%	0%
25-29	0	23,214	0.0000	0.02%	0.02%	4.6	4.6	0%	0%
30-34	6	40,593	0.0001	0.02%	0.02%	8.1	8.1	74%	74%
35-39	11	58,002	0.0002	0.02%	0.02%	11.6	11.6	95%	95%
40-44	24	81,557	0.0003	0.02%	0.02%	16.3	16.3	147%	147%
45-49	27	99,026	0.0003	0.02%	0.02%	19.8	19.8	136%	136%
50-54	19	98,455	0.0002	0.02%	0.02%	19.7	19.7	96%	96%
55-59	14	80,684	0.0002	0.02%	0.02%	16.1	16.1	87%	87%
60-64	5	50,093	0.0001	0.02%	0.02%	10.0	10.0	50%	50%
65-69	2	16,404	0.0001	0.02%	0.02%	3.3	3.3	61%	61%
70-74	0	0	N/A			0	0	0%	0%
Other	0	17	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>108</b>	<b>551,483</b>				<b>110.3</b>	<b>110.3</b>	<b>98%</b>	<b>98%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	7,528	0.0000	0.03%	0.03%	2.3	2.3	0%	0%
25-29	1	39,879	0.0000	0.03%	0.03%	11.3	11.3	9%	9%
30-34	14	67,448	0.0002	0.03%	0.03%	18.9	18.9	74%	74%
35-39	38	99,453	0.0004	0.03%	0.03%	28.2	28.2	135%	135%
40-44	55	145,135	0.0004	0.03%	0.03%	41.7	41.7	132%	132%
45-49	68	180,860	0.0004	0.03%	0.03%	52.5	52.5	129%	129%
50-54	47	182,433	0.0003	0.03%	0.03%	53.3	53.3	88%	88%
55-59	37	150,009	0.0002	0.03%	0.03%	43.9	43.9	84%	84%
60-64	18	92,141	0.0002	0.03%	0.03%	26.8	26.8	67%	67%
65-69	6	31,626	0.0002	0.03%	0.03%	9.4	9.4	64%	64%
70-74	0	0	N/A			0	0	0%	0%
Other	0	39	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>284</b>	<b>996,551</b>				<b>288.3</b>	<b>288.3</b>	<b>99%</b>	<b>99%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 10D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	119,180	49	34.9	141%	0.04%	0.03%
2005	120,147	34	35.0	97%	0.03%	0.03%
2006	122,336	44	35.6	124%	0.04%	0.03%
2007	124,083	42	36.1	116%	0.03%	0.03%
2008	125,340	40	36.4	110%	0.03%	0.03%
2009	127,376	31	36.8	84%	0.02%	0.03%
2010	128,850	25	37.2	67%	0.02%	0.03%
2011	129,239	19	37.3	51%	0.01%	0.03%
2012	128,229	20	37.0	54%	0.02%	0.03%
2013	133,596	11	38.5	29%	0.01%	0.03%
Total	1,258,376	315	364.8	86%	0.03%	0.03%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	16,283	\$ 855,249,130	\$ 901,056,057	\$ 932,221,552	60%	5.36%	9.00%
1	25,455	1,301,138,803	1,369,374,370	1,405,229,907	66%	5.24%	8.00%
2	29,171	1,539,291,775	1,595,430,793	1,647,042,199	52%	3.65%	7.00%
3	27,678	1,506,163,713	1,545,003,879	1,596,533,536	43%	2.58%	6.00%
4	27,979	1,553,253,962	1,586,300,031	1,638,682,930	39%	2.13%	5.50%
5	24,870	1,414,697,432	1,445,172,744	1,485,432,304	43%	2.15%	5.00%
6	21,802	1,263,116,849	1,285,357,012	1,325,009,575	36%	1.76%	4.90%
7	21,428	1,271,350,425	1,294,729,342	1,332,375,245	38%	1.84%	4.80%
8	19,885	1,177,990,378	1,199,388,474	1,233,355,926	39%	1.82%	4.70%
9	19,550	1,172,988,799	1,192,694,790	1,226,946,284	37%	1.68%	4.60%
10	19,674	1,190,045,751	1,208,692,229	1,243,597,810	35%	1.57%	4.50%
11	18,252	1,123,033,310	1,140,372,159	1,173,569,809	34%	1.54%	4.50%
12	16,425	1,035,336,972	1,052,018,444	1,081,927,136	36%	1.61%	4.50%
13	14,039	912,253,573	925,047,931	953,304,984	31%	1.40%	4.50%
14	13,966	927,495,030	941,642,417	969,232,306	34%	1.53%	4.50%
15	13,354	901,854,386	918,422,892	942,437,833	41%	1.84%	4.50%
16	13,818	948,895,383	962,789,641	991,121,228	33%	1.46%	4.45%
17	14,322	985,666,521	998,835,516	1,029,035,848	30%	1.34%	4.40%
18	13,450	922,786,282	937,059,512	962,927,485	36%	1.55%	4.35%
19	13,406	914,632,960	927,528,699	953,962,177	33%	1.41%	4.30%
20	12,742	862,356,254	872,927,605	899,006,395	29%	1.23%	4.25%
21	12,027	820,924,745	834,418,280	855,403,584	39%	1.64%	4.20%
22	11,675	802,547,398	815,649,227	835,853,115	39%	1.63%	4.15%
23	10,848	748,155,297	758,956,094	778,829,664	35%	1.44%	4.10%
24	9,577	662,279,125	674,108,544	689,101,430	44%	1.79%	4.05%
25	8,287	577,910,340	584,418,618	601,026,754	28%	1.13%	4.00%
26	6,783	475,157,026	481,452,447	494,163,307	33%	1.32%	4.00%
27	5,627	391,930,165	397,298,754	407,607,372	34%	1.37%	4.00%
28	5,098	354,420,165	360,016,360	368,596,972	39%	1.58%	4.00%
29	4,624	318,088,667	322,752,454	330,812,214	37%	1.47%	4.00%
30+	17,716	1,281,626,908	1,296,163,681	1,332,891,984	28%	1.13%	4.00%
Total	489,811	30,212,637,524	30,825,078,996	31,717,238,863	41%	2.03%	4.98%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Proposed Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	16,283	\$ 855,249,130	\$ 901,056,057	\$ 930,083,429	61%	5.36%	8.75%
1	25,455	1,301,138,803	1,369,374,370	1,382,459,978	84%	5.24%	6.25%
2	29,171	1,539,291,775	1,595,430,793	1,623,952,823	66%	3.65%	5.50%
3	27,678	1,506,163,713	1,545,003,879	1,570,175,671	61%	2.58%	4.25%
4	27,979	1,553,253,962	1,586,300,031	1,615,384,120	53%	2.13%	4.00%
5	24,870	1,414,697,432	1,445,172,744	1,481,895,560	45%	2.15%	4.75%
6	21,802	1,263,116,849	1,285,357,012	1,321,851,782	38%	1.76%	4.65%
7	21,428	1,271,350,425	1,294,729,342	1,329,196,869	40%	1.84%	4.55%
8	19,885	1,177,990,378	1,199,388,474	1,230,410,950	41%	1.82%	4.45%
9	19,550	1,172,988,799	1,192,694,790	1,224,013,812	39%	1.68%	4.35%
10	19,674	1,190,045,751	1,208,692,229	1,240,622,695	37%	1.57%	4.25%
11	18,252	1,123,033,310	1,140,372,159	1,170,762,226	36%	1.54%	4.25%
12	16,425	1,035,336,972	1,052,018,444	1,079,338,793	38%	1.61%	4.25%
13	14,039	912,253,573	925,047,931	951,024,350	33%	1.40%	4.25%
14	13,966	927,495,030	941,642,417	966,913,569	36%	1.53%	4.25%
15	13,354	901,854,386	918,422,892	940,183,197	43%	1.84%	4.25%
16	13,818	948,895,383	962,789,641	988,748,989	35%	1.46%	4.20%
17	14,322	985,666,521	998,835,516	1,026,571,682	32%	1.34%	4.15%
18	13,450	922,786,282	937,059,512	960,620,520	38%	1.55%	4.10%
19	13,406	914,632,960	927,528,699	951,675,595	35%	1.41%	4.05%
20	12,742	862,356,254	872,927,605	896,850,504	31%	1.23%	4.00%
21	12,027	820,924,745	834,418,280	853,351,272	42%	1.64%	3.95%
22	11,675	802,547,398	815,649,227	833,846,747	42%	1.63%	3.90%
23	10,848	748,155,297	758,956,094	776,959,276	37%	1.44%	3.85%
24	9,577	662,279,125	674,108,544	687,445,732	47%	1.79%	3.80%
25	8,287	577,910,340	584,418,618	599,581,978	30%	1.13%	3.75%
26	6,783	475,157,026	481,452,447	492,975,414	35%	1.32%	3.75%
27	5,627	391,930,165	397,298,754	406,627,546	37%	1.37%	3.75%
28	5,098	354,420,165	360,016,360	367,710,921	42%	1.58%	3.75%
29	4,624	318,088,667	322,752,454	330,016,992	39%	1.47%	3.75%
30+	17,716	1,281,626,908	1,296,163,681	1,329,687,917	30%	1.13%	3.75%
Total	489,811	30,212,637,524	30,825,078,996	31,560,940,909	45%	2.03%	4.46%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Expected Merit Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	16,283	\$ 855,249,130	\$ 916,323,606	\$ 906,564,078	119%	7.14%	6.00%
1	25,455	1,301,138,803	1,352,053,659	1,366,195,743	78%	3.91%	5.00%
2	29,171	1,539,291,775	1,592,202,642	1,600,863,446	86%	3.44%	4.00%
3	27,678	1,506,163,713	1,542,010,632	1,551,348,624	79%	2.38%	3.00%
4	27,979	1,553,253,962	1,584,589,073	1,592,085,311	81%	2.02%	2.50%
5	24,870	1,414,697,432	1,440,765,303	1,442,991,381	92%	1.84%	2.00%
6	21,802	1,263,116,849	1,285,078,970	1,287,116,069	92%	1.74%	1.90%
7	21,428	1,271,350,425	1,293,379,499	1,294,234,733	96%	1.73%	1.80%
8	19,885	1,177,990,378	1,196,859,877	1,198,016,214	94%	1.60%	1.70%
9	19,550	1,172,988,799	1,190,303,201	1,191,756,620	92%	1.48%	1.60%
10	19,674	1,190,045,751	1,207,574,884	1,207,896,437	98%	1.47%	1.50%
11	18,252	1,123,033,310	1,138,654,030	1,139,878,810	93%	1.39%	1.50%
12	16,425	1,035,336,972	1,050,106,895	1,050,867,027	95%	1.43%	1.50%
13	14,039	912,253,573	925,145,636	925,937,377	94%	1.41%	1.50%
14	13,966	927,495,030	939,954,731	941,407,455	90%	1.34%	1.50%
15	13,354	901,854,386	916,302,064	915,382,202	107%	1.60%	1.50%
16	13,818	948,895,383	961,913,421	962,654,366	95%	1.37%	1.45%
17	14,322	985,666,521	997,643,099	999,465,852	87%	1.22%	1.40%
18	13,450	922,786,282	935,549,968	935,243,897	102%	1.38%	1.35%
19	13,406	914,632,960	926,092,766	926,523,188	96%	1.25%	1.30%
20	12,742	862,356,254	872,103,565	873,135,707	90%	1.13%	1.25%
21	12,027	820,924,745	831,918,828	830,775,842	112%	1.34%	1.20%
22	11,675	802,547,398	813,059,570	811,776,693	114%	1.31%	1.15%
23	10,848	748,155,297	756,336,483	756,385,005	99%	1.09%	1.10%
24	9,577	662,279,125	671,085,082	669,233,056	127%	1.33%	1.05%
25	8,287	577,910,340	582,924,586	583,689,443	87%	0.87%	1.00%
26	6,783	475,157,026	475,157,026	479,908,596		0.00%	1.00%
27	5,627	391,930,165	391,930,165	395,849,467		0.00%	1.00%
28	5,098	354,420,165	354,420,165	357,964,367		0.00%	1.00%
29	4,624	318,088,667	318,088,667	321,269,554		0.00%	1.00%
30+	17,716	1,281,626,908	1,281,626,908	1,294,443,177		0.00%	1.00%
Total	489,811	30,212,637,524	30,741,155,000	30,810,859,737	88%	1.75%	1.98%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 1.71%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Estimated Actual Merit Salary EOY</u>	<u>Proposed Merit Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	16,283	\$ 855,249,130	\$ 916,323,606	\$ 906,564,078	119%	7.14%	6.00%
1	25,455	1,301,138,803	1,352,053,659	1,346,678,661	112%	3.91%	3.50%
2	29,171	1,539,291,775	1,592,202,642	1,581,622,299	125%	3.44%	2.75%
3	27,678	1,506,163,713	1,542,010,632	1,528,756,169	159%	2.38%	1.50%
4	27,979	1,553,253,962	1,584,589,073	1,572,669,637	161%	2.02%	1.25%
5	24,870	1,414,697,432	1,440,765,303	1,442,991,381	92%	1.84%	2.00%
6	21,802	1,263,116,849	1,285,078,970	1,287,116,069	92%	1.74%	1.90%
7	21,428	1,271,350,425	1,293,379,499	1,294,234,733	96%	1.73%	1.80%
8	19,885	1,177,990,378	1,196,859,877	1,198,016,214	94%	1.60%	1.70%
9	19,550	1,172,988,799	1,190,303,201	1,191,756,620	92%	1.48%	1.60%
10	19,674	1,190,045,751	1,207,574,884	1,207,896,437	98%	1.47%	1.50%
11	18,252	1,123,033,310	1,138,654,030	1,139,878,810	93%	1.39%	1.50%
12	16,425	1,035,336,972	1,050,106,895	1,050,867,027	95%	1.43%	1.50%
13	14,039	912,253,573	925,145,636	925,937,377	94%	1.41%	1.50%
14	13,966	927,495,030	939,954,731	941,407,455	90%	1.34%	1.50%
15	13,354	901,854,386	916,302,064	915,382,202	107%	1.60%	1.50%
16	13,818	948,895,383	961,913,421	962,654,366	95%	1.37%	1.45%
17	14,322	985,666,521	997,643,099	999,465,852	87%	1.22%	1.40%
18	13,450	922,786,282	935,549,968	935,243,897	102%	1.38%	1.35%
19	13,406	914,632,960	926,092,766	926,523,188	96%	1.25%	1.30%
20	12,742	862,356,254	872,103,565	873,135,707	90%	1.13%	1.25%
21	12,027	820,924,745	831,918,828	830,775,842	112%	1.34%	1.20%
22	11,675	802,547,398	813,059,570	811,776,693	114%	1.31%	1.15%
23	10,848	748,155,297	756,336,483	756,385,005	99%	1.09%	1.10%
24	9,577	662,279,125	671,085,082	669,233,056	127%	1.33%	1.05%
25	8,287	577,910,340	582,924,586	583,689,443	87%	0.87%	1.00%
26	6,783	475,157,026	475,157,026	479,908,596		0.00%	1.00%
27	5,627	391,930,165	391,930,165	395,849,467		0.00%	1.00%
28	5,098	354,420,165	354,420,165	357,964,367		0.00%	1.00%
29	4,624	318,088,667	318,088,667	321,269,554		0.00%	1.00%
30+	17,716	1,281,626,908	1,281,626,908	1,294,443,177		0.00%	1.00%
<b>Total</b>	<b>489,811</b>	<b>30,212,637,524</b>	<b>30,741,155,000</b>	<b>30,730,093,378</b>	<b>102%</b>	<b>1.75%</b>	<b>1.71%</b>

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	36,004	\$ 1,673,049,910	\$ 1,811,350,349	\$ 1,823,624,402	92%	8.27%	9.00%
1	69,252	3,232,433,724	3,457,708,891	3,491,028,422	87%	6.97%	8.00%
2	70,364	3,422,306,461	3,609,444,178	3,661,867,913	78%	5.47%	7.00%
3	67,484	3,384,995,575	3,534,183,570	3,588,095,310	73%	4.41%	6.00%
4	64,515	3,284,142,111	3,415,251,201	3,464,769,927	73%	3.99%	5.50%
5	59,467	3,097,656,554	3,219,068,226	3,252,539,382	78%	3.92%	5.00%
6	55,253	2,931,664,915	3,041,912,411	3,075,316,496	77%	3.76%	4.90%
7	51,809	2,812,100,346	2,919,521,119	2,947,081,163	80%	3.82%	4.80%
8	48,461	2,659,682,841	2,756,737,234	2,784,687,935	78%	3.65%	4.70%
9	46,453	2,596,054,704	2,688,468,635	2,715,473,220	77%	3.56%	4.60%
10	46,146	2,617,083,570	2,706,096,439	2,734,852,331	76%	3.40%	4.50%
11	44,299	2,541,679,148	2,631,015,270	2,656,054,710	78%	3.51%	4.50%
12	41,687	2,424,506,030	2,509,690,343	2,533,608,801	78%	3.51%	4.50%
13	40,031	2,352,734,485	2,440,042,807	2,458,607,537	82%	3.71%	4.50%
14	39,295	2,324,195,465	2,406,472,240	2,428,784,261	79%	3.54%	4.50%
15	38,309	2,281,670,789	2,369,738,706	2,384,345,975	86%	3.86%	4.50%
16	37,545	2,256,856,732	2,336,659,591	2,357,286,857	79%	3.54%	4.45%
17	37,010	2,244,133,353	2,318,692,824	2,342,875,221	76%	3.32%	4.40%
18	35,043	2,128,874,307	2,202,560,410	2,221,480,339	80%	3.46%	4.35%
19	33,019	2,025,911,292	2,092,299,684	2,113,025,478	76%	3.28%	4.30%
20	29,678	1,839,326,066	1,896,980,819	1,917,497,424	74%	3.13%	4.25%
21	27,143	1,693,190,536	1,748,358,590	1,764,304,539	78%	3.26%	4.20%
22	25,460	1,597,126,216	1,647,932,752	1,663,406,954	77%	3.18%	4.15%
23	23,366	1,464,687,006	1,507,591,024	1,524,739,173	71%	2.93%	4.10%
24	20,456	1,296,365,820	1,338,259,168	1,348,868,636	80%	3.23%	4.05%
25	17,027	1,094,905,584	1,124,232,592	1,138,701,807	67%	2.68%	4.00%
26	13,991	908,844,144	935,625,976	945,197,910	74%	2.95%	4.00%
27	11,363	752,101,734	772,166,986	782,185,803	67%	2.67%	4.00%
28	9,268	621,475,475	638,837,895	646,334,494	70%	2.79%	4.00%
29	7,869	522,148,637	535,394,656	543,034,582	63%	2.54%	4.00%
30+	40,457	2,675,346,727	2,751,882,510	2,782,360,596	72%	2.86%	4.00%
Total	1,187,524	66,757,250,257	69,364,177,096	70,092,037,595	78%	3.91%	5.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Proposed Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	36,004	\$ 1,673,049,910	\$ 1,811,350,349	\$ 1,819,441,777	94%	8.27%	8.75%
1	69,252	3,232,433,724	3,457,708,891	3,434,460,832	112%	6.97%	6.25%
2	70,364	3,422,306,461	3,609,444,178	3,610,533,316	99%	5.47%	5.50%
3	67,484	3,384,995,575	3,534,183,570	3,528,857,887	104%	4.41%	4.25%
4	64,515	3,284,142,111	3,415,251,201	3,415,507,795	100%	3.99%	4.00%
5	59,467	3,097,656,554	3,219,068,226	3,244,795,240	83%	3.92%	4.75%
6	55,253	2,931,664,915	3,041,912,411	3,067,987,334	81%	3.76%	4.65%
7	51,809	2,812,100,346	2,919,521,119	2,940,050,912	84%	3.82%	4.55%
8	48,461	2,659,682,841	2,756,737,234	2,778,038,727	82%	3.65%	4.45%
9	46,453	2,596,054,704	2,688,468,635	2,708,983,084	82%	3.56%	4.35%
10	46,146	2,617,083,570	2,706,096,439	2,728,309,622	80%	3.40%	4.25%
11	44,299	2,541,679,148	2,631,015,270	2,649,700,512	83%	3.51%	4.25%
12	41,687	2,424,506,030	2,509,690,343	2,527,547,536	83%	3.51%	4.25%
13	40,031	2,352,734,485	2,440,042,807	2,452,725,701	87%	3.71%	4.25%
14	39,295	2,324,195,465	2,406,472,240	2,422,973,772	83%	3.54%	4.25%
15	38,309	2,281,670,789	2,369,738,706	2,378,641,798	91%	3.86%	4.25%
16	37,545	2,256,856,732	2,336,659,591	2,351,644,715	84%	3.54%	4.20%
17	37,010	2,244,133,353	2,318,692,824	2,337,264,887	80%	3.32%	4.15%
18	35,043	2,128,874,307	2,202,560,410	2,216,158,154	84%	3.46%	4.10%
19	33,019	2,025,911,292	2,092,299,684	2,107,960,699	81%	3.28%	4.05%
20	29,678	1,839,326,066	1,896,980,819	1,912,899,109	78%	3.13%	4.00%
21	27,143	1,693,190,536	1,748,358,590	1,760,071,562	82%	3.26%	3.95%
22	25,460	1,597,126,216	1,647,932,752	1,659,414,138	82%	3.18%	3.90%
23	23,366	1,464,687,006	1,507,591,024	1,521,077,456	76%	2.93%	3.85%
24	20,456	1,296,365,820	1,338,259,168	1,345,627,721	85%	3.23%	3.80%
25	17,027	1,094,905,584	1,124,232,592	1,135,964,543	71%	2.68%	3.75%
26	13,991	908,844,144	935,625,976	942,925,799	79%	2.95%	3.75%
27	11,363	752,101,734	772,166,986	780,305,549	71%	2.67%	3.75%
28	9,268	621,475,475	638,837,895	644,780,805	74%	2.79%	3.75%
29	7,869	522,148,637	535,394,656	541,729,211	68%	2.54%	3.75%
30+	40,457	2,675,346,727	2,751,882,510	2,775,672,229	76%	2.86%	3.75%
Total	1,187,524	66,757,250,257	69,364,177,096	69,742,052,423	87%	3.91%	4.47%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	36,004	\$ 1,673,049,910	\$ 1,792,524,625	\$ 1,773,432,905	119%	7.14%	6.00%
1	69,252	3,232,433,724	3,358,922,072	3,394,055,410	78%	3.91%	5.00%
2	70,364	3,422,306,461	3,539,943,159	3,559,198,719	86%	3.44%	4.00%
3	67,484	3,384,995,575	3,465,558,971	3,486,545,442	79%	2.38%	3.00%
4	64,515	3,284,142,111	3,350,395,898	3,366,245,664	81%	2.02%	2.50%
5	59,467	3,097,656,554	3,154,735,410	3,159,609,685	92%	1.84%	2.00%
6	55,253	2,931,664,915	2,982,638,489	2,987,366,548	92%	1.74%	1.90%
7	51,809	2,812,100,346	2,860,826,461	2,862,718,152	96%	1.73%	1.80%
8	48,461	2,659,682,841	2,702,286,655	2,704,897,449	94%	1.60%	1.70%
9	46,453	2,596,054,704	2,634,374,879	2,637,591,579	92%	1.48%	1.60%
10	46,146	2,617,083,570	2,655,632,680	2,656,339,824	98%	1.47%	1.50%
11	44,299	2,541,679,148	2,577,032,382	2,579,804,335	93%	1.39%	1.50%
12	41,687	2,424,506,030	2,459,093,578	2,460,873,620	95%	1.43%	1.50%
13	40,031	2,352,734,485	2,385,983,575	2,388,025,502	94%	1.41%	1.50%
14	39,295	2,324,195,465	2,355,418,036	2,359,058,397	90%	1.34%	1.50%
15	38,309	2,281,670,789	2,318,223,081	2,315,895,851	107%	1.60%	1.50%
16	37,545	2,256,856,732	2,287,818,887	2,289,581,155	95%	1.37%	1.45%
17	37,010	2,244,133,353	2,271,401,234	2,275,551,220	87%	1.22%	1.40%
18	35,043	2,128,874,307	2,158,320,217	2,157,614,110	102%	1.38%	1.35%
19	33,019	2,025,911,292	2,051,294,754	2,052,248,139	96%	1.25%	1.30%
20	29,678	1,839,326,066	1,860,116,179	1,862,317,642	90%	1.13%	1.25%
21	27,143	1,693,190,536	1,715,866,277	1,713,508,822	112%	1.34%	1.20%
22	25,460	1,597,126,216	1,618,046,183	1,615,493,167	114%	1.31%	1.15%
23	23,366	1,464,687,006	1,480,703,570	1,480,798,563	99%	1.09%	1.10%
24	20,456	1,296,365,820	1,313,602,874	1,309,977,661	127%	1.33%	1.05%
25	17,027	1,094,905,584	1,104,405,546	1,105,854,640	87%	0.87%	1.00%
26	13,991	908,844,144	908,844,144	917,932,585		0.00%	1.00%
27	11,363	752,101,734	752,101,734	759,622,751		0.00%	1.00%
28	9,268	621,475,475	621,475,475	627,690,230		0.00%	1.00%
29	7,869	522,148,637	522,148,637	527,370,123		0.00%	1.00%
30+	40,457	2,675,346,727	2,675,346,727	2,702,100,194		0.00%	1.00%
Total	1,187,524	66,757,250,257	67,935,082,389	68,089,320,087	88%	1.76%	2.00%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	36,004	\$ 1,673,049,910	\$ 1,792,524,625	\$ 1,773,432,905	119%	7.14%	6.00%
1	69,252	3,232,433,724	3,358,922,072	3,345,568,904	112%	3.91%	3.50%
2	70,364	3,422,306,461	3,539,943,159	3,516,419,889	125%	3.44%	2.75%
3	67,484	3,384,995,575	3,465,558,971	3,435,770,509	159%	2.38%	1.50%
4	64,515	3,284,142,111	3,350,395,898	3,325,193,887	161%	2.02%	1.25%
5	59,467	3,097,656,554	3,154,735,410	3,159,609,685	92%	1.84%	2.00%
6	55,253	2,931,664,915	2,982,638,489	2,987,366,548	92%	1.74%	1.90%
7	51,809	2,812,100,346	2,860,826,461	2,862,718,152	96%	1.73%	1.80%
8	48,461	2,659,682,841	2,702,286,655	2,704,897,449	94%	1.60%	1.70%
9	46,453	2,596,054,704	2,634,374,879	2,637,591,579	92%	1.48%	1.60%
10	46,146	2,617,083,570	2,655,632,680	2,656,339,824	98%	1.47%	1.50%
11	44,299	2,541,679,148	2,577,032,382	2,579,804,335	93%	1.39%	1.50%
12	41,687	2,424,506,030	2,459,093,578	2,460,873,620	95%	1.43%	1.50%
13	40,031	2,352,734,485	2,385,983,575	2,388,025,502	94%	1.41%	1.50%
14	39,295	2,324,195,465	2,355,418,036	2,359,058,397	90%	1.34%	1.50%
15	38,309	2,281,670,789	2,318,223,081	2,315,895,851	107%	1.60%	1.50%
16	37,545	2,256,856,732	2,287,818,887	2,289,581,155	95%	1.37%	1.45%
17	37,010	2,244,133,353	2,271,401,234	2,275,551,220	87%	1.22%	1.40%
18	35,043	2,128,874,307	2,158,320,217	2,157,614,110	102%	1.38%	1.35%
19	33,019	2,025,911,292	2,051,294,754	2,052,248,139	96%	1.25%	1.30%
20	29,678	1,839,326,066	1,860,116,179	1,862,317,642	90%	1.13%	1.25%
21	27,143	1,693,190,536	1,715,866,277	1,713,508,822	112%	1.34%	1.20%
22	25,460	1,597,126,216	1,618,046,183	1,615,493,167	114%	1.31%	1.15%
23	23,366	1,464,687,006	1,480,703,570	1,480,798,563	99%	1.09%	1.10%
24	20,456	1,296,365,820	1,313,602,874	1,309,977,661	127%	1.33%	1.05%
25	17,027	1,094,905,584	1,104,405,546	1,105,854,640	87%	0.87%	1.00%
26	13,991	908,844,144	908,844,144	917,932,585		0.00%	1.00%
27	11,363	752,101,734	752,101,734	759,622,751		0.00%	1.00%
28	9,268	621,475,475	621,475,475	627,690,230		0.00%	1.00%
29	7,869	522,148,637	522,148,637	527,370,123		0.00%	1.00%
30+	40,457	2,675,346,727	2,675,346,727	2,702,100,194		0.00%	1.00%
Total	1,187,524	66,757,250,257	67,935,082,389	67,906,228,041	103%	1.76%	1.72%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 11C Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	10-YEAR PERIOD ENDING 6/30/2013		
					Actual / Expected (5)	Actual (4) / (3)	Expected (5) / (3)
2004	113,936	\$ 5,323,658,602	\$ 5,558,253,265	\$ 5,594,461,931	87%	4.41%	5.09%
2005	115,981	5,606,385,522	5,970,586,875	5,888,126,792	129%	6.50%	5.03%
2006	113,073	5,798,411,721	6,068,451,846	6,086,584,825	94%	4.66%	4.97%
2007	115,049	6,106,022,169	6,563,453,502	6,409,354,173	151%	7.49%	4.97%
2008	118,152	6,656,260,721	6,945,418,714	6,989,074,225	87%	4.34%	5.00%
2009	121,522	7,053,873,998	7,432,933,898	7,407,196,786	107%	5.37%	5.01%
2010	122,204	7,397,425,318	7,615,073,942	7,767,867,845	59%	2.94%	5.01%
2011	121,363	7,490,476,203	7,690,745,485	7,861,797,807	54%	2.67%	4.96%
2012	121,772	7,618,937,393	7,664,054,094	7,993,947,015	12%	0.59%	4.92%
2013	124,472	7,705,798,610	7,855,205,475	8,093,626,196	39%	1.94%	5.03%
Total	1,187,524	66,757,250,257	69,364,177,096	70,092,037,595	78%	3.91%	5.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 12A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	6,529	\$ 288,801,564	\$ 22,805,913	\$ 11,552,063	197%	7.90%	4.00%
1	13,676	610,522,639	61,735,692	24,420,906	253%	10.11%	4.00%
2	15,936	751,896,196	81,007,813	30,075,848	269%	10.77%	4.00%
3	15,063	738,156,549	84,708,010	29,526,262	287%	11.48%	4.00%
4	15,259	763,020,653	93,181,999	30,520,826	305%	12.21%	4.00%
5	13,024	670,429,744	81,414,681	26,817,190	304%	12.14%	4.00%
6	11,039	575,026,518	71,110,080	23,001,061	309%	12.37%	4.00%
7	10,578	559,692,978	69,094,334	22,387,719	309%	12.35%	4.00%
8	9,566	508,468,625	64,807,888	20,338,745	319%	12.75%	4.00%
9	9,233	498,049,201	65,673,257	19,921,968	330%	13.19%	4.00%
10	9,472	515,322,003	70,033,002	20,612,880	340%	13.59%	4.00%
11	8,739	490,606,033	66,365,256	19,624,241	338%	13.53%	4.00%
12	7,673	444,816,131	60,369,526	17,792,645	339%	13.57%	4.00%
13	6,266	380,518,751	46,504,811	15,220,750	306%	12.22%	4.00%
14	6,216	384,441,391	45,889,772	15,377,656	298%	11.94%	4.00%
15	5,796	366,223,208	41,228,980	14,648,928	281%	11.26%	4.00%
16	5,921	380,109,784	43,938,803	15,204,391	289%	11.56%	4.00%
17	6,247	400,906,541	45,914,760	16,036,262	286%	11.45%	4.00%
18	5,760	373,885,318	44,337,063	14,955,413	296%	11.86%	4.00%
19	6,006	390,773,322	49,858,757	15,630,933	319%	12.76%	4.00%
20	5,821	376,797,298	49,139,485	15,071,892	326%	13.04%	4.00%
21	5,691	374,717,738	50,123,387	14,988,710	334%	13.38%	4.00%
22	5,563	372,137,828	49,580,418	14,885,513	333%	13.32%	4.00%
23	5,032	337,493,312	45,108,910	13,499,732	334%	13.37%	4.00%
24	4,323	292,102,902	38,614,763	11,684,116	330%	13.22%	4.00%
25	3,661	249,890,613	33,177,420	9,995,625	332%	13.28%	4.00%
26	2,900	196,689,388	25,870,195	7,867,576	329%	13.15%	4.00%
27	2,300	156,815,133	20,989,640	6,272,605	335%	13.38%	4.00%
28	2,058	140,136,519	17,245,229	5,605,461	308%	12.31%	4.00%
29	1,723	114,656,301	14,386,269	4,586,252	314%	12.55%	4.00%
30	1,448	98,200,078	12,017,623	3,928,003	306%	12.24%	4.00%
31	1,067	73,799,562	8,878,576	2,951,982	301%	12.03%	4.00%
32	677	46,600,876	5,376,845	1,864,035	288%	11.54%	4.00%
33	364	25,770,544	2,990,384	1,030,822	290%	11.60%	4.00%
34	251	16,606,962	1,722,309	664,278	259%	10.37%	4.00%
35	247	15,166,540	1,864,160	606,662	307%	12.29%	4.00%
36	315	19,449,590	2,109,403	777,984	271%	10.85%	4.00%
37	268	16,272,735	1,377,033	650,909	212%	8.46%	4.00%
38	228	13,922,557	1,159,803	556,902	208%	8.33%	4.00%
39	176	10,842,978	1,024,414	433,719	236%	9.45%	4.00%
40	115	6,802,927	698,605	272,117	257%	10.27%	4.00%
41	71	4,321,575	394,438	172,863	228%	9.13%	4.00%
42	44	2,729,973	202,808	109,199	186%	7.43%	4.00%
43	31	1,847,415	143,502	73,897	194%	7.77%	4.00%
44	18	1,055,907	92,884	42,236	220%	8.80%	4.00%
45	18	1,225,105	81,471	49,004	166%	6.65%	4.00%
<b>Total</b>	<b>232,409</b>	<b>13,057,719,504</b>	<b>1,594,350,371</b>	<b>522,308,780</b>	<b>305%</b>	<b>12.21%</b>	<b>4.00%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 12A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	6,529	\$ 288,801,564	\$ 22,805,913	\$ 23,104,125	99%	7.90%	8.00%
1	13,676	610,522,639	61,735,692	48,841,811	126%	10.11%	8.00%
2	15,936	751,896,196	81,007,813	60,151,696	135%	10.77%	8.00%
3	15,063	738,156,549	84,708,010	59,052,524	143%	11.48%	8.00%
4	15,259	763,020,653	93,181,999	61,041,652	153%	12.21%	8.00%
5	13,024	670,429,744	81,414,681	53,634,380	152%	12.14%	8.00%
6	11,039	575,026,518	71,110,080	46,002,121	155%	12.37%	8.00%
7	10,578	559,692,978	69,094,334	44,775,438	154%	12.35%	8.00%
8	9,566	508,468,625	64,807,888	40,677,490	159%	12.75%	8.00%
9	9,233	498,049,201	65,673,257	39,843,936	165%	13.19%	8.00%
10	9,472	515,322,003	70,033,002	41,225,760	170%	13.59%	8.00%
11	8,739	490,606,033	66,365,256	39,248,483	169%	13.53%	8.00%
12	7,673	444,816,131	60,369,526	35,585,290	170%	13.57%	8.00%
13	6,266	380,518,751	46,504,811	30,441,500	153%	12.22%	8.00%
14	6,216	384,441,391	45,889,772	30,755,311	149%	11.94%	8.00%
15	5,796	366,223,208	41,228,980	29,297,857	141%	11.26%	8.00%
16	5,921	380,109,784	43,938,803	30,408,783	144%	11.56%	8.00%
17	6,247	400,906,541	45,914,760	32,072,523	143%	11.45%	8.00%
18	5,760	373,885,318	44,337,063	29,910,825	148%	11.86%	8.00%
19	6,006	390,773,322	49,858,757	31,261,866	159%	12.76%	8.00%
20	5,821	376,797,298	49,139,485	30,143,784	163%	13.04%	8.00%
21	5,691	374,717,738	50,123,387	29,977,419	167%	13.38%	8.00%
22	5,563	372,137,828	49,580,418	29,771,026	167%	13.32%	8.00%
23	5,032	337,493,312	45,108,910	26,999,465	167%	13.37%	8.00%
24	4,323	292,102,902	38,614,763	23,368,232	165%	13.22%	8.00%
25	3,661	249,890,613	33,177,420	19,991,249	166%	13.28%	8.00%
26	2,900	196,689,388	25,870,195	15,735,151	164%	13.15%	8.00%
27	2,300	156,815,133	20,989,640	12,545,211	167%	13.38%	8.00%
28	2,058	140,136,519	17,245,229	11,210,922	154%	12.31%	8.00%
29	1,723	114,656,301	14,386,269	9,172,504	157%	12.55%	8.00%
30	1,448	98,200,078	12,017,623	7,856,006	153%	12.24%	8.00%
31	1,067	73,799,562	8,878,576	5,903,965	150%	12.03%	8.00%
32	677	46,600,876	5,376,845	3,728,070	144%	11.54%	8.00%
33	364	25,770,544	2,990,384	2,061,644	145%	11.60%	8.00%
34	251	16,606,962	1,722,309	1,328,557	130%	10.37%	8.00%
35	247	15,166,540	1,864,160	1,213,323	154%	12.29%	8.00%
36	315	19,449,590	2,109,403	1,555,967	136%	10.85%	8.00%
37	268	16,272,735	1,377,033	1,301,819	106%	8.46%	8.00%
38	228	13,922,557	1,159,803	1,113,805	104%	8.33%	8.00%
39	176	10,842,978	1,024,414	867,438	118%	9.45%	8.00%
40	115	6,802,927	698,605	544,234	128%	10.27%	8.00%
41	71	4,321,575	394,438	345,726	114%	9.13%	8.00%
42	44	2,729,973	202,808	218,398	93%	7.43%	8.00%
43	31	1,847,415	143,502	147,793	97%	7.77%	8.00%
44	18	1,055,907	92,884	84,473	110%	8.80%	8.00%
45	18	1,225,105	81,471	98,008	83%	6.65%	8.00%
Total	232,409	13,057,719,504	1,594,350,371	1,044,617,560	153%	12.21%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-		0.00%	4.00%
1	4	\$ 327,038	\$ 66,511	\$ 13,082	508%	20.34%	4.00%
2	6	273,807	25,970	10,952	237%	9.48%	4.00%
3	14	813,266	84,022	32,531	258%	10.33%	4.00%
4	60	2,909,966	401,401	116,399	345%	13.79%	4.00%
5	81	3,934,537	530,079	157,381	337%	13.47%	4.00%
6	78	3,853,889	332,598	154,156	216%	8.63%	4.00%
7	111	5,885,656	802,720	235,426	341%	13.64%	4.00%
8	96	4,883,777	513,060	195,351	263%	10.51%	4.00%
9	124	6,368,736	761,141	254,749	299%	11.95%	4.00%
10	173	8,901,771	1,197,975	356,071	336%	13.46%	4.00%
11	153	7,613,348	762,569	304,534	250%	10.02%	4.00%
12	178	9,122,861	1,151,750	364,914	316%	12.62%	4.00%
13	267	12,050,575	2,168,362	482,023	450%	17.99%	4.00%
14	148	8,972,455	960,216	358,898	268%	10.70%	4.00%
15	161	10,034,075	1,155,457	401,363	288%	11.52%	4.00%
16	146	8,288,073	782,261	331,523	236%	9.44%	4.00%
17	165	10,639,662	1,256,849	425,586	295%	11.81%	4.00%
18	188	11,722,666	1,272,975	468,907	271%	10.86%	4.00%
19	199	12,075,714	1,382,209	483,029	286%	11.45%	4.00%
20	274	16,808,018	1,810,676	672,321	269%	10.77%	4.00%
21	239	14,788,181	1,890,759	591,527	320%	12.79%	4.00%
22	254	16,359,650	2,208,821	654,386	338%	13.50%	4.00%
23	244	16,283,429	1,881,882	651,337	289%	11.56%	4.00%
24	299	20,812,116	2,599,955	832,485	312%	12.49%	4.00%
25	350	23,692,836	2,994,159	947,713	316%	12.64%	4.00%
26	265	18,575,594	2,338,894	743,024	315%	12.59%	4.00%
27	244	16,772,972	2,086,795	670,919	311%	12.44%	4.00%
28	199	13,404,463	1,676,557	536,179	313%	12.51%	4.00%
29	190	13,246,238	1,749,323	529,850	330%	13.21%	4.00%
30	174	12,174,833	1,597,627	486,993	328%	13.12%	4.00%
31	148	11,095,127	1,494,908	443,805	337%	13.47%	4.00%
32	81	5,898,300	764,881	235,932	324%	12.97%	4.00%
33	65	4,720,680	555,294	188,827	294%	11.76%	4.00%
34	49	3,060,119	504,217	122,405	412%	16.48%	4.00%
35	64	4,219,683	663,468	168,787	393%	15.72%	4.00%
36	74	5,033,045	670,971	201,322	333%	13.33%	4.00%
37	74	4,749,819	710,427	189,993	374%	14.96%	4.00%
38	55	3,467,567	315,079	138,703	227%	9.09%	4.00%
39	36	2,062,663	248,138	82,507	301%	12.03%	4.00%
40	26	1,553,077	218,564	62,123	352%	14.07%	4.00%
41	21	1,259,338	167,272	50,374	332%	13.28%	4.00%
42	15	865,589	70,281	34,624	203%	8.12%	4.00%
43	4	272,000	11,046	10,880	102%	4.06%	4.00%
44	7	495,568	32,323	19,823	163%	6.52%	4.00%
45	2	100,151	32,685	4,006	816%	32.64%	4.00%
Total	5,805	360,442,928	44,903,127	14,417,717	311%	12.46%	4.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-		0.00%	8.00%
1	4	\$ 327,038	\$ 66,511	\$ 26,163	254%	20.34%	8.00%
2	6	273,807	25,970	21,905	119%	9.48%	8.00%
3	14	813,266	84,022	65,061	129%	10.33%	8.00%
4	60	2,909,966	401,401	232,797	172%	13.79%	8.00%
5	81	3,934,537	530,079	314,763	168%	13.47%	8.00%
6	78	3,853,889	332,598	308,311	108%	8.63%	8.00%
7	111	5,885,656	802,720	470,852	170%	13.64%	8.00%
8	96	4,883,777	513,060	390,702	131%	10.51%	8.00%
9	124	6,368,736	761,141	509,499	149%	11.95%	8.00%
10	173	8,901,771	1,197,975	712,142	168%	13.46%	8.00%
11	153	7,613,348	762,569	609,068	125%	10.02%	8.00%
12	178	9,122,861	1,151,750	729,829	158%	12.62%	8.00%
13	267	12,050,575	2,168,362	964,046	225%	17.99%	8.00%
14	148	8,972,455	960,216	717,796	134%	10.70%	8.00%
15	161	10,034,075	1,155,457	802,726	144%	11.52%	8.00%
16	146	8,288,073	782,261	663,046	118%	9.44%	8.00%
17	165	10,639,662	1,256,849	851,173	148%	11.81%	8.00%
18	188	11,722,666	1,272,975	937,813	136%	10.86%	8.00%
19	199	12,075,714	1,382,209	966,057	143%	11.45%	8.00%
20	274	16,808,018	1,810,676	1,344,641	135%	10.77%	8.00%
21	239	14,788,181	1,890,759	1,183,054	160%	12.79%	8.00%
22	254	16,359,650	2,208,821	1,308,772	169%	13.50%	8.00%
23	244	16,283,429	1,881,882	1,302,674	144%	11.56%	8.00%
24	299	20,812,116	2,599,955	1,664,969	156%	12.49%	8.00%
25	350	23,692,836	2,994,159	1,895,427	158%	12.64%	8.00%
26	265	18,575,594	2,338,894	1,486,048	157%	12.59%	8.00%
27	244	16,772,972	2,086,795	1,341,838	156%	12.44%	8.00%
28	199	13,404,463	1,676,557	1,072,357	156%	12.51%	8.00%
29	190	13,246,238	1,749,323	1,059,699	165%	13.21%	8.00%
30	174	12,174,833	1,597,627	973,987	164%	13.12%	8.00%
31	148	11,095,127	1,494,908	887,610	168%	13.47%	8.00%
32	81	5,898,300	764,881	471,864	162%	12.97%	8.00%
33	65	4,720,680	555,294	377,654	147%	11.76%	8.00%
34	49	3,060,119	504,217	244,810	206%	16.48%	8.00%
35	64	4,219,683	663,468	337,575	197%	15.72%	8.00%
36	74	5,033,045	670,971	402,644	167%	13.33%	8.00%
37	74	4,749,819	710,427	379,986	187%	14.96%	8.00%
38	55	3,467,567	315,079	277,405	114%	9.09%	8.00%
39	36	2,062,663	248,138	165,013	150%	12.03%	8.00%
40	26	1,553,077	218,564	124,246	176%	14.07%	8.00%
41	21	1,259,338	167,272	100,747	166%	13.28%	8.00%
42	15	865,589	70,281	69,247	101%	8.12%	8.00%
43	4	272,000	11,046	21,760	51%	4.06%	8.00%
44	7	495,568	32,323	39,645	82%	6.52%	8.00%
45	2	100,151	32,685	8,012	408%	32.64%	8.00%
Total	5,805	360,442,928	44,903,127	28,835,434	156%	12.46%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 12C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-	-	-	4.00%
1	0	-	-	-	-	-	4.00%
2	3	\$ 159,518	\$ 15,335	\$ 6,381	240%	9.61%	4.00%
3	1	34,409	308	1,376	22%	0.90%	4.00%
4	4	182,162	4,072	7,286	56%	2.24%	4.00%
5	2	142,834	9,512	5,713	166%	6.66%	4.00%
6	11	459,385	36,722	18,375	200%	7.99%	4.00%
7	8	346,993	43,247	13,880	312%	12.46%	4.00%
8	12	628,750	63,907	25,150	254%	10.16%	4.00%
9	19	980,840	118,976	39,234	303%	12.13%	4.00%
10	50	2,475,363	210,688	99,015	213%	8.51%	4.00%
11	32	1,555,397	135,332	62,216	218%	8.70%	4.00%
12	28	1,273,094	128,047	50,924	251%	10.06%	4.00%
13	30	1,492,202	219,637	59,688	368%	14.72%	4.00%
14	29	1,565,649	206,310	62,626	329%	13.18%	4.00%
15	18	1,079,913	82,598	43,197	191%	7.65%	4.00%
16	28	1,564,305	105,063	62,572	168%	6.72%	4.00%
17	30	1,721,063	147,927	68,843	215%	8.60%	4.00%
18	18	1,044,628	117,227	41,785	281%	11.22%	4.00%
19	19	1,124,253	145,256	44,970	323%	12.92%	4.00%
20	30	1,891,503	234,108	75,660	309%	12.38%	4.00%
21	35	1,960,172	233,413	78,407	298%	11.91%	4.00%
22	26	1,546,009	162,861	61,840	263%	10.53%	4.00%
23	23	1,390,114	140,289	55,605	252%	10.09%	4.00%
24	25	1,340,644	209,731	53,626	391%	15.64%	4.00%
25	18	1,259,820	172,695	50,393	343%	13.71%	4.00%
26	9	549,908	47,126	21,996	214%	8.57%	4.00%
27	8	478,490	23,799	19,140	124%	4.97%	4.00%
28	5	294,436	21,823	11,777	185%	7.41%	4.00%
29	4	245,516	9,618	9,821	98%	3.92%	4.00%
30	7	485,006	52,072	19,400	268%	10.74%	4.00%
31	5	314,888	41,403	12,596	329%	13.15%	4.00%
32	2	99,079	6,484	3,963	164%	6.54%	4.00%
33	0	-	-	-	-	-	4.00%
34	1	57,981	152	2,319	7%	0.26%	4.00%
35	1	93,174	357	3,727	10%	0.38%	4.00%
36	2	98,520	6,336	3,941	161%	6.43%	4.00%
37	1	54,208	1,421	2,168	66%	2.62%	4.00%
38	0	-	-	-	-	-	4.00%
39	0	-	-	-	-	-	4.00%
40	0	-	-	-	-	-	4.00%
41	0	-	-	-	-	-	4.00%
42	0	-	-	-	-	-	4.00%
43	0	-	-	-	-	-	4.00%
44	0	-	-	-	-	-	4.00%
45	0	-	-	-	-	-	4.00%
Total	544	29,990,227	3,153,852	1,199,609	263%	10.52%	4.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 12C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			8.00%
1	0	-	-	-			8.00%
2	3	\$ 159,518	\$ 15,335	\$ 12,761	120%	9.61%	8.00%
3	1	34,409	308	2,753	11%	0.90%	8.00%
4	4	182,162	4,072	14,573	28%	2.24%	8.00%
5	2	142,834	9,512	11,427	83%	6.66%	8.00%
6	11	459,385	36,722	36,751	100%	7.99%	8.00%
7	8	346,993	43,247	27,759	156%	12.46%	8.00%
8	12	628,750	63,907	50,300	127%	10.16%	8.00%
9	19	980,840	118,976	78,467	152%	12.13%	8.00%
10	50	2,475,363	210,688	198,029	106%	8.51%	8.00%
11	32	1,555,397	135,332	124,432	109%	8.70%	8.00%
12	28	1,273,094	128,047	101,848	126%	10.06%	8.00%
13	30	1,492,202	219,637	119,376	184%	14.72%	8.00%
14	29	1,565,649	206,310	125,252	165%	13.18%	8.00%
15	18	1,079,913	82,598	86,393	96%	7.65%	8.00%
16	28	1,564,305	105,063	125,144	84%	6.72%	8.00%
17	30	1,721,063	147,927	137,685	107%	8.60%	8.00%
18	18	1,044,628	117,227	83,570	140%	11.22%	8.00%
19	19	1,124,253	145,256	89,940	162%	12.92%	8.00%
20	30	1,891,503	234,108	151,320	155%	12.38%	8.00%
21	35	1,960,172	233,413	156,814	149%	11.91%	8.00%
22	26	1,546,009	162,861	123,681	132%	10.53%	8.00%
23	23	1,390,114	140,289	111,209	126%	10.09%	8.00%
24	25	1,340,644	209,731	107,252	196%	15.64%	8.00%
25	18	1,259,820	172,695	100,786	171%	13.71%	8.00%
26	9	549,908	47,126	43,993	107%	8.57%	8.00%
27	8	478,490	23,799	38,279	62%	4.97%	8.00%
28	5	294,436	21,823	23,555	93%	7.41%	8.00%
29	4	245,516	9,618	19,641	49%	3.92%	8.00%
30	7	485,006	52,072	38,800	134%	10.74%	8.00%
31	5	314,888	41,403	25,191	164%	13.15%	8.00%
32	2	99,079	6,484	7,926	82%	6.54%	8.00%
33	0	-	-	-			8.00%
34	1	57,981	152	4,638	3%	0.26%	8.00%
35	1	93,174	357	7,454	5%	0.38%	8.00%
36	2	98,520	6,336	7,882	80%	6.43%	8.00%
37	1	54,208	1,421	4,337	33%	2.62%	8.00%
38	0	-	-	-			8.00%
39	0	-	-	-			8.00%
40	0	-	-	-			8.00%
41	0	-	-	-			8.00%
42	0	-	-	-			8.00%
43	0	-	-	-			8.00%
44	0	-	-	-			8.00%
45	0	-	-	-			8.00%
Total	544	29,990,227	3,153,852	2,399,218	131%	10.52%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	14,438	\$ 582,766,185	\$ 47,148,346	\$ 23,310,647	202%	8.09%	4.00%
1	35,547	1,463,391,765	151,336,811	58,535,671	259%	10.34%	4.00%
2	36,590	1,592,749,993	175,158,773	63,710,000	275%	11.00%	4.00%
3	34,555	1,559,739,930	179,688,263	62,389,597	288%	11.52%	4.00%
4	32,811	1,501,707,592	179,716,877	60,068,304	299%	11.97%	4.00%
5	29,472	1,382,732,256	167,271,735	55,309,290	302%	12.10%	4.00%
6	27,020	1,290,960,895	158,916,292	51,638,436	308%	12.31%	4.00%
7	24,928	1,222,246,206	151,981,117	48,889,848	311%	12.43%	4.00%
8	23,039	1,146,440,536	141,015,483	45,857,621	308%	12.30%	4.00%
9	21,637	1,100,484,705	135,953,378	44,019,388	309%	12.35%	4.00%
10	21,398	1,109,941,742	135,565,524	44,397,670	305%	12.21%	4.00%
11	20,506	1,085,359,373	130,926,667	43,414,375	302%	12.06%	4.00%
12	19,038	1,024,124,266	123,997,884	40,964,971	303%	12.11%	4.00%
13	18,175	994,578,141	118,116,169	39,783,126	297%	11.88%	4.00%
14	17,922	992,299,586	118,321,202	39,691,983	298%	11.92%	4.00%
15	17,538	978,907,766	116,419,487	39,156,311	297%	11.89%	4.00%
16	17,252	976,978,806	118,440,216	39,079,152	303%	12.12%	4.00%
17	17,302	988,352,988	121,322,675	39,534,120	307%	12.28%	4.00%
18	16,247	938,355,853	117,410,333	37,534,234	313%	12.51%	4.00%
19	15,410	904,206,588	116,565,952	36,168,264	322%	12.89%	4.00%
20	13,910	829,604,795	108,445,157	33,184,192	327%	13.07%	4.00%
21	12,709	769,923,369	101,877,359	30,796,935	331%	13.23%	4.00%
22	11,815	723,931,828	95,530,561	28,957,273	330%	13.20%	4.00%
23	10,513	644,653,777	85,436,180	25,786,151	331%	13.25%	4.00%
24	8,894	552,761,284	71,712,983	22,110,451	324%	12.97%	4.00%
25	7,150	449,893,577	58,656,567	17,995,743	326%	13.04%	4.00%
26	5,739	361,153,350	46,789,089	14,446,134	324%	12.96%	4.00%
27	4,477	286,389,573	37,727,392	11,455,583	329%	13.17%	4.00%
28	3,510	226,281,827	29,184,154	9,051,273	322%	12.90%	4.00%
29	2,816	176,592,448	22,744,334	7,063,698	322%	12.88%	4.00%
30	2,723	162,880,616	20,235,568	6,515,225	311%	12.42%	4.00%
31	2,268	134,540,935	16,420,219	5,381,637	305%	12.20%	4.00%
32	1,773	102,725,873	12,201,663	4,109,035	297%	11.88%	4.00%
33	1,332	75,892,170	8,616,471	3,035,687	284%	11.35%	4.00%
34	1,069	59,330,410	6,729,520	2,373,216	284%	11.34%	4.00%
35	897	49,672,087	5,266,605	1,986,883	265%	10.60%	4.00%
36	710	40,099,299	4,020,701	1,603,972	251%	10.03%	4.00%
37	535	30,347,031	2,800,650	1,213,881	231%	9.23%	4.00%
38	434	25,187,438	2,237,894	1,007,498	222%	8.88%	4.00%
39	303	17,943,131	1,624,185	717,725	226%	9.05%	4.00%
40	193	11,321,101	998,181	452,844	220%	8.82%	4.00%
41	126	7,489,401	602,518	299,576	201%	8.04%	4.00%
42	90	5,516,178	366,025	220,647	166%	6.64%	4.00%
43	63	3,760,476	284,145	150,419	189%	7.56%	4.00%
44	41	2,429,507	183,735	97,180	189%	7.56%	4.00%
45	31	1,987,065	147,128	79,483	185%	7.40%	4.00%
Total	554,946	28,588,633,717	3,446,112,168	1,143,545,349	301%	12.05%	4.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	14,438	\$ 582,766,185	\$ 47,148,346	\$ 46,621,295	101%	8.09%	8.00%
1	35,547	1,463,391,765	151,336,811	117,071,341	129%	10.34%	8.00%
2	36,590	1,592,749,993	175,158,773	127,419,999	137%	11.00%	8.00%
3	34,555	1,559,739,930	179,688,263	124,779,194	144%	11.52%	8.00%
4	32,811	1,501,707,592	179,716,877	120,136,607	150%	11.97%	8.00%
5	29,472	1,382,732,256	167,271,735	110,618,580	151%	12.10%	8.00%
6	27,020	1,290,960,895	158,916,292	103,276,872	154%	12.31%	8.00%
7	24,928	1,222,246,206	151,981,117	97,779,696	155%	12.43%	8.00%
8	23,039	1,146,440,536	141,015,483	91,715,243	154%	12.30%	8.00%
9	21,637	1,100,484,705	135,953,378	88,038,776	154%	12.35%	8.00%
10	21,398	1,109,941,742	135,565,524	88,795,339	153%	12.21%	8.00%
11	20,506	1,085,359,373	130,926,667	86,828,750	151%	12.06%	8.00%
12	19,038	1,024,124,266	123,997,884	81,929,941	151%	12.11%	8.00%
13	18,175	994,578,141	118,116,169	79,566,251	148%	11.88%	8.00%
14	17,922	992,299,586	118,321,202	79,383,967	149%	11.92%	8.00%
15	17,538	978,907,766	116,419,487	78,312,621	149%	11.89%	8.00%
16	17,252	976,978,806	118,440,216	78,158,304	152%	12.12%	8.00%
17	17,302	988,352,988	121,322,675	79,068,239	153%	12.28%	8.00%
18	16,247	938,355,853	117,410,333	75,068,468	156%	12.51%	8.00%
19	15,410	904,206,588	116,565,952	72,336,527	161%	12.89%	8.00%
20	13,910	829,604,795	108,445,157	66,368,384	163%	13.07%	8.00%
21	12,709	769,923,369	101,877,359	61,593,870	165%	13.23%	8.00%
22	11,815	723,931,828	95,530,561	57,914,546	165%	13.20%	8.00%
23	10,513	644,653,777	85,436,180	51,572,302	166%	13.25%	8.00%
24	8,894	552,761,284	71,712,983	44,220,903	162%	12.97%	8.00%
25	7,150	449,893,577	58,656,567	35,991,486	163%	13.04%	8.00%
26	5,739	361,153,350	46,789,089	28,892,268	162%	12.96%	8.00%
27	4,477	286,389,573	37,727,392	22,911,166	165%	13.17%	8.00%
28	3,510	226,281,827	29,184,154	18,102,546	161%	12.90%	8.00%
29	2,816	176,592,448	22,744,334	14,127,396	161%	12.88%	8.00%
30	2,723	162,880,616	20,235,568	13,030,449	155%	12.42%	8.00%
31	2,268	134,540,935	16,420,219	10,763,275	153%	12.20%	8.00%
32	1,773	102,725,873	12,201,663	8,218,070	148%	11.88%	8.00%
33	1,332	75,892,170	8,616,471	6,071,374	142%	11.35%	8.00%
34	1,069	59,330,410	6,729,520	4,746,433	142%	11.34%	8.00%
35	897	49,672,087	5,266,605	3,973,767	133%	10.60%	8.00%
36	710	40,099,299	4,020,701	3,207,944	125%	10.03%	8.00%
37	535	30,347,031	2,800,650	2,427,762	115%	9.23%	8.00%
38	434	25,187,438	2,237,894	2,014,995	111%	8.88%	8.00%
39	303	17,943,131	1,624,185	1,435,450	113%	9.05%	8.00%
40	193	11,321,101	998,181	905,688	110%	8.82%	8.00%
41	126	7,489,401	602,518	599,152	101%	8.04%	8.00%
42	90	5,516,178	366,025	441,294	83%	6.64%	8.00%
43	63	3,760,476	284,145	300,838	94%	7.56%	8.00%
44	41	2,429,507	183,735	194,361	95%	7.56%	8.00%
45	31	1,987,065	147,128	158,965	93%	7.40%	8.00%
Total	554,946	28,588,633,717	3,446,112,168	2,287,090,697	151%	12.05%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	2	\$ 100,367	\$ 4,930	\$ 4,015	123%	4.91%	4.00%
1	10	772,191	93,125	30,888	301%	12.06%	4.00%
2	32	1,417,893	132,691	56,716	234%	9.36%	4.00%
3	49	2,331,659	287,792	93,266	309%	12.34%	4.00%
4	175	7,599,054	911,782	303,962	300%	12.00%	4.00%
5	196	8,832,512	883,046	353,300	250%	10.00%	4.00%
6	202	9,119,892	918,973	364,796	252%	10.08%	4.00%
7	244	11,470,666	1,469,171	458,827	320%	12.81%	4.00%
8	228	10,963,496	1,218,967	438,540	278%	11.12%	4.00%
9	253	12,296,875	1,327,423	491,875	270%	10.79%	4.00%
10	307	15,404,660	1,776,122	616,186	288%	11.53%	4.00%
11	300	14,429,947	1,294,782	577,198	224%	8.97%	4.00%
12	345	17,218,236	1,880,037	688,729	273%	10.92%	4.00%
13	426	20,144,665	2,923,220	805,787	363%	14.51%	4.00%
14	308	16,998,995	1,807,878	679,960	266%	10.64%	4.00%
15	343	19,009,070	2,030,973	760,363	267%	10.68%	4.00%
16	328	17,366,272	1,642,759	694,651	236%	9.46%	4.00%
17	372	21,098,546	2,309,569	843,942	274%	10.95%	4.00%
18	366	21,290,435	2,277,504	851,617	267%	10.70%	4.00%
19	420	23,789,813	2,628,884	951,593	276%	11.05%	4.00%
20	521	29,486,772	3,137,382	1,179,471	266%	10.64%	4.00%
21	463	26,441,165	3,213,204	1,057,647	304%	12.15%	4.00%
22	457	27,393,892	3,736,345	1,095,756	341%	13.64%	4.00%
23	484	29,543,326	3,639,842	1,181,733	308%	12.32%	4.00%
24	536	34,697,913	4,221,624	1,387,917	304%	12.17%	4.00%
25	630	40,382,369	5,314,310	1,615,295	329%	13.16%	4.00%
26	492	32,459,438	4,236,513	1,298,378	326%	13.05%	4.00%
27	415	27,141,972	3,667,915	1,085,679	338%	13.51%	4.00%
28	290	19,018,383	2,299,666	760,735	302%	12.09%	4.00%
29	287	19,607,191	2,704,307	784,288	345%	13.79%	4.00%
30	319	19,743,315	2,723,055	789,733	345%	13.79%	4.00%
31	272	17,585,645	2,408,710	703,426	342%	13.70%	4.00%
32	226	13,433,089	1,805,000	537,324	336%	13.44%	4.00%
33	195	11,569,623	1,513,319	462,785	327%	13.08%	4.00%
34	185	10,422,613	1,435,401	416,905	344%	13.77%	4.00%
35	167	9,661,867	1,366,780	386,475	354%	14.15%	4.00%
36	130	7,734,536	980,544	309,381	317%	12.68%	4.00%
37	138	8,095,710	1,071,636	323,828	331%	13.24%	4.00%
38	85	5,124,345	453,349	204,974	221%	8.85%	4.00%
39	64	3,596,821	396,588	143,873	276%	11.03%	4.00%
40	41	2,392,789	301,935	95,712	315%	12.62%	4.00%
41	25	1,498,139	172,264	59,926	287%	11.50%	4.00%
42	20	1,133,035	89,755	45,321	198%	7.92%	4.00%
43	7	451,385	35,627	18,055	197%	7.89%	4.00%
44	10	679,504	55,022	27,180	202%	8.10%	4.00%
45	4	194,538	36,674	7,782	471%	18.85%	4.00%
Total	11,369	651,144,621	78,836,395	26,045,785	303%	12.11%	4.00%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	2	\$ 100,367	\$ 4,930	\$ 8,029	61%	4.91%	8.00%
1	10	772,191	93,125	61,775	151%	12.06%	8.00%
2	32	1,417,893	132,691	113,431	117%	9.36%	8.00%
3	49	2,331,659	287,792	186,533	154%	12.34%	8.00%
4	175	7,599,054	911,782	607,924	150%	12.00%	8.00%
5	196	8,832,512	883,046	706,601	125%	10.00%	8.00%
6	202	9,119,892	918,973	729,591	126%	10.08%	8.00%
7	244	11,470,666	1,469,171	917,653	160%	12.81%	8.00%
8	228	10,963,496	1,218,967	877,080	139%	11.12%	8.00%
9	253	12,296,875	1,327,423	983,750	135%	10.79%	8.00%
10	307	15,404,660	1,776,122	1,232,373	144%	11.53%	8.00%
11	300	14,429,947	1,294,782	1,154,396	112%	8.97%	8.00%
12	345	17,218,236	1,880,037	1,377,459	136%	10.92%	8.00%
13	426	20,144,665	2,923,220	1,611,573	181%	14.51%	8.00%
14	308	16,998,995	1,807,878	1,359,920	133%	10.64%	8.00%
15	343	19,009,070	2,030,973	1,520,726	134%	10.68%	8.00%
16	328	17,366,272	1,642,759	1,389,302	118%	9.46%	8.00%
17	372	21,098,546	2,309,569	1,687,884	137%	10.95%	8.00%
18	366	21,290,435	2,277,504	1,703,235	134%	10.70%	8.00%
19	420	23,789,813	2,628,884	1,903,185	138%	11.05%	8.00%
20	521	29,486,772	3,137,382	2,358,942	133%	10.64%	8.00%
21	463	26,441,165	3,213,204	2,115,293	152%	12.15%	8.00%
22	457	27,393,892	3,736,345	2,191,511	170%	13.64%	8.00%
23	484	29,543,326	3,639,842	2,363,466	154%	12.32%	8.00%
24	536	34,697,913	4,221,624	2,775,833	152%	12.17%	8.00%
25	630	40,382,369	5,314,310	3,230,590	164%	13.16%	8.00%
26	492	32,459,438	4,236,513	2,596,755	163%	13.05%	8.00%
27	415	27,141,972	3,667,915	2,171,358	169%	13.51%	8.00%
28	290	19,018,383	2,299,666	1,521,471	151%	12.09%	8.00%
29	287	19,607,191	2,704,307	1,568,575	172%	13.79%	8.00%
30	319	19,743,315	2,723,055	1,579,465	172%	13.79%	8.00%
31	272	17,585,645	2,408,710	1,406,852	171%	13.70%	8.00%
32	226	13,433,089	1,805,000	1,074,647	168%	13.44%	8.00%
33	195	11,569,623	1,513,319	925,570	164%	13.08%	8.00%
34	185	10,422,613	1,435,401	833,809	172%	13.77%	8.00%
35	167	9,661,867	1,366,780	772,949	177%	14.15%	8.00%
36	130	7,734,536	980,544	618,763	158%	12.68%	8.00%
37	138	8,095,710	1,071,636	647,657	165%	13.24%	8.00%
38	85	5,124,345	453,349	409,948	111%	8.85%	8.00%
39	64	3,596,821	396,588	287,746	138%	11.03%	8.00%
40	41	2,392,789	301,935	191,423	158%	12.62%	8.00%
41	25	1,498,139	172,264	119,851	144%	11.50%	8.00%
42	20	1,133,035	89,755	90,643	99%	7.92%	8.00%
43	7	451,385	35,627	36,111	99%	7.89%	8.00%
44	10	679,504	55,022	54,360	101%	8.10%	8.00%
45	4	194,538	36,674	15,563	236%	18.85%	8.00%
Total	11,369	651,144,621	78,836,395	52,091,570	151%	12.11%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 12C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1	\$ 34,171	\$ 1,987	\$ 1,367	145%	5.81%	4.00%
1	9	336,169	34,352	13,447	255%	10.22%	4.00%
2	9	446,872	21,353	17,875	119%	4.78%	4.00%
3	12	413,755	39,409	16,550	238%	9.52%	4.00%
4	17	652,084	63,963	26,083	245%	9.81%	4.00%
5	17	752,125	66,794	30,085	222%	8.88%	4.00%
6	41	1,691,915	147,353	67,677	218%	8.71%	4.00%
7	33	1,404,330	150,342	56,173	268%	10.71%	4.00%
8	50	2,313,408	188,358	92,536	204%	8.14%	4.00%
9	53	2,516,474	253,659	100,659	252%	10.08%	4.00%
10	96	4,554,846	423,764	182,194	233%	9.30%	4.00%
11	81	3,705,239	428,413	148,210	289%	11.56%	4.00%
12	73	3,310,479	283,051	132,419	214%	8.55%	4.00%
13	85	4,160,246	460,056	166,410	276%	11.06%	4.00%
14	86	4,428,921	422,869	177,157	239%	9.55%	4.00%
15	72	3,771,219	404,753	150,849	268%	10.73%	4.00%
16	91	4,573,518	398,353	182,941	218%	8.71%	4.00%
17	91	4,579,934	417,127	183,197	228%	9.11%	4.00%
18	73	3,620,396	328,962	144,816	227%	9.09%	4.00%
19	70	3,909,112	407,018	156,364	260%	10.41%	4.00%
20	70	4,044,648	416,054	161,786	257%	10.29%	4.00%
21	75	3,819,942	435,135	152,798	285%	11.39%	4.00%
22	48	2,546,066	296,487	101,843	291%	11.64%	4.00%
23	54	2,933,426	285,260	117,337	243%	9.72%	4.00%
24	42	2,212,636	265,729	88,505	300%	12.01%	4.00%
25	29	1,764,048	219,326	70,562	311%	12.43%	4.00%
26	20	1,176,765	213,831	47,071	454%	18.17%	4.00%
27	19	988,836	68,896	39,553	174%	6.97%	4.00%
28	10	517,729	49,475	20,709	239%	9.56%	4.00%
29	6	351,549	19,435	14,062	138%	5.53%	4.00%
30	12	713,175	58,526	28,527	205%	8.21%	4.00%
31	11	610,001	45,861	24,400	188%	7.52%	4.00%
32	4	247,057	9,543	9,882	97%	3.86%	4.00%
33	1	44,932	5,693	1,797	317%	12.67%	4.00%
34	2	97,713	8,581	3,909	220%	8.78%	4.00%
35	3	168,280	1,050	6,731	16%	0.62%	4.00%
36	3	133,791	6,467	5,352	121%	4.83%	4.00%
37	1	54,208	1,421	2,168	66%	2.62%	4.00%
38	0	-	-	-	-	-	4.00%
39	0	-	-	-	-	-	4.00%
40	0	-	-	-	-	-	4.00%
41	0	-	-	-	-	-	4.00%
42	0	-	-	-	-	-	4.00%
43	0	-	-	-	-	-	4.00%
44	0	-	-	-	-	-	4.00%
45	0	-	-	-	-	-	4.00%
Total	1,470	73,600,015	7,348,706	2,944,001	250%	9.98%	4.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 12C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1	\$ 34,171	\$ 1,987	\$ 2,734	73%	5.81%	8.00%
1	9	336,169	34,352	26,894	128%	10.22%	8.00%
2	9	446,872	21,353	35,750	60%	4.78%	8.00%
3	12	413,755	39,409	33,100	119%	9.52%	8.00%
4	17	652,084	63,963	52,167	123%	9.81%	8.00%
5	17	752,125	66,794	60,170	111%	8.88%	8.00%
6	41	1,691,915	147,353	135,353	109%	8.71%	8.00%
7	33	1,404,330	150,342	112,346	134%	10.71%	8.00%
8	50	2,313,408	188,358	185,073	102%	8.14%	8.00%
9	53	2,516,474	253,659	201,318	126%	10.08%	8.00%
10	96	4,554,846	423,764	364,388	116%	9.30%	8.00%
11	81	3,705,239	428,413	296,419	145%	11.56%	8.00%
12	73	3,310,479	283,051	264,838	107%	8.55%	8.00%
13	85	4,160,246	460,056	332,820	138%	11.06%	8.00%
14	86	4,428,921	422,869	354,314	119%	9.55%	8.00%
15	72	3,771,219	404,753	301,698	134%	10.73%	8.00%
16	91	4,573,518	398,353	365,881	109%	8.71%	8.00%
17	91	4,579,934	417,127	366,395	114%	9.11%	8.00%
18	73	3,620,396	328,962	289,632	114%	9.09%	8.00%
19	70	3,909,112	407,018	312,729	130%	10.41%	8.00%
20	70	4,044,648	416,054	323,572	129%	10.29%	8.00%
21	75	3,819,942	435,135	305,595	142%	11.39%	8.00%
22	48	2,546,066	296,487	203,685	146%	11.64%	8.00%
23	54	2,933,426	285,260	234,674	122%	9.72%	8.00%
24	42	2,212,636	265,729	177,011	150%	12.01%	8.00%
25	29	1,764,048	219,326	141,124	155%	12.43%	8.00%
26	20	1,176,765	213,831	94,141	227%	18.17%	8.00%
27	19	988,836	68,896	79,107	87%	6.97%	8.00%
28	10	517,729	49,475	41,418	119%	9.56%	8.00%
29	6	351,549	19,435	28,124	69%	5.53%	8.00%
30	12	713,175	58,526	57,054	103%	8.21%	8.00%
31	11	610,001	45,861	48,800	94%	7.52%	8.00%
32	4	247,057	9,543	19,765	48%	3.86%	8.00%
33	1	44,932	5,693	3,595	158%	12.67%	8.00%
34	2	97,713	8,581	7,817	110%	8.78%	8.00%
35	3	168,280	1,050	13,462	8%	0.62%	8.00%
36	3	133,791	6,467	10,703	60%	4.83%	8.00%
37	1	54,208	1,421	4,337	33%	2.62%	8.00%
38	0	-	-	-	-	-	8.00%
39	0	-	-	-	-	-	8.00%
40	0	-	-	-	-	-	8.00%
41	0	-	-	-	-	-	8.00%
42	0	-	-	-	-	-	8.00%
43	0	-	-	-	-	-	8.00%
44	0	-	-	-	-	-	8.00%
45	0	-	-	-	-	-	8.00%
<b>Total</b>	<b>1,470</b>	<b>73,600,015</b>	<b>7,348,706</b>	<b>5,888,001</b>	<b>125%</b>	<b>9.98%</b>	<b>8.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - GENERAL  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 12D				10-YEAR PERIOD ENDING 6/30/2013		
	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual (4) / (3) (7)	Expected (5) / (3) (8)
2004	50,709	\$ 2,198,707,720	\$ 238,446,858	\$ 87,948,309	271%	10.84%	4.00%
2005	52,158	2,327,340,429	261,872,345	93,093,617	281%	11.25%	4.00%
2006	52,741	2,484,282,609	278,407,296	99,371,304	280%	11.21%	4.00%
2007	53,658	2,621,119,731	315,953,015	104,844,789	301%	12.05%	4.00%
2008	55,625	2,848,649,961	362,641,861	113,945,998	318%	12.73%	4.00%
2009	57,684	3,053,009,445	394,606,570	122,120,378	323%	12.93%	4.00%
2010	58,367	3,210,644,396	392,120,647	128,425,776	305%	12.21%	4.00%
2011	57,535	3,237,288,696	397,987,078	129,491,548	307%	12.29%	4.00%
2012	57,642	3,287,342,848	398,896,690	131,493,714	303%	12.13%	4.00%
2013	58,913	3,325,785,788	405,643,459	133,031,432	305%	12.20%	4.00%
Total	555,032	28,594,171,623	3,446,575,819	1,143,766,865	301%	12.05%	4.00%

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments	
		Expected	Average Number of Decrements per Year	Ratio of Actual to				
				Expected	Proposed			
<b>Service Retiree Mortality</b>								
1A	Men	96%	817	98%	99%	828	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.	
1B	Women	100%	68	101%	103%	64		
1C	Men & Women	96%	884	99%	107%	892		
1D	By Year							
<b>Disabled Retiree Mortality</b>								
2A	Men	94%	66	100%	113%	70	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.	
2B	Women	98%	12	89%	75%	10		
2C	Men & Women	95%	78	98%	107%	79		
2D	By Year							
<b>Active Member Withdrawals</b>								
3A	Men	99%	287	114%	114%	329	The current assumption is reasonable.	
3B	Women	170%	94	165%	165%	92		
3C	Men & Women	110%	381	122%	122%	421		
3D	By Year							
<b>Active Member Service Retirements</b>								
<b>In 1st Year of Eligibility</b>								
4A	Total	53%	342	50%	60%	264	Actual experience has outpaced the current assumptions. Consider extending maximum retirement age from 70 to 75.	
4B	Elected	66%	206	55%	65%	126		
4C	Mandated	40%	136	46%	57%	137		
<b>In 2nd Year of Eligibility</b>								
5A	Total	55%	141	66%	74%	141		
5B	Elected	79%	74	88%	88%	63		
5C	Mandated	41%	67	55%	66%	78		
<b>After 2nd Year of Eligibility</b>								
6A	Total	54%	557	59%	60%	485		
6B	Elected	104%	221	105%	105%	133		
6C	Mandated	41%	336	50%	57%	352		
6D	By Year							
<b>Reduced Service Retirements</b>								
7A	Total	268%	1	47%	35%	1	Due to limited experience, we recommend using the NYCERS General group's reduced retirement proposed assumption.	
7B	By Year							

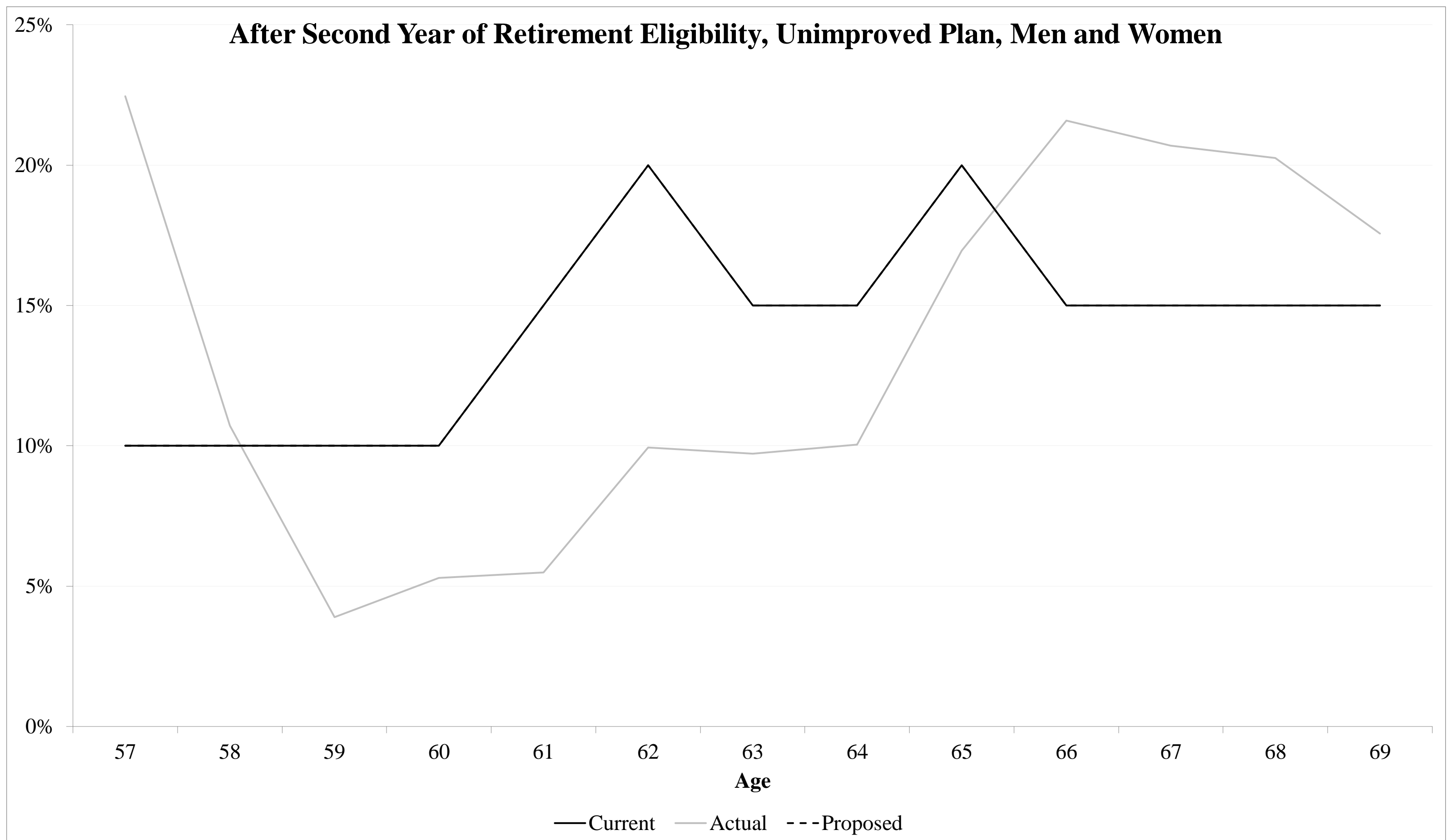
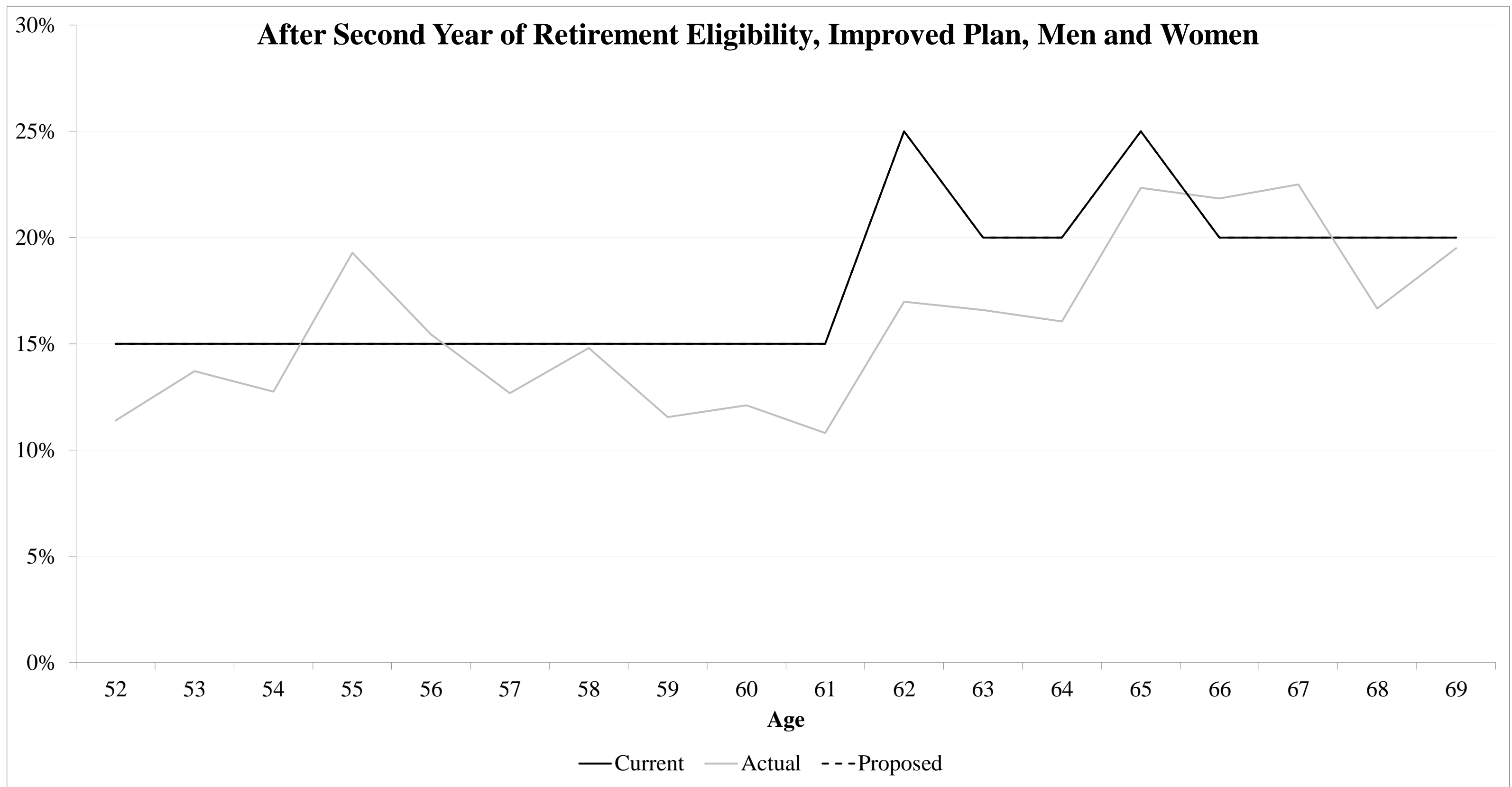
NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
	Active Member Ordinary Mortality						Minor Assumption. The current assumption is reasonable.
8A	Men	107%	53	120%	120%	57	
8B	Women	168%	6	192%	192%	7	
8C	Men & Women	112%	59	125%	125%	64	
8D	By Year						
	Active Member Accidental Mortality						Minor Assumption. We recommend a lower assumption.
9A	Men	14%	1	11%	45%	0	
9B	By Year						
	Active Member Ordinary Disability						We recommend raising Ordinary Disability rates for Women.
10A	Men	93%	98	93%	93%	94	
10B	Women	239%	40	215%	153%	34	
10C	Men & Women	113%	138	110%	104%	128	
10D	By Year						
	Active Member Accidental Disability						Minor Assumption. We recommend lowering Accidental Disability rates for Men.
11A	Men	8%	1	34%	69%	2	
11B	Women	23%	0	104%	104%	1	
11C	Men & Women	10%	1	45%	78%	3	
11D	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
12A	Total	4.19%	3.41%	4.32%	4.32%	3.90%	Overall, experience has slightly outpaced assumption, especially when adjusted for actual versus expected inflation.
12B	Merit Only	0.69%	0.70%	0.82%	0.82%	0.78%	
12C	General Increase over Inflation	1.00%	0.37%	1.00%	1.00%	0.78%	
12C	By Year						
	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
13A	For All Years	8.00%	9.21%	8.00%	8.00%	8.22%	Experience has been close to the expected assumption. Members are working less Overtime before becoming disabled.
13B	In Year Before Service Retirement	8.00%	7.62%	8.00%	8.00%	7.01%	
13C	In Year Before Disability Retirement	8.00%	5.24%	8.00%	8.00%	5.04%	
13D	By Year						

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**

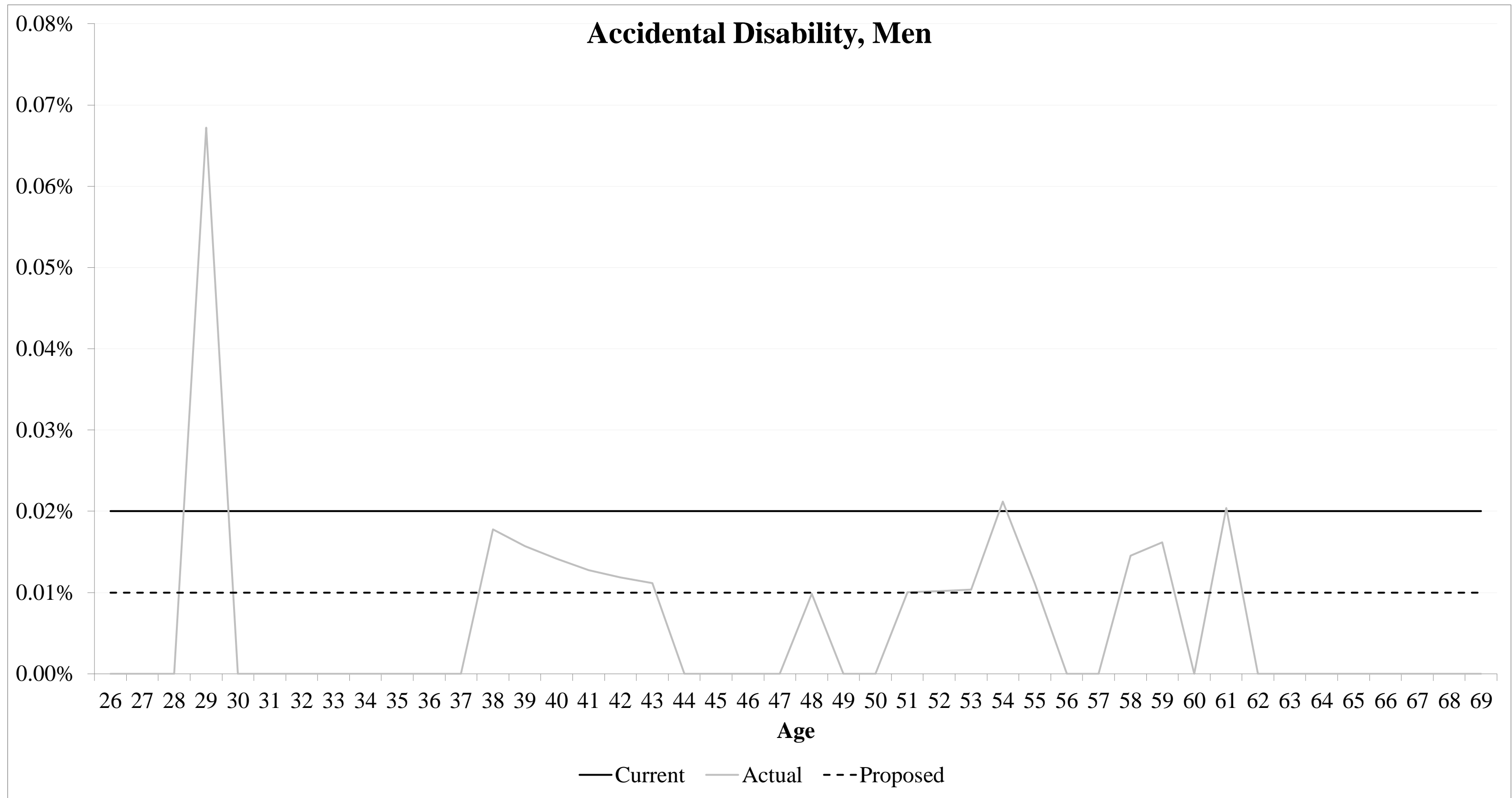


**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

TABLE 1B				4-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0783%	0.1485%	0	0	0%	0%
42	0	0	N/A	0.0868%	0.1594%	0	0	0%	0%
43	0	0	N/A	0.0975%	0.1702%	0	0	0%	0%
44	0	0	N/A	0.1105%	0.1810%	0	0	0%	0%
45	0	0	N/A	0.1251%	0.1918%	0	0	0%	0%
46	0	0	N/A	0.1417%	0.2024%	0	0	0%	0%
47	0	0	N/A	0.1603%	0.2130%	0	0	0%	0%
48	0	0	N/A	0.1817%	0.2231%	0	0	0%	0%
49	0	0	N/A	0.2048%	0.2329%	0	0	0%	0%
50	0	0	N/A	0.2307%	0.2471%	0	0	0%	0%
51	0	0	N/A	0.2622%	0.2656%	0	0	0%	0%
52	0	0	N/A	0.2990%	0.2885%	0	0	0%	0%
53	0	1	0.000000	0.3392%	0.3158%	0.0	0.0	0%	0%
54	0	1	0.000000	0.3835%	0.3474%	0.0	0.0	0%	0%
55	0	13	0.000000	0.4321%	0.3835%	0.1	0.0	0%	0%
56	0	68	0.000000	0.5051%	0.4239%	0.3	0.3	0%	0%
57	4	98	0.040816	0.5811%	0.4687%	0.6	0.5	702%	871%
58	0	136	0.000000	0.6577%	0.5178%	0.9	0.7	0%	0%
59	0	164	0.000000	0.7386%	0.5714%	1.2	0.9	0%	0%
60	2	199	0.010050	0.8236%	0.6294%	1.6	1.3	122%	160%
61	2	229	0.008734	0.9145%	0.6918%	2.1	1.6	96%	126%
62	2	250	0.008000	0.9912%	0.7604%	2.5	1.9	81%	105%
63	4	310	0.012903	1.0664%	0.8357%	3.3	2.6	121%	154%
64	5	327	0.015291	1.1462%	0.9186%	3.7	3.0	133%	166%
65	2	318	0.006289	1.2310%	1.0096%	3.9	3.2	51%	62%
66	6	329	0.018237	1.3217%	1.1097%	4.3	3.7	138%	164%
67	8	329	0.024316	1.4235%	1.2197%	4.7	4.0	171%	199%
68	4	340	0.011765	1.5303%	1.3406%	5.2	4.6	77%	88%
69	5	337	0.014837	1.6051%	1.4735%	5.4	5.0	92%	101%
70	7	319	0.021944	1.6732%	1.6195%	5.3	5.2	131%	135%
71	6	311	0.019293	1.8431%	1.7800%	5.7	5.5	105%	108%
72	7	315	0.022222	2.0222%	1.9565%	6.4	6.2	110%	114%
73	7	290	0.024138	2.1798%	2.1504%	6.3	6.2	111%	112%
74	6	268	0.022388	2.3496%	2.3635%	6.3	6.3	95%	95%
75	5	243	0.020576	2.4953%	2.5978%	6.1	6.3	82%	79%
76	5	204	0.024510	2.8182%	2.8553%	5.7	5.8	87%	86%
77	11	208	0.052885	3.1667%	3.1383%	6.6	6.5	167%	169%
78	10	189	0.052910	3.4923%	3.4494%	6.6	6.5	152%	153%
79	10	178	0.056180	3.8179%	3.7913%	6.8	6.7	147%	148%
80	9	158	0.056962	4.1435%	4.1671%	6.5	6.6	137%	137%
81	7	154	0.045455	4.6586%	4.5802%	7.2	7.1	98%	99%
82	5	150	0.033333	5.1835%	5.0341%	7.8	7.6	64%	66%
83	14	156	0.089744	5.7181%	5.5331%	8.9	8.6	157%	162%
84	8	158	0.050633	6.2626%	6.0816%	9.9	9.6	81%	83%
85	8	143	0.055944	6.8720%	6.6844%	9.8	9.6	81%	84%
86	12	140	0.085714	7.9002%	7.3469%	11.1	10.3	108%	117%
87	7	125	0.056000	8.9443%	8.0752%	11.2	10.1	63%	69%
88	10	121	0.082645	9.9247%	8.8756%	12.0	10.7	83%	93%
89	10	107	0.093458	10.9930%	9.7553%	11.8	10.4	85%	96%
90	7	93	0.075269	11.9814%	10.7223%	11.1	10.0	63%	70%
91	14	88	0.159091	13.6802%	11.7851%	12.0	10.4	116%	135%
92	7	71	0.098592	15.3234%	12.9532%	10.9	9.2	64%	76%
93	6	56	0.107143	17.0656%	14.2372%	9.6	8.0	63%	75%
94	6	38	0.157895	18.5767%	15.6484%	7.1	5.9	85%	101%
95	1	29	0.034483	20.0298%	17.1994%	5.8	5.0	17%	20%
96	7	21	0.333333	21.1824%	18.9042%	4.4	4.0	157%	176%
97	2	14	0.142857	22.3611%	20.7780%	3.1	2.9	64%	69%
98	4	12	0.333333	23.0718%	22.8376%	2.8	2.7	144%	146%
99	2	7	0.285714	23.4718%	25.1012%	1.6	1.8	122%	114%
Subtotal	264	7,815				266.4	244.9	99%	108%
100 or more	6	17	0.352941	25.4498%	33.3297%	4.3	5.7	139%	106%
Total	270	7,832				270.7	250.6	100%	108%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u>	<u>Actual Deaths</u>	<u>Total Exposed</u>	<u>Actual Rate (2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u>	<u>Proposed (8) / (3)</u>	<u>Expected (7)</u>	<u>Proposed (8)</u>	<u>Expected (2) / (7)</u>	<u>Proposed (2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	1	12	0.083333	0.6513%	0.4906%	0.1	0.1	1279%	1699%
55-59	36	3,991	0.009020	0.9092%	0.6987%	36.3	27.9	99%	129%
60-64	134	11,537	0.011615	1.2944%	1.0812%	149.3	124.7	90%	107%
65-69	307	17,482	0.017561	1.8442%	1.6920%	322.4	295.8	95%	104%
70-74	428	17,097	0.025034	2.5928%	2.6834%	443.3	458.8	97%	93%
75-79	512	12,311	0.041589	4.2369%	4.2646%	521.6	525.0	98%	98%
80-84	606	8,712	0.069559	7.2649%	6.8577%	632.9	597.4	96%	101%
85-89	667	6,000	0.111167	11.5208%	10.8669%	691.2	652.0	96%	102%
90-94	412	2,350	0.175319	18.8165%	17.0757%	442.2	401.3	93%	103%
95-99	142	495	0.286869	27.5254%	26.4957%	136.3	131.2	104%	108%
100+	21	60	0.350000	37.1685%	45.5092%	22.3	27.3	94%	77%
<b>Total</b>	<b>3,266</b>	<b>80,047</b>				<b>3,397.9</b>	<b>3,241.5</b>	<b>96%</b>	<b>101%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	2	0.000000	0.3614%	0.3316%	0.0	0.0	0%	0%
55-59	4	479	0.008351	0.6419%	0.5091%	3.1	2.4	130%	164%
60-64	15	1,315	0.011407	1.0088%	0.7857%	13.3	10.3	113%	145%
65-69	25	1,653	0.015124	1.4252%	1.2340%	23.6	20.4	106%	123%
70-74	33	1,503	0.021956	1.9999%	1.9584%	30.1	29.4	110%	112%
75-79	41	1,022	0.040117	3.1111%	3.1246%	31.8	31.9	129%	128%
80-84	43	776	0.055412	5.1948%	5.0811%	40.3	39.4	107%	109%
85-89	47	636	0.073899	8.7797%	8.0371%	55.8	51.1	84%	92%
90-94	40	346	0.115607	14.6465%	12.5603%	50.7	43.5	79%	92%
95-99	16	83	0.192771	21.4447%	19.7160%	17.8	16.4	90%	98%
100+	6	17	0.352941	25.4498%	33.3297%	4.3	5.7	139%	106%
Total	270	7,832				270.7	250.6	100%	108%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	1	14	0.071429	0.6099%	0.4678%	0.1	0.1	1171%	1527%
55-59	40	4,470	0.008949	0.8806%	0.6784%	39.4	30.3	102%	132%
60-64	149	12,852	0.011594	1.2652%	1.0510%	162.6	135.1	92%	110%
65-69	332	19,135	0.017350	1.8080%	1.6525%	346.0	316.2	96%	105%
70-74	461	18,600	0.024785	2.5449%	2.6248%	473.4	488.2	97%	94%
75-79	553	13,333	0.041476	4.1506%	4.1773%	553.4	557.0	100%	99%
80-84	649	9,488	0.068402	7.0955%	6.7124%	673.2	636.9	96%	102%
85-89	714	6,636	0.107595	11.2581%	10.5957%	747.1	703.1	96%	102%
90-94	452	2,696	0.167656	18.2813%	16.4962%	492.9	444.7	92%	102%
95-99	158	578	0.273356	26.6522%	25.5221%	154.0	147.5	103%	107%
100+	27	77	0.350649	34.5813%	42.8202%	26.6	33.0	101%	82%
Total	3,536	87,879				3,668.6	3,492.1	96%	101%





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0819%	0.1596%	0	0	0%	0%
42	0	0	N/A	0.0908%	0.1706%	0	0	0%	0%
43	0	0	N/A	0.1020%	0.1812%	0	0	0%	0%
44	0	0	N/A	0.1156%	0.1914%	0	0	0%	0%
45	0	0	N/A	0.1313%	0.2012%	0	0	0%	0%
46	0	0	N/A	0.1492%	0.2105%	0	0	0%	0%
47	0	0	N/A	0.1693%	0.2194%	0	0	0%	0%
48	0	0	N/A	0.1919%	0.2277%	0	0	0%	0%
49	0	0	N/A	0.2162%	0.2358%	0	0	0%	0%
50	0	1	0.000000	0.2429%	0.2488%	0.0	0.0	0%	0%
51	0	4	0.000000	0.2752%	0.2666%	0.0	0.0	0%	0%
52	0	10	0.000000	0.3119%	0.2895%	0.0	0.0	0%	0%
53	1	17	0.058824	0.3517%	0.3177%	0.1	0.1	1673%	1851%
54	0	32	0.000000	0.3952%	0.3513%	0.1	0.1	0%	0%
55	1	93	0.010753	0.4427%	0.3906%	0.4	0.4	243%	275%
56	0	227	0.000000	0.5143%	0.4353%	1.2	1.0	0%	0%
57	5	293	0.017065	0.5899%	0.4857%	1.7	1.4	289%	351%
58	1	356	0.002809	0.6677%	0.5414%	2.4	1.9	42%	52%
59	1	387	0.002584	0.7498%	0.6025%	2.9	2.3	34%	43%
60	5	458	0.010917	0.8360%	0.6685%	3.8	3.1	131%	163%
61	3	497	0.006036	0.9283%	0.7392%	4.6	3.7	65%	82%
62	3	555	0.005405	1.0063%	0.8160%	5.6	4.5	54%	66%
63	12	699	0.017167	1.0825%	0.8998%	7.6	6.3	159%	191%
64	14	750	0.018667	1.1636%	0.9910%	8.7	7.4	160%	188%
65	9	758	0.011873	1.2496%	1.0901%	9.5	8.3	95%	109%
66	15	792	0.018939	1.3417%	1.1984%	10.6	9.5	141%	158%
67	15	780	0.019231	1.4451%	1.3166%	11.3	10.3	133%	146%
68	10	771	0.012970	1.5535%	1.4461%	12.0	11.1	83%	90%
69	8	746	0.010724	1.6294%	1.5881%	12.2	11.8	66%	68%
70	13	715	0.018182	1.6985%	1.7437%	12.1	12.5	107%	104%
71	13	688	0.018895	1.8767%	1.9146%	12.9	13.2	101%	99%
72	12	652	0.018405	2.0590%	2.1020%	13.4	13.7	89%	88%
73	13	618	0.021036	2.2263%	2.3080%	13.8	14.3	94%	91%
74	17	579	0.029361	2.3996%	2.5337%	13.9	14.7	122%	116%
75	17	547	0.031079	2.5562%	2.7819%	14.0	15.2	122%	112%
76	12	499	0.024048	2.8870%	3.0552%	14.4	15.2	83%	79%
77	22	495	0.044444	3.2341%	3.3563%	16.0	16.6	137%	132%
78	18	472	0.038136	3.5667%	3.6878%	16.8	17.4	107%	103%
79	21	457	0.045952	3.8992%	4.0546%	17.8	18.5	118%	113%
80	21	443	0.047404	4.2318%	4.4584%	18.7	19.8	112%	106%
81	21	420	0.050000	4.7578%	4.9043%	20.0	20.6	105%	102%
82	17	409	0.041565	5.2939%	5.3948%	21.7	22.1	79%	77%
83	25	395	0.063291	5.8399%	5.9362%	23.1	23.4	108%	107%
84	22	376	0.058511	6.3959%	6.5306%	24.0	24.6	91%	90%
85	20	347	0.057637	6.9972%	7.1838%	24.3	24.9	82%	80%
86	28	327	0.085627	8.0199%	7.8991%	26.2	25.8	107%	108%
87	17	302	0.056291	9.0525%	8.6794%	27.3	26.2	62%	65%
88	25	278	0.089928	10.0447%	9.5319%	27.9	26.5	90%	94%
89	26	249	0.104418	11.0925%	10.4649%	27.6	26.1	94%	100%
90	33	211	0.156398	12.0898%	11.4834%	25.5	24.2	129%	136%
91	26	174	0.149425	13.8041%	12.5946%	24.0	21.9	108%	119%
92	22	140	0.157143	15.4621%	13.8048%	21.6	19.3	102%	114%
93	14	111	0.126126	17.1684%	15.1237%	19.1	16.8	73%	83%
94	16	92	0.173913	18.6886%	16.5652%	17.2	15.2	93%	105%
95	8	73	0.109589	20.1504%	18.1442%	14.7	13.2	54%	60%
96	14	53	0.264151	21.3100%	19.8879%	11.3	10.5	124%	133%
97	9	36	0.250000	22.4283%	21.7949%	8.1	7.8	111%	115%
98	7	27	0.259259	23.1412%	23.8896%	6.2	6.5	112%	109%
99	5	17	0.294118	23.5424%	26.1831%	4.0	4.5	125%	112%
Subtotal	637	18,428				632.5	614.5	101%	104%
100 or more	7	23	0.304348	25.4498%	34.6676%	5.9	8.0	120%	88%
Total	644	18,451				638.3	622.5	101%	103%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
42	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
43	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
44	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
45	0	1	0.000000	0.3309%	0.2753%	0.0	0.0	0%	0%
46	0	1	0.000000	0.3623%	0.2973%	0.0	0.0	0%	0%
47	0	1	0.000000	0.3902%	0.3200%	0.0	0.0	0%	0%
48	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
49	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
50	0	8	0.000000	0.4283%	0.3748%	0.0	0.0	0%	0%
51	0	61	0.000000	0.5006%	0.4094%	0.3	0.2	0%	0%
52	0	145	0.000000	0.5616%	0.4373%	0.8	0.6	0%	0%
53	3	290	0.010345	0.6318%	0.4705%	1.8	1.4	164%	220%
54	3	531	0.005650	0.7013%	0.5060%	3.7	2.7	81%	112%
55	10	1,189	0.008410	0.7713%	0.5440%	9.2	6.5	109%	155%
56	17	2,459	0.006913	0.8263%	0.5889%	20.3	14.5	84%	117%
57	26	3,201	0.008122	0.8872%	0.6438%	28.4	20.6	92%	126%
58	30	3,923	0.007647	0.9489%	0.7070%	37.2	27.7	81%	108%
59	46	4,530	0.010155	1.0081%	0.7803%	45.7	35.3	101%	130%
60	61	5,290	0.011531	1.0655%	0.8625%	56.4	45.6	108%	134%
61	72	6,001	0.011998	1.1832%	0.9561%	71.0	57.4	101%	125%
62	87	6,887	0.012632	1.2916%	1.0597%	89.0	73.0	98%	119%
63	120	8,071	0.014868	1.4010%	1.1715%	113.1	94.6	106%	127%
64	126	8,754	0.014393	1.5043%	1.2962%	131.7	113.5	96%	111%
65	159	9,140	0.017396	1.6058%	1.4334%	146.8	131.0	108%	121%
66	156	9,486	0.016445	1.7457%	1.5822%	165.6	150.1	94%	104%
67	193	9,668	0.019963	1.8803%	1.7467%	181.8	168.9	106%	114%
68	192	9,631	0.019936	2.0051%	1.9256%	193.1	185.5	99%	104%
69	183	9,446	0.019373	2.1362%	2.1224%	201.8	200.5	91%	91%
70	221	9,136	0.024190	2.2561%	2.3380%	206.1	213.6	107%	103%
71	203	8,780	0.023121	2.4601%	2.5742%	216.0	226.0	94%	90%
72	219	8,386	0.026115	2.6691%	2.8340%	223.8	237.7	98%	92%
73	251	8,094	0.031011	2.8813%	3.1198%	233.2	252.5	108%	99%
74	263	7,604	0.034587	3.0972%	3.4319%	235.5	261.0	112%	101%
75	257	7,127	0.036060	3.3314%	3.7726%	237.4	268.9	108%	96%
76	273	6,676	0.040893	3.8380%	4.1494%	256.2	277.0	107%	99%
77	278	6,337	0.043869	4.3711%	4.5547%	277.0	288.6	100%	96%
78	279	6,075	0.045926	4.9225%	5.0027%	299.0	303.9	93%	92%
79	294	5,851	0.050248	5.4885%	5.4926%	321.1	321.4	92%	91%
80	314	5,573	0.056343	6.0679%	6.0282%	338.2	336.0	93%	93%
81	365	5,249	0.069537	6.7116%	6.6166%	352.3	347.3	104%	105%
82	329	4,977	0.066104	7.3578%	7.2584%	366.2	361.3	90%	91%
83	335	4,646	0.072105	7.9710%	7.9612%	370.3	369.9	90%	91%
84	351	4,285	0.081914	8.6254%	8.7323%	369.6	374.2	95%	94%
85	339	3,901	0.086901	9.2495%	9.5821%	360.8	373.8	94%	91%
86	368	3,514	0.104724	10.4394%	10.5050%	366.8	369.1	100%	100%
87	353	3,097	0.113981	11.7218%	11.5142%	363.0	356.6	97%	99%
88	356	2,650	0.134340	13.0389%	12.6063%	345.5	334.1	103%	107%
89	314	2,237	0.140367	14.3458%	13.8015%	320.9	308.7	98%	102%
90	292	1,823	0.160176	15.7618%	15.1135%	287.3	275.5	102%	106%
91	239	1,451	0.164714	17.5321%	16.5461%	254.4	240.1	94%	100%
92	218	1,125	0.193778	19.3513%	18.1034%	217.7	203.7	100%	107%
93	171	861	0.198606	21.0687%	19.7940%	181.4	170.4	94%	100%
94	146	667	0.218891	22.7521%	21.6215%	151.8	144.2	96%	101%
95	122	491	0.248473	24.6785%	23.6174%	121.2	116.0	101%	105%
96	87	336	0.258929	26.3845%	25.8298%	88.7	86.8	98%	100%
97	63	231	0.272727	28.0856%	28.3333%	64.9	65.5	97%	96%
98	57	160	0.356250	29.7483%	30.9546%	47.6	49.5	120%	115%
99	30	99	0.303030	31.1273%	33.9130%	30.8	33.6	97%	89%
Subtotal	8,871	220,153				9,002.5	8,896.2	99%	100%
100 or more	50	147	0.340136	35.3350%	45.1041%	51.9	66.3	96%	75%
Total	8,921	220,300				9,054.5	8,962.5	99%	100%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u>	<u>Actual Deaths</u>	<u>Total Exposed</u>	<u>Actual Rate (2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u>	<u>Proposed (8) / (3)</u>	<u>Expected (7)</u>	<u>Proposed (8)</u>	<u>Expected (2) / (7)</u>	<u>Proposed (2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
41-44	0	0	N/A			0	0	0%	0%
45-49	0	3	0.000000	0.3611%	0.2975%	0.0	0.0	0%	0%
50-54	5	971	0.005149	0.6672%	0.4899%	6.5	4.8	77%	105%
55-59	121	13,946	0.008676	0.9479%	0.6999%	132.2	97.6	92%	124%
60-64	429	32,044	0.013388	1.3443%	1.1204%	430.8	359.0	100%	119%
65-69	826	43,524	0.018978	1.9152%	1.8033%	833.6	784.9	99%	105%
70-74	1,089	38,748	0.028105	2.7060%	2.8969%	1,048.5	1,122.5	104%	97%
75-79	1,291	29,596	0.043621	4.4322%	4.6519%	1,311.8	1,376.8	98%	94%
80-84	1,588	22,687	0.069996	7.4452%	7.3970%	1,689.1	1,678.1	94%	95%
85-89	1,614	13,896	0.116149	11.6850%	11.6064%	1,623.7	1,612.8	99%	100%
90-94	955	5,199	0.183689	18.9491%	18.0113%	985.2	936.4	97%	102%
95-99	316	1,111	0.284428	27.7935%	27.7919%	308.8	308.8	102%	102%
100+	43	124	0.346774	37.1685%	47.0399%	46.1	58.3	93%	74%
<b>Total</b>	<b>8,277</b>	<b>201,849</b>				<b>8,416.2</b>	<b>8,340.0</b>	<b>98%</b>	<b>99%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Rate</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	1	64	0.015625	0.3608%	0.3258%	0.2	0.2	433%	480%
55-59	8	1,356	0.005900	0.6332%	0.5187%	8.6	7.0	93%	114%
60-64	37	2,959	0.012504	1.0247%	0.8444%	30.3	25.0	122%	148%
65-69	57	3,847	0.014817	1.4428%	1.3262%	55.5	51.0	103%	112%
70-74	68	3,252	0.020910	2.0336%	2.0996%	66.1	68.3	103%	100%
75-79	90	2,470	0.036437	3.2005%	3.3608%	79.1	83.0	114%	108%
80-84	106	2,043	0.051884	5.2618%	5.4046%	107.5	110.4	99%	96%
85-89	116	1,503	0.077179	8.8748%	8.6179%	133.4	129.5	87%	90%
90-94	111	728	0.152473	14.7563%	13.3927%	107.4	97.5	103%	114%
95-99	43	206	0.208738	21.5187%	20.6473%	44.3	42.5	97%	101%
100+	7	23	0.304348	25.4498%	34.6676%	5.9	8.0	120%	88%
Total	644	18,451				638.3	622.5	101%	103%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Rate</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	3	0.000000	0.3611%	0.2975%	0.0	0.0	0%	0%
50-54	6	1,035	0.005797	0.6483%	0.4797%	6.7	5.0	89%	121%
55-59	129	15,302	0.008430	0.9200%	0.6838%	140.8	104.6	92%	123%
60-64	466	35,003	0.013313	1.3173%	1.0971%	461.1	384.0	101%	121%
65-69	883	47,371	0.018640	1.8768%	1.7646%	889.1	835.9	99%	106%
70-74	1,157	42,000	0.027548	2.6539%	2.8351%	1,114.7	1,190.8	104%	97%
75-79	1,381	32,066	0.043067	4.3373%	4.5525%	1,390.8	1,459.8	99%	95%
80-84	1,694	24,730	0.068500	7.2648%	7.2324%	1,796.6	1,788.6	94%	95%
85-89	1,730	15,399	0.112345	11.4107%	11.3147%	1,757.1	1,742.3	98%	99%
90-94	1,066	5,927	0.179855	18.4341%	17.4440%	1,092.6	1,033.9	98%	103%
95-99	359	1,317	0.272589	26.8120%	26.6743%	353.1	351.3	102%	102%
100+	50	147	0.340136	35.3350%	45.1041%	51.9	66.3	96%	75%
<b>Total</b>	<b>8,921</b>	<b>220,300</b>				<b>9,054.5</b>	<b>8,962.5</b>	<b>99%</b>	<b>100%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	22,431	968	733.8	132%	4.3155%	3.2716%
2005	22,485	918	744.9	123%	4.0827%	3.3130%
2006	21,947	857	754.5	114%	3.9049%	3.4378%
2007	21,929	955	767.0	125%	4.3550%	3.4975%
2008	21,751	804	770.7	104%	3.6964%	3.5434%
2009	21,878	883	787.4	112%	4.0360%	3.5993%
2010	21,703	834	795.3	105%	3.8428%	3.6644%
2011	21,824	955	808.3	118%	4.3759%	3.7037%
2012	22,032	766	818.4	94%	3.4768%	3.7144%
2013	22,320	981	843.8	116%	4.3952%	3.7803%
Total	220,300	8,921	7,824.1	114%	4.0495%	3.5516%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	19	0.000000	1.4444%	0.4277%	0.3	0.1	0%	0%
42	0	23	0.000000	1.4841%	0.5537%	0.3	0.1	0%	0%
43	0	25	0.000000	1.5246%	0.6796%	0.4	0.2	0%	0%
44	0	36	0.000000	1.5660%	0.8055%	0.6	0.3	0%	0%
45	0	53	0.000000	1.6079%	0.9315%	0.9	0.5	0%	0%
46	0	67	0.000000	1.6532%	1.0574%	1.1	0.7	0%	0%
47	1	91	0.010989	1.6979%	1.1833%	1.5	1.1	65%	93%
48	1	113	0.008850	1.7687%	1.2873%	2.0	1.5	50%	69%
49	1	133	0.007519	1.8401%	1.3912%	2.4	1.9	41%	54%
50	2	147	0.013605	1.9120%	1.4952%	2.8	2.2	71%	91%
51	1	162	0.006173	2.0266%	1.5992%	3.3	2.6	30%	39%
52	3	174	0.017241	2.1447%	1.7031%	3.7	3.0	80%	101%
53	2	176	0.011364	2.2867%	1.7916%	4.0	3.2	50%	63%
54	4	213	0.018779	2.4343%	1.8801%	5.2	4.0	77%	100%
55	13	215	0.060465	2.6085%	1.9686%	5.6	4.2	232%	307%
56	5	231	0.021645	2.6895%	2.0571%	6.2	4.8	80%	105%
57	4	245	0.016327	2.7715%	2.1456%	6.8	5.3	59%	76%
58	9	224	0.040179	2.8551%	2.2383%	6.4	5.0	141%	180%
59	6	232	0.025862	2.9164%	2.3309%	6.8	5.4	89%	111%
60	6	242	0.024793	2.9783%	2.4235%	7.2	5.9	83%	102%
61	7	260	0.026923	3.1350%	2.5162%	8.2	6.5	86%	107%
62	10	292	0.034247	3.2734%	2.6088%	9.6	7.6	105%	131%
63	9	311	0.028939	3.4465%	2.7383%	10.7	8.5	84%	106%
64	8	297	0.026936	3.6008%	2.8677%	10.7	8.5	75%	94%
65	15	267	0.056180	3.7650%	2.9972%	10.1	8.0	149%	187%
66	7	249	0.028112	3.8492%	3.1266%	9.6	7.8	73%	90%
67	11	223	0.049327	3.9079%	3.2560%	8.7	7.3	126%	151%
68	7	210	0.033333	3.9758%	3.4680%	8.3	7.3	84%	96%
69	7	205	0.034146	4.0089%	3.6800%	8.2	7.5	85%	93%
70	5	182	0.027473	4.0789%	3.8920%	7.4	7.1	67%	71%
71	7	161	0.043478	4.2824%	4.1040%	6.9	6.6	102%	106%
72	2	152	0.013158	4.5348%	4.3160%	6.9	6.6	29%	30%
73	4	138	0.028986	4.8103%	4.6694%	6.6	6.4	60%	62%
74	7	120	0.058333	5.1099%	5.0227%	6.1	6.0	114%	116%
75	7	97	0.072165	5.4793%	5.3761%	5.3	5.2	132%	134%
76	3	94	0.031915	5.9251%	5.7294%	5.6	5.4	54%	56%
77	5	93	0.053763	6.4623%	6.0828%	6.0	5.7	83%	88%
78	9	90	0.100000	7.0498%	6.6494%	6.3	6.0	142%	150%
79	5	80	0.062500	7.6912%	7.2161%	6.2	5.8	81%	87%
80	5	68	0.073529	8.3900%	7.7827%	5.7	5.3	88%	94%
81	7	65	0.107692	9.1500%	8.3493%	5.9	5.4	118%	129%
82	4	53	0.075472	9.9739%	8.9159%	5.3	4.7	76%	85%
83	6	55	0.109091	10.7832%	9.7808%	5.9	5.4	101%	112%
84	6	52	0.115385	11.7507%	10.6456%	6.1	5.5	98%	108%
85	3	46	0.065217	12.7010%	11.5105%	5.8	5.3	51%	57%
86	8	44	0.181818	13.4167%	12.3753%	5.9	5.4	136%	147%
87	4	37	0.108108	14.0240%	13.2402%	5.2	4.9	77%	82%
88	10	31	0.322581	14.7914%	14.5013%	4.6	4.5	218%	222%
89	8	22	0.363636	15.4730%	15.7625%	3.4	3.5	235%	231%
90	2	13	0.153846	16.3129%	17.0236%	2.1	2.2	94%	90%
91	2	12	0.166667	18.1428%	18.2847%	2.2	2.2	92%	91%
92	2	9	0.222222	20.3472%	19.5459%	1.8	1.8	109%	114%
93	1	7	0.142857	22.3332%	21.3144%	1.6	1.5	64%	67%
94	2	5	0.400000	24.2739%	23.0829%	1.2	1.2	165%	173%
95	0	1	0.000000	26.4093%	24.8515%	0.3	0.2	0%	0%
96	0	2	0.000000	28.2045%	26.6200%	0.6	0.5	0%	0%
97	0	2	0.000000	29.8596%	28.3885%	0.6	0.6	0%	0%
98	0	2	0.000000	31.6972%	30.7886%	0.6	0.6	0%	0%
99	2	2	1.000000	33.0026%	33.1888%	0.7	0.7	303%	301%
Subtotal	265	6,870				280.5	242.9	94%	109%
100 or more	0	0	N/A	37.1685%	40.3891%	0	0	0%	0%
Total	265	6,870				280.5	242.9	94%	109%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	9	0.000000	1.4837%	0.9226%	0.1	0.1	0%	0%
42	0	13	0.000000	1.5121%	1.0619%	0.2	0.1	0%	0%
43	0	15	0.000000	1.5409%	1.2013%	0.2	0.2	0%	0%
44	0	20	0.000000	1.5630%	1.3407%	0.3	0.3	0%	0%
45	0	21	0.000000	1.6061%	1.4800%	0.3	0.3	0%	0%
46	0	31	0.000000	1.6501%	1.6194%	0.5	0.5	0%	0%
47	1	44	0.022727	1.6950%	1.7588%	0.7	0.8	134%	129%
48	0	47	0.000000	1.7177%	1.8672%	0.8	0.9	0%	0%
49	0	51	0.000000	1.7429%	1.9756%	0.9	1.0	0%	0%
50	0	47	0.000000	1.7433%	2.0840%	0.8	1.0	0%	0%
51	0	53	0.000000	1.7687%	2.1925%	0.9	1.2	0%	0%
52	1	51	0.019608	1.7686%	2.3009%	0.9	1.2	111%	85%
53	1	53	0.018868	1.7665%	2.3794%	0.9	1.3	107%	79%
54	1	65	0.015385	1.7997%	2.4580%	1.2	1.6	85%	63%
55	0	69	0.000000	1.8308%	2.5365%	1.3	1.8	0%	0%
56	2	70	0.028571	1.9016%	2.6151%	1.3	1.8	150%	109%
57	1	71	0.014085	1.9980%	2.6936%	1.4	1.9	70%	52%
58	3	67	0.044776	2.1697%	2.7573%	1.5	1.8	206%	162%
59	0	71	0.000000	2.2668%	2.8209%	1.6	2.0	0%	0%
60	3	82	0.036585	2.3670%	2.8846%	1.9	2.4	155%	127%
61	2	83	0.024096	2.4709%	2.9483%	2.1	2.4	98%	82%
62	3	78	0.038462	2.5239%	3.0119%	2.0	2.3	152%	128%
63	2	64	0.031250	2.5775%	3.0896%	1.6	2.0	121%	101%
64	4	55	0.072727	2.7492%	3.1674%	1.5	1.7	265%	230%
65	3	52	0.057692	2.8706%	3.2451%	1.5	1.7	201%	178%
66	3	47	0.063830	3.0625%	3.3228%	1.4	1.6	208%	192%
67	0	46	0.000000	3.1997%	3.4005%	1.5	1.6	0%	0%
68	0	36	0.000000	3.3456%	3.5351%	1.2	1.3	0%	0%
69	1	45	0.022222	3.4266%	3.6698%	1.5	1.7	65%	61%
70	1	42	0.023810	3.5100%	3.8044%	1.5	1.6	68%	63%
71	2	39	0.051282	3.5716%	3.9390%	1.4	1.5	144%	130%
72	0	36	0.000000	3.6091%	4.0737%	1.3	1.5	0%	0%
73	2	26	0.076923	3.6726%	4.3220%	1.0	1.1	209%	178%
74	3	24	0.125000	3.8549%	4.5704%	0.9	1.1	324%	274%
75	0	20	0.000000	4.1360%	4.8187%	0.8	1.0	0%	0%
76	0	18	0.000000	4.3872%	5.0671%	0.8	0.9	0%	0%
77	1	19	0.052632	4.5998%	5.3154%	0.9	1.0	114%	99%
78	0	17	0.000000	4.9979%	5.7482%	0.8	1.0	0%	0%
79	1	13	0.076923	5.4045%	6.1810%	0.7	0.8	142%	124%
80	0	12	0.000000	5.9727%	6.6138%	0.7	0.8	0%	0%
81	2	11	0.181818	6.6020%	7.0467%	0.7	0.8	275%	258%
82	0	7	0.000000	7.2980%	7.4795%	0.5	0.5	0%	0%
83	1	5	0.200000	8.0664%	8.1814%	0.4	0.4	248%	244%
84	0	4	0.000000	8.9133%	8.8833%	0.4	0.4	0%	0%
85	1	7	0.142857	9.7162%	9.5853%	0.7	0.7	147%	149%
86	0	8	0.000000	10.3681%	10.2872%	0.8	0.8	0%	0%
87	2	7	0.285714	11.2988%	10.9891%	0.8	0.8	253%	260%
88	0	4	0.000000	12.2125%	12.0588%	0.5	0.5	0%	0%
89	0	3	0.000000	13.6802%	13.1284%	0.4	0.4	0%	0%
90	1	1	1.000000	15.3234%	14.1981%	0.2	0.1	653%	704%
91	0	1	0.000000	17.2895%	15.2677%	0.2	0.2	0%	0%
92	0	1	0.000000	18.8204%	16.3374%	0.2	0.2	0%	0%
93	0	1	0.000000	20.0298%	17.8873%	0.2	0.2	0%	0%
94	0	1	0.000000	21.1824%	19.4373%	0.2	0.2	0%	0%
95	0	0	N/A	22.6541%	20.9872%	0	0	0%	0%
96	0	0	N/A	23.3742%	22.5371%	0	0	0%	0%
97	0	0	N/A	23.4718%	24.0870%	0	0	0%	0%
98	0	0	N/A	23.4917%	26.2437%	0	0	0%	0%
99	0	0	N/A	24.8039%	28.4003%	0	0	0%	0%
Subtotal	48	1,783				49.2	56.6	98%	85%
100 or more	0	0	N/A	25.4498%	34.8703%	0	0	0%	0%
Total	48	1,783				49.2	56.6	98%	85%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	28	0.000000	1.4570%	0.5868%	0.4	0.2	0%	0%
42	0	36	0.000000	1.4942%	0.7372%	0.5	0.3	0%	0%
43	0	40	0.000000	1.5307%	0.8752%	0.6	0.4	0%	0%
44	0	56	0.000000	1.5649%	0.9967%	0.9	0.6	0%	0%
45	0	74	0.000000	1.6074%	1.0871%	1.2	0.8	0%	0%
46	0	98	0.000000	1.6522%	1.2352%	1.6	1.2	0%	0%
47	2	135	0.014815	1.6970%	1.3709%	2.3	1.9	87%	108%
48	1	160	0.006250	1.7537%	1.4576%	2.8	2.3	36%	43%
49	1	184	0.005435	1.8132%	1.5532%	3.3	2.9	30%	35%
50	2	194	0.010309	1.8711%	1.6379%	3.6	3.2	55%	63%
51	1	215	0.004651	1.9630%	1.7454%	4.2	3.8	24%	27%
52	4	225	0.017778	2.0595%	1.8386%	4.6	4.1	86%	97%
53	3	229	0.013100	2.1663%	1.9277%	5.0	4.4	60%	68%
54	5	278	0.017986	2.2859%	2.0152%	6.4	5.6	79%	89%
55	13	284	0.045775	2.4196%	2.1066%	6.9	6.0	189%	217%
56	7	301	0.023256	2.5063%	2.1869%	7.5	6.6	93%	106%
57	5	316	0.015823	2.5977%	2.2688%	8.2	7.2	61%	70%
58	12	291	0.041237	2.6973%	2.3578%	7.8	6.9	153%	175%
59	6	303	0.019802	2.7642%	2.4457%	8.4	7.4	72%	81%
60	9	324	0.027778	2.8236%	2.5402%	9.1	8.2	98%	109%
61	9	343	0.026239	2.9743%	2.6207%	10.2	9.0	88%	100%
62	13	370	0.035135	3.1154%	2.6938%	11.5	10.0	113%	130%
63	11	375	0.029333	3.2982%	2.7982%	12.4	10.5	89%	105%
64	12	352	0.034091	3.4677%	2.9145%	12.2	10.3	98%	117%
65	18	319	0.056426	3.6192%	3.0376%	11.5	9.7	156%	186%
66	10	296	0.033784	3.7243%	3.1577%	11.0	9.3	91%	107%
67	11	269	0.040892	3.7868%	3.2807%	10.2	8.8	108%	125%
68	7	246	0.028455	3.8836%	3.4779%	9.6	8.6	73%	82%
69	8	250	0.032000	3.9041%	3.6782%	9.8	9.2	82%	87%
70	6	224	0.026786	3.9722%	3.8756%	8.9	8.7	67%	69%
71	9	200	0.045000	4.1438%	4.0718%	8.3	8.1	109%	111%
72	2	188	0.010638	4.3575%	4.2696%	8.2	8.0	24%	25%
73	6	164	0.036585	4.6299%	4.6143%	7.6	7.6	79%	79%
74	10	144	0.069444	4.9007%	4.9473%	7.1	7.1	142%	140%
75	7	117	0.059829	5.2497%	5.2808%	6.1	6.2	114%	113%
76	3	112	0.026786	5.6779%	5.6230%	6.4	6.3	47%	48%
77	6	112	0.053571	6.1463%	5.9526%	6.9	6.7	87%	90%
78	9	107	0.084112	6.7238%	6.5062%	7.2	7.0	125%	129%
79	6	93	0.064516	7.3716%	7.0714%	6.9	6.6	88%	91%
80	5	80	0.062500	8.0274%	7.6074%	6.4	6.1	78%	82%
81	9	76	0.118421	8.7812%	8.1608%	6.7	6.2	135%	145%
82	4	60	0.066667	9.6617%	8.7483%	5.8	5.2	69%	76%
83	7	60	0.116667	10.5568%	9.6475%	6.3	5.8	111%	121%
84	6	56	0.107143	11.5480%	10.5198%	6.5	5.9	93%	102%
85	4	53	0.075472	12.3068%	11.2562%	6.5	6.0	61%	67%
86	8	52	0.153846	12.9477%	12.0541%	6.7	6.3	119%	128%
87	6	44	0.136364	13.5904%	12.8821%	6.0	5.7	100%	106%
88	10	35	0.285714	14.4967%	14.2222%	5.1	5.0	197%	201%
89	8	25	0.320000	15.2579%	15.4464%	3.8	3.9	210%	207%
90	3	14	0.214286	16.2422%	16.8218%	2.3	2.4	132%	127%
91	2	13	0.153846	18.0772%	18.0527%	2.4	2.3	85%	85%
92	2	10	0.200000	20.1945%	19.2250%	2.0	1.9	99%	104%
93	1	8	0.125000	22.0453%	20.8860%	1.8	1.7	57%	60%
94	2	6	0.333333	23.7587%	22.4753%	1.4	1.3	140%	148%
95	0	1	0.000000	26.4093%	24.8515%	0.3	0.2	0%	0%
96	0	2	0.000000	28.2045%	26.6200%	0.6	0.5	0%	0%
97	0	2	0.000000	29.8596%	28.3885%	0.6	0.6	0%	0%
98	0	2	0.000000	31.6972%	30.7886%	0.6	0.6	0%	0%
99	2	2	1.000000	33.0026%	33.1888%	0.7	0.7	303%	301%
Subtotal	313	8,653				329.7	299.5	95%	105%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	313	8,653				329.7	299.5	95%	105%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	103	0.000000	1.5152%	0.6490%	1.6	0.7	0%	0%
45-49	3	457	0.006565	1.7398%	1.2219%	8.0	5.6	38%	54%
50-54	12	872	0.013761	2.1829%	1.7099%	19.0	14.9	63%	80%
55-59	37	1,147	0.032258	2.7701%	2.1502%	31.8	24.7	116%	150%
60-64	40	1,402	0.028531	3.3046%	2.6432%	46.3	37.1	86%	108%
65-69	47	1,154	0.040728	3.8925%	3.2821%	44.9	37.9	105%	124%
70-74	25	753	0.033201	4.5128%	4.3456%	34.0	32.7	74%	76%
75-79	29	454	0.063877	6.4741%	6.1707%	29.4	28.0	99%	104%
80-84	28	293	0.095563	9.8908%	8.9965%	29.0	26.4	97%	106%
85-89	33	180	0.183333	13.8467%	13.1122%	24.9	23.6	132%	140%
90-94	9	46	0.195652	19.3610%	19.1577%	8.9	8.8	101%	102%
95-99	2	9	0.222222	30.2152%	29.2026%	2.7	2.6	74%	76%
100+	0	0	N/A			0	0	0%	0%
Total	265	6,870				280.5	242.9	94%	109%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	57	0.000000	1.5331%	1.1744%	0.9	0.7	0%	0%
45-49	1	194	0.005155	1.6963%	1.7896%	3.3	3.5	30%	29%
50-54	3	269	0.011152	1.7713%	2.2951%	4.8	6.2	63%	49%
55-59	6	348	0.017241	2.0334%	2.6849%	7.1	9.3	85%	64%
60-64	14	362	0.038674	2.5199%	3.0058%	9.1	10.9	153%	129%
65-69	7	226	0.030973	3.1639%	3.4236%	7.2	7.7	98%	90%
70-74	8	167	0.047904	3.6206%	4.0846%	6.0	6.8	132%	117%
75-79	2	87	0.022989	4.6472%	5.3638%	4.0	4.7	49%	43%
80-84	3	39	0.076923	6.9581%	7.3250%	2.7	2.9	111%	105%
85-89	3	29	0.103448	11.0324%	10.8255%	3.2	3.1	94%	96%
90-94	1	5	0.200000	18.5291%	16.6256%	0.9	0.8	108%	120%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>48</b>	<b>1,783</b>				<b>49.2</b>	<b>56.6</b>	<b>98%</b>	<b>85%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	160	0.000000	1.5216%	0.8362%	2.4	1.3	0%	0%
45-49	4	651	0.006144	1.7268%	1.3911%	11.2	9.1	36%	44%
50-54	15	1,141	0.013146	2.0859%	1.8478%	23.8	21.1	63%	71%
55-59	43	1,495	0.028763	2.5986%	2.2747%	38.8	34.0	111%	126%
60-64	54	1,764	0.030612	3.1435%	2.7176%	55.5	47.9	97%	113%
65-69	54	1,380	0.039130	3.7731%	3.3053%	52.1	45.6	104%	118%
70-74	33	920	0.035870	4.3508%	4.2982%	40.0	39.5	82%	83%
75-79	31	541	0.057301	6.1803%	6.0409%	33.4	32.7	93%	95%
80-84	31	332	0.093373	9.5463%	8.8002%	31.7	29.2	98%	106%
85-89	36	209	0.172249	13.4562%	12.7949%	28.1	26.7	128%	135%
90-94	10	51	0.196078	19.2795%	18.9094%	9.8	9.6	102%	104%
95-99	2	9	0.222222	30.2152%	29.2026%	2.7	2.6	74%	76%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>313</b>	<b>8,653</b>				<b>329.7</b>	<b>299.5</b>	<b>95%</b>	<b>105%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

TABLE 2A

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	68	0.000000	1.4841%	0.4643%	1.0	0.3	0%	0%
42	1	97	0.010309	1.5295%	0.6030%	1.5	0.6	67%	171%
43	0	117	0.000000	1.5760%	0.7413%	1.8	0.9	0%	0%
44	0	136	0.000000	1.6237%	0.8782%	2.2	1.2	0%	0%
45	0	174	0.000000	1.6723%	1.0132%	2.9	1.8	0%	0%
46	3	199	0.015075	1.7246%	1.1457%	3.4	2.3	87%	132%
47	3	232	0.012931	1.7766%	1.2757%	4.1	3.0	73%	101%
48	4	270	0.014815	1.8563%	1.3794%	5.0	3.7	80%	107%
49	3	316	0.009494	1.9372%	1.4804%	6.1	4.7	49%	64%
50	5	356	0.014045	2.0191%	1.5788%	7.2	5.6	70%	89%
51	8	386	0.020725	2.1466%	1.6744%	8.3	6.5	97%	124%
52	12	426	0.028169	2.2787%	1.7670%	9.7	7.5	124%	159%
53	9	446	0.020179	2.4295%	1.8420%	10.8	8.2	83%	110%
54	15	494	0.030364	2.5864%	1.9177%	12.8	9.5	117%	158%
55	21	538	0.039033	2.7631%	1.9960%	14.9	10.7	141%	196%
56	20	604	0.033113	2.8401%	2.0785%	17.2	12.6	117%	159%
57	21	652	0.032209	2.9177%	2.1668%	19.0	14.1	110%	149%
58	23	634	0.036278	2.9966%	2.2656%	19.0	14.4	121%	160%
59	19	641	0.029641	3.0609%	2.3705%	19.6	15.2	97%	125%
60	19	673	0.028232	3.1259%	2.4814%	21.0	16.7	90%	114%
61	20	689	0.029028	3.2804%	2.5964%	22.6	17.9	88%	112%
62	20	690	0.028986	3.4252%	2.7138%	23.6	18.7	85%	107%
63	19	675	0.028148	3.5954%	2.8702%	24.3	19.4	78%	98%
64	28	667	0.041979	3.7564%	3.0262%	25.1	20.2	112%	139%
65	30	620	0.048387	3.9277%	3.1809%	24.4	19.7	123%	152%
66	17	550	0.030909	4.0033%	3.3338%	22.0	18.3	77%	93%
67	26	490	0.053061	4.0644%	3.4857%	19.9	17.1	131%	152%
68	25	464	0.053879	4.1476%	3.7241%	19.2	17.3	130%	145%
69	17	427	0.039813	4.1821%	3.9627%	17.9	16.9	95%	100%
70	14	390	0.035897	4.2681%	4.2004%	16.6	16.4	84%	85%
71	17	353	0.048159	4.4810%	4.4379%	15.8	15.7	107%	109%
72	16	344	0.046512	4.7452%	4.6748%	16.3	16.1	98%	99%
73	13	312	0.041667	5.0334%	5.0643%	15.7	15.8	83%	82%
74	17	288	0.059028	5.3469%	5.4526%	15.4	15.7	110%	108%
75	18	264	0.068182	5.7161%	5.8386%	15.1	15.4	119%	117%
76	13	241	0.053942	6.1811%	6.2236%	14.9	15.0	87%	87%
77	14	230	0.060870	6.7210%	6.6054%	15.5	15.2	91%	92%
78	17	218	0.077982	7.3098%	7.2148%	15.9	15.7	107%	108%
79	15	208	0.072115	7.9507%	7.8215%	16.5	16.3	91%	92%
80	15	191	0.078534	8.6468%	8.4262%	16.5	16.1	91%	93%
81	17	174	0.097701	9.4016%	9.0276%	16.4	15.7	104%	108%
82	12	155	0.077419	10.2172%	9.6264%	15.8	14.9	76%	80%
83	12	146	0.082192	11.0462%	10.5450%	16.1	15.4	74%	78%
84	18	129	0.139535	12.0010%	11.4610%	15.5	14.8	116%	122%
85	10	108	0.092593	12.9715%	12.3743%	14.0	13.4	71%	75%
86	14	90	0.155556	13.7025%	13.2837%	12.3	12.0	114%	117%
87	7	73	0.095890	14.2795%	14.1888%	10.4	10.4	67%	68%
88	17	61	0.278689	15.0155%	15.5101%	9.2	9.5	186%	180%
89	11	38	0.289474	15.7075%	16.8210%	6.0	6.4	184%	172%
90	4	26	0.153846	16.5102%	18.1205%	4.3	4.7	93%	85%
91	4	21	0.190476	18.3623%	19.4074%	3.9	4.1	104%	98%
92	2	15	0.133333	20.5314%	20.6763%	3.1	3.1	65%	64%
93	2	10	0.200000	22.5354%	22.4555%	2.3	2.2	89%	89%
94	2	9	0.222222	24.4937%	24.2273%	2.2	2.2	91%	92%
95	2	5	0.400000	26.5684%	25.9989%	1.3	1.3	151%	154%
96	1	4	0.250000	28.3744%	27.7814%	1.1	1.1	88%	90%
97	0	2	0.000000	30.0395%	29.5550%	0.6	0.6	0%	0%
98	0	2	0.000000	31.7925%	31.9759%	0.6	0.6	0%	0%
99	2	3	0.666667	33.1018%	34.3885%	1.0	1.0	201%	194%
Subtotal	694	16,841				697.0	611.5	100%	113%
100 or more	1	3	0.333333	37.1685%	41.8491%	1.1	1.3	90%	80%
Total	695	16,844				698.1	612.8	100%	113%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	1	29	0.034483	1.5525%	0.9910%	0.5	0.3	222%	348%
42	0	36	0.000000	1.5823%	1.1369%	0.6	0.4	0%	0%
43	1	44	0.022727	1.6123%	1.2792%	0.7	0.6	141%	178%
44	0	52	0.000000	1.6355%	1.4176%	0.9	0.7	0%	0%
45	1	55	0.018182	1.6857%	1.5526%	0.9	0.9	108%	117%
46	0	67	0.000000	1.7372%	1.6837%	1.2	1.1	0%	0%
47	1	79	0.012658	1.7899%	1.8115%	1.4	1.4	71%	70%
48	1	84	0.011905	1.8139%	1.9058%	1.5	1.6	66%	62%
49	1	97	0.010309	1.8405%	2.0007%	1.8	1.9	56%	52%
50	1	98	0.010204	1.8353%	2.0987%	1.8	2.1	56%	49%
51	1	107	0.009346	1.8563%	2.2008%	2.0	2.4	50%	42%
52	2	113	0.017699	1.8450%	2.3092%	2.1	2.6	96%	77%
53	2	124	0.016129	1.8316%	2.3940%	2.3	3.0	88%	67%
54	2	144	0.013889	1.8548%	2.4855%	2.7	3.6	75%	56%
55	0	148	0.000000	1.8755%	2.5832%	2.8	3.8	0%	0%
56	4	155	0.025806	1.9362%	2.6856%	3.0	4.2	133%	96%
57	2	156	0.012821	2.0283%	2.7913%	3.2	4.4	63%	46%
58	4	156	0.025641	2.2025%	2.8828%	3.4	4.5	116%	89%
59	2	162	0.012346	2.3011%	2.9744%	3.7	4.8	54%	42%
60	5	161	0.031056	2.4029%	3.0636%	3.9	4.9	129%	101%
61	2	165	0.012121	2.5083%	3.1501%	4.1	5.2	48%	38%
62	7	150	0.046667	2.5622%	3.2323%	3.8	4.8	182%	144%
63	5	141	0.035461	2.6166%	3.3266%	3.7	4.7	136%	107%
64	5	123	0.040650	2.7909%	3.4169%	3.4	4.2	146%	119%
65	3	118	0.025424	2.9141%	3.5037%	3.4	4.1	87%	73%
66	3	107	0.028037	3.1089%	3.5883%	3.3	3.8	90%	78%
67	0	97	0.000000	3.2481%	3.6707%	3.2	3.6	0%	0%
68	1	90	0.011111	3.3962%	3.8133%	3.1	3.4	33%	29%
69	1	87	0.011494	3.4785%	3.9553%	3.0	3.4	33%	29%
70	2	80	0.025000	3.5632%	4.0962%	2.9	3.3	70%	61%
71	2	73	0.027397	3.6366%	4.2368%	2.7	3.1	75%	65%
72	0	70	0.000000	3.6748%	4.3767%	2.6	3.1	0%	0%
73	5	58	0.086207	3.7508%	4.6388%	2.2	2.7	230%	186%
74	4	50	0.080000	3.9370%	4.8993%	2.0	2.4	203%	163%
75	1	45	0.022222	4.2369%	5.1602%	1.9	2.3	52%	43%
76	1	42	0.023810	4.4942%	5.4218%	1.9	2.3	53%	44%
77	3	37	0.081081	4.6978%	5.6846%	1.7	2.1	173%	143%
78	0	29	0.000000	5.1043%	6.1456%	1.5	1.8	0%	0%
79	1	28	0.035714	5.5196%	6.6103%	1.5	1.9	65%	54%
80	2	29	0.068966	6.0999%	7.0761%	1.8	2.1	113%	97%
81	3	24	0.125000	6.7426%	7.5453%	1.6	1.8	185%	166%
82	0	18	0.000000	7.4535%	8.0153%	1.3	1.4	0%	0%
83	2	18	0.111111	8.2382%	8.7774%	1.5	1.6	135%	127%
84	2	15	0.133333	9.1031%	9.5393%	1.4	1.4	146%	140%
85	2	14	0.142857	9.8932%	10.3015%	1.4	1.4	144%	139%
86	1	12	0.083333	10.5252%	11.0604%	1.3	1.3	79%	75%
87	2	10	0.200000	11.4355%	11.8114%	1.1	1.2	175%	169%
88	1	7	0.142857	12.3603%	12.9505%	0.9	0.9	116%	110%
89	0	4	0.000000	13.8041%	14.0834%	0.6	0.6	0%	0%
90	1	3	0.333333	15.4621%	15.2059%	0.5	0.5	216%	219%
91	0	3	0.000000	17.4460%	16.3164%	0.5	0.5	0%	0%
92	0	4	0.000000	18.9908%	17.4115%	0.8	0.7	0%	0%
93	1	4	0.250000	20.1504%	19.0011%	0.8	0.8	124%	132%
94	0	3	0.000000	21.3100%	20.5761%	0.6	0.6	0%	0%
95	1	1	1.000000	22.7906%	22.1400%	0.2	0.2	439%	452%
96	0	2	0.000000	23.5150%	23.7098%	0.5	0.5	0%	0%
97	1	2	0.500000	23.5424%	25.2658%	0.5	0.5	212%	198%
98	0	1	0.000000	23.5623%	27.4526%	0.2	0.3	0%	0%
99	1	1	1.000000	24.8785%	29.6244%	0.2	0.3	402%	338%
Subtotal	97	3,832				109.7	129.9	88%	75%
100 or more	1	2	0.500000	25.4498%	36.3732%	0.5	0.7	196%	137%
Total	98	3,834				110.2	130.6	89%	75%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	1	97	0.010309	1.5045%	0.6218%	1.5	0.6	69%	166%
42	1	133	0.007519	1.5438%	0.7475%	2.1	1.0	49%	101%
43	1	161	0.006211	1.5859%	0.8883%	2.6	1.4	39%	70%
44	0	188	0.000000	1.6270%	1.0274%	3.1	1.9	0%	0%
45	1	229	0.004367	1.6755%	1.1427%	3.8	2.6	26%	38%
46	3	266	0.011278	1.7278%	1.2812%	4.6	3.4	65%	88%
47	4	311	0.012862	1.7800%	1.4118%	5.5	4.4	72%	91%
48	5	354	0.014124	1.8462%	1.5043%	6.5	5.3	77%	94%
49	4	413	0.009685	1.9145%	1.6026%	7.9	6.6	51%	60%
50	6	454	0.013216	1.9794%	1.6910%	9.0	7.7	67%	78%
51	9	493	0.018256	2.0836%	1.7886%	10.3	8.8	88%	102%
52	14	539	0.025974	2.1878%	1.8807%	11.8	10.1	119%	138%
53	11	570	0.019298	2.2994%	1.9621%	13.1	11.2	84%	98%
54	17	638	0.026646	2.4213%	2.0458%	15.4	13.1	110%	130%
55	21	686	0.030612	2.5716%	2.1227%	17.6	14.6	119%	144%
56	24	759	0.031621	2.6555%	2.2025%	20.2	16.7	119%	144%
57	23	808	0.028465	2.7460%	2.2874%	22.2	18.5	104%	124%
58	27	790	0.034177	2.8398%	2.3875%	22.4	18.9	120%	143%
59	21	803	0.026152	2.9076%	2.4923%	23.3	20.0	90%	105%
60	24	834	0.028777	2.9863%	2.5938%	24.9	21.6	96%	111%
61	22	854	0.025761	3.1312%	2.7033%	26.7	23.1	82%	95%
62	27	840	0.032143	3.2711%	2.8064%	27.5	23.6	98%	115%
63	24	816	0.029412	3.4263%	2.9491%	28.0	24.1	86%	100%
64	33	790	0.041772	3.6061%	3.0870%	28.5	24.4	116%	135%
65	33	738	0.044715	3.7656%	3.2325%	27.8	23.9	119%	138%
66	20	657	0.030441	3.8576%	3.3753%	25.3	22.2	79%	90%
67	26	587	0.044293	3.9295%	3.5163%	23.1	20.6	113%	126%
68	26	554	0.046931	4.0255%	3.7386%	22.3	20.7	117%	126%
69	18	514	0.035019	4.0630%	3.9614%	20.9	20.4	86%	88%
70	16	470	0.034043	4.1481%	4.1827%	19.5	19.7	82%	81%
71	19	426	0.044601	4.3363%	4.4034%	18.5	18.8	103%	101%
72	16	414	0.038647	4.5642%	4.6244%	18.9	19.1	85%	84%
73	18	370	0.048649	4.8323%	4.9976%	17.9	18.5	101%	97%
74	21	338	0.062130	5.1383%	5.3707%	17.4	18.2	121%	116%
75	19	309	0.061489	5.5007%	5.7398%	17.0	17.7	112%	107%
76	14	283	0.049470	5.9307%	6.1046%	16.8	17.3	83%	81%
77	17	267	0.063670	6.4406%	6.4778%	17.2	17.3	99%	98%
78	17	247	0.068826	7.0509%	7.0892%	17.4	17.5	98%	97%
79	16	236	0.067797	7.6623%	7.6778%	18.1	18.1	88%	88%
80	17	220	0.077273	8.3111%	8.2482%	18.3	18.1	93%	94%
81	20	198	0.101010	9.0793%	8.8479%	18.0	17.5	111%	114%
82	12	173	0.069364	9.9296%	9.4588%	17.2	16.4	70%	73%
83	14	164	0.085366	10.7380%	10.3510%	17.6	17.0	79%	82%
84	20	144	0.138889	11.6991%	11.2608%	16.8	16.2	119%	123%
85	12	122	0.098361	12.6183%	12.1365%	15.4	14.8	78%	81%
86	15	102	0.147059	13.3287%	13.0221%	13.6	13.3	110%	113%
87	9	83	0.108434	13.9368%	13.9023%	11.6	11.5	78%	78%
88	18	68	0.264706	14.7422%	15.2466%	10.0	10.4	180%	174%
89	11	42	0.261905	15.5262%	16.5603%	6.5	7.0	169%	158%
90	5	29	0.172414	16.4018%	17.8190%	4.8	5.2	105%	97%
91	4	24	0.166667	18.2478%	19.0210%	4.4	4.6	91%	88%
92	2	19	0.105263	20.2071%	19.9890%	3.8	3.8	52%	53%
93	3	14	0.214286	21.8540%	21.4685%	3.1	3.0	98%	100%
94	2	12	0.166667	23.6978%	23.3145%	2.8	2.8	70%	71%
95	3	6	0.500000	25.9388%	25.3558%	1.6	1.5	193%	197%
96	1	6	0.166667	26.7546%	26.4242%	1.6	1.6	62%	63%
97	1	4	0.250000	26.7910%	27.4104%	1.1	1.1	93%	91%
98	0	3	0.000000	29.0491%	30.4682%	0.9	0.9	0%	0%
99	3	4	0.750000	31.0460%	33.1974%	1.2	1.3	242%	226%
Subtotal	791	20,673				806.7	741.4	98%	107%
100 or more	2	5	0.400000	32.4810%	39.6587%	1.6	2.0	123%	101%
Total	793	20,678				808.3	743.4	98%	107%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	1	418	0.002392	1.5658%	0.7087%	6.5	3.0	15%	34%
45-49	13	1,191	0.010915	1.8134%	1.2934%	21.6	15.4	60%	84%
50-54	49	2,108	0.023245	2.3147%	1.7694%	48.8	37.3	100%	131%
55-59	104	3,069	0.033887	2.9215%	2.1824%	89.7	67.0	116%	155%
60-64	106	3,394	0.031232	3.4354%	2.7364%	116.6	92.9	91%	114%
65-69	115	2,551	0.045080	4.0528%	3.5021%	103.4	89.3	111%	129%
70-74	77	1,687	0.045643	4.7356%	4.7204%	79.9	79.6	96%	97%
75-79	77	1,161	0.066322	6.7113%	6.6841%	77.9	77.6	99%	99%
80-84	74	795	0.093082	10.1031%	9.6734%	80.3	76.9	92%	96%
85-89	59	370	0.159459	14.0254%	13.9272%	51.9	51.5	114%	114%
90-94	14	81	0.172840	19.3659%	20.1412%	15.7	16.3	89%	86%
95-99	5	16	0.312500	29.3318%	29.2092%	4.7	4.7	107%	107%
100+	1	3	0.333333	37.1685%	41.8491%	1.1	1.3	90%	80%
<b>Total</b>	<b>695</b>	<b>16,844</b>				<b>698.1</b>	<b>612.8</b>	<b>100%</b>	<b>113%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected (7)</u> (7)	<u>Proposed (8)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	2	161	0.012422	1.6023%	1.2402%	2.6	2.0	78%	100%
45-49	4	382	0.010471	1.7838%	1.8206%	6.8	7.0	59%	58%
50-54	8	586	0.013652	1.8450%	2.3155%	10.8	13.6	74%	59%
55-59	12	777	0.015444	2.0727%	2.7871%	16.1	21.7	75%	55%
60-64	24	740	0.032432	2.5639%	3.2259%	19.0	23.9	126%	101%
65-69	8	499	0.016032	3.2062%	3.6889%	16.0	18.4	50%	43%
70-74	13	331	0.039275	3.6923%	4.4029%	12.2	14.6	106%	89%
75-79	6	181	0.033149	4.7282%	5.7103%	8.6	10.3	70%	58%
80-84	9	104	0.086538	7.2857%	7.9967%	7.6	8.3	119%	108%
85-89	6	47	0.127660	11.0830%	11.5329%	5.2	5.4	115%	111%
90-94	2	17	0.117647	18.7776%	17.7615%	3.2	3.0	63%	66%
95-99	3	7	0.428571	23.6209%	25.3097%	1.7	1.8	181%	169%
100+	1	2	0.500000	25.4498%	36.3732%	0.5	0.7	196%	137%
<b>Total</b>	<b>98</b>	<b>3,834</b>				<b>110.2</b>	<b>130.6</b>	<b>89%</b>	<b>75%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	3	579	0.005181	1.5759%	0.8565%	9.1	5.0	33%	60%
45-49	17	1,573	0.010807	1.8062%	1.4215%	28.4	22.4	60%	76%
50-54	57	2,694	0.021158	2.2125%	1.8882%	59.6	50.9	96%	112%
55-59	116	3,846	0.030161	2.7500%	2.3046%	105.8	88.6	110%	131%
60-64	130	4,134	0.031447	3.2794%	2.8240%	135.6	116.7	96%	111%
65-69	123	3,050	0.040328	3.9143%	3.5326%	119.4	107.7	103%	114%
70-74	90	2,018	0.044599	4.5645%	4.6683%	92.1	94.2	98%	96%
75-79	83	1,342	0.061848	6.4438%	6.5527%	86.5	87.9	96%	94%
80-84	83	899	0.092325	9.7772%	9.4794%	87.9	85.2	94%	97%
85-89	65	417	0.155875	13.6937%	13.6573%	57.1	57.0	114%	114%
90-94	16	98	0.163265	19.2639%	19.7284%	18.9	19.3	85%	83%
95-99	8	23	0.347826	27.5937%	28.0224%	6.3	6.4	126%	124%
100+	2	5	0.400000	32.4810%	39.6587%	1.6	2.0	123%	101%
Total	793	20,678				808.3	743.4	98%	107%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	1,931	76	59.5	128%	3.9358%	3.0832%
2005	1,999	82	62.2	132%	4.1021%	3.1109%
2006	1,997	86	62.5	138%	4.3065%	3.1289%
2007	2,048	83	64.5	129%	4.0527%	3.1489%
2008	2,088	66	65.6	101%	3.1609%	3.1425%
2009	2,130	89	67.9	131%	4.1784%	3.1887%
2010	2,155	76	69.1	110%	3.5267%	3.2063%
2011	2,157	85	69.4	122%	3.9407%	3.2187%
2012	2,152	65	70.4	92%	3.0204%	3.2722%
2013	2,245	87	72.8	119%	3.8753%	3.2440%
Total	20,902	795	664.0	120%	3.8035%	3.1767%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	87	1,981	0.0439	8.00%	8.00%	158.5	158.5	55%	55%
1	149	4,946	0.0301	4.00%	4.00%	197.8	197.8	75%	75%
2	123	5,400	0.0228	2.00%	2.00%	108.0	108.0	114%	114%
3	93	4,566	0.0204	1.50%	1.50%	68.5	68.5	136%	136%
4	37	3,430	0.0108	1.20%	1.20%	41.2	41.2	90%	90%
5	40	3,039	0.0132	1.00%	1.00%	30.4	30.4	132%	132%
6	46	3,825	0.0120	1.00%	1.00%	38.3	38.3	120%	120%
7	48	4,613	0.0104	1.00%	1.00%	46.1	46.1	104%	104%
8	59	5,863	0.0101	1.00%	1.00%	58.6	58.6	101%	101%
9	60	6,116	0.0098	1.00%	1.00%	61.2	61.2	98%	98%
10	60	5,362	0.0112	0.90%	0.90%	48.3	48.3	124%	124%
11	36	4,291	0.0084	0.80%	0.80%	34.3	34.3	105%	105%
12	26	2,963	0.0088	0.70%	0.70%	20.7	20.7	125%	125%
13	22	2,669	0.0082	0.60%	0.60%	16.0	16.0	137%	137%
14	25	2,913	0.0086	0.50%	0.50%	14.6	14.6	172%	172%
15	18	3,411	0.0053	0.50%	0.50%	17.1	17.1	106%	106%
16	23	3,599	0.0064	0.50%	0.50%	18.0	18.0	128%	128%
17	21	3,701	0.0057	0.50%	0.50%	18.5	18.5	113%	113%
18	23	3,883	0.0059	0.50%	0.50%	19.4	19.4	118%	118%
19	27	4,322	0.0062	0.50%	0.50%	21.6	21.6	125%	125%
20	20	4,454	0.0045	0.50%	0.50%	22.3	22.3	90%	90%
21	11	4,154	0.0026	0.50%	0.50%	20.8	20.8	53%	53%
22	15	4,031	0.0037	0.50%	0.50%	20.2	20.2	74%	74%
23	22	3,425	0.0064	0.50%	0.50%	17.1	17.1	128%	128%
24	8	1,991	0.0040	0.50%	0.50%	10.0	10.0	80%	80%
25	7	1,867	0.0037	0.50%	0.50%	9.3	9.3	75%	75%
26	11	1,632	0.0067	0.50%	0.50%	8.2	8.2	135%	135%
27	11	1,385	0.0079	0.50%	0.50%	6.9	6.9	159%	159%
28	6	1,106	0.0054	0.50%	0.50%	5.5	5.5	108%	108%
29	9	731	0.0123	0.50%	0.50%	3.7	3.7	246%	246%
30	3	373	0.0080	0.50%	0.50%	1.9	1.9	161%	161%
Subtotal	1,146	106,042	0.0108			1,162.8	1,162.8	99%	99%
31 or more	1	163	0.0061	0.50%	0.50%	0.8	0.8	123%	123%
Total	1,147	106,205	0.0108			1,163.6	1,163.6	99%	99%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**4-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	24	282	0.0851	8.00%	8.00%	22.6	22.6	106%	106%
1	50	1,085	0.0461	4.00%	4.00%	43.4	43.4	115%	115%
2	43	1,158	0.0371	2.00%	2.00%	23.2	23.2	186%	186%
3	36	969	0.0372	1.50%	1.50%	14.5	14.5	248%	248%
4	26	766	0.0339	1.20%	1.20%	9.2	9.2	283%	283%
5	11	596	0.0185	1.00%	1.00%	6.0	6.0	185%	185%
6	8	700	0.0114	1.00%	1.00%	7.0	7.0	114%	114%
7	18	830	0.0217	1.00%	1.00%	8.3	8.3	217%	217%
8	26	1,101	0.0236	1.00%	1.00%	11.0	11.0	236%	236%
9	17	1,134	0.0150	1.00%	1.00%	11.3	11.3	150%	150%
10	27	1,053	0.0256	0.90%	0.90%	9.5	9.5	285%	285%
11	11	881	0.0125	0.80%	0.80%	7.0	7.0	156%	156%
12	8	590	0.0136	0.70%	0.70%	4.1	4.1	194%	194%
13	4	560	0.0071	0.60%	0.60%	3.4	3.4	119%	119%
14	8	582	0.0137	0.50%	0.50%	2.9	2.9	275%	275%
15	6	691	0.0087	0.50%	0.50%	3.5	3.5	174%	174%
16	9	710	0.0127	0.50%	0.50%	3.6	3.6	254%	254%
17	3	698	0.0043	0.50%	0.50%	3.5	3.5	86%	86%
18	8	763	0.0105	0.50%	0.50%	3.8	3.8	210%	210%
19	9	840	0.0107	0.50%	0.50%	4.2	4.2	214%	214%
20	5	880	0.0057	0.50%	0.50%	4.4	4.4	114%	114%
21	5	821	0.0061	0.50%	0.50%	4.1	4.1	122%	122%
22	4	760	0.0053	0.50%	0.50%	3.8	3.8	105%	105%
23	2	587	0.0034	0.50%	0.50%	2.9	2.9	68%	68%
24	2	303	0.0066	0.50%	0.50%	1.5	1.5	132%	132%
25	2	228	0.0088	0.50%	0.50%	1.1	1.1	175%	175%
26	1	156	0.0064	0.50%	0.50%	0.8	0.8	128%	128%
27	0	89	0.0000	0.50%	0.50%	0.4	0.4	0%	0%
28	0	55	0.0000	0.50%	0.50%	0.3	0.3	0%	0%
29	1	43	0.0233	0.50%	0.50%	0.2	0.2	465%	465%
30	0	22	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
Total	374	19,933	0.0188			221.6	221.6	169%	169%
31 or more	2	31	0.0645	0.50%	0.50%	0.2	0.2	1290%	1290%
Total	376	19,964	0.0188			221.8	221.8	170%	170%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**4-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	111	2,263	0.0490	8.00%	8.00%	181.0	181.0	61%	61%
1	199	6,031	0.0330	4.00%	4.00%	241.2	241.2	82%	82%
2	166	6,558	0.0253	2.00%	2.00%	131.2	131.2	127%	127%
3	129	5,535	0.0233	1.50%	1.50%	83.0	83.0	155%	155%
4	63	4,196	0.0150	1.20%	1.20%	50.4	50.4	125%	125%
5	51	3,635	0.0140	1.00%	1.00%	36.4	36.4	140%	140%
6	54	4,525	0.0119	1.00%	1.00%	45.3	45.3	119%	119%
7	66	5,443	0.0121	1.00%	1.00%	54.4	54.4	121%	121%
8	85	6,964	0.0122	1.00%	1.00%	69.6	69.6	122%	122%
9	77	7,250	0.0106	1.00%	1.00%	72.5	72.5	106%	106%
10	87	6,415	0.0136	0.90%	0.90%	57.7	57.7	151%	151%
11	47	5,172	0.0091	0.80%	0.80%	41.4	41.4	114%	114%
12	34	3,553	0.0096	0.70%	0.70%	24.9	24.9	137%	137%
13	26	3,229	0.0081	0.60%	0.60%	19.4	19.4	134%	134%
14	33	3,495	0.0094	0.50%	0.50%	17.5	17.5	189%	189%
15	24	4,102	0.0059	0.50%	0.50%	20.5	20.5	117%	117%
16	32	4,309	0.0074	0.50%	0.50%	21.5	21.5	149%	149%
17	24	4,399	0.0055	0.50%	0.50%	22.0	22.0	109%	109%
18	31	4,646	0.0067	0.50%	0.50%	23.2	23.2	133%	133%
19	36	5,162	0.0070	0.50%	0.50%	25.8	25.8	139%	139%
20	25	5,334	0.0047	0.50%	0.50%	26.7	26.7	94%	94%
21	16	4,975	0.0032	0.50%	0.50%	24.9	24.9	64%	64%
22	19	4,791	0.0040	0.50%	0.50%	24.0	24.0	79%	79%
23	24	4,012	0.0060	0.50%	0.50%	20.1	20.1	120%	120%
24	10	2,294	0.0044	0.50%	0.50%	11.5	11.5	87%	87%
25	9	2,095	0.0043	0.50%	0.50%	10.5	10.5	86%	86%
26	12	1,788	0.0067	0.50%	0.50%	8.9	8.9	134%	134%
27	11	1,474	0.0075	0.50%	0.50%	7.4	7.4	149%	149%
28	6	1,161	0.0052	0.50%	0.50%	5.8	5.8	103%	103%
29	10	774	0.0129	0.50%	0.50%	3.9	3.9	258%	258%
30	3	395	0.0076	0.50%	0.50%	2.0	2.0	152%	152%
Total	1,520	125,975	0.0121			1,384.4	1,384.4	110%	110%
31 or more	3	194	0.0155	0.50%	0.50%	1.0	1.0	309%	309%
Total	1,523	126,169	0.0121			1,385.3	1,385.3	110%	110%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	276	4,001	0.0690	8.00%	8.00%	320.1	320.1	86%	86%
1	276	8,392	0.0329	4.00%	4.00%	335.7	335.7	82%	82%
2	211	9,602	0.0220	2.00%	2.00%	192.0	192.0	110%	110%
3	176	9,803	0.0180	1.50%	1.50%	147.0	147.0	120%	120%
4	137	9,989	0.0137	1.20%	1.20%	119.9	119.9	114%	114%
5	152	10,076	0.0151	1.00%	1.00%	100.8	100.8	151%	151%
6	162	9,886	0.0164	1.00%	1.00%	98.9	98.9	164%	164%
7	122	9,638	0.0127	1.00%	1.00%	96.4	96.4	127%	127%
8	103	9,180	0.0112	1.00%	1.00%	91.8	91.8	112%	112%
9	100	9,182	0.0109	1.00%	1.00%	91.8	91.8	109%	109%
10	100	8,614	0.0116	0.90%	0.90%	77.5	77.5	129%	129%
11	67	8,158	0.0082	0.80%	0.80%	65.3	65.3	103%	103%
12	83	7,154	0.0116	0.70%	0.70%	50.1	50.1	166%	166%
13	68	6,872	0.0099	0.60%	0.60%	41.2	41.2	165%	165%
14	62	7,286	0.0085	0.50%	0.50%	36.4	36.4	170%	170%
15	61	8,309	0.0073	0.50%	0.50%	41.5	41.5	147%	147%
16	67	8,825	0.0076	0.50%	0.50%	44.1	44.1	152%	152%
17	51	8,600	0.0059	0.50%	0.50%	43.0	43.0	119%	119%
18	52	8,684	0.0060	0.50%	0.50%	43.4	43.4	120%	120%
19	52	8,392	0.0062	0.50%	0.50%	42.0	42.0	124%	124%
20	45	8,218	0.0055	0.50%	0.50%	41.1	41.1	110%	110%
21	37	8,046	0.0046	0.50%	0.50%	40.2	40.2	92%	92%
22	35	7,769	0.0045	0.50%	0.50%	38.8	38.8	90%	90%
23	35	7,003	0.0050	0.50%	0.50%	35.0	35.0	100%	100%
24	18	4,149	0.0043	0.50%	0.50%	20.7	20.7	87%	87%
25	28	3,556	0.0079	0.50%	0.50%	17.8	17.8	157%	157%
26	20	2,752	0.0073	0.50%	0.50%	13.8	13.8	145%	145%
27	16	2,006	0.0080	0.50%	0.50%	10.0	10.0	160%	160%
28	8	1,382	0.0058	0.50%	0.50%	6.9	6.9	116%	116%
29	10	813	0.0123	0.50%	0.50%	4.1	4.1	246%	246%
30	3	385	0.0078	0.50%	0.50%	1.9	1.9	156%	156%
Subtotal	2,633	216,722	0.0121			2,309.3	2,309.3	114%	114%
31 or more	1	183	0.0055	0.50%	0.50%	0.9	0.9	109%	109%
Total	2,634	216,905	0.0121			2,310.2	2,310.2	114%	114%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	79	792	0.0997	8.00%	8.00%	63.4	63.4	125%	125%
1	84	1,785	0.0471	4.00%	4.00%	71.4	71.4	118%	118%
2	61	1,925	0.0317	2.00%	2.00%	38.5	38.5	158%	158%
3	48	1,922	0.0250	1.50%	1.50%	28.8	28.8	166%	166%
4	59	2,026	0.0291	1.20%	1.20%	24.3	24.3	243%	243%
5	38	1,908	0.0199	1.00%	1.00%	19.1	19.1	199%	199%
6	36	1,948	0.0185	1.00%	1.00%	19.5	19.5	185%	185%
7	36	1,878	0.0192	1.00%	1.00%	18.8	18.8	192%	192%
8	39	1,785	0.0218	1.00%	1.00%	17.9	17.9	218%	218%
9	26	1,772	0.0147	1.00%	1.00%	17.7	17.7	147%	147%
10	35	1,688	0.0207	0.90%	0.90%	15.2	15.2	230%	230%
11	18	1,649	0.0109	0.80%	0.80%	13.2	13.2	136%	136%
12	15	1,394	0.0108	0.70%	0.70%	9.8	9.8	154%	154%
13	12	1,357	0.0088	0.60%	0.60%	8.1	8.1	147%	147%
14	14	1,464	0.0096	0.50%	0.50%	7.3	7.3	191%	191%
15	16	1,706	0.0094	0.50%	0.50%	8.5	8.5	188%	188%
16	25	1,799	0.0139	0.50%	0.50%	9.0	9.0	278%	278%
17	13	1,713	0.0076	0.50%	0.50%	8.6	8.6	152%	152%
18	14	1,681	0.0083	0.50%	0.50%	8.4	8.4	167%	167%
19	17	1,551	0.0110	0.50%	0.50%	7.8	7.8	219%	219%
20	10	1,496	0.0067	0.50%	0.50%	7.5	7.5	134%	134%
21	14	1,345	0.0104	0.50%	0.50%	6.7	6.7	208%	208%
22	8	1,170	0.0068	0.50%	0.50%	5.9	5.9	137%	137%
23	4	904	0.0044	0.50%	0.50%	4.5	4.5	88%	88%
24	2	481	0.0042	0.50%	0.50%	2.4	2.4	83%	83%
25	4	362	0.0110	0.50%	0.50%	1.8	1.8	221%	221%
26	3	236	0.0127	0.50%	0.50%	1.2	1.2	254%	254%
27	0	137	0.0000	0.50%	0.50%	0.7	0.7	0%	0%
28	1	79	0.0127	0.50%	0.50%	0.4	0.4	253%	253%
29	2	53	0.0377	0.50%	0.50%	0.3	0.3	755%	755%
30	0	28	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
Total	733	40,034	0.0183			446.6	446.6	164%	164%
31 or more	2	31	0.0645	0.50%	0.50%	0.2	0.2	1290%	1290%
Total	735	40,065	0.0183			446.8	446.8	165%	165%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	355	4,793	0.0741	8.00%	8.00%	383.4	383.4	93%	93%
1	360	10,177	0.0354	4.00%	4.00%	407.1	407.1	88%	88%
2	272	11,527	0.0236	2.00%	2.00%	230.5	230.5	118%	118%
3	224	11,725	0.0191	1.50%	1.50%	175.9	175.9	127%	127%
4	196	12,015	0.0163	1.20%	1.20%	144.2	144.2	136%	136%
5	190	11,984	0.0159	1.00%	1.00%	119.8	119.8	159%	159%
6	198	11,834	0.0167	1.00%	1.00%	118.3	118.3	167%	167%
7	158	11,516	0.0137	1.00%	1.00%	115.2	115.2	137%	137%
8	142	10,965	0.0130	1.00%	1.00%	109.7	109.7	130%	130%
9	126	10,954	0.0115	1.00%	1.00%	109.5	109.5	115%	115%
10	135	10,302	0.0131	0.90%	0.90%	92.7	92.7	146%	146%
11	85	9,807	0.0087	0.80%	0.80%	78.5	78.5	108%	108%
12	98	8,548	0.0115	0.70%	0.70%	59.8	59.8	164%	164%
13	80	8,229	0.0097	0.60%	0.60%	49.4	49.4	162%	162%
14	76	8,750	0.0087	0.50%	0.50%	43.8	43.8	174%	174%
15	77	10,015	0.0077	0.50%	0.50%	50.1	50.1	154%	154%
16	92	10,624	0.0087	0.50%	0.50%	53.1	53.1	173%	173%
17	64	10,313	0.0062	0.50%	0.50%	51.6	51.6	124%	124%
18	66	10,365	0.0064	0.50%	0.50%	51.8	51.8	127%	127%
19	69	9,943	0.0069	0.50%	0.50%	49.7	49.7	139%	139%
20	55	9,714	0.0057	0.50%	0.50%	48.6	48.6	113%	113%
21	51	9,391	0.0054	0.50%	0.50%	47.0	47.0	109%	109%
22	43	8,939	0.0048	0.50%	0.50%	44.7	44.7	96%	96%
23	39	7,907	0.0049	0.50%	0.50%	39.5	39.5	99%	99%
24	20	4,630	0.0043	0.50%	0.50%	23.2	23.2	86%	86%
25	32	3,918	0.0082	0.50%	0.50%	19.6	19.6	163%	163%
26	23	2,988	0.0077	0.50%	0.50%	14.9	14.9	154%	154%
27	16	2,143	0.0075	0.50%	0.50%	10.7	10.7	149%	149%
28	9	1,461	0.0062	0.50%	0.50%	7.3	7.3	123%	123%
29	12	866	0.0139	0.50%	0.50%	4.3	4.3	277%	277%
30	3	413	0.0073	0.50%	0.50%	2.1	2.1	145%	145%
Total	3,366	256,756	0.0131			2,755.9	2,755.9	122%	122%
31 or more	3	214	0.0140	0.50%	0.50%	1.1	1.1	280%	280%
Total	3,369	256,970	0.0131			2,757.0	2,757.0	122%	122%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 3D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals (3)	Expected Withdrawals (4)	Actual / Expected (5)	Withdrawal Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	33,567	464	402.1	115%	1.38%	1.20%
2005	32,901	432	370.2	117%	1.31%	1.13%
2006	32,151	448	360.6	124%	1.39%	1.12%
2007	32,202	503	397.2	127%	1.56%	1.23%
2008	32,181	386	421.6	92%	1.20%	1.31%
2009	32,700	379	437.0	87%	1.16%	1.34%
2010	31,316	367	361.5	102%	1.17%	1.15%
2011	29,947	390	307.6	127%	1.30%	1.03%
2012	28,696	84	295.4	28%	0.29%	1.03%
2013	27,990	238	302.2	79%	0.85%	1.08%
Total	313,651	3,691	3,655.4	101%	1.18%	1.17%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	1	1	1.0000	25.00%	20.00%	0.3	0.2	400%	500%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	463	2,115	0.2189	36.77%	31.77%	777.8	672.0	60%	69%
56	204	459	0.4444	36.47%	31.47%	167.4	144.5	122%	141%
57	54	289	0.1869	36.37%	31.37%	105.1	90.7	51%	60%
58	63	283	0.2226	35.71%	30.71%	101.1	86.9	62%	72%
59	56	254	0.2205	34.57%	29.57%	87.8	75.1	64%	75%
60	69	275	0.2509	35.05%	30.05%	96.4	82.7	72%	83%
61	72	244	0.2951	40.00%	35.00%	97.6	85.4	74%	84%
62	265	2,064	0.1284	50.82%	39.59%	1,049.0	817.1	25%	32%
63	117	162	0.7222	40.00%	39.32%	64.8	63.7	181%	184%
64	2	31	0.0645	40.00%	39.84%	12.4	12.4	16%	16%
65	1	19	0.0526	50.00%	50.00%	9.5	9.5	11%	11%
66	0	10	0.0000	40.00%	39.50%	4.0	4.0	0%	0%
67	2	12	0.1667	40.00%	40.00%	4.8	4.8	42%	42%
68	0	8	0.0000	40.00%	40.00%	3.2	3.2	0%	0%
69	0	4	0.0000	40.00%	40.00%	1.6	1.6	0%	0%
70	0	3	0.0000	100.00%	100.00%	3.0	3.0	0%	0%
Subtotal	1,369	6,233				2,585.7	2,156.6	53%	63%
Other	0	10	0.0000	100.00%	100.00%	10.0	10.0	0%	0%
Total	1,369	6,243				2,595.7	2,166.6	53%	63%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
41	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
42	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
43	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
44	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
45	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
46	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
47	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
48	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
49	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
50	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
51	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
52	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
53	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
54	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
55	367	1,660	0.2211	40.00%	35.00%	664.0	581.0	55%	63%
56	164	351	0.4672	40.00%	35.00%	140.4	122.9	117%	133%
57	44	219	0.2009	40.00%	35.00%	87.6	76.7	50%	57%
58	49	202	0.2426	40.00%	35.00%	80.8	70.7	61%	69%
59	44	162	0.2716	40.00%	35.00%	64.8	56.7	68%	78%
60	45	139	0.3237	40.00%	35.00%	55.6	48.7	81%	92%
61	43	110	0.3909	40.00%	35.00%	44.0	38.5	98%	112%
62	45	170	0.2647	60.00%	35.00%	102.0	59.5	44%	76%
63	22	22	1.0000	40.00%	35.00%	8.8	7.7	250%	286%
64	1	1	1.0000	40.00%	35.00%	0.4	0.4	250%	286%
65	0	0	N/A	60.00%	35.00%	0.0	0.0	0%	0%
66	0	1	0.0000	40.00%	35.00%	0.4	0.4	0%	0%
67	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
68	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
69	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	824	3,037				1,248.8	1,063.0	66%	78%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	824	3,037				1,248.8	1,063.0	66%	78%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
41	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
45	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
46	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
47	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
48	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
49	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
50	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
51	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
52	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
53	1	1	1.0000	25.00%	20.00%	0.3	0.2	400%	500%
54	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
55	96	455	0.2110	25.00%	20.00%	113.8	91.0	84%	105%
56	40	108	0.3704	25.00%	20.00%	27.0	21.6	148%	185%
57	10	70	0.1429	25.00%	20.00%	17.5	14.0	57%	71%
58	14	81	0.1728	25.00%	20.00%	20.3	16.2	69%	86%
59	12	92	0.1304	25.00%	20.00%	23.0	18.4	52%	65%
60	24	136	0.1765	30.00%	25.00%	40.8	34.0	59%	71%
61	29	134	0.2164	40.00%	35.00%	53.6	46.9	54%	62%
62	220	1,894	0.1162	50.00%	40.00%	947.0	757.6	23%	29%
63	95	140	0.6786	40.00%	40.00%	56.0	56.0	170%	170%
64	1	30	0.0333	40.00%	40.00%	12.0	12.0	8%	8%
65	1	19	0.0526	50.00%	50.00%	9.5	9.5	11%	11%
66	0	9	0.0000	40.00%	40.00%	3.6	3.6	0%	0%
67	2	12	0.1667	40.00%	40.00%	4.8	4.8	42%	42%
68	0	8	0.0000	40.00%	40.00%	3.2	3.2	0%	0%
69	0	4	0.0000	40.00%	40.00%	1.6	1.6	0%	0%
70	0	3	0.0000	100.00%	100.00%	3.0	3.0	0%	0%
Subtotal	545	3,196				1,336.9	1,093.6	41%	50%
Other	0	10	0.0000	100.00%	100.00%	10.0	10.0	0%	0%
Total	545	3,206				1,346.9	1,103.6	40%	49%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	1	1	1.0000	25.00%	20.00%	0.3	0.2	400%	500%
50	12	17	0.7059	25.88%	20.88%	4.4	3.6	273%	338%
51	10	10	1.0000	25.00%	20.00%	2.5	2.0	400%	500%
52	9	9	1.0000	25.00%	20.00%	2.3	1.8	400%	500%
53	8	8	1.0000	25.00%	20.00%	2.0	1.6	400%	500%
54	56	56	1.0000	31.43%	26.43%	17.6	14.8	318%	378%
55	927	4,117	0.2252	35.96%	30.96%	1,480.3	1,274.5	63%	73%
56	242	806	0.3002	36.39%	31.39%	293.3	253.0	83%	96%
57	98	620	0.1581	36.23%	31.23%	224.6	193.6	44%	51%
58	113	556	0.2032	35.41%	30.41%	196.9	169.1	57%	67%
59	91	501	0.1816	34.13%	29.13%	171.0	146.0	53%	62%
60	119	528	0.2254	34.49%	29.49%	182.1	155.7	65%	76%
61	171	514	0.3327	40.00%	35.00%	205.6	179.9	83%	95%
62	643	4,529	0.1420	50.73%	39.64%	2,297.5	1,795.1	28%	36%
63	120	195	0.6154	40.00%	39.41%	78.0	76.9	154%	156%
64	4	65	0.0615	40.00%	39.92%	26.0	26.0	15%	15%
65	3	49	0.0612	50.20%	49.69%	24.6	24.4	12%	12%
66	1	28	0.0357	40.00%	39.82%	11.2	11.2	9%	9%
67	2	24	0.0833	40.00%	40.00%	9.6	9.6	21%	21%
68	3	20	0.1500	40.00%	40.00%	8.0	8.0	38%	38%
69	0	6	0.0000	40.00%	40.00%	2.4	2.4	0%	0%
70	2	9	0.2222	100.00%	100.00%	9.0	9.0	22%	22%
Subtotal	2,635	12,668				5,249.1	4,358.1	50%	60%
Other	0	15	0.0000	100.00%	100.00%	15.0	15.0	0%	0%
Total	2,635	12,683				5,264.1	4,373.1	50%	60%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
41	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
42	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
43	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
44	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
45	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
46	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
47	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
48	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
49	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
50	1	1	1.0000	40.00%	35.00%	0.4	0.4	250%	286%
51	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
52	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
53	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
54	24	24	1.0000	40.00%	35.00%	9.6	8.4	250%	286%
55	632	3,007	0.2102	40.00%	35.00%	1,202.8	1,052.5	53%	60%
56	188	612	0.3072	40.00%	35.00%	244.8	214.2	77%	88%
57	73	464	0.1573	40.00%	35.00%	185.6	162.4	39%	45%
58	69	386	0.1788	40.00%	35.00%	154.4	135.1	45%	51%
59	58	305	0.1902	40.00%	35.00%	122.0	106.8	48%	54%
60	64	237	0.2700	40.00%	35.00%	94.8	83.0	68%	77%
61	60	167	0.3593	40.00%	35.00%	66.8	58.5	90%	103%
62	70	330	0.2121	60.00%	35.00%	198.0	115.5	35%	61%
63	22	23	0.9565	40.00%	35.00%	9.2	8.1	239%	273%
64	1	1	1.0000	40.00%	35.00%	0.4	0.4	250%	286%
65	1	1	1.0000	60.00%	35.00%	0.6	0.4	167%	286%
66	0	1	0.0000	40.00%	35.00%	0.4	0.4	0%	0%
67	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
68	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
69	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	1,263	5,559				2,289.8	1,945.7	55%	65%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	1,263	5,559				2,289.8	1,945.7	55%	65%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
41	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
45	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
46	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
47	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
48	0	0	N/A	25.00%	20.00%	0.0	0.0	0%	0%
49	1	1	1.0000	25.00%	20.00%	0.3	0.2	400%	500%
50	11	16	0.6875	25.00%	20.00%	4.0	3.2	275%	344%
51	10	10	1.0000	25.00%	20.00%	2.5	2.0	400%	500%
52	9	9	1.0000	25.00%	20.00%	2.3	1.8	400%	500%
53	8	8	1.0000	25.00%	20.00%	2.0	1.6	400%	500%
54	32	32	1.0000	25.00%	20.00%	8.0	6.4	400%	500%
55	295	1,110	0.2658	25.00%	20.00%	277.5	222.0	106%	133%
56	54	194	0.2784	25.00%	20.00%	48.5	38.8	111%	139%
57	25	156	0.1603	25.00%	20.00%	39.0	31.2	64%	80%
58	44	170	0.2588	25.00%	20.00%	42.5	34.0	104%	129%
59	33	196	0.1684	25.00%	20.00%	49.0	39.2	67%	84%
60	55	291	0.1890	30.00%	25.00%	87.3	72.8	63%	76%
61	111	347	0.3199	40.00%	35.00%	138.8	121.5	80%	91%
62	573	4,199	0.1365	50.00%	40.00%	2,099.5	1,679.6	27%	34%
63	98	172	0.5698	40.00%	40.00%	68.8	68.8	142%	142%
64	3	64	0.0469	40.00%	40.00%	25.6	25.6	12%	12%
65	2	48	0.0417	50.00%	50.00%	24.0	24.0	8%	8%
66	1	27	0.0370	40.00%	40.00%	10.8	10.8	9%	9%
67	2	24	0.0833	40.00%	40.00%	9.6	9.6	21%	21%
68	3	20	0.1500	40.00%	40.00%	8.0	8.0	38%	38%
69	0	6	0.0000	40.00%	40.00%	2.4	2.4	0%	0%
70	2	9	0.2222	100.00%	100.00%	9.0	9.0	22%	22%
Subtotal	1,372	7,109				2,959.3	2,412.4	46%	57%
Other	0	15	0.0000	100.00%	100.00%	15.0	15.0	0%	0%
Total	1,372	7,124				2,974.3	2,427.4	46%	57%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 5A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
56	119	1,346	0.0884	18.87%	17.74%	254.0	238.8	47%	50%
57	98	272	0.3603	18.77%	17.54%	51.1	47.7	192%	205%
58	16	169	0.0947	18.82%	17.63%	31.8	29.8	50%	54%
59	21	161	0.1304	18.57%	17.14%	29.9	27.6	70%	76%
60	24	155	0.1548	18.03%	16.06%	28.0	24.9	86%	96%
61	19	150	0.1267	20.00%	17.20%	30.0	25.8	63%	74%
62	46	139	0.3309	33.20%	30.47%	46.2	42.4	100%	109%
63	140	1,654	0.0846	29.26%	24.63%	484.0	407.4	29%	34%
64	73	114	0.6404	28.86%	28.86%	32.9	32.9	222%	222%
65	1	24	0.0417	40.00%	40.00%	9.6	9.6	10%	10%
66	0	18	0.0000	30.00%	30.00%	5.4	5.4	0%	0%
67	1	8	0.1250	30.00%	30.00%	2.4	2.4	42%	42%
68	1	4	0.2500	30.00%	30.00%	1.2	1.2	83%	83%
69	0	8	0.0000	30.00%	30.00%	2.4	2.4	0%	0%
70	1	4	0.2500	100.00%	100.00%	4.0	4.0	25%	25%
Subtotal	560	4,226				1,012.8	902.3	55%	62%
Other	2	12	0.1667	100.00%	100.00%	12.0	12.0	17%	17%
Total	562	4,238				1,024.8	914.3	55%	61%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
45	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
46	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
47	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
48	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
49	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
50	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
51	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
52	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
53	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
54	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
55	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
56	103	1,042	0.0988	20.00%	20.00%	208.4	208.4	49%	49%
57	77	205	0.3756	20.00%	20.00%	41.0	41.0	188%	188%
58	15	129	0.1163	20.00%	20.00%	25.8	25.8	58%	58%
59	18	115	0.1565	20.00%	20.00%	23.0	23.0	78%	78%
60	15	94	0.1596	20.00%	20.00%	18.8	18.8	80%	80%
61	10	66	0.1515	20.00%	20.00%	13.2	13.2	76%	76%
62	23	63	0.3651	25.00%	25.00%	15.8	15.8	146%	146%
63	22	122	0.1803	20.00%	20.00%	24.4	24.4	90%	90%
64	13	13	1.0000	20.00%	20.00%	2.6	2.6	500%	500%
65	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
66	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	296	1,849				373.0	373.0	79%	79%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	296	1,849				373.0	373.0	79%	79%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 5C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
52	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
54	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
55	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
56	16	304	0.0526	15.00%	10.00%	45.6	30.4	35%	53%
57	21	67	0.3134	15.00%	10.00%	10.1	6.7	209%	313%
58	1	40	0.0250	15.00%	10.00%	6.0	4.0	17%	25%
59	3	46	0.0652	15.00%	10.00%	6.9	4.6	43%	65%
60	9	61	0.1475	15.00%	10.00%	9.2	6.1	98%	148%
61	9	84	0.1071	20.00%	15.00%	16.8	12.6	54%	71%
62	23	76	0.3026	40.00%	35.00%	30.4	26.6	76%	86%
63	118	1,532	0.0770	30.00%	25.00%	459.6	383.0	26%	31%
64	60	101	0.5941	30.00%	30.00%	30.3	30.3	198%	198%
65	1	24	0.0417	40.00%	40.00%	9.6	9.6	10%	10%
66	0	18	0.0000	30.00%	30.00%	5.4	5.4	0%	0%
67	1	8	0.1250	30.00%	30.00%	2.4	2.4	42%	42%
68	1	4	0.2500	30.00%	30.00%	1.2	1.2	83%	83%
69	0	8	0.0000	30.00%	30.00%	2.4	2.4	0%	0%
70	1	4	0.2500	100.00%	100.00%	4.0	4.0	25%	25%
Subtotal	264	2,377				639.8	529.3	41%	50%
Other	2	12	0.1667	100.00%	100.00%	12.0	12.0	17%	17%
Total	266	2,389				651.8	541.3	41%	49%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

TABLE 5A

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	1	23	0.0435	15.00%	10.00%	3.5	2.3	29%	43%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
56	383	2,655	0.1443	18.54%	17.07%	492.2	453.3	78%	84%
57	150	555	0.2703	18.69%	17.39%	103.8	96.5	145%	155%
58	68	432	0.1574	18.74%	17.48%	81.0	75.5	84%	90%
59	63	363	0.1736	18.57%	17.13%	67.4	62.2	93%	101%
60	61	329	0.1854	18.07%	16.14%	59.5	53.1	103%	115%
61	60	332	0.1807	20.00%	16.97%	66.4	56.4	90%	106%
62	113	293	0.3857	35.19%	31.79%	103.1	93.2	110%	121%
63	415	3,528	0.1176	29.32%	24.66%	1,034.5	870.1	40%	48%
64	75	144	0.5208	29.10%	29.10%	41.9	41.9	179%	179%
65	2	60	0.0333	40.00%	40.00%	24.0	24.0	8%	8%
66	1	48	0.0208	30.00%	30.00%	14.4	14.4	7%	7%
67	3	27	0.1111	30.00%	30.00%	8.1	8.1	37%	37%
68	3	18	0.1667	30.00%	30.00%	5.4	5.4	56%	56%
69	3	15	0.2000	30.00%	30.00%	4.5	4.5	67%	67%
70	1	6	0.1667	100.00%	100.00%	6.0	6.0	17%	17%
Subtotal	1,402	8,828				2,115.5	1,866.8	66%	75%
Other	3	21	0.1429	100.00%	100.00%	21.0	21.0	14%	14%
Total	1,405	8,849				2,136.5	1,887.8	66%	74%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
45	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
46	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
47	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
48	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
49	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
50	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
51	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
52	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
53	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
54	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
55	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
56	254	1,878	0.1353	20.00%	20.00%	375.6	375.6	68%	68%
57	108	410	0.2634	20.00%	20.00%	82.0	82.0	132%	132%
58	54	323	0.1672	20.00%	20.00%	64.6	64.6	84%	84%
59	50	259	0.1931	20.00%	20.00%	51.8	51.8	97%	97%
60	38	202	0.1881	20.00%	20.00%	40.4	40.4	94%	94%
61	23	131	0.1756	20.00%	20.00%	26.2	26.2	88%	88%
62	39	94	0.4149	25.00%	25.00%	23.5	23.5	166%	166%
63	51	239	0.2134	20.00%	20.00%	47.8	47.8	107%	107%
64	13	13	1.0000	20.00%	20.00%	2.6	2.6	500%	500%
65	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
66	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	630	3,549				714.5	714.5	88%	88%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	630	3,549				714.5	714.5	88%	88%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 5C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
51	1	23	0.0435	15.00%	10.00%	3.5	2.3	29%	43%
52	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
54	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
55	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
56	129	777	0.1660	15.00%	10.00%	116.6	77.7	111%	166%
57	42	145	0.2897	15.00%	10.00%	21.8	14.5	193%	290%
58	14	109	0.1284	15.00%	10.00%	16.4	10.9	86%	128%
59	13	104	0.1250	15.00%	10.00%	15.6	10.4	83%	125%
60	23	127	0.1811	15.00%	10.00%	19.1	12.7	121%	181%
61	37	201	0.1841	20.00%	15.00%	40.2	30.2	92%	123%
62	74	199	0.3719	40.00%	35.00%	79.6	69.7	93%	106%
63	364	3,289	0.1107	30.00%	25.00%	986.7	822.3	37%	44%
64	62	131	0.4733	30.00%	30.00%	39.3	39.3	158%	158%
65	2	60	0.0333	40.00%	40.00%	24.0	24.0	8%	8%
66	1	48	0.0208	30.00%	30.00%	14.4	14.4	7%	7%
67	3	27	0.1111	30.00%	30.00%	8.1	8.1	37%	37%
68	3	18	0.1667	30.00%	30.00%	5.4	5.4	56%	56%
69	3	15	0.2000	30.00%	30.00%	4.5	4.5	67%	67%
70	1	6	0.1667	100.00%	100.00%	6.0	6.0	17%	17%
Subtotal	772	5,279				1,401.0	1,152.3	55%	67%
Other	3	21	0.1429	100.00%	100.00%	21.0	21.0	14%	14%
Total	775	5,300				1,422.0	1,173.3	55%	66%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 6A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	5	5	1.0000	15.00%	15.00%	0.8	0.8	667%	667%
56	11	13	0.8462	15.00%	15.00%	2.0	2.0	564%	564%
57	96	1,024	0.0938	15.00%	15.00%	153.6	153.6	63%	63%
58	134	1,020	0.1314	15.00%	15.00%	153.0	153.0	88%	88%
59	157	993	0.1581	15.00%	15.00%	149.0	149.0	105%	105%
60	144	895	0.1609	15.00%	15.00%	134.3	134.3	107%	107%
61	114	769	0.1482	16.72%	16.72%	128.6	128.6	89%	89%
62	218	702	0.3105	31.24%	31.24%	219.3	219.3	99%	99%
63	166	521	0.3186	24.88%	24.88%	129.6	129.6	128%	128%
64	177	1,664	0.1064	28.61%	28.61%	476.0	476.0	37%	37%
65	210	1,405	0.1495	38.28%	38.28%	537.9	537.9	39%	39%
66	232	1,075	0.2158	29.02%	29.02%	312.0	312.0	74%	74%
67	153	713	0.2146	29.19%	29.19%	208.1	208.1	74%	74%
68	87	504	0.1726	29.44%	29.44%	148.4	148.4	59%	59%
69	64	387	0.1654	29.41%	29.41%	113.8	113.8	56%	56%
70	66	330	0.2000	100.00%	100.00%	330.0	330.0	20%	20%
Subtotal	2,034	12,020				3,196.1	3,196.1	64%	64%
Other	193	956	0.2019	100.00%	100.00%	956.0	956.0	20%	20%
Total	2,227	12,976				4,152.1	4,152.1	54%	54%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
54	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
55	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
56	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
57	56	773	0.0724	15.00%	15.00%	116.0	116.0	48%	48%
58	97	761	0.1275	15.00%	15.00%	114.2	114.2	85%	85%
59	115	730	0.1575	15.00%	15.00%	109.5	109.5	105%	105%
60	110	632	0.1741	15.00%	15.00%	94.8	94.8	116%	116%
61	77	505	0.1525	15.00%	15.00%	75.8	75.8	102%	102%
62	134	410	0.3268	25.00%	25.00%	102.5	102.5	131%	131%
63	101	267	0.3783	20.00%	20.00%	53.4	53.4	189%	189%
64	55	232	0.2371	20.00%	20.00%	46.4	46.4	119%	119%
65	44	161	0.2733	25.00%	25.00%	40.3	40.3	109%	109%
66	36	105	0.3429	20.00%	20.00%	21.0	21.0	171%	171%
67	26	58	0.4483	20.00%	20.00%	11.6	11.6	224%	224%
68	7	28	0.2500	20.00%	20.00%	5.6	5.6	125%	125%
69	6	23	0.2609	20.00%	20.00%	4.6	4.6	130%	130%
70	8	20	0.4000	100.00%	100.00%	20.0	20.0	40%	40%
Subtotal	872	4,705				815.5	815.5	107%	107%
Other	13	36	0.3611	100.00%	100.00%	36.0	36.0	36%	36%
Total	885	4,741				851.5	851.5	104%	104%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
54	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
55	5	5	1.0000	15.00%	15.00%	0.8	0.8	667%	667%
56	11	13	0.8462	15.00%	15.00%	2.0	2.0	564%	564%
57	40	251	0.1594	15.00%	15.00%	37.7	37.7	106%	106%
58	37	259	0.1429	15.00%	15.00%	38.9	38.9	95%	95%
59	42	263	0.1597	15.00%	15.00%	39.5	39.5	106%	106%
60	34	263	0.1293	15.00%	15.00%	39.5	39.5	86%	86%
61	37	264	0.1402	20.00%	20.00%	52.8	52.8	70%	70%
62	84	292	0.2877	40.00%	40.00%	116.8	116.8	72%	72%
63	65	254	0.2559	30.00%	30.00%	76.2	76.2	85%	85%
64	122	1,432	0.0852	30.00%	25.00%	429.6	358.0	28%	34%
65	166	1,244	0.1334	40.00%	25.00%	497.6	311.0	33%	53%
66	196	970	0.2021	30.00%	25.00%	291.0	242.5	67%	81%
67	127	655	0.1939	30.00%	25.00%	196.5	163.8	65%	78%
68	80	476	0.1681	30.00%	25.00%	142.8	119.0	56%	67%
69	58	364	0.1593	30.00%	25.00%	109.2	91.0	53%	64%
70	58	310	0.1871	100.00%	100.00%	310.0	310.0	19%	19%
Subtotal	1,162	7,315				2,380.6	1,999.2	49%	58%
Other	180	920	0.1957	100.00%	100.00%	920.0	920.0	20%	20%
Total	1,342	8,235				3,300.6	2,919.2	41%	46%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	8	56	0.1429	15.00%	0.00%	8.4	0.0	95%	0%
53	15	98	0.1531	15.00%	0.00%	14.7	0.0	102%	0%
54	27	135	0.2000	15.00%	0.00%	20.3	0.0	133%	0%
55	40	177	0.2260	15.00%	15.00%	26.6	26.6	151%	151%
56	56	213	0.2629	15.00%	15.00%	32.0	32.0	175%	175%
57	274	2,094	0.1309	15.00%	15.00%	314.1	314.1	87%	87%
58	289	1,997	0.1447	15.00%	15.00%	299.6	299.6	96%	96%
59	323	1,892	0.1707	15.00%	15.00%	283.8	283.8	114%	114%
60	299	1,671	0.1789	15.00%	15.00%	250.7	250.7	119%	119%
61	233	1,435	0.1624	17.46%	16.72%	250.5	239.9	93%	97%
62	421	1,297	0.3246	33.49%	31.24%	434.4	405.2	97%	104%
63	293	919	0.3188	26.30%	24.88%	241.7	228.6	121%	128%
64	479	3,401	0.1408	29.00%	28.61%	986.3	972.9	49%	49%
65	444	2,781	0.1597	38.75%	38.28%	1,077.6	1,064.6	41%	42%
66	511	2,192	0.2331	29.28%	29.02%	641.8	636.2	80%	80%
67	301	1,509	0.1995	29.41%	29.19%	443.8	440.4	68%	68%
68	206	1,118	0.1843	29.52%	29.44%	330.0	329.2	62%	63%
69	159	852	0.1866	29.50%	29.41%	251.3	250.5	63%	63%
70	129	652	0.1979	100.00%	100.00%	652.0	652.0	20%	20%
Subtotal	4,507	24,489				6,559.3	6,426.1	69%	70%
Other	346	1,713	0.2020	100.00%	100.00%	1,713.0	1,713.0	20%	20%
Total	4,853	26,202				8,272.3	8,139.1	59%	60%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
54	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
55	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
56	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
57	125	1,264	0.0989	15.00%	15.00%	189.6	189.6	66%	66%
58	153	1,187	0.1289	15.00%	15.00%	178.1	178.1	86%	86%
59	168	1,092	0.1538	15.00%	15.00%	163.8	163.8	103%	103%
60	158	921	0.1716	15.00%	15.00%	138.2	138.2	114%	114%
61	115	730	0.1575	15.00%	15.00%	109.5	109.5	105%	105%
62	181	563	0.3215	25.00%	25.00%	140.8	140.8	129%	129%
63	129	340	0.3794	20.00%	20.00%	68.0	68.0	190%	190%
64	93	340	0.2735	20.00%	20.00%	68.0	68.0	137%	137%
65	61	232	0.2629	25.00%	25.00%	58.0	58.0	105%	105%
66	55	158	0.3481	20.00%	20.00%	31.6	31.6	174%	174%
67	34	89	0.3820	20.00%	20.00%	17.8	17.8	191%	191%
68	16	54	0.2963	20.00%	20.00%	10.8	10.8	148%	148%
69	13	43	0.3023	20.00%	20.00%	8.6	8.6	151%	151%
70	13	33	0.3939	100.00%	100.00%	33.0	33.0	39%	39%
Subtotal	1,314	7,046				1,215.7	1,215.7	108%	108%
Other	20	50	0.4000	100.00%	100.00%	50.0	50.0	40%	40%
Total	1,334	7,096				1,265.7	1,265.7	105%	105%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	8	56	0.1429	15.00%	15.00%	8.4	8.4	95%	95%
53	15	98	0.1531	15.00%	15.00%	14.7	14.7	102%	102%
54	27	135	0.2000	15.00%	15.00%	20.3	20.3	133%	133%
55	40	177	0.2260	15.00%	15.00%	26.6	26.6	151%	151%
56	56	213	0.2629	15.00%	15.00%	32.0	32.0	175%	175%
57	149	830	0.1795	15.00%	15.00%	124.5	124.5	120%	120%
58	136	810	0.1679	15.00%	15.00%	121.5	121.5	112%	112%
59	155	800	0.1938	15.00%	15.00%	120.0	120.0	129%	129%
60	141	750	0.1880	15.00%	15.00%	112.5	112.5	125%	125%
61	118	705	0.1674	20.00%	20.00%	141.0	141.0	84%	84%
62	240	734	0.3270	40.00%	40.00%	293.6	293.6	82%	82%
63	164	579	0.2832	30.00%	30.00%	173.7	173.7	94%	94%
64	386	3,061	0.1261	30.00%	25.00%	918.3	765.3	42%	50%
65	383	2,549	0.1503	40.00%	25.00%	1,019.6	637.3	38%	60%
66	456	2,034	0.2242	30.00%	25.00%	610.2	508.5	75%	90%
67	267	1,420	0.1880	30.00%	25.00%	426.0	355.0	63%	75%
68	190	1,064	0.1786	30.00%	25.00%	319.2	266.0	60%	71%
69	146	809	0.1805	30.00%	25.00%	242.7	202.3	60%	72%
70	116	619	0.1874	100.00%	100.00%	619.0	619.0	19%	19%
Subtotal	3,193	17,443				5,343.7	4,541.9	60%	70%
Other	326	1,663	0.1960	100.00%	100.00%	1,663.0	1,663.0	20%	20%
Total	3,519	19,106				7,006.7	6,204.9	50%	57%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH UNREDUCED SERVICE  
TOTAL - MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 6D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements (3)	Expected Retirements (4)	Actual / Expected (5)	Retirement Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	3,412	979	1,221.0	80%	28.69%	35.78%
2005	3,275	370	1,255.5	29%	11.30%	38.34%
2006	4,014	836	1,570.1	53%	20.83%	39.12%
2007	4,237	851	1,680.2	51%	20.08%	39.65%
2008	4,515	921	1,816.0	51%	20.40%	40.22%
2009	4,824	778	1,974.5	39%	16.13%	40.93%
2010	5,386	915	2,227.7	41%	16.99%	41.36%
2011	5,691	1,101	2,329.1	47%	19.35%	40.93%
2012	5,959	1,080	2,466.3	44%	18.12%	41.39%
2013	6,421	1,062	2,656.4	40%	16.54%	41.37%
Total	47,734	8,893	19,196.6	46%	18.63%	40.22%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

**TABLE 7A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	1	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
53	0	5	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
54	0	12	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
55	1	9	0.1111	2.00%	3.00%	0.2	0.3	556%	370%
56	0	8	0.0000	2.00%	3.00%	0.2	0.2	0%	0%
57	0	8	0.0000	2.00%	3.00%	0.2	0.2	0%	0%
58	0	7	0.0000	2.00%	3.00%	0.1	0.2	0%	0%
59	0	4	0.0000	3.00%	4.00%	0.1	0.2	0%	0%
60	0	4	0.0000	4.00%	5.00%	0.2	0.2	0%	0%
61	2	4	0.5000	5.00%	6.00%	0.2	0.2	1000%	833%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	3	62				1.1	1.6	268%	192%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	3	62				1.1	1.6	268%	192%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

**TABLE 7A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	67	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
51	0	83	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
52	0	125	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
53	0	172	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
54	1	209	0.0048	0.00%	0.00%	0.0	0.0	0%	0%
55	1	45	0.0222	2.00%	3.00%	0.9	1.4	111%	74%
56	0	38	0.0000	2.00%	3.00%	0.8	1.1	0%	0%
57	0	38	0.0000	2.00%	3.00%	0.8	1.1	0%	0%
58	0	44	0.0000	2.00%	3.00%	0.9	1.3	0%	0%
59	0	52	0.0000	3.00%	4.00%	1.6	2.1	0%	0%
60	1	61	0.0164	4.00%	5.00%	2.4	3.1	41%	33%
61	2	68	0.0294	5.00%	6.00%	3.4	4.1	59%	49%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	5	1,002				10.7	14.2	47%	35%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	5	1,002				10.7	14.2	47%	35%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	293	1	7.3	14%	0.34%	2.49%
2005	242	0	6.3	0%	0.00%	2.59%
2006	177	1	4.8	21%	0.56%	2.71%
2007	114	0	2.9	0%	0.00%	2.58%
2008	75	0	2.0	0%	0.00%	2.68%
2009	39	0	1.0	0%	0.00%	2.62%
2010	24	0	0.6	0%	0.00%	2.58%
2011	15	0	0.4	0%	0.00%	2.60%
2012	11	0	0.3	0%	0.00%	2.36%
2013	12	3	0.2	1250%	25.00%	2.00%
Total	1,002	5	25.9	19%	0.50%	2.58%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	47	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	86	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	97	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	0	114	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
24	0	149	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
25	0	203	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
26	0	290	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
27	1	375	0.00267	0.040%	0.040%	0.2	0.2	667%	667%
28	0	501	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
29	1	609	0.00164	0.040%	0.040%	0.2	0.2	411%	411%
30	0	751	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
31	0	878	0.00000	0.042%	0.042%	0.4	0.4	0%	0%
32	0	968	0.00000	0.044%	0.044%	0.4	0.4	0%	0%
33	1	1,142	0.00088	0.046%	0.046%	0.5	0.5	190%	190%
34	1	1,310	0.00076	0.048%	0.048%	0.6	0.6	159%	159%
35	0	1,440	0.00000	0.050%	0.050%	0.7	0.7	0%	0%
36	1	1,574	0.00064	0.052%	0.052%	0.8	0.8	122%	122%
37	0	1,709	0.00000	0.054%	0.054%	0.9	0.9	0%	0%
38	2	1,925	0.00104	0.056%	0.056%	1.1	1.1	186%	186%
39	2	2,156	0.00093	0.058%	0.058%	1.3	1.3	160%	160%
40	3	2,488	0.00121	0.060%	0.060%	1.5	1.5	201%	201%
41	3	2,821	0.00106	0.070%	0.070%	2.0	2.0	152%	152%
42	0	3,090	0.00000	0.080%	0.080%	2.5	2.5	0%	0%
43	1	3,438	0.00029	0.090%	0.090%	3.1	3.1	32%	32%
44	2	3,799	0.00053	0.100%	0.100%	3.8	3.8	53%	53%
45	3	4,210	0.00071	0.110%	0.110%	4.6	4.6	65%	65%
46	3	4,552	0.00066	0.120%	0.120%	5.5	5.5	55%	55%
47	5	4,920	0.00102	0.130%	0.130%	6.4	6.4	78%	78%
48	6	5,089	0.00118	0.140%	0.140%	7.1	7.1	84%	84%
49	7	5,203	0.00135	0.150%	0.150%	7.8	7.8	90%	90%
50	8	5,197	0.00154	0.160%	0.160%	8.3	8.3	96%	96%
51	9	5,140	0.00175	0.170%	0.170%	8.7	8.7	103%	103%
52	10	5,071	0.00197	0.180%	0.180%	9.1	9.1	110%	110%
53	11	5,131	0.00214	0.190%	0.190%	9.7	9.7	113%	113%
54	10	5,171	0.00193	0.200%	0.200%	10.3	10.3	97%	97%
55	12	5,029	0.00239	0.210%	0.210%	10.6	10.6	114%	114%
56	12	4,517	0.00266	0.220%	0.220%	9.9	9.9	121%	121%
57	8	4,062	0.00197	0.230%	0.230%	9.3	9.3	86%	86%
58	10	3,766	0.00266	0.240%	0.240%	9.0	9.0	111%	111%
59	11	3,539	0.00311	0.250%	0.250%	8.8	8.8	124%	124%
60	12	3,305	0.00363	0.260%	0.260%	8.6	8.6	140%	140%
61	5	2,977	0.00168	0.270%	0.270%	8.0	8.0	62%	62%
62	11	2,696	0.00408	0.280%	0.280%	7.5	7.5	146%	146%
63	7	2,176	0.00322	0.290%	0.290%	6.3	6.3	111%	111%
64	6	1,701	0.00353	0.300%	0.300%	5.1	5.1	118%	118%
65	5	1,350	0.00370	0.320%	0.320%	4.3	4.3	116%	116%
66	4	1,019	0.00393	0.350%	0.350%	3.6	3.6	112%	112%
67	2	684	0.00292	0.390%	0.390%	2.7	2.7	75%	75%
68	6	473	0.01268	0.440%	0.440%	2.1	2.1	288%	288%
69	4	370	0.01081	0.500%	0.500%	1.9	1.9	216%	216%
70	2	0	N/A	N/A	N/A	0	0	0%	0%
71	2	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	2	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	211	119,308				196.4	196.4	107%	107%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	5	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
21	0	6	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
22	0	9	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
23	0	12	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
24	0	18	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25	0	45	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
26	0	54	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
27	0	70	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
28	0	109	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
29	0	128	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
30	0	164	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
31	0	227	0.00000	0.021%	0.021%	0.0	0.0	0%	0%
32	0	261	0.00000	0.022%	0.022%	0.1	0.1	0%	0%
33	0	291	0.00000	0.023%	0.023%	0.1	0.1	0%	0%
34	0	315	0.00000	0.024%	0.024%	0.1	0.1	0%	0%
35	0	332	0.00000	0.025%	0.025%	0.1	0.1	0%	0%
36	0	373	0.00000	0.026%	0.026%	0.1	0.1	0%	0%
37	0	412	0.00000	0.027%	0.027%	0.1	0.1	0%	0%
38	0	497	0.00000	0.028%	0.028%	0.1	0.1	0%	0%
39	2	583	0.00343	0.029%	0.029%	0.2	0.2	1183%	1183%
40	0	627	0.00000	0.030%	0.030%	0.2	0.2	0%	0%
41	0	700	0.00000	0.035%	0.035%	0.2	0.2	0%	0%
42	2	729	0.00274	0.040%	0.040%	0.3	0.3	686%	686%
43	1	742	0.00135	0.045%	0.045%	0.3	0.3	299%	299%
44	0	798	0.00000	0.050%	0.050%	0.4	0.4	0%	0%
45	2	847	0.00236	0.055%	0.055%	0.5	0.5	429%	429%
46	1	934	0.00107	0.060%	0.060%	0.6	0.6	178%	178%
47	0	999	0.00000	0.065%	0.065%	0.6	0.6	0%	0%
48	0	981	0.00000	0.070%	0.070%	0.7	0.7	0%	0%
49	2	956	0.00209	0.075%	0.075%	0.7	0.7	279%	279%
50	0	892	0.00000	0.080%	0.080%	0.7	0.7	0%	0%
51	0	823	0.00000	0.085%	0.085%	0.7	0.7	0%	0%
52	0	815	0.00000	0.090%	0.090%	0.7	0.7	0%	0%
53	3	762	0.00394	0.095%	0.095%	0.7	0.7	414%	414%
54	3	722	0.00416	0.100%	0.100%	0.7	0.7	416%	416%
55	1	666	0.00150	0.105%	0.105%	0.7	0.7	143%	143%
56	0	589	0.00000	0.110%	0.110%	0.6	0.6	0%	0%
57	1	547	0.00183	0.115%	0.115%	0.6	0.6	159%	159%
58	1	500	0.00200	0.120%	0.120%	0.6	0.6	167%	167%
59	2	435	0.00460	0.125%	0.125%	0.5	0.5	368%	368%
60	1	383	0.00261	0.130%	0.130%	0.5	0.5	201%	201%
61	1	330	0.00303	0.135%	0.135%	0.4	0.4	224%	224%
62	0	292	0.00000	0.140%	0.140%	0.4	0.4	0%	0%
63	0	230	0.00000	0.145%	0.145%	0.3	0.3	0%	0%
64	0	164	0.00000	0.150%	0.150%	0.2	0.2	0%	0%
65	0	136	0.00000	0.160%	0.160%	0.2	0.2	0%	0%
66	0	111	0.00000	0.175%	0.175%	0.2	0.2	0%	0%
67	0	65	0.00000	0.195%	0.195%	0.1	0.1	0%	0%
68	0	50	0.00000	0.220%	0.220%	0.1	0.1	0%	0%
69	1	33	0.03030	0.250%	0.250%	0.1	0.1	1212%	1212%
70	1	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	25	20,769				14.9	14.9	168%	168%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	52	0.00000	0.038%	0.038%	0.0	0.0	0%	0%
21	0	92	0.00000	0.039%	0.039%	0.0	0.0	0%	0%
22	0	106	0.00000	0.038%	0.038%	0.0	0.0	0%	0%
23	0	126	0.00000	0.038%	0.038%	0.0	0.0	0%	0%
24	0	167	0.00000	0.038%	0.038%	0.1	0.1	0%	0%
25	0	248	0.00000	0.036%	0.036%	0.1	0.1	0%	0%
26	0	344	0.00000	0.037%	0.037%	0.1	0.1	0%	0%
27	1	445	0.00225	0.037%	0.037%	0.2	0.2	610%	610%
28	0	610	0.00000	0.036%	0.036%	0.2	0.2	0%	0%
29	1	737	0.00136	0.037%	0.037%	0.3	0.3	371%	371%
30	0	915	0.00000	0.036%	0.036%	0.3	0.3	0%	0%
31	0	1,105	0.00000	0.038%	0.038%	0.4	0.4	0%	0%
32	0	1,229	0.00000	0.039%	0.039%	0.5	0.5	0%	0%
33	1	1,433	0.00070	0.041%	0.041%	0.6	0.6	169%	169%
34	1	1,625	0.00062	0.043%	0.043%	0.7	0.7	142%	142%
35	0	1,772	0.00000	0.045%	0.045%	0.8	0.8	0%	0%
36	1	1,947	0.00051	0.047%	0.047%	0.9	0.9	109%	109%
37	0	2,121	0.00000	0.049%	0.049%	1.0	1.0	0%	0%
38	2	2,422	0.00083	0.050%	0.050%	1.2	1.2	164%	164%
39	4	2,739	0.00146	0.052%	0.052%	1.4	1.4	282%	282%
40	3	3,115	0.00096	0.054%	0.054%	1.7	1.7	178%	178%
41	3	3,521	0.00085	0.063%	0.063%	2.2	2.2	135%	135%
42	2	3,819	0.00052	0.072%	0.072%	2.8	2.8	72%	72%
43	2	4,180	0.00048	0.082%	0.082%	3.4	3.4	58%	58%
44	2	4,597	0.00044	0.091%	0.091%	4.2	4.2	48%	48%
45	5	5,057	0.00099	0.101%	0.101%	5.1	5.1	98%	98%
46	4	5,486	0.00073	0.110%	0.110%	6.0	6.0	66%	66%
47	5	5,919	0.00084	0.119%	0.119%	7.0	7.0	71%	71%
48	6	6,070	0.00099	0.129%	0.129%	7.8	7.8	77%	77%
49	9	6,159	0.00146	0.138%	0.138%	8.5	8.5	106%	106%
50	8	6,089	0.00131	0.148%	0.148%	9.0	9.0	89%	89%
51	9	5,963	0.00151	0.158%	0.158%	9.4	9.4	95%	95%
52	10	5,886	0.00170	0.168%	0.168%	9.9	9.9	101%	101%
53	14	5,893	0.00238	0.178%	0.178%	10.5	10.5	134%	134%
54	13	5,893	0.00221	0.188%	0.188%	11.1	11.1	117%	117%
55	13	5,695	0.00228	0.198%	0.198%	11.3	11.3	115%	115%
56	12	5,106	0.00235	0.207%	0.207%	10.6	10.6	113%	113%
57	9	4,609	0.00195	0.216%	0.216%	10.0	10.0	90%	90%
58	11	4,266	0.00258	0.226%	0.226%	9.6	9.6	114%	114%
59	13	3,974	0.00327	0.236%	0.236%	9.4	9.4	138%	138%
60	13	3,688	0.00352	0.246%	0.246%	9.1	9.1	143%	143%
61	6	3,307	0.00181	0.257%	0.257%	8.5	8.5	71%	71%
62	11	2,988	0.00368	0.266%	0.266%	8.0	8.0	138%	138%
63	7	2,406	0.00291	0.276%	0.276%	6.6	6.6	105%	105%
64	6	1,865	0.00322	0.287%	0.287%	5.3	5.3	112%	112%
65	5	1,486	0.00336	0.305%	0.305%	4.5	4.5	110%	110%
66	4	1,130	0.00354	0.333%	0.333%	3.8	3.8	106%	106%
67	2	749	0.00267	0.373%	0.373%	2.8	2.8	72%	72%
68	6	523	0.01147	0.419%	0.419%	2.2	2.2	274%	274%
69	5	403	0.01241	0.480%	0.480%	1.9	1.9	259%	259%
70	3	0	N/A	0.000%	0.000%	0	0	0%	0%
71	2	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	2	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	236	140,077				211.2	211.2	112%	112%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	493	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
25-29	2	1,978	0.00101	0.040%	0.040%	0.8	0.8	253%	253%
30-34	2	5,049	0.00040	0.045%	0.045%	2.2	2.2	89%	89%
35-39	5	8,804	0.00057	0.054%	0.054%	4.8	4.8	104%	104%
40-44	9	15,636	0.00058	0.082%	0.082%	12.8	12.8	70%	70%
45-49	24	23,974	0.00100	0.131%	0.131%	31.4	31.4	76%	76%
50-54	48	25,710	0.00187	0.180%	0.180%	46.3	46.3	104%	104%
55-59	53	20,913	0.00253	0.228%	0.228%	47.7	47.7	111%	111%
60-64	41	12,855	0.00319	0.277%	0.277%	35.6	35.6	115%	115%
65-69	21	3,896	0.00539	0.372%	0.372%	14.5	14.5	145%	145%
70-74	4	0	N/A			0	0	0%	0%
Other	2	0	N/A			0	0	0%	0%
<b>Total</b>	<b>211</b>	<b>119,308</b>				<b>196.4</b>	<b>196.4</b>	<b>107%</b>	<b>107%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	50	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25-29	0	406	0.00000	0.020%	0.020%	0.1	0.1	0%	0%
30-34	0	1,258	0.00000	0.022%	0.022%	0.3	0.3	0%	0%
35-39	2	2,197	0.00091	0.027%	0.027%	0.6	0.6	334%	334%
40-44	3	3,596	0.00083	0.041%	0.041%	1.5	1.5	206%	206%
45-49	5	4,717	0.00106	0.065%	0.065%	3.1	3.1	162%	162%
50-54	6	4,014	0.00149	0.090%	0.090%	3.6	3.6	167%	167%
55-59	5	2,737	0.00183	0.114%	0.114%	3.1	3.1	160%	160%
60-64	2	1,399	0.00143	0.138%	0.138%	1.9	1.9	104%	104%
65-69	1	395	0.00253	0.185%	0.185%	0.7	0.7	137%	137%
70-74	1	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
Total	25	20,769				14.9	14.9	168%	168%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	543	0.00000	0.038%	0.038%	0.2	0.2	0%	0%
25-29	2	2,384	0.00084	0.037%	0.037%	0.9	0.9	229%	229%
30-34	2	6,307	0.00032	0.040%	0.040%	2.5	2.5	79%	79%
35-39	7	11,001	0.00064	0.049%	0.049%	5.4	5.4	130%	130%
40-44	12	19,232	0.00062	0.074%	0.074%	14.3	14.3	84%	84%
45-49	29	28,691	0.00101	0.120%	0.120%	34.5	34.5	84%	84%
50-54	54	29,724	0.00182	0.168%	0.168%	49.9	49.9	108%	108%
55-59	58	23,650	0.00245	0.215%	0.215%	50.8	50.8	114%	114%
60-64	43	14,254	0.00302	0.263%	0.263%	37.5	37.5	115%	115%
65-69	22	4,291	0.00513	0.355%	0.355%	15.2	15.2	145%	145%
70-74	5	0	N/A			0	0	0%	0%
Other	2	0	N/A			0	0	0%	0%
<b>Total</b>	<b>236</b>	<b>140,077</b>				<b>211.2</b>	<b>211.2</b>	<b>112%</b>	<b>112%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 8A				10-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	109	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	188	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
22	0	240	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
23	0	313	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
24	0	402	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
25	0	568	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
26	0	804	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
27	1	1,091	0.00092	0.040%	0.040%	0.4	0.4	229%	229%
28	0	1,433	0.00000	0.040%	0.040%	0.6	0.6	0%	0%
29	1	1,756	0.00057	0.040%	0.040%	0.7	0.7	142%	142%
30	1	2,094	0.00048	0.040%	0.040%	0.8	0.8	119%	119%
31	1	2,453	0.00041	0.042%	0.042%	1.0	1.0	97%	97%
32	2	2,840	0.00070	0.044%	0.044%	1.2	1.2	160%	160%
33	1	3,341	0.00030	0.046%	0.046%	1.5	1.5	65%	65%
34	3	3,898	0.00077	0.048%	0.048%	1.9	1.9	160%	160%
35	2	4,467	0.00045	0.050%	0.050%	2.2	2.2	90%	90%
36	2	5,039	0.00040	0.052%	0.052%	2.6	2.6	76%	76%
37	1	5,733	0.00017	0.054%	0.054%	3.1	3.1	32%	32%
38	7	6,487	0.00108	0.056%	0.056%	3.6	3.6	193%	193%
39	6	7,298	0.00082	0.058%	0.058%	4.2	4.2	142%	142%
40	9	8,168	0.00110	0.060%	0.060%	4.9	4.9	184%	184%
41	9	9,127	0.00099	0.070%	0.070%	6.4	6.4	141%	141%
42	8	9,851	0.00081	0.080%	0.080%	7.9	7.9	102%	102%
43	5	10,535	0.00047	0.090%	0.090%	9.5	9.5	53%	53%
44	12	11,083	0.00108	0.100%	0.100%	11.1	11.1	108%	108%
45	15	11,700	0.00128	0.110%	0.110%	12.9	12.9	117%	117%
46	11	12,066	0.00091	0.120%	0.120%	14.5	14.5	76%	76%
47	18	12,423	0.00145	0.130%	0.130%	16.1	16.1	111%	111%
48	16	12,629	0.00127	0.140%	0.140%	17.7	17.7	90%	90%
49	16	12,747	0.00126	0.150%	0.150%	19.1	19.1	84%	84%
50	17	12,699	0.00134	0.160%	0.160%	20.3	20.3	84%	84%
51	25	12,517	0.00200	0.170%	0.170%	21.3	21.3	117%	117%
52	24	12,347	0.00194	0.180%	0.180%	22.2	22.2	108%	108%
53	30	12,211	0.00246	0.190%	0.190%	23.2	23.2	129%	129%
54	26	12,019	0.00216	0.200%	0.200%	24.0	24.0	108%	108%
55	30	11,542	0.00260	0.210%	0.210%	24.2	24.2	124%	124%
56	25	10,433	0.00240	0.220%	0.220%	23.0	23.0	109%	109%
57	22	9,535	0.00231	0.230%	0.230%	21.9	21.9	100%	100%
58	23	8,744	0.00263	0.240%	0.240%	21.0	21.0	110%	110%
59	26	7,932	0.00328	0.250%	0.250%	19.8	19.8	131%	131%
60	31	7,200	0.00431	0.260%	0.260%	18.7	18.7	166%	166%
61	20	6,439	0.00311	0.270%	0.270%	17.4	17.4	115%	115%
62	25	5,663	0.00441	0.280%	0.280%	15.9	15.9	158%	158%
63	15	4,308	0.00348	0.290%	0.290%	12.5	12.5	120%	120%
64	15	3,384	0.00443	0.300%	0.300%	10.2	10.2	148%	148%
65	13	2,690	0.00483	0.320%	0.320%	8.6	8.6	151%	151%
66	11	2,118	0.00519	0.350%	0.350%	7.4	7.4	148%	148%
67	5	1,469	0.00340	0.390%	0.390%	5.7	5.7	87%	87%
68	9	1,079	0.00834	0.440%	0.440%	4.7	4.7	190%	190%
69	6	821	0.00731	0.500%	0.500%	4.1	4.1	146%	146%
70	9	0	N/A	N/A	N/A	0	0	0%	0%
71	4	0	N/A	N/A	N/A	0	0	0%	0%
72	1	0	N/A	N/A	N/A	0	0	0%	0%
73	3	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	5	44	0.11364	0.000%	0.000%	0	0	0%	0%
Total	567	306,077				471.3	471.3	120%	120%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	10	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
21	0	18	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
22	0	36	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
23	0	56	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
24	0	91	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25	0	144	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
26	0	208	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
27	0	279	0.00000	0.020%	0.020%	0.1	0.1	0%	0%
28	0	356	0.00000	0.020%	0.020%	0.1	0.1	0%	0%
29	0	423	0.00000	0.020%	0.020%	0.1	0.1	0%	0%
30	1	538	0.00186	0.020%	0.020%	0.1	0.1	929%	929%
31	1	666	0.00150	0.021%	0.021%	0.1	0.1	715%	715%
32	0	780	0.00000	0.022%	0.022%	0.2	0.2	0%	0%
33	0	923	0.00000	0.023%	0.023%	0.2	0.2	0%	0%
34	1	1,045	0.00096	0.024%	0.024%	0.3	0.3	399%	399%
35	1	1,176	0.00085	0.025%	0.025%	0.3	0.3	340%	340%
36	0	1,310	0.00000	0.026%	0.026%	0.3	0.3	0%	0%
37	0	1,450	0.00000	0.027%	0.027%	0.4	0.4	0%	0%
38	0	1,598	0.00000	0.028%	0.028%	0.4	0.4	0%	0%
39	4	1,785	0.00224	0.029%	0.029%	0.5	0.5	773%	773%
40	0	1,937	0.00000	0.030%	0.030%	0.6	0.6	0%	0%
41	1	2,064	0.00048	0.035%	0.035%	0.7	0.7	138%	138%
42	2	2,112	0.00095	0.040%	0.040%	0.8	0.8	237%	237%
43	1	2,172	0.00046	0.045%	0.045%	1.0	1.0	102%	102%
44	1	2,227	0.00045	0.050%	0.050%	1.1	1.1	90%	90%
45	2	2,235	0.00089	0.055%	0.055%	1.2	1.2	163%	163%
46	2	2,261	0.00088	0.060%	0.060%	1.4	1.4	147%	147%
47	1	2,245	0.00045	0.065%	0.065%	1.5	1.5	69%	69%
48	1	2,202	0.00045	0.070%	0.070%	1.5	1.5	65%	65%
49	4	2,125	0.00188	0.075%	0.075%	1.6	1.6	251%	251%
50	2	2,016	0.00099	0.080%	0.080%	1.6	1.6	124%	124%
51	2	1,887	0.00106	0.085%	0.085%	1.6	1.6	125%	125%
52	2	1,833	0.00109	0.090%	0.090%	1.6	1.6	121%	121%
53	6	1,743	0.00344	0.095%	0.095%	1.7	1.7	362%	362%
54	8	1,657	0.00483	0.100%	0.100%	1.7	1.7	483%	483%
55	4	1,537	0.00260	0.105%	0.105%	1.6	1.6	248%	248%
56	0	1,342	0.00000	0.110%	0.110%	1.5	1.5	0%	0%
57	3	1,218	0.00246	0.115%	0.115%	1.4	1.4	214%	214%
58	2	1,100	0.00182	0.120%	0.120%	1.3	1.3	152%	152%
59	4	972	0.00412	0.125%	0.125%	1.2	1.2	329%	329%
60	2	847	0.00236	0.130%	0.130%	1.1	1.1	182%	182%
61	2	737	0.00271	0.135%	0.135%	1.0	1.0	201%	201%
62	2	643	0.00311	0.140%	0.140%	0.9	0.9	222%	222%
63	0	472	0.00000	0.145%	0.145%	0.7	0.7	0%	0%
64	0	338	0.00000	0.150%	0.150%	0.5	0.5	0%	0%
65	2	274	0.00730	0.160%	0.160%	0.4	0.4	456%	456%
66	1	204	0.00490	0.175%	0.175%	0.4	0.4	280%	280%
67	0	126	0.00000	0.195%	0.195%	0.2	0.2	0%	0%
68	0	94	0.00000	0.220%	0.220%	0.2	0.2	0%	0%
69	1	65	0.01538	0.250%	0.250%	0.2	0.2	615%	615%
70	2	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	3	0.00000	0.000%	0.000%	0	0	0%	0%
Total	68	53,580				35.4	35.4	192%	192%





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,252	0.00000	0.040%	0.040%	0.5	0.5	0%	0%
25-29	2	5,652	0.00035	0.040%	0.040%	2.3	2.3	88%	88%
30-34	8	14,626	0.00055	0.045%	0.045%	6.5	6.5	123%	123%
35-39	18	29,024	0.00062	0.054%	0.054%	15.8	15.8	114%	114%
40-44	43	48,764	0.00088	0.081%	0.081%	39.7	39.7	108%	108%
45-49	76	61,565	0.00123	0.130%	0.130%	80.3	80.3	95%	95%
50-54	122	61,793	0.00197	0.180%	0.180%	111.1	111.1	110%	110%
55-59	126	48,186	0.00261	0.228%	0.228%	109.9	109.9	115%	115%
60-64	106	26,994	0.00393	0.276%	0.276%	74.6	74.6	142%	142%
65-69	44	8,177	0.00538	0.374%	0.374%	30.6	30.6	144%	144%
70-74	17	0	N/A			0	0	0%	0%
Other	5	44	0.11364	0.000%	0.000%	0	0	0%	0%
Total	567	306,077				471.3	471.3	120%	120%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	211	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25-29	0	1,410	0.00000	0.020%	0.020%	0.3	0.3	0%	0%
30-34	3	3,952	0.00076	0.022%	0.022%	0.9	0.9	340%	340%
35-39	5	7,319	0.00068	0.027%	0.027%	2.0	2.0	251%	251%
40-44	5	10,512	0.00048	0.040%	0.040%	4.2	4.2	118%	118%
45-49	10	11,068	0.00090	0.065%	0.065%	7.2	7.2	139%	139%
50-54	20	9,136	0.00219	0.090%	0.090%	8.2	8.2	245%	245%
55-59	13	6,169	0.00211	0.114%	0.114%	7.0	7.0	185%	185%
60-64	6	3,037	0.00198	0.138%	0.138%	4.2	4.2	143%	143%
65-69	4	763	0.00524	0.185%	0.185%	1.4	1.4	284%	284%
70-74	2	0	N/A			0	0	0%	0%
Other	0	3	0.00000	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>68</b>	<b>53,580</b>				<b>35.4</b>	<b>35.4</b>	<b>192%</b>	<b>192%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,463	0.00000	0.037%	0.037%	0.5	0.5	0%	0%
25-29	2	7,062	0.00028	0.036%	0.036%	2.5	2.5	79%	79%
30-34	11	18,578	0.00059	0.040%	0.040%	7.4	7.4	148%	148%
35-39	23	36,343	0.00063	0.049%	0.049%	17.8	17.8	129%	129%
40-44	48	59,276	0.00081	0.074%	0.074%	44.0	44.0	109%	109%
45-49	86	72,633	0.00118	0.120%	0.120%	87.5	87.5	98%	98%
50-54	142	70,929	0.00200	0.168%	0.168%	119.2	119.2	119%	119%
55-59	139	54,355	0.00256	0.215%	0.215%	117.0	117.0	119%	119%
60-64	112	30,031	0.00373	0.262%	0.262%	78.8	78.8	142%	142%
65-69	48	8,940	0.00537	0.358%	0.358%	32.0	32.0	150%	150%
70-74	19	0	N/A			0	0	0%	0%
Other	5	47	0.10638	0.000%	0.000%	0	0	0%	0%
Total	635	359,657				506.8	506.8	125%	125%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 8D Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	37,012	97	33.7	288%	0.262%	0.091%
2005	36,264	61	33.8	181%	0.168%	0.093%
2006	36,147	72	35.2	205%	0.199%	0.097%
2007	36,324	37	36.0	103%	0.102%	0.099%
2008	36,517	37	36.8	101%	0.101%	0.101%
2009	37,293	95	37.9	250%	0.255%	0.102%
2010	36,414	94	38.2	246%	0.258%	0.105%
2011	35,308	80	38.2	210%	0.227%	0.108%
2012	34,311	44	37.9	116%	0.128%	0.111%
2013	34,067	18	38.2	47%	0.053%	0.112%
Total	359,657	635	365.9	174%	0.177%	0.102%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	52	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
21	0	92	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
22	0	106	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
23	0	126	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
24	0	167	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
25	0	248	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
26	0	344	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
27	0	445	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
28	0	610	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
29	0	737	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
30	0	915	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
31	0	1,105	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
32	0	1,229	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
33	0	1,433	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
34	0	1,625	0.00000	0.010%	0.003%	0.2	0.0	0%	0%
35	0	1,772	0.00000	0.010%	0.003%	0.2	0.0	0%	0%
36	0	1,947	0.00000	0.010%	0.003%	0.2	0.0	0%	0%
37	0	2,121	0.00000	0.010%	0.003%	0.2	0.1	0%	0%
38	0	2,422	0.00000	0.010%	0.003%	0.2	0.1	0%	0%
39	0	2,739	0.00000	0.010%	0.003%	0.3	0.1	0%	0%
40	0	3,115	0.00000	0.010%	0.003%	0.3	0.1	0%	0%
41	0	3,521	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
42	0	3,819	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
43	0	4,180	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
44	0	4,596	0.00000	0.010%	0.003%	0.5	0.1	0%	0%
45	0	5,057	0.00000	0.010%	0.003%	0.5	0.1	0%	0%
46	0	5,486	0.00000	0.010%	0.003%	0.5	0.1	0%	0%
47	0	5,919	0.00000	0.010%	0.003%	0.6	0.1	0%	0%
48	0	6,070	0.00000	0.010%	0.003%	0.6	0.2	0%	0%
49	0	6,159	0.00000	0.010%	0.003%	0.6	0.2	0%	0%
50	0	6,089	0.00000	0.010%	0.003%	0.6	0.2	0%	0%
51	0	5,963	0.00000	0.010%	0.003%	0.6	0.1	0%	0%
52	0	5,886	0.00000	0.010%	0.003%	0.6	0.1	0%	0%
53	0	5,893	0.00000	0.010%	0.003%	0.6	0.1	0%	0%
54	0	5,893	0.00000	0.010%	0.003%	0.6	0.1	0%	0%
55	0	5,695	0.00000	0.010%	0.003%	0.6	0.1	0%	0%
56	0	5,106	0.00000	0.010%	0.003%	0.5	0.1	0%	0%
57	0	4,609	0.00000	0.010%	0.003%	0.5	0.1	0%	0%
58	0	4,266	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
59	1	3,974	0.00025	0.010%	0.003%	0.4	0.1	252%	1007%
60	0	3,688	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
61	0	3,307	0.00000	0.010%	0.003%	0.3	0.1	0%	0%
62	0	2,988	0.00000	0.010%	0.003%	0.3	0.1	0%	0%
63	0	2,406	0.00000	0.010%	0.003%	0.2	0.1	0%	0%
64	0	1,865	0.00000	0.010%	0.003%	0.2	0.0	0%	0%
65	0	1,486	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
66	1	1,130	0.00088	0.010%	0.003%	0.1	0.0	885%	3540%
67	0	749	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
68	0	523	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
69	0	403	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	23	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
<b>Total</b>	<b>2</b>	<b>140,099</b>				<b>14.0</b>	<b>3.5</b>	<b>14%</b>	<b>57%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	543	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
25-29	0	2,384	0.00000	0.010%	0.003%	0.2	0.1	0%	0%
30-34	0	6,307	0.00000	0.010%	0.003%	0.6	0.2	0%	0%
35-39	0	11,001	0.00000	0.010%	0.003%	1.1	0.3	0%	0%
40-44	0	19,231	0.00000	0.010%	0.003%	1.9	0.5	0%	0%
45-49	0	28,691	0.00000	0.010%	0.003%	2.9	0.7	0%	0%
50-54	0	29,724	0.00000	0.010%	0.003%	3.0	0.7	0%	0%
55-59	1	23,650	0.00004	0.010%	0.003%	2.4	0.6	42%	169%
60-64	0	14,254	0.00000	0.010%	0.003%	1.4	0.4	0%	0%
65-69	1	4,291	0.00023	0.010%	0.003%	0.4	0.1	233%	932%
70-74	0	0	N/A			0	0	0%	0%
Other	0	23	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
Total	2	140,099				14.0	3.5	14%	57%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	119	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
21	0	206	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
22	0	276	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
23	0	369	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
24	0	493	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
25	0	712	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
26	0	1,011	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
27	0	1,369	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
28	0	1,788	0.00000	0.010%	0.003%	0.2	0.0	0%	0%
29	0	2,179	0.00000	0.010%	0.003%	0.2	0.1	0%	0%
30	0	2,632	0.00000	0.010%	0.003%	0.3	0.1	0%	0%
31	0	3,119	0.00000	0.010%	0.003%	0.3	0.1	0%	0%
32	0	3,620	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
33	0	4,264	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
34	0	4,943	0.00000	0.010%	0.003%	0.5	0.1	0%	0%
35	0	5,643	0.00000	0.010%	0.003%	0.6	0.1	0%	0%
36	0	6,349	0.00000	0.010%	0.003%	0.6	0.2	0%	0%
37	0	7,183	0.00000	0.010%	0.003%	0.7	0.2	0%	0%
38	0	8,084	0.00000	0.010%	0.003%	0.8	0.2	0%	0%
39	0	9,082	0.00000	0.010%	0.003%	0.9	0.2	0%	0%
40	0	10,104	0.00000	0.010%	0.003%	1.0	0.3	0%	0%
41	0	11,190	0.00000	0.010%	0.003%	1.1	0.3	0%	0%
42	0	11,963	0.00000	0.010%	0.003%	1.2	0.3	0%	0%
43	0	12,707	0.00000	0.010%	0.003%	1.3	0.3	0%	0%
44	0	13,309	0.00000	0.010%	0.003%	1.3	0.3	0%	0%
45	0	13,935	0.00000	0.010%	0.003%	1.4	0.3	0%	0%
46	0	14,327	0.00000	0.010%	0.003%	1.4	0.4	0%	0%
47	0	14,668	0.00000	0.010%	0.003%	1.5	0.4	0%	0%
48	0	14,830	0.00000	0.010%	0.003%	1.5	0.4	0%	0%
49	0	14,871	0.00000	0.010%	0.003%	1.5	0.4	0%	0%
50	0	14,714	0.00000	0.010%	0.003%	1.5	0.4	0%	0%
51	0	14,399	0.00000	0.010%	0.003%	1.4	0.4	0%	0%
52	0	14,174	0.00000	0.010%	0.003%	1.4	0.4	0%	0%
53	0	13,948	0.00000	0.010%	0.003%	1.4	0.3	0%	0%
54	1	13,666	0.00007	0.010%	0.003%	1.4	0.3	73%	293%
55	0	13,065	0.00000	0.010%	0.003%	1.3	0.3	0%	0%
56	0	11,762	0.00000	0.010%	0.003%	1.2	0.3	0%	0%
57	0	10,747	0.00000	0.010%	0.003%	1.1	0.3	0%	0%
58	0	9,837	0.00000	0.010%	0.003%	1.0	0.2	0%	0%
59	1	8,896	0.00011	0.010%	0.003%	0.9	0.2	112%	450%
60	1	8,041	0.00012	0.010%	0.003%	0.8	0.2	124%	497%
61	0	7,170	0.00000	0.010%	0.003%	0.7	0.2	0%	0%
62	0	6,300	0.00000	0.010%	0.003%	0.6	0.2	0%	0%
63	0	4,775	0.00000	0.010%	0.003%	0.5	0.1	0%	0%
64	0	3,716	0.00000	0.010%	0.003%	0.4	0.1	0%	0%
65	0	2,958	0.00000	0.010%	0.003%	0.3	0.1	0%	0%
66	1	2,319	0.00043	0.010%	0.003%	0.2	0.1	431%	1725%
67	0	1,594	0.00000	0.010%	0.003%	0.2	0.0	0%	0%
68	0	1,172	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
69	0	885	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	47	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
Total	4	359,530				36.0	9.0	11%	45%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,463	0.00000	0.010%	0.003%	0.1	0.0	0%	0%
25-29	0	7,059	0.00000	0.010%	0.003%	0.7	0.2	0%	0%
30-34	0	18,578	0.00000	0.010%	0.003%	1.9	0.5	0%	0%
35-39	0	36,341	0.00000	0.010%	0.003%	3.6	0.9	0%	0%
40-44	0	59,273	0.00000	0.010%	0.003%	5.9	1.5	0%	0%
45-49	0	72,631	0.00000	0.010%	0.003%	7.3	1.8	0%	0%
50-54	1	70,901	0.00001	0.010%	0.003%	7.1	1.8	14%	56%
55-59	1	54,307	0.00002	0.010%	0.003%	5.4	1.4	18%	74%
60-64	1	30,002	0.00003	0.010%	0.003%	3.0	0.8	33%	133%
65-69	1	8,928	0.00011	0.010%	0.003%	0.9	0.2	112%	448%
70-74	0	0	N/A			0	0	0%	0%
Other	0	47	0.00000	0.010%	0.003%	0.0	0.0	0%	0%
<b>Total</b>	<b>4</b>	<b>359,530</b>				<b>36.0</b>	<b>9.0</b>	<b>11%</b>	<b>45%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 9B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	36,970	1	3.6	28%	0.003%	0.010%
2005	36,238	0	3.5	0%	0.000%	0.010%
2006	36,122	1	3.5	28%	0.003%	0.010%
2007	36,304	0	3.6	0%	0.000%	0.010%
2008	36,504	0	3.6	0%	0.000%	0.010%
2009	37,293	0	3.7	0%	0.000%	0.010%
2010	36,413	0	3.6	0%	0.000%	0.010%
2011	35,308	1	3.5	29%	0.003%	0.010%
2012	34,311	0	3.4	0%	0.000%	0.010%
2013	34,067	1	3.3	30%	0.003%	0.010%
Total	359,530	4	35.2	11%	0.001%	0.010%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 10A				4-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.10%	0	0	0%	0%
21	0	0	N/A	0.10%	0.10%	0	0	0%	0%
22	0	0	N/A	0.10%	0.10%	0	0	0%	0%
23	0	0	N/A	0.10%	0.10%	0	0	0%	0%
24	0	0	N/A	0.10%	0.10%	0	0	0%	0%
25	0	0	N/A	0.10%	0.10%	0	0	0%	0%
26	0	0	N/A	0.10%	0.10%	0	0	0%	0%
27	0	21	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
28	0	55	0.0000	0.10%	0.10%	0.1	0.1	0%	0%
29	0	43	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
30	0	35	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
31	0	63	0.0000	0.12%	0.12%	0.1	0.1	0%	0%
32	0	122	0.0000	0.14%	0.14%	0.2	0.2	0%	0%
33	1	203	0.0049	0.16%	0.16%	0.3	0.3	308%	308%
34	1	309	0.0032	0.18%	0.18%	0.6	0.6	180%	180%
35	0	378	0.0000	0.20%	0.20%	0.8	0.8	0%	0%
36	2	531	0.0038	0.22%	0.22%	1.2	1.2	171%	171%
37	1	748	0.0013	0.24%	0.24%	1.8	1.8	56%	56%
38	2	1,004	0.0020	0.26%	0.26%	2.6	2.6	77%	77%
39	3	1,309	0.0023	0.28%	0.28%	3.7	3.7	82%	82%
40	4	1,553	0.0026	0.30%	0.30%	4.7	4.7	86%	86%
41	1	1,859	0.0005	0.32%	0.32%	5.9	5.9	17%	17%
42	3	2,236	0.0013	0.34%	0.34%	7.6	7.6	39%	39%
43	7	2,600	0.0027	0.36%	0.36%	9.4	9.4	75%	75%
44	11	2,985	0.0037	0.38%	0.38%	11.3	11.3	97%	97%
45	7	3,429	0.0020	0.40%	0.40%	13.7	13.7	51%	51%
46	18	3,665	0.0049	0.42%	0.42%	15.4	15.4	117%	117%
47	18	3,806	0.0047	0.44%	0.44%	16.7	16.7	107%	107%
48	23	3,894	0.0059	0.46%	0.46%	17.9	17.9	128%	128%
49	16	3,939	0.0041	0.48%	0.48%	18.9	18.9	85%	85%
50	14	3,955	0.0035	0.50%	0.50%	19.8	19.8	71%	71%
51	27	4,053	0.0067	0.52%	0.52%	21.1	21.1	128%	128%
52	20	4,146	0.0048	0.54%	0.54%	22.4	22.4	89%	89%
53	22	4,088	0.0054	0.56%	0.56%	22.9	22.9	96%	96%
54	18	4,092	0.0044	0.58%	0.58%	23.7	23.7	76%	76%
55	28	4,000	0.0070	0.60%	0.60%	24.0	24.0	117%	117%
56	27	3,586	0.0075	0.60%	0.60%	21.5	21.5	125%	125%
57	20	3,331	0.0060	0.60%	0.60%	20.0	20.0	100%	100%
58	17	3,134	0.0054	0.60%	0.60%	18.8	18.8	90%	90%
59	20	2,878	0.0069	0.60%	0.60%	17.3	17.3	116%	116%
60	19	2,659	0.0071	0.60%	0.60%	16.0	16.0	119%	119%
61	14	2,422	0.0058	0.60%	0.60%	14.5	14.5	96%	96%
62	6	2,161	0.0028	0.60%	0.60%	13.0	13.0	46%	46%
63	5	1,640	0.0030	0.60%	0.60%	9.8	9.8	51%	51%
64	9	1,230	0.0073	0.60%	0.60%	7.4	7.4	122%	122%
65	1	912	0.0011	0.60%	0.60%	5.5	5.5	18%	18%
66	3	703	0.0043	0.60%	0.60%	4.2	4.2	71%	71%
67	4	519	0.0077	0.60%	0.60%	3.1	3.1	128%	128%
68	0	411	0.0000	0.60%	0.60%	2.5	2.5	0%	0%
69	1	346	0.0029	0.60%	0.60%	2.1	2.1	48%	48%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	393	85,053				422.3	422.3	93%	93%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.14%	0	0	0%	0%
21	0	0	N/A	0.10%	0.14%	0	0	0%	0%
22	0	0	N/A	0.10%	0.14%	0	0	0%	0%
23	0	0	N/A	0.10%	0.14%	0	0	0%	0%
24	0	0	N/A	0.10%	0.14%	0	0	0%	0%
25	0	0	N/A	0.10%	0.14%	0	0	0%	0%
26	0	0	N/A	0.10%	0.14%	0	0	0%	0%
27	0	1	0.0000	0.10%	0.14%	0.0	0.0	0%	0%
28	1	4	0.2500	0.10%	0.14%	0.0	0.0	25000%	17857%
29	0	2	0.0000	0.10%	0.14%	0.0	0.0	0%	0%
30	0	7	0.0000	0.10%	0.14%	0.0	0.0	0%	0%
31	0	12	0.0000	0.12%	0.17%	0.0	0.0	0%	0%
32	0	21	0.0000	0.14%	0.20%	0.0	0.0	0%	0%
33	1	39	0.0256	0.16%	0.22%	0.1	0.1	1603%	1145%
34	1	73	0.0137	0.18%	0.25%	0.1	0.2	761%	544%
35	0	111	0.0000	0.20%	0.28%	0.2	0.3	0%	0%
36	0	176	0.0000	0.22%	0.31%	0.4	0.5	0%	0%
37	0	243	0.0000	0.24%	0.34%	0.6	0.8	0%	0%
38	1	302	0.0033	0.26%	0.36%	0.8	1.1	127%	91%
39	1	378	0.0026	0.28%	0.39%	1.1	1.5	94%	67%
40	2	429	0.0047	0.30%	0.42%	1.3	1.8	155%	111%
41	7	463	0.0151	0.32%	0.45%	1.5	2.1	472%	337%
42	1	504	0.0020	0.34%	0.48%	1.7	2.4	58%	42%
43	3	570	0.0053	0.36%	0.50%	2.1	2.9	146%	104%
44	6	646	0.0093	0.38%	0.53%	2.5	3.4	244%	175%
45	3	700	0.0043	0.40%	0.56%	2.8	3.9	107%	77%
46	10	725	0.0138	0.42%	0.59%	3.0	4.3	328%	235%
47	11	719	0.0153	0.44%	0.62%	3.2	4.4	348%	248%
48	6	662	0.0091	0.46%	0.64%	3.0	4.3	197%	141%
49	9	652	0.0138	0.48%	0.67%	3.1	4.4	288%	205%
50	9	663	0.0136	0.50%	0.70%	3.3	4.6	271%	194%
51	12	627	0.0191	0.52%	0.73%	3.3	4.6	368%	263%
52	12	622	0.0193	0.54%	0.76%	3.4	4.7	357%	255%
53	9	590	0.0153	0.56%	0.78%	3.3	4.6	272%	195%
54	8	570	0.0140	0.58%	0.81%	3.3	4.6	242%	173%
55	5	565	0.0088	0.60%	0.84%	3.4	4.7	147%	105%
56	4	526	0.0076	0.60%	0.84%	3.2	4.4	127%	91%
57	7	456	0.0154	0.60%	0.84%	2.7	3.8	256%	183%
58	8	408	0.0196	0.60%	0.84%	2.4	3.4	327%	233%
59	8	358	0.0223	0.60%	0.84%	2.1	3.0	372%	266%
60	7	308	0.0227	0.60%	0.84%	1.8	2.6	379%	271%
61	2	282	0.0071	0.60%	0.84%	1.7	2.4	118%	84%
62	2	250	0.0080	0.60%	0.84%	1.5	2.1	133%	95%
63	1	177	0.0056	0.60%	0.84%	1.1	1.5	94%	67%
64	1	137	0.0073	0.60%	0.84%	0.8	1.2	122%	87%
65	1	111	0.0090	0.60%	0.84%	0.7	0.9	150%	107%
66	0	85	0.0000	0.60%	0.84%	0.5	0.7	0%	0%
67	0	51	0.0000	0.60%	0.84%	0.3	0.4	0%	0%
68	0	34	0.0000	0.60%	0.84%	0.2	0.3	0%	0%
69	0	20	0.0000	0.60%	0.84%	0.1	0.2	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	159	14,279				66.6	93.3	239%	170%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	22	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
28	1	59	0.0169	0.10%	0.10%	0.1	0.1	1695%	1650%
29	0	45	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
30	0	42	0.0000	0.10%	0.11%	0.0	0.0	0%	0%
31	0	75	0.0000	0.12%	0.13%	0.1	0.1	0%	0%
32	0	143	0.0000	0.14%	0.15%	0.2	0.2	0%	0%
33	2	242	0.0083	0.16%	0.17%	0.4	0.4	517%	485%
34	2	382	0.0052	0.18%	0.19%	0.7	0.7	291%	270%
35	0	489	0.0000	0.20%	0.22%	1.0	1.1	0%	0%
36	2	707	0.0028	0.22%	0.24%	1.6	1.7	129%	117%
37	1	991	0.0010	0.24%	0.26%	2.4	2.6	42%	38%
38	3	1,306	0.0023	0.26%	0.28%	3.4	3.7	88%	81%
39	4	1,687	0.0024	0.28%	0.31%	4.7	5.1	85%	78%
40	6	1,982	0.0030	0.30%	0.33%	5.9	6.5	101%	93%
41	8	2,322	0.0034	0.32%	0.35%	7.4	8.0	108%	100%
42	4	2,740	0.0015	0.34%	0.37%	9.3	10.0	43%	40%
43	10	3,170	0.0032	0.36%	0.39%	11.4	12.2	88%	82%
44	17	3,631	0.0047	0.38%	0.41%	13.8	14.8	123%	115%
45	10	4,129	0.0024	0.40%	0.43%	16.5	17.6	61%	57%
46	28	4,390	0.0064	0.42%	0.45%	18.4	19.7	152%	142%
47	29	4,525	0.0064	0.44%	0.47%	19.9	21.2	146%	137%
48	29	4,556	0.0064	0.46%	0.49%	21.0	22.2	138%	131%
49	25	4,591	0.0054	0.48%	0.51%	22.0	23.3	113%	107%
50	23	4,618	0.0050	0.50%	0.53%	23.1	24.4	100%	94%
51	39	4,680	0.0083	0.52%	0.55%	24.3	25.6	160%	152%
52	32	4,768	0.0067	0.54%	0.57%	25.7	27.1	124%	118%
53	31	4,678	0.0066	0.56%	0.59%	26.2	27.5	118%	113%
54	26	4,662	0.0056	0.58%	0.61%	27.0	28.4	96%	92%
55	33	4,565	0.0072	0.60%	0.63%	27.4	28.7	120%	115%
56	31	4,112	0.0075	0.60%	0.63%	24.7	25.9	126%	120%
57	27	3,787	0.0071	0.60%	0.63%	22.7	23.8	119%	113%
58	25	3,542	0.0071	0.60%	0.63%	21.3	22.2	118%	112%
59	28	3,236	0.0087	0.60%	0.63%	19.4	20.3	144%	138%
60	26	2,967	0.0088	0.60%	0.62%	17.8	18.5	146%	140%
61	16	2,704	0.0059	0.60%	0.63%	16.2	16.9	99%	95%
62	8	2,411	0.0033	0.60%	0.62%	14.5	15.1	55%	53%
63	6	1,817	0.0033	0.60%	0.62%	10.9	11.3	55%	53%
64	10	1,367	0.0073	0.60%	0.62%	8.2	8.5	122%	117%
65	2	1,023	0.0020	0.60%	0.63%	6.1	6.4	33%	31%
66	3	788	0.0038	0.60%	0.63%	4.7	4.9	63%	61%
67	4	570	0.0070	0.60%	0.62%	3.4	3.5	117%	113%
68	0	445	0.0000	0.60%	0.62%	2.7	2.8	0%	0%
69	1	366	0.0027	0.60%	0.61%	2.2	2.2	46%	45%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>552</b>	<b>99,332</b>				<b>488.9</b>	<b>515.6</b>	<b>113%</b>	<b>107%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	119	0.0000	0.10%	0.10%	0.1	0.1	0%	0%
30-34	2	732	0.0027	0.16%	0.16%	1.2	1.2	172%	172%
35-39	8	3,970	0.0020	0.25%	0.25%	10.0	10.0	80%	80%
40-44	26	11,233	0.0023	0.35%	0.35%	38.9	38.9	67%	67%
45-49	82	18,733	0.0044	0.44%	0.44%	82.7	82.7	99%	99%
50-54	101	20,334	0.0050	0.54%	0.54%	109.9	109.9	92%	92%
55-59	112	16,929	0.0066	0.60%	0.60%	101.6	101.6	110%	110%
60-64	53	10,112	0.0052	0.60%	0.60%	60.7	60.7	87%	87%
65-69	9	2,891	0.0031	0.60%	0.60%	17.3	17.3	52%	52%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>393</b>	<b>85,053</b>				<b>422.3</b>	<b>422.3</b>	<b>93%</b>	<b>93%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	1	7	0.1429	0.10%	0.14%	0.0	0.0	14286%	10204%
30-34	2	152	0.0132	0.16%	0.23%	0.2	0.3	818%	584%
35-39	2	1,210	0.0017	0.25%	0.35%	3.0	4.3	66%	47%
40-44	19	2,612	0.0073	0.34%	0.48%	9.0	12.6	211%	151%
45-49	39	3,458	0.0113	0.44%	0.61%	15.2	21.3	257%	183%
50-54	50	3,072	0.0163	0.54%	0.75%	16.5	23.2	302%	216%
55-59	32	2,313	0.0138	0.60%	0.84%	13.9	19.4	231%	165%
60-64	13	1,154	0.0113	0.60%	0.84%	6.9	9.7	188%	134%
65-69	1	301	0.0033	0.60%	0.84%	1.8	2.5	55%	40%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>159</b>	<b>14,279</b>				<b>66.6</b>	<b>93.3</b>	<b>239%</b>	<b>170%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	1	126	0.0079	0.10%	0.10%	0.1	0.1	794%	776%
30-34	4	884	0.0045	0.16%	0.17%	1.4	1.5	284%	266%
35-39	10	5,180	0.0019	0.25%	0.28%	13.0	14.2	77%	70%
40-44	45	13,845	0.0033	0.35%	0.37%	47.9	51.5	94%	87%
45-49	121	22,191	0.0055	0.44%	0.47%	97.9	103.9	124%	116%
50-54	151	23,406	0.0065	0.54%	0.57%	126.4	133.0	119%	114%
55-59	144	19,242	0.0075	0.60%	0.63%	115.5	121.0	125%	119%
60-64	66	11,266	0.0059	0.60%	0.62%	67.6	70.4	98%	94%
65-69	10	3,192	0.0031	0.60%	0.62%	19.2	19.9	52%	50%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
Total	552	99,332				488.9	515.6	113%	107%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 10A**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.10%	0	0	0%	0%
21	0	0	N/A	0.10%	0.10%	0	0	0%	0%
22	0	0	N/A	0.10%	0.10%	0	0	0%	0%
23	0	0	N/A	0.10%	0.10%	0	0	0%	0%
24	0	0	N/A	0.10%	0.10%	0	0	0%	0%
25	0	0	N/A	0.10%	0.10%	0	0	0%	0%
26	0	0	N/A	0.10%	0.10%	0	0	0%	0%
27	0	21	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
28	0	57	0.0000	0.10%	0.10%	0.1	0.1	0%	0%
29	0	48	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
30	0	49	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
31	0	107	0.0000	0.12%	0.12%	0.1	0.1	0%	0%
32	0	231	0.0000	0.14%	0.14%	0.3	0.3	0%	0%
33	1	448	0.0022	0.16%	0.16%	0.7	0.7	140%	140%
34	2	732	0.0027	0.18%	0.18%	1.3	1.3	152%	152%
35	2	1,017	0.0020	0.20%	0.20%	2.0	2.0	98%	98%
36	4	1,395	0.0029	0.22%	0.22%	3.1	3.1	130%	130%
37	2	1,911	0.0010	0.24%	0.24%	4.6	4.6	44%	44%
38	5	2,507	0.0020	0.26%	0.26%	6.5	6.5	77%	77%
39	6	3,172	0.0019	0.28%	0.28%	8.9	8.9	68%	68%
40	9	3,787	0.0024	0.30%	0.30%	11.4	11.4	79%	79%
41	8	4,507	0.0018	0.32%	0.32%	14.4	14.4	55%	55%
42	11	5,140	0.0021	0.34%	0.34%	17.5	17.5	63%	63%
43	14	5,707	0.0025	0.36%	0.36%	20.5	20.5	68%	68%
44	23	6,209	0.0037	0.38%	0.38%	23.6	23.6	97%	97%
45	24	6,732	0.0036	0.40%	0.40%	26.9	26.9	89%	89%
46	29	7,038	0.0041	0.42%	0.42%	29.6	29.6	98%	98%
47	35	7,354	0.0048	0.44%	0.44%	32.4	32.4	108%	108%
48	43	7,593	0.0057	0.46%	0.46%	34.9	34.9	123%	123%
49	37	7,612	0.0049	0.48%	0.48%	36.5	36.5	101%	101%
50	32	7,649	0.0042	0.50%	0.50%	38.2	38.2	84%	84%
51	53	7,721	0.0069	0.52%	0.52%	40.1	40.1	132%	132%
52	39	7,781	0.0050	0.54%	0.54%	42.0	42.0	93%	93%
53	37	7,707	0.0048	0.56%	0.56%	43.2	43.2	86%	86%
54	33	7,673	0.0043	0.58%	0.58%	44.5	44.5	74%	74%
55	47	7,400	0.0064	0.60%	0.60%	44.4	44.4	106%	106%
56	46	6,629	0.0069	0.60%	0.60%	39.8	39.8	116%	116%
57	40	6,109	0.0065	0.60%	0.60%	36.7	36.7	109%	109%
58	29	5,637	0.0051	0.60%	0.60%	33.8	33.8	86%	86%
59	28	5,113	0.0055	0.60%	0.60%	30.7	30.7	91%	91%
60	33	4,655	0.0071	0.60%	0.60%	27.9	27.9	118%	118%
61	26	4,160	0.0063	0.60%	0.60%	25.0	25.0	104%	104%
62	15	3,679	0.0041	0.60%	0.60%	22.1	22.1	68%	68%
63	9	2,784	0.0032	0.60%	0.60%	16.7	16.7	54%	54%
64	12	2,150	0.0056	0.60%	0.60%	12.9	12.9	93%	93%
65	3	1,634	0.0018	0.60%	0.60%	9.8	9.8	31%	31%
66	6	1,284	0.0047	0.60%	0.60%	7.7	7.7	78%	78%
67	5	927	0.0054	0.60%	0.60%	5.6	5.6	90%	90%
68	0	710	0.0000	0.60%	0.60%	4.3	4.3	0%	0%
69	3	558	0.0054	0.60%	0.60%	3.3	3.3	90%	90%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>751</b>	<b>165,334</b>				<b>804.1</b>	<b>804.1</b>	<b>93%</b>	<b>93%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.14%	0	0	0%	0%
21	0	0	N/A	0.10%	0.14%	0	0	0%	0%
22	0	0	N/A	0.10%	0.14%	0	0	0%	0%
23	0	0	N/A	0.10%	0.14%	0	0	0%	0%
24	0	0	N/A	0.10%	0.14%	0	0	0%	0%
25	0	0	N/A	0.10%	0.14%	0	0	0%	0%
26	0	0	N/A	0.10%	0.14%	0	0	0%	0%
27	0	1	0.0000	0.10%	0.14%	0.0	0.0	0%	0%
28	1	4	0.2500	0.10%	0.14%	0.0	0.0	25000%	17857%
29	0	3	0.0000	0.10%	0.14%	0.0	0.0	0%	0%
30	0	12	0.0000	0.10%	0.14%	0.0	0.0	0%	0%
31	0	21	0.0000	0.12%	0.17%	0.0	0.0	0%	0%
32	0	57	0.0000	0.14%	0.20%	0.1	0.1	0%	0%
33	2	102	0.0196	0.16%	0.22%	0.2	0.2	1225%	875%
34	1	184	0.0054	0.18%	0.25%	0.3	0.5	302%	216%
35	0	290	0.0000	0.20%	0.28%	0.6	0.8	0%	0%
36	0	404	0.0000	0.22%	0.31%	0.9	1.2	0%	0%
37	3	526	0.0057	0.24%	0.34%	1.3	1.8	238%	170%
38	2	644	0.0031	0.26%	0.36%	1.7	2.3	119%	85%
39	3	795	0.0038	0.28%	0.39%	2.2	3.1	135%	96%
40	3	921	0.0033	0.30%	0.42%	2.8	3.9	109%	78%
41	10	1,020	0.0098	0.32%	0.45%	3.3	4.6	306%	219%
42	3	1,093	0.0027	0.34%	0.48%	3.7	5.2	81%	58%
43	6	1,179	0.0051	0.36%	0.50%	4.2	5.9	141%	101%
44	13	1,238	0.0105	0.38%	0.53%	4.7	6.6	276%	197%
45	9	1,292	0.0070	0.40%	0.56%	5.2	7.2	174%	124%
46	15	1,315	0.0114	0.42%	0.59%	5.5	7.7	272%	194%
47	13	1,279	0.0102	0.44%	0.62%	5.6	7.9	231%	165%
48	10	1,217	0.0082	0.46%	0.64%	5.6	7.8	179%	128%
49	14	1,203	0.0116	0.48%	0.67%	5.8	8.1	242%	173%
50	13	1,204	0.0108	0.50%	0.70%	6.0	8.4	216%	154%
51	16	1,181	0.0135	0.52%	0.73%	6.1	8.6	261%	186%
52	19	1,182	0.0161	0.54%	0.76%	6.4	8.9	298%	213%
53	14	1,134	0.0123	0.56%	0.78%	6.4	8.9	220%	157%
54	14	1,087	0.0129	0.58%	0.81%	6.3	8.8	222%	159%
55	14	1,040	0.0135	0.60%	0.84%	6.2	8.7	224%	160%
56	9	924	0.0097	0.60%	0.84%	5.5	7.8	162%	116%
57	13	824	0.0158	0.60%	0.84%	4.9	6.9	263%	188%
58	12	743	0.0162	0.60%	0.84%	4.5	6.2	269%	192%
59	14	647	0.0216	0.60%	0.84%	3.9	5.4	361%	258%
60	12	562	0.0214	0.60%	0.84%	3.4	4.7	356%	254%
61	3	510	0.0059	0.60%	0.84%	3.1	4.3	98%	70%
62	3	447	0.0067	0.60%	0.84%	2.7	3.8	112%	80%
63	2	317	0.0063	0.60%	0.84%	1.9	2.7	105%	75%
64	1	233	0.0043	0.60%	0.84%	1.4	2.0	72%	51%
65	2	184	0.0109	0.60%	0.84%	1.1	1.5	181%	129%
66	0	136	0.0000	0.60%	0.84%	0.8	1.1	0%	0%
67	0	88	0.0000	0.60%	0.84%	0.5	0.7	0%	0%
68	0	59	0.0000	0.60%	0.84%	0.4	0.5	0%	0%
69	0	38	0.0000	0.60%	0.84%	0.2	0.3	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	269	27,340				125.3	175.5	215%	153%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	22	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
28	1	61	0.0164	0.10%	0.10%	0.1	0.1	1639%	1597%
29	0	51	0.0000	0.10%	0.10%	0.1	0.1	0%	0%
30	0	61	0.0000	0.10%	0.11%	0.1	0.1	0%	0%
31	0	128	0.0000	0.12%	0.13%	0.2	0.2	0%	0%
32	0	288	0.0000	0.14%	0.15%	0.4	0.4	0%	0%
33	3	550	0.0055	0.16%	0.17%	0.9	0.9	341%	317%
34	3	916	0.0033	0.18%	0.19%	1.6	1.8	182%	168%
35	2	1,307	0.0015	0.20%	0.22%	2.6	2.8	77%	70%
36	4	1,799	0.0022	0.22%	0.24%	4.0	4.3	101%	93%
37	5	2,437	0.0021	0.24%	0.26%	5.8	6.4	85%	79%
38	7	3,151	0.0022	0.26%	0.28%	8.2	8.9	85%	79%
39	9	3,967	0.0023	0.28%	0.30%	11.1	12.0	81%	75%
40	12	4,708	0.0025	0.30%	0.32%	14.1	15.2	85%	79%
41	18	5,527	0.0033	0.32%	0.34%	17.7	19.0	102%	95%
42	14	6,233	0.0022	0.34%	0.36%	21.2	22.7	66%	62%
43	20	6,886	0.0029	0.36%	0.38%	24.8	26.5	81%	76%
44	36	7,447	0.0048	0.38%	0.41%	28.3	30.2	127%	119%
45	33	8,024	0.0041	0.40%	0.43%	32.1	34.2	103%	97%
46	44	8,353	0.0053	0.42%	0.45%	35.1	37.3	125%	118%
47	48	8,633	0.0056	0.44%	0.47%	38.0	40.2	126%	119%
48	53	8,810	0.0060	0.46%	0.49%	40.5	42.8	131%	124%
49	51	8,815	0.0058	0.48%	0.51%	42.3	44.6	121%	114%
50	45	8,853	0.0051	0.50%	0.53%	44.3	46.7	102%	96%
51	69	8,902	0.0078	0.52%	0.55%	46.3	48.7	149%	142%
52	58	8,963	0.0065	0.54%	0.57%	48.4	51.0	120%	114%
53	51	8,841	0.0058	0.56%	0.59%	49.5	52.0	103%	98%
54	47	8,760	0.0054	0.58%	0.61%	50.8	53.3	93%	88%
55	61	8,440	0.0072	0.60%	0.63%	50.6	53.1	120%	115%
56	55	7,553	0.0073	0.60%	0.63%	45.3	47.5	121%	116%
57	53	6,933	0.0076	0.60%	0.63%	41.6	43.6	127%	122%
58	41	6,380	0.0064	0.60%	0.63%	38.3	40.1	107%	102%
59	42	5,760	0.0073	0.60%	0.63%	34.6	36.1	122%	116%
60	45	5,217	0.0086	0.60%	0.63%	31.3	32.7	144%	138%
61	29	4,670	0.0062	0.60%	0.63%	28.0	29.2	103%	99%
62	18	4,126	0.0044	0.60%	0.63%	24.8	25.8	73%	70%
63	11	3,101	0.0035	0.60%	0.62%	18.6	19.4	59%	57%
64	13	2,383	0.0055	0.60%	0.62%	14.3	14.9	91%	87%
65	5	1,818	0.0028	0.60%	0.62%	10.9	11.3	46%	44%
66	6	1,420	0.0042	0.60%	0.62%	8.5	8.8	70%	68%
67	5	1,015	0.0049	0.60%	0.62%	6.1	6.3	82%	79%
68	0	769	0.0000	0.60%	0.62%	4.6	4.8	0%	0%
69	3	596	0.0050	0.60%	0.62%	3.6	3.7	84%	82%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	1,020	192,674				929.5	979.6	110%	104%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	126	0.0000	0.10%	0.10%	0.1	0.1	0%	0%
30-34	3	1,567	0.0019	0.16%	0.16%	2.5	2.5	118%	118%
35-39	19	10,002	0.0019	0.25%	0.25%	25.1	25.1	76%	76%
40-44	65	25,350	0.0026	0.34%	0.34%	87.4	87.4	74%	74%
45-49	168	36,329	0.0046	0.44%	0.44%	160.3	160.3	105%	105%
50-54	194	38,531	0.0050	0.54%	0.54%	208.1	208.1	93%	93%
55-59	190	30,888	0.0062	0.60%	0.60%	185.3	185.3	103%	103%
60-64	95	17,428	0.0055	0.60%	0.60%	104.6	104.6	91%	91%
65-69	17	5,113	0.0033	0.60%	0.60%	30.7	30.7	55%	55%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>751</b>	<b>165,334</b>				<b>804.1</b>	<b>804.1</b>	<b>93%</b>	<b>93%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	1	8	0.1250	0.10%	0.14%	0.0	0.0	12500%	8929%
30-34	3	376	0.0080	0.16%	0.23%	0.6	0.9	491%	350%
35-39	8	2,659	0.0030	0.25%	0.35%	6.6	9.3	121%	86%
40-44	35	5,451	0.0064	0.34%	0.48%	18.7	26.2	187%	134%
45-49	61	6,306	0.0097	0.44%	0.61%	27.7	38.8	220%	157%
50-54	76	5,788	0.0131	0.54%	0.75%	31.2	43.7	244%	174%
55-59	62	4,178	0.0148	0.60%	0.84%	25.1	35.1	247%	177%
60-64	21	2,069	0.0101	0.60%	0.84%	12.4	17.4	169%	121%
65-69	2	505	0.0040	0.60%	0.84%	3.0	4.2	66%	47%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>269</b>	<b>27,340</b>				<b>125.3</b>	<b>175.5</b>	<b>215%</b>	<b>153%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	1	134	0.0075	0.10%	0.10%	0.1	0.1	746%	729%
30-34	6	1,943	0.0031	0.16%	0.17%	3.1	3.4	191%	177%
35-39	27	12,661	0.0021	0.25%	0.27%	31.7	34.4	85%	79%
40-44	100	30,801	0.0032	0.34%	0.37%	106.1	113.6	94%	88%
45-49	229	42,635	0.0054	0.44%	0.47%	188.0	199.1	122%	115%
50-54	270	44,319	0.0061	0.54%	0.57%	239.3	251.8	113%	107%
55-59	252	35,066	0.0072	0.60%	0.63%	210.4	220.4	120%	114%
60-64	116	19,497	0.0059	0.60%	0.63%	117.0	121.9	99%	95%
65-69	19	5,618	0.0034	0.60%	0.62%	33.7	34.9	56%	54%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,020</b>	<b>192,674</b>				<b>929.5</b>	<b>979.6</b>	<b>110%</b>	<b>104%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 10D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	23,880	140	95.5	147%	0.59%	0.40%
2005	23,116	76	93.9	81%	0.33%	0.41%
2006	23,163	133	96.2	138%	0.57%	0.42%
2007	23,179	119	97.3	122%	0.51%	0.42%
2008	23,539	112	99.8	112%	0.48%	0.42%
2009	24,770	123	105.3	117%	0.50%	0.43%
2010	25,126	139	108.0	129%	0.55%	0.43%
2011	25,897	181	111.8	162%	0.70%	0.43%
2012	25,259	112	110.3	102%	0.44%	0.44%
2013	24,714	51	109.1	47%	0.21%	0.44%
Total	242,643	1,186	1,027.4	115%	0.49%	0.42%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 11A				4-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	60	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
21	0	78	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
22	0	77	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
23	0	102	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
24	0	157	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
25	0	266	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
26	0	354	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
27	0	449	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
28	0	587	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
29	0	704	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
30	0	826	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
31	0	991	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
32	0	1,130	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
33	0	1,298	0.0000	0.02%	0.01%	0.3	0.1	0%	0%
34	0	1,441	0.0000	0.02%	0.01%	0.3	0.1	0%	0%
35	0	1,575	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
36	0	1,774	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
37	0	2,024	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
38	0	2,368	0.0000	0.02%	0.01%	0.5	0.2	0%	0%
39	0	2,687	0.0000	0.02%	0.01%	0.5	0.3	0%	0%
40	0	2,989	0.0000	0.02%	0.01%	0.6	0.3	0%	0%
41	0	3,340	0.0000	0.02%	0.01%	0.7	0.3	0%	0%
42	0	3,704	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
43	0	4,114	0.0000	0.02%	0.01%	0.8	0.4	0%	0%
44	0	4,481	0.0000	0.02%	0.01%	0.9	0.4	0%	0%
45	0	4,871	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
46	0	5,041	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
47	0	5,121	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
48	0	5,161	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
49	0	5,142	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
50	0	5,087	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
51	1	5,159	0.0002	0.02%	0.01%	1.0	0.5	97%	194%
52	0	5,188	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
53	0	5,061	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
54	1	4,961	0.0002	0.02%	0.01%	1.0	0.5	101%	202%
55	0	4,792	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
56	0	4,283	0.0000	0.02%	0.01%	0.9	0.4	0%	0%
57	0	3,964	0.0000	0.02%	0.01%	0.8	0.4	0%	0%
58	0	3,738	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
59	0	3,418	0.0000	0.02%	0.01%	0.7	0.3	0%	0%
60	0	3,127	0.0000	0.02%	0.01%	0.6	0.3	0%	0%
61	0	2,854	0.0000	0.02%	0.01%	0.6	0.3	0%	0%
62	0	2,500	0.0000	0.02%	0.01%	0.5	0.3	0%	0%
63	0	1,890	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
64	0	1,436	0.0000	0.02%	0.01%	0.3	0.1	0%	0%
65	0	1,037	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
66	0	795	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
67	0	584	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
68	0	475	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
69	0	387	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	32	0.0000	0.00%	0.00%	0	0	0%	0%
Total	2	123,680				24.7	12.4	8%	16%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

TABLE 11B				4-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	6	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
21	0	8	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
22	0	8	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
23	0	27	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
24	0	42	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25	0	67	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
26	0	86	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
27	0	119	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
28	0	148	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
29	0	188	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
30	0	219	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
31	0	266	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
32	0	291	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
33	0	320	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
34	0	365	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
35	0	396	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
36	0	473	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
37	0	580	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
38	0	633	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
39	0	717	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
40	0	754	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
41	0	760	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
42	0	805	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
43	0	873	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
44	0	950	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
45	0	996	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
46	0	1,009	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
47	0	978	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
48	0	909	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
49	0	872	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
50	0	855	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
51	0	796	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
52	0	750	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
53	0	710	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
54	0	658	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
55	0	633	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
56	0	579	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
57	0	514	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
58	0	462	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
59	0	407	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
60	0	348	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
61	0	320	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
62	1	277	0.0036	0.02%	0.02%	0.1	0.1	1805%	1805%
63	0	200	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
64	0	153	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
65	0	121	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
66	0	90	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
67	0	54	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
68	0	36	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
69	0	22	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	2	0.0000	0.00%	0.00%	0	0	0%	0%
Total	1	21,852				4.4	4.4	23%	23%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	66	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
21	0	86	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
22	0	85	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
23	0	129	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
24	0	199	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
25	0	333	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
26	0	440	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
27	0	568	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
28	0	735	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
29	0	892	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
30	0	1,045	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
31	0	1,257	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
32	0	1,421	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
33	0	1,618	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
34	0	1,806	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
35	0	1,971	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
36	0	2,247	0.0000	0.02%	0.01%	0.4	0.3	0%	0%
37	0	2,604	0.0000	0.02%	0.01%	0.5	0.3	0%	0%
38	0	3,001	0.0000	0.02%	0.01%	0.6	0.4	0%	0%
39	0	3,404	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
40	0	3,743	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
41	0	4,100	0.0000	0.02%	0.01%	0.8	0.5	0%	0%
42	0	4,509	0.0000	0.02%	0.01%	0.9	0.5	0%	0%
43	0	4,987	0.0000	0.02%	0.01%	1.0	0.6	0%	0%
44	0	5,431	0.0000	0.02%	0.01%	1.1	0.6	0%	0%
45	0	5,867	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
46	0	6,050	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
47	0	6,099	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
48	0	6,070	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
49	0	6,014	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
50	0	5,942	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
51	1	5,955	0.0002	0.02%	0.01%	1.2	0.7	84%	148%
52	0	5,938	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
53	0	5,771	0.0000	0.02%	0.01%	1.2	0.6	0%	0%
54	1	5,619	0.0002	0.02%	0.01%	1.1	0.6	89%	159%
55	0	5,425	0.0000	0.02%	0.01%	1.1	0.6	0%	0%
56	0	4,862	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
57	0	4,478	0.0000	0.02%	0.01%	0.9	0.5	0%	0%
58	0	4,200	0.0000	0.02%	0.01%	0.8	0.5	0%	0%
59	0	3,825	0.0000	0.02%	0.01%	0.8	0.4	0%	0%
60	0	3,475	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
61	0	3,174	0.0000	0.02%	0.01%	0.6	0.3	0%	0%
62	1	2,777	0.0004	0.02%	0.01%	0.6	0.3	180%	327%
63	0	2,090	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
64	0	1,589	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
65	0	1,158	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
66	0	885	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
67	0	638	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
68	0	511	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
69	0	409	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	34	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>3</b>	<b>145,532</b>				<b>29.1</b>	<b>16.7</b>	<b>10%</b>	<b>18%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	474	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
25-29	0	2,360	0.0000	0.02%	0.01%	0.5	0.2	0%	0%
30-34	0	5,686	0.0000	0.02%	0.01%	1.1	0.6	0%	0%
35-39	0	10,428	0.0000	0.02%	0.01%	2.1	1.0	0%	0%
40-44	0	18,628	0.0000	0.02%	0.01%	3.7	1.9	0%	0%
45-49	0	25,336	0.0000	0.02%	0.01%	5.1	2.5	0%	0%
50-54	2	25,456	0.0001	0.02%	0.01%	5.1	2.5	39%	79%
55-59	0	20,195	0.0000	0.02%	0.01%	4.0	2.0	0%	0%
60-64	0	11,807	0.0000	0.02%	0.01%	2.4	1.2	0%	0%
65-69	0	3,278	0.0000	0.02%	0.01%	0.7	0.3	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	32	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>2</b>	<b>123,680</b>				<b>24.7</b>	<b>12.4</b>	<b>8%</b>	<b>16%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	91	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25-29	0	608	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
30-34	0	1,461	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
35-39	0	2,799	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
40-44	0	4,142	0.0000	0.02%	0.02%	0.8	0.8	0%	0%
45-49	0	4,764	0.0000	0.02%	0.02%	1.0	1.0	0%	0%
50-54	0	3,769	0.0000	0.02%	0.02%	0.8	0.8	0%	0%
55-59	0	2,595	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
60-64	1	1,298	0.0008	0.02%	0.02%	0.3	0.3	385%	385%
65-69	0	323	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	2	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>21,852</b>				<b>4.4</b>	<b>4.4</b>	<b>23%</b>	<b>23%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	565	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
25-29	0	2,968	0.0000	0.02%	0.01%	0.6	0.4	0%	0%
30-34	0	7,147	0.0000	0.02%	0.01%	1.4	0.9	0%	0%
35-39	0	13,227	0.0000	0.02%	0.01%	2.6	1.6	0%	0%
40-44	0	22,770	0.0000	0.02%	0.01%	4.6	2.7	0%	0%
45-49	0	30,100	0.0000	0.02%	0.01%	6.0	3.5	0%	0%
50-54	2	29,225	0.0001	0.02%	0.01%	5.8	3.3	34%	61%
55-59	0	22,790	0.0000	0.02%	0.01%	4.6	2.5	0%	0%
60-64	1	13,105	0.0001	0.02%	0.01%	2.6	1.4	38%	69%
65-69	0	3,601	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	34	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>3</b>	<b>145,532</b>				<b>29.1</b>	<b>16.7</b>	<b>10%</b>	<b>18%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 11A				8-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	96	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
21	0	155	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
22	0	194	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
23	0	243	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
24	0	316	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
25	0	478	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
26	0	670	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
27	0	920	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
28	0	1,220	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
29	1	1,488	0.0007	0.02%	0.01%	0.3	0.1	336%	672%
30	0	1,738	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
31	0	2,041	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
32	0	2,384	0.0000	0.02%	0.01%	0.5	0.2	0%	0%
33	0	2,815	0.0000	0.02%	0.01%	0.6	0.3	0%	0%
34	0	3,309	0.0000	0.02%	0.01%	0.7	0.3	0%	0%
35	0	3,793	0.0000	0.02%	0.01%	0.8	0.4	0%	0%
36	0	4,261	0.0000	0.02%	0.01%	0.9	0.4	0%	0%
37	0	4,903	0.0000	0.02%	0.01%	1.0	0.5	0%	0%
38	1	5,624	0.0002	0.02%	0.01%	1.1	0.6	89%	178%
39	1	6,361	0.0002	0.02%	0.01%	1.3	0.6	79%	157%
40	1	7,067	0.0001	0.02%	0.01%	1.4	0.7	71%	142%
41	1	7,842	0.0001	0.02%	0.01%	1.6	0.8	64%	128%
42	1	8,426	0.0001	0.02%	0.01%	1.7	0.8	59%	119%
43	1	8,965	0.0001	0.02%	0.01%	1.8	0.9	56%	112%
44	0	9,386	0.0000	0.02%	0.01%	1.9	0.9	0%	0%
45	0	9,786	0.0000	0.02%	0.01%	2.0	1.0	0%	0%
46	0	9,931	0.0000	0.02%	0.01%	2.0	1.0	0%	0%
47	0	10,098	0.0000	0.02%	0.01%	2.0	1.0	0%	0%
48	1	10,182	0.0001	0.02%	0.01%	2.0	1.0	49%	98%
49	0	10,109	0.0000	0.02%	0.01%	2.0	1.0	0%	0%
50	0	10,028	0.0000	0.02%	0.01%	2.0	1.0	0%	0%
51	1	9,966	0.0001	0.02%	0.01%	2.0	1.0	50%	100%
52	1	9,855	0.0001	0.02%	0.01%	2.0	1.0	51%	101%
53	1	9,634	0.0001	0.02%	0.01%	1.9	1.0	52%	104%
54	2	9,434	0.0002	0.02%	0.01%	1.9	0.9	106%	212%
55	1	8,993	0.0001	0.02%	0.01%	1.8	0.9	56%	111%
56	0	8,091	0.0000	0.02%	0.01%	1.6	0.8	0%	0%
57	0	7,461	0.0000	0.02%	0.01%	1.5	0.7	0%	0%
58	1	6,874	0.0001	0.02%	0.01%	1.4	0.7	73%	145%
59	1	6,175	0.0002	0.02%	0.01%	1.2	0.6	81%	162%
60	0	5,544	0.0000	0.02%	0.01%	1.1	0.6	0%	0%
61	1	4,905	0.0002	0.02%	0.01%	1.0	0.5	102%	204%
62	0	4,252	0.0000	0.02%	0.01%	0.9	0.4	0%	0%
63	0	3,241	0.0000	0.02%	0.01%	0.6	0.3	0%	0%
64	0	2,533	0.0000	0.02%	0.01%	0.5	0.3	0%	0%
65	0	1,918	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
66	0	1,501	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
67	0	1,083	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
68	0	844	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
69	0	646	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	44	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>17</b>	<b>247,823</b>				<b>49.6</b>	<b>24.8</b>	<b>34%</b>	<b>69%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	10	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
21	0	17	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
22	0	30	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
23	0	50	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
24	0	83	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25	0	133	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
26	0	187	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
27	0	247	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
28	0	309	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
29	0	377	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
30	0	465	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
31	0	558	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
32	0	670	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
33	0	794	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
34	1	886	0.0011	0.02%	0.02%	0.2	0.2	564%	564%
35	0	1,009	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
36	0	1,146	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
37	0	1,279	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
38	1	1,377	0.0007	0.02%	0.02%	0.3	0.3	363%	363%
39	0	1,542	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
40	2	1,663	0.0012	0.02%	0.02%	0.3	0.3	601%	601%
41	0	1,724	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
42	0	1,765	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
43	1	1,816	0.0006	0.02%	0.02%	0.4	0.4	275%	275%
44	0	1,833	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
45	0	1,857	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
46	0	1,855	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
47	0	1,775	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
48	0	1,679	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
49	1	1,609	0.0006	0.02%	0.02%	0.3	0.3	311%	311%
50	0	1,560	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
51	0	1,481	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
52	1	1,425	0.0007	0.02%	0.02%	0.3	0.3	351%	351%
53	0	1,341	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
54	0	1,267	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
55	1	1,190	0.0008	0.02%	0.02%	0.2	0.2	420%	420%
56	0	1,049	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
57	0	944	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
58	0	849	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
59	0	743	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
60	0	642	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
61	0	574	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
62	1	494	0.0020	0.02%	0.02%	0.1	0.1	1012%	1012%
63	0	353	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
64	0	255	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
65	0	198	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
66	0	146	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
67	0	95	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
68	0	64	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
69	0	42	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	3	0.0000	0.00%	0.00%	0	0	0%	0%
Total	9	43,460				8.7	8.7	104%	104%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11C

8-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	106	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
21	0	172	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
22	0	224	0.0000	0.02%	0.01%	0.0	0.0	0%	0%
23	0	293	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
24	0	399	0.0000	0.02%	0.01%	0.1	0.0	0%	0%
25	0	611	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
26	0	857	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
27	0	1,167	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
28	0	1,529	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
29	1	1,865	0.0005	0.02%	0.01%	0.4	0.2	268%	446%
30	0	2,203	0.0000	0.02%	0.01%	0.4	0.3	0%	0%
31	0	2,599	0.0000	0.02%	0.01%	0.5	0.3	0%	0%
32	0	3,054	0.0000	0.02%	0.01%	0.6	0.4	0%	0%
33	0	3,609	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
34	1	4,195	0.0002	0.02%	0.01%	0.8	0.5	119%	197%
35	0	4,802	0.0000	0.02%	0.01%	1.0	0.6	0%	0%
36	0	5,407	0.0000	0.02%	0.01%	1.1	0.7	0%	0%
37	0	6,182	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
38	2	7,001	0.0003	0.02%	0.01%	1.4	0.8	143%	239%
39	1	7,903	0.0001	0.02%	0.01%	1.6	0.9	63%	106%
40	3	8,730	0.0003	0.02%	0.01%	1.7	1.0	172%	289%
41	1	9,566	0.0001	0.02%	0.01%	1.9	1.1	52%	89%
42	1	10,191	0.0001	0.02%	0.01%	2.0	1.2	49%	84%
43	2	10,781	0.0002	0.02%	0.01%	2.2	1.3	93%	159%
44	0	11,219	0.0000	0.02%	0.01%	2.2	1.3	0%	0%
45	0	11,643	0.0000	0.02%	0.01%	2.3	1.4	0%	0%
46	0	11,786	0.0000	0.02%	0.01%	2.4	1.4	0%	0%
47	0	11,873	0.0000	0.02%	0.01%	2.4	1.4	0%	0%
48	1	11,861	0.0001	0.02%	0.01%	2.4	1.4	42%	74%
49	1	11,718	0.0001	0.02%	0.01%	2.3	1.3	43%	75%
50	0	11,588	0.0000	0.02%	0.01%	2.3	1.3	0%	0%
51	1	11,447	0.0001	0.02%	0.01%	2.3	1.3	44%	77%
52	2	11,280	0.0002	0.02%	0.01%	2.3	1.3	89%	157%
53	1	10,975	0.0001	0.02%	0.01%	2.2	1.2	46%	81%
54	2	10,701	0.0002	0.02%	0.01%	2.1	1.2	93%	167%
55	2	10,183	0.0002	0.02%	0.01%	2.0	1.1	98%	176%
56	0	9,140	0.0000	0.02%	0.01%	1.8	1.0	0%	0%
57	0	8,405	0.0000	0.02%	0.01%	1.7	0.9	0%	0%
58	1	7,723	0.0001	0.02%	0.01%	1.5	0.9	65%	117%
59	1	6,918	0.0001	0.02%	0.01%	1.4	0.8	72%	131%
60	0	6,186	0.0000	0.02%	0.01%	1.2	0.7	0%	0%
61	1	5,479	0.0002	0.02%	0.01%	1.1	0.6	91%	165%
62	1	4,746	0.0002	0.02%	0.01%	0.9	0.5	105%	191%
63	0	3,594	0.0000	0.02%	0.01%	0.7	0.4	0%	0%
64	0	2,788	0.0000	0.02%	0.01%	0.6	0.3	0%	0%
65	0	2,116	0.0000	0.02%	0.01%	0.4	0.2	0%	0%
66	0	1,647	0.0000	0.02%	0.01%	0.3	0.2	0%	0%
67	0	1,178	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
68	0	908	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
69	0	688	0.0000	0.02%	0.01%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	47	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>26</b>	<b>291,283</b>				<b>58.2</b>	<b>33.5</b>	<b>45%</b>	<b>78%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,004	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
25-29	1	4,776	0.0002	0.02%	0.01%	1.0	0.5	105%	209%
30-34	0	12,287	0.0000	0.02%	0.01%	2.5	1.2	0%	0%
35-39	2	24,942	0.0001	0.02%	0.01%	5.0	2.5	40%	80%
40-44	4	41,686	0.0001	0.02%	0.01%	8.3	4.2	48%	96%
45-49	1	50,106	0.0000	0.02%	0.01%	10.0	5.0	10%	20%
50-54	5	48,917	0.0001	0.02%	0.01%	9.8	4.9	51%	102%
55-59	3	37,594	0.0001	0.02%	0.01%	7.5	3.8	40%	80%
60-64	1	20,475	0.0000	0.02%	0.01%	4.1	2.0	24%	49%
65-69	0	5,992	0.0000	0.02%	0.01%	1.2	0.6	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	44	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>17</b>	<b>247,823</b>				<b>49.6</b>	<b>24.8</b>	<b>34%</b>	<b>69%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	190	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25-29	0	1,253	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
30-34	1	3,373	0.0003	0.02%	0.02%	0.7	0.7	148%	148%
35-39	1	6,353	0.0002	0.02%	0.02%	1.3	1.3	79%	79%
40-44	3	8,801	0.0003	0.02%	0.02%	1.8	1.8	170%	170%
45-49	1	8,775	0.0001	0.02%	0.02%	1.8	1.8	57%	57%
50-54	1	7,074	0.0001	0.02%	0.02%	1.4	1.4	71%	71%
55-59	1	4,775	0.0002	0.02%	0.02%	1.0	1.0	105%	105%
60-64	1	2,318	0.0004	0.02%	0.02%	0.5	0.5	216%	216%
65-69	0	545	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	3	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>9</b>	<b>43,460</b>				<b>8.7</b>	<b>8.7</b>	<b>104%</b>	<b>104%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,194	0.0000	0.02%	0.01%	0.2	0.1	0%	0%
25-29	1	6,029	0.0002	0.02%	0.01%	1.2	0.7	83%	137%
30-34	1	15,660	0.0001	0.02%	0.01%	3.1	1.9	32%	53%
35-39	3	31,295	0.0001	0.02%	0.01%	6.3	3.8	48%	80%
40-44	7	50,487	0.0001	0.02%	0.01%	10.1	5.9	69%	118%
45-49	2	58,881	0.0000	0.02%	0.01%	11.8	6.8	17%	30%
50-54	6	55,991	0.0001	0.02%	0.01%	11.2	6.3	54%	95%
55-59	4	42,369	0.0001	0.02%	0.01%	8.5	4.7	47%	85%
60-64	2	22,793	0.0001	0.02%	0.01%	4.6	2.5	44%	80%
65-69	0	6,537	0.0000	0.02%	0.01%	1.3	0.7	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	47	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>26</b>	<b>291,283</b>				<b>58.2</b>	<b>33.5</b>	<b>45%</b>	<b>78%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 11D Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities	Expected Disabilities	Actual / Expected	Disability Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	37,012	5	5.9	85%	0.01%	0.02%
2005	36,264	2	5.8	35%	0.01%	0.02%
2006	36,147	6	5.7	105%	0.02%	0.02%
2007	36,324	10	5.8	174%	0.03%	0.02%
2008	36,517	1	5.8	17%	0.00%	0.02%
2009	37,293	0	5.9	0%	0.00%	0.02%
2010	36,414	1	5.8	17%	0.00%	0.02%
2011	35,308	1	5.6	18%	0.00%	0.02%
2012	34,311	1	5.4	18%	0.00%	0.02%
2013	34,067	0	5.4	0%	0.00%	0.02%
Total	359,657	27	57.0	47%	0.01%	0.02%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,024	\$ 57,030,649	\$ 63,359,498	\$ 67,866,472	58%	11.10%	19.00%
1	3,228	177,496,936	194,653,768	202,346,507	69%	9.67%	14.00%
2	4,527	264,499,566	296,381,447	290,949,523	121%	12.05%	10.00%
3	5,418	342,133,663	373,030,621	366,083,019	129%	9.03%	7.00%
4	5,838	394,031,313	405,248,724	413,732,879	57%	2.85%	5.00%
5	5,090	348,439,719	358,955,327	362,377,308	75%	3.02%	4.00%
6	4,042	278,964,176	285,509,925	288,727,922	67%	2.35%	3.50%
7	3,534	246,014,404	252,930,085	254,624,908	80%	2.81%	3.50%
8	4,328	299,092,982	309,682,033	309,561,236	101%	3.54%	3.50%
9	5,172	359,228,453	371,862,301	371,801,449	100%	3.52%	3.50%
10	6,678	463,590,313	477,762,849	479,815,974	87%	3.06%	3.50%
11	7,029	495,857,242	510,037,757	513,212,245	82%	2.86%	3.50%
12	6,230	442,315,247	453,670,843	457,796,281	73%	2.57%	3.50%
13	5,195	374,284,438	381,151,633	387,384,393	52%	1.83%	3.50%
14	3,569	260,379,363	266,543,235	269,492,641	68%	2.37%	3.50%
15	3,254	235,353,812	241,926,415	243,591,195	80%	2.79%	3.50%
16	3,382	245,090,195	253,126,659	253,668,352	94%	3.28%	3.50%
17	4,014	293,524,767	302,418,501	303,798,134	87%	3.03%	3.50%
18	4,345	322,207,911	331,267,127	333,485,188	80%	2.81%	3.50%
19	4,457	331,214,461	339,282,105	342,806,967	70%	2.44%	3.50%
20	4,549	337,519,170	346,998,871	349,332,341	80%	2.81%	3.50%
21	4,973	369,037,175	379,955,163	381,953,476	85%	2.96%	3.50%
22	5,182	389,815,498	400,858,047	403,459,040	81%	2.83%	3.50%
23	4,878	373,239,893	382,581,077	386,303,289	72%	2.50%	3.50%
24	4,677	360,170,457	368,185,695	372,776,423	64%	2.23%	3.50%
25	3,486	270,163,807	277,383,144	279,619,540	76%	2.67%	3.50%
26	2,939	230,756,248	236,104,061	238,832,717	66%	2.32%	3.50%
27	2,716	215,048,852	220,135,636	222,575,562	68%	2.37%	3.50%
28	2,445	195,743,658	200,549,082	202,594,686	70%	2.45%	3.50%
29	2,084	169,161,071	173,261,109	175,081,708	69%	2.42%	3.50%
30+	1,633	134,002,763	136,784,282	138,692,860	59%	2.08%	3.50%
Total	129,916	9,275,408,202	9,591,597,020	9,664,344,236	81%	3.41%	4.19%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Proposed Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,024	\$ 57,030,649	\$ 63,359,498	\$ 67,866,472	58%	11.10%	19.00%
1	3,228	177,496,936	194,653,768	202,346,507	69%	9.67%	14.00%
2	4,527	264,499,566	296,381,447	290,949,523	121%	12.05%	10.00%
3	5,418	342,133,663	373,030,621	366,083,019	129%	9.03%	7.00%
4	5,838	394,031,313	405,248,724	413,732,879	57%	2.85%	5.00%
5	5,090	348,439,719	358,955,327	362,377,308	75%	3.02%	4.00%
6	4,042	278,964,176	285,509,925	288,727,922	67%	2.35%	3.50%
7	3,534	246,014,404	252,930,085	254,624,908	80%	2.81%	3.50%
8	4,328	299,092,982	309,682,033	309,561,236	101%	3.54%	3.50%
9	5,172	359,228,453	371,862,301	371,801,449	100%	3.52%	3.50%
10	6,678	463,590,313	477,762,849	479,815,974	87%	3.06%	3.50%
11	7,029	495,857,242	510,037,757	513,212,245	82%	2.86%	3.50%
12	6,230	442,315,247	453,670,843	457,796,281	73%	2.57%	3.50%
13	5,195	374,284,438	381,151,633	387,384,393	52%	1.83%	3.50%
14	3,569	260,379,363	266,543,235	269,492,641	68%	2.37%	3.50%
15	3,254	235,353,812	241,926,415	243,591,195	80%	2.79%	3.50%
16	3,382	245,090,195	253,126,659	253,668,352	94%	3.28%	3.50%
17	4,014	293,524,767	302,418,501	303,798,134	87%	3.03%	3.50%
18	4,345	322,207,911	331,267,127	333,485,188	80%	2.81%	3.50%
19	4,457	331,214,461	339,282,105	342,806,967	70%	2.44%	3.50%
20	4,549	337,519,170	346,998,871	349,332,341	80%	2.81%	3.50%
21	4,973	369,037,175	379,955,163	381,953,476	85%	2.96%	3.50%
22	5,182	389,815,498	400,858,047	403,459,040	81%	2.83%	3.50%
23	4,878	373,239,893	382,581,077	386,303,289	72%	2.50%	3.50%
24	4,677	360,170,457	368,185,695	372,776,423	64%	2.23%	3.50%
25	3,486	270,163,807	277,383,144	279,619,540	76%	2.67%	3.50%
26	2,939	230,756,248	236,104,061	238,832,717	66%	2.32%	3.50%
27	2,716	215,048,852	220,135,636	222,575,562	68%	2.37%	3.50%
28	2,445	195,743,658	200,549,082	202,594,686	70%	2.45%	3.50%
29	2,084	169,161,071	173,261,109	175,081,708	69%	2.42%	3.50%
30+	1,633	134,002,763	136,784,282	138,692,860	59%	2.08%	3.50%
Total	129,916	9,275,408,202	9,591,597,020	9,664,344,236	81%	3.41%	4.19%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1,024	\$ 57,030,649	\$ 63,516,934	\$ 65,870,400	73%	11.37%	15.50%
1	3,228	177,496,936	189,547,209	196,134,114	65%	6.79%	10.50%
2	4,527	264,499,566	289,259,406	281,692,038	144%	9.36%	6.50%
3	5,418	342,133,663	361,954,500	354,108,341	166%	5.79%	3.50%
4	5,838	394,031,313	395,173,256	399,941,783	19%	0.29%	1.50%
5	5,090	348,439,719	349,057,579	350,181,918	35%	0.18%	0.50%
6	4,042	278,964,176	278,964,176	278,964,176		0.00%	0.00%
7	3,534	246,014,404	246,014,404	246,014,404		0.00%	0.00%
8	4,328	299,092,982	299,092,982	299,092,982		0.00%	0.00%
9	5,172	359,228,453	359,228,453	359,228,453		0.00%	0.00%
10	6,678	463,590,313	463,590,313	463,590,313		0.00%	0.00%
11	7,029	495,857,242	495,857,242	495,857,242		0.00%	0.00%
12	6,230	442,315,247	442,315,247	442,315,247		0.00%	0.00%
13	5,195	374,284,438	374,284,438	374,284,438		0.00%	0.00%
14	3,569	260,379,363	260,379,363	260,379,363		0.00%	0.00%
15	3,254	235,353,812	235,353,812	235,353,812		0.00%	0.00%
16	3,382	245,090,195	245,090,195	245,090,195		0.00%	0.00%
17	4,014	293,524,767	293,524,767	293,524,767		0.00%	0.00%
18	4,345	322,207,911	322,207,911	322,207,911		0.00%	0.00%
19	4,457	331,214,461	331,214,461	331,214,461		0.00%	0.00%
20	4,549	337,519,170	337,519,170	337,519,170		0.00%	0.00%
21	4,973	369,037,175	369,037,175	369,037,175		0.00%	0.00%
22	5,182	389,815,498	389,815,498	389,815,498		0.00%	0.00%
23	4,878	373,239,893	373,239,893	373,239,893		0.00%	0.00%
24	4,677	360,170,457	360,170,457	360,170,457		0.00%	0.00%
25	3,486	270,163,807	270,163,807	270,163,807		0.00%	0.00%
26	2,939	230,756,248	230,756,248	230,756,248		0.00%	0.00%
27	2,716	215,048,852	215,048,852	215,048,852		0.00%	0.00%
28	2,445	195,743,658	195,743,658	195,743,658		0.00%	0.00%
29	2,084	169,161,071	169,161,071	169,161,071		0.00%	0.00%
30+	1,633	134,002,763	134,002,763	134,002,763		0.00%	0.00%
Total	129,916	9,275,408,202	9,340,285,239	9,339,704,949	101%	0.70%	0.69%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 1.71%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Proposed Merit Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,024	\$ 57,030,649	\$ 63,516,934	\$ 65,870,400	73%	11.37%	15.50%
1	3,228	177,496,936	189,547,209	196,134,114	65%	6.79%	10.50%
2	4,527	264,499,566	289,259,406	281,692,038	144%	9.36%	6.50%
3	5,418	342,133,663	361,954,500	354,108,341	166%	5.79%	3.50%
4	5,838	394,031,313	395,173,256	399,941,783	19%	0.29%	1.50%
5	5,090	348,439,719	349,057,579	350,181,918	35%	0.18%	0.50%
6	4,042	278,964,176	278,964,176	278,964,176		0.00%	0.00%
7	3,534	246,014,404	246,014,404	246,014,404		0.00%	0.00%
8	4,328	299,092,982	299,092,982	299,092,982		0.00%	0.00%
9	5,172	359,228,453	359,228,453	359,228,453		0.00%	0.00%
10	6,678	463,590,313	463,590,313	463,590,313		0.00%	0.00%
11	7,029	495,857,242	495,857,242	495,857,242		0.00%	0.00%
12	6,230	442,315,247	442,315,247	442,315,247		0.00%	0.00%
13	5,195	374,284,438	374,284,438	374,284,438		0.00%	0.00%
14	3,569	260,379,363	260,379,363	260,379,363		0.00%	0.00%
15	3,254	235,353,812	235,353,812	235,353,812		0.00%	0.00%
16	3,382	245,090,195	245,090,195	245,090,195		0.00%	0.00%
17	4,014	293,524,767	293,524,767	293,524,767		0.00%	0.00%
18	4,345	322,207,911	322,207,911	322,207,911		0.00%	0.00%
19	4,457	331,214,461	331,214,461	331,214,461		0.00%	0.00%
20	4,549	337,519,170	337,519,170	337,519,170		0.00%	0.00%
21	4,973	369,037,175	369,037,175	369,037,175		0.00%	0.00%
22	5,182	389,815,498	389,815,498	389,815,498		0.00%	0.00%
23	4,878	373,239,893	373,239,893	373,239,893		0.00%	0.00%
24	4,677	360,170,457	360,170,457	360,170,457		0.00%	0.00%
25	3,486	270,163,807	270,163,807	270,163,807		0.00%	0.00%
26	2,939	230,756,248	230,756,248	230,756,248		0.00%	0.00%
27	2,716	215,048,852	215,048,852	215,048,852		0.00%	0.00%
28	2,445	195,743,658	195,743,658	195,743,658		0.00%	0.00%
29	2,084	169,161,071	169,161,071	169,161,071		0.00%	0.00%
30+	1,633	134,002,763	134,002,763	134,002,763		0.00%	0.00%
Total	129,916	9,275,408,202	9,340,285,239	9,339,704,949	101%	0.70%	0.69%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	5,004	\$ 226,951,620	\$ 260,219,308	\$ 270,072,428	77%	14.66%	19.00%
1	10,830	535,440,411	591,935,832	610,402,069	75%	10.55%	14.00%
2	12,145	642,685,045	724,436,293	706,953,550	127%	12.72%	10.00%
3	13,254	766,642,804	833,985,711	820,307,800	125%	8.78%	7.00%
4	15,000	911,346,503	941,924,045	956,913,828	67%	3.36%	5.00%
5	15,169	928,744,640	958,614,969	965,894,426	80%	3.22%	4.00%
6	14,327	878,875,238	908,056,858	909,635,871	95%	3.32%	3.50%
7	13,429	836,904,554	864,091,624	866,196,213	93%	3.25%	3.50%
8	12,524	793,572,845	823,108,716	821,347,895	106%	3.72%	3.50%
9	12,920	831,075,435	857,653,057	860,163,075	91%	3.20%	3.50%
10	13,263	861,257,251	888,564,468	891,401,255	91%	3.17%	3.50%
11	13,493	883,715,373	910,243,275	914,645,411	86%	3.00%	3.50%
12	12,466	818,279,666	842,384,687	846,919,454	84%	2.95%	3.50%
13	11,999	788,078,045	810,283,125	815,660,777	81%	2.82%	3.50%
14	11,423	741,892,160	765,968,917	767,858,386	93%	3.25%	3.50%
15	11,944	770,520,110	796,211,106	797,488,314	95%	3.33%	3.50%
16	12,082	786,471,224	812,048,240	813,997,717	93%	3.25%	3.50%
17	12,272	811,963,735	839,103,549	840,382,466	95%	3.34%	3.50%
18	13,070	875,983,594	902,973,470	906,643,020	88%	3.08%	3.50%
19	12,850	871,649,645	898,767,322	902,157,383	89%	3.11%	3.50%
20	12,229	840,208,607	865,847,863	869,615,908	87%	3.05%	3.50%
21	11,780	815,977,495	841,703,442	844,536,707	90%	3.15%	3.50%
22	11,806	827,782,799	853,577,068	856,755,197	89%	3.12%	3.50%
23	11,241	801,188,655	824,075,868	829,230,258	82%	2.86%	3.50%
24	10,144	731,823,934	752,593,805	757,437,772	81%	2.84%	3.50%
25	7,957	581,587,162	599,327,789	601,942,713	87%	3.05%	3.50%
26	6,509	485,841,926	499,506,332	502,846,393	80%	2.81%	3.50%
27	5,254	401,006,832	411,863,646	415,042,071	77%	2.71%	3.50%
28	4,030	314,077,185	322,264,673	325,069,886	74%	2.61%	3.50%
29	3,237	254,071,660	260,592,985	262,964,168	73%	2.57%	3.50%
30+	2,498	196,581,936	201,284,080	203,462,304	68%	2.39%	3.50%
Total	336,149	21,812,198,089	22,663,212,123	22,753,944,713	90%	3.90%	4.32%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Proposed Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	5,004	\$ 226,951,620	\$ 260,219,308	\$ 270,072,428	77%	14.66%	19.00%
1	10,830	535,440,411	591,935,832	610,402,069	75%	10.55%	14.00%
2	12,145	642,685,045	724,436,293	706,953,550	127%	12.72%	10.00%
3	13,254	766,642,804	833,985,711	820,307,800	125%	8.78%	7.00%
4	15,000	911,346,503	941,924,045	956,913,828	67%	3.36%	5.00%
5	15,169	928,744,640	958,614,969	965,894,426	80%	3.22%	4.00%
6	14,327	878,875,238	908,056,858	909,635,871	95%	3.32%	3.50%
7	13,429	836,904,554	864,091,624	866,196,213	93%	3.25%	3.50%
8	12,524	793,572,845	823,108,716	821,347,895	106%	3.72%	3.50%
9	12,920	831,075,435	857,653,057	860,163,075	91%	3.20%	3.50%
10	13,263	861,257,251	888,564,468	891,401,255	91%	3.17%	3.50%
11	13,493	883,715,373	910,243,275	914,645,411	86%	3.00%	3.50%
12	12,466	818,279,666	842,384,687	846,919,454	84%	2.95%	3.50%
13	11,999	788,078,045	810,283,125	815,660,777	81%	2.82%	3.50%
14	11,423	741,892,160	765,968,917	767,858,386	93%	3.25%	3.50%
15	11,944	770,520,110	796,211,106	797,488,314	95%	3.33%	3.50%
16	12,082	786,471,224	812,048,240	813,997,717	93%	3.25%	3.50%
17	12,272	811,963,735	839,103,549	840,382,466	95%	3.34%	3.50%
18	13,070	875,983,594	902,973,470	906,643,020	88%	3.08%	3.50%
19	12,850	871,649,645	898,767,322	902,157,383	89%	3.11%	3.50%
20	12,229	840,208,607	865,847,863	869,615,908	87%	3.05%	3.50%
21	11,780	815,977,495	841,703,442	844,536,707	90%	3.15%	3.50%
22	11,806	827,782,799	853,577,068	856,755,197	89%	3.12%	3.50%
23	11,241	801,188,655	824,075,868	829,230,258	82%	2.86%	3.50%
24	10,144	731,823,934	752,593,805	757,437,772	81%	2.84%	3.50%
25	7,957	581,587,162	599,327,789	601,942,713	87%	3.05%	3.50%
26	6,509	485,841,926	499,506,332	502,846,393	80%	2.81%	3.50%
27	5,254	401,006,832	411,863,646	415,042,071	77%	2.71%	3.50%
28	4,030	314,077,185	322,264,673	325,069,886	74%	2.61%	3.50%
29	3,237	254,071,660	260,592,985	262,964,168	73%	2.57%	3.50%
30+	2,498	196,581,936	201,284,080	203,462,304	68%	2.39%	3.50%
Total	336,149	21,812,198,089	22,663,212,123	22,753,944,713	90%	3.90%	4.32%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	5,004	\$ 226,951,620	\$ 252,763,579	\$ 262,129,121	73%	11.37%	15.50%
1	10,830	535,440,411	571,791,479	591,661,654	65%	6.79%	10.50%
2	12,145	642,685,045	702,846,878	684,459,573	144%	9.36%	6.50%
3	13,254	766,642,804	811,056,737	793,475,302	166%	5.79%	3.50%
4	15,000	911,346,503	913,987,678	925,016,701	19%	0.29%	1.50%
5	15,169	928,744,640	930,391,508	933,388,363	35%	0.18%	0.50%
6	14,327	878,875,238	878,875,238	878,875,238		0.00%	0.00%
7	13,429	836,904,554	836,904,554	836,904,554		0.00%	0.00%
8	12,524	793,572,845	793,572,845	793,572,845		0.00%	0.00%
9	12,920	831,075,435	831,075,435	831,075,435		0.00%	0.00%
10	13,263	861,257,251	861,257,251	861,257,251		0.00%	0.00%
11	13,493	883,715,373	883,715,373	883,715,373		0.00%	0.00%
12	12,466	818,279,666	818,279,666	818,279,666		0.00%	0.00%
13	11,999	788,078,045	788,078,045	788,078,045		0.00%	0.00%
14	11,423	741,892,160	741,892,160	741,892,160		0.00%	0.00%
15	11,944	770,520,110	770,520,110	770,520,110		0.00%	0.00%
16	12,082	786,471,224	786,471,224	786,471,224		0.00%	0.00%
17	12,272	811,963,735	811,963,735	811,963,735		0.00%	0.00%
18	13,070	875,983,594	875,983,594	875,983,594		0.00%	0.00%
19	12,850	871,649,645	871,649,645	871,649,645		0.00%	0.00%
20	12,229	840,208,607	840,208,607	840,208,607		0.00%	0.00%
21	11,780	815,977,495	815,977,495	815,977,495		0.00%	0.00%
22	11,806	827,782,799	827,782,799	827,782,799		0.00%	0.00%
23	11,241	801,188,655	801,188,655	801,188,655		0.00%	0.00%
24	10,144	731,823,934	731,823,934	731,823,934		0.00%	0.00%
25	7,957	581,587,162	581,587,162	581,587,162		0.00%	0.00%
26	6,509	485,841,926	485,841,926	485,841,926		0.00%	0.00%
27	5,254	401,006,832	401,006,832	401,006,832		0.00%	0.00%
28	4,030	314,077,185	314,077,185	314,077,185		0.00%	0.00%
29	3,237	254,071,660	254,071,660	254,071,660		0.00%	0.00%
30+	2,498	196,581,936	196,581,936	196,581,936		0.00%	0.00%
Total	336,149	21,812,198,089	21,983,224,926	21,990,517,780	96%	0.78%	0.82%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	5,004	\$ 226,951,620	\$ 252,763,579	\$ 262,129,121	73%	11.37%	15.50%
1	10,830	535,440,411	571,791,479	591,661,654	65%	6.79%	10.50%
2	12,145	642,685,045	702,846,878	684,459,573	144%	9.36%	6.50%
3	13,254	766,642,804	811,056,737	793,475,302	166%	5.79%	3.50%
4	15,000	911,346,503	913,987,678	925,016,701	19%	0.29%	1.50%
5	15,169	928,744,640	930,391,508	933,388,363	35%	0.18%	0.50%
6	14,327	878,875,238	878,875,238	878,875,238		0.00%	0.00%
7	13,429	836,904,554	836,904,554	836,904,554		0.00%	0.00%
8	12,524	793,572,845	793,572,845	793,572,845		0.00%	0.00%
9	12,920	831,075,435	831,075,435	831,075,435		0.00%	0.00%
10	13,263	861,257,251	861,257,251	861,257,251		0.00%	0.00%
11	13,493	883,715,373	883,715,373	883,715,373		0.00%	0.00%
12	12,466	818,279,666	818,279,666	818,279,666		0.00%	0.00%
13	11,999	788,078,045	788,078,045	788,078,045		0.00%	0.00%
14	11,423	741,892,160	741,892,160	741,892,160		0.00%	0.00%
15	11,944	770,520,110	770,520,110	770,520,110		0.00%	0.00%
16	12,082	786,471,224	786,471,224	786,471,224		0.00%	0.00%
17	12,272	811,963,735	811,963,735	811,963,735		0.00%	0.00%
18	13,070	875,983,594	875,983,594	875,983,594		0.00%	0.00%
19	12,850	871,649,645	871,649,645	871,649,645		0.00%	0.00%
20	12,229	840,208,607	840,208,607	840,208,607		0.00%	0.00%
21	11,780	815,977,495	815,977,495	815,977,495		0.00%	0.00%
22	11,806	827,782,799	827,782,799	827,782,799		0.00%	0.00%
23	11,241	801,188,655	801,188,655	801,188,655		0.00%	0.00%
24	10,144	731,823,934	731,823,934	731,823,934		0.00%	0.00%
25	7,957	581,587,162	581,587,162	581,587,162		0.00%	0.00%
26	6,509	485,841,926	485,841,926	485,841,926		0.00%	0.00%
27	5,254	401,006,832	401,006,832	401,006,832		0.00%	0.00%
28	4,030	314,077,185	314,077,185	314,077,185		0.00%	0.00%
29	3,237	254,071,660	254,071,660	254,071,660		0.00%	0.00%
30+	2,498	196,581,936	196,581,936	196,581,936		0.00%	0.00%
Total	336,149	21,812,198,089	21,983,224,926	21,990,517,780	96%	0.78%	0.82%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 12C Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	10-YEAR PERIOD ENDING 6/30/2013 Increase %		
					Actual / Expected (5)	Actual (4) / (3) (6)	Expected (5) / (3) (7)
2004	35,446	\$ 1,988,770,100	\$ 2,066,976,933	\$ 2,079,015,418	87%	3.93%	4.54%
2005	35,442	2,055,149,348	2,143,444,637	2,143,518,741	100%	4.30%	4.30%
2006	33,589	2,026,407,112	2,111,965,737	2,109,795,957	103%	4.22%	4.12%
2007	34,283	2,118,415,921	2,209,105,327	2,209,066,774	100%	4.28%	4.28%
2008	34,829	2,210,640,615	2,346,161,702	2,309,108,139	138%	6.13%	4.45%
2009	35,788	2,371,492,134	2,435,777,069	2,481,373,779	59%	2.71%	4.63%
2010	34,573	2,347,039,341	2,454,448,062	2,450,702,949	104%	4.58%	4.42%
2011	33,367	2,357,446,081	2,491,079,850	2,455,287,985	137%	5.67%	4.15%
2012	32,624	2,414,687,089	2,459,715,086	2,512,590,552	46%	1.86%	4.05%
2013	32,215	2,397,247,073	2,431,542,334	2,495,209,530	35%	1.43%	4.09%
Total	342,156	22,287,294,814	23,150,216,737	23,245,669,824	90%	3.87%	4.30%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1,024	\$ 52,806,156	\$ 1,060,085	\$ 4,224,493	25%	2.01%	8.00%
1	3,228	164,349,015	11,714,957	13,147,921	89%	7.13%	8.00%
2	4,527	244,907,006	17,725,022	19,592,560	90%	7.24%	8.00%
3	5,418	316,790,429	23,959,677	25,343,234	95%	7.56%	8.00%
4	5,838	364,843,808	28,754,757	29,187,505	99%	7.88%	8.00%
5	5,090	322,629,369	27,717,577	25,810,350	107%	8.59%	8.00%
6	4,042	258,300,163	23,709,490	20,664,013	115%	9.18%	8.00%
7	3,534	227,791,115	21,262,274	18,223,289	117%	9.33%	8.00%
8	4,328	276,937,946	23,532,964	22,155,036	106%	8.50%	8.00%
9	5,172	332,618,938	28,838,502	26,609,515	108%	8.67%	8.00%
10	6,678	429,250,290	37,582,864	34,340,023	109%	8.76%	8.00%
11	7,029	459,127,076	40,721,475	36,730,166	111%	8.87%	8.00%
12	6,230	409,551,155	38,605,762	32,764,092	118%	9.43%	8.00%
13	5,195	346,559,665	31,907,169	27,724,773	115%	9.21%	8.00%
14	3,569	241,092,003	20,914,684	19,287,360	108%	8.67%	8.00%
15	3,254	217,920,196	18,979,197	17,433,616	109%	8.71%	8.00%
16	3,382	226,935,366	21,286,692	18,154,829	117%	9.38%	8.00%
17	4,014	271,782,192	28,773,262	21,742,575	132%	10.59%	8.00%
18	4,345	298,340,658	33,277,546	23,867,253	139%	11.15%	8.00%
19	4,457	306,680,056	33,825,738	24,534,405	138%	11.03%	8.00%
20	4,549	312,517,750	33,315,065	25,001,420	133%	10.66%	8.00%
21	4,973	341,701,088	33,950,178	27,336,087	124%	9.94%	8.00%
22	5,182	360,940,276	34,961,951	28,875,222	121%	9.69%	8.00%
23	4,878	345,592,494	31,970,369	27,647,399	116%	9.25%	8.00%
24	4,677	333,491,164	32,173,811	26,679,293	121%	9.65%	8.00%
25	3,486	250,151,673	24,855,052	20,012,134	124%	9.94%	8.00%
26	2,939	213,663,193	21,084,795	17,093,055	123%	9.87%	8.00%
27	2,716	199,119,307	20,066,575	15,929,545	126%	10.08%	8.00%
28	2,445	181,244,128	17,370,845	14,499,530	120%	9.58%	8.00%
29	2,084	156,630,621	14,273,217	12,530,450	114%	9.11%	8.00%
30	1,633	124,076,632	12,082,169	9,926,131	122%	9.74%	8.00%
31	1,147	89,186,364	8,566,166	7,134,909	120%	9.60%	8.00%
32	645	50,697,004	5,216,598	4,055,760	129%	10.29%	8.00%
33	321	25,416,175	2,651,473	2,033,294	130%	10.43%	8.00%
34	145	11,683,256	1,250,309	934,660	134%	10.70%	8.00%
35	100	7,604,608	956,215	608,369	157%	12.57%	8.00%
36	101	7,610,194	788,553	608,816	130%	10.36%	8.00%
37	79	6,084,935	478,405	486,795	98%	7.86%	8.00%
38	78	6,074,403	342,764	485,952	71%	5.64%	8.00%
39	82	6,242,410	322,862	499,393	65%	5.17%	8.00%
40	49	3,649,864	177,576	291,989	61%	4.87%	8.00%
41	38	3,010,595	88,096	240,848	37%	2.93%	8.00%
42	28	2,139,907	63,309	171,193	37%	2.96%	8.00%
43	16	1,160,481	19,620	92,839	21%	1.69%	8.00%
44	12	906,771	4,953	72,542	7%	0.55%	8.00%
45	10	786,139	13,637	62,891	22%	1.73%	8.00%
Total	132,767	8,810,594,035	811,194,257	704,847,523	115%	9.21%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1,024	\$ 52,806,156	\$ 1,060,085	\$ 4,224,493	25%	2.01%	8.00%
1	3,228	164,349,015	11,714,957	13,147,921	89%	7.13%	8.00%
2	4,527	244,907,006	17,725,022	19,592,560	90%	7.24%	8.00%
3	5,418	316,790,429	23,959,677	25,343,234	95%	7.56%	8.00%
4	5,838	364,843,808	28,754,757	29,187,505	99%	7.88%	8.00%
5	5,090	322,629,369	27,717,577	25,810,350	107%	8.59%	8.00%
6	4,042	258,300,163	23,709,490	20,664,013	115%	9.18%	8.00%
7	3,534	227,791,115	21,262,274	18,223,289	117%	9.33%	8.00%
8	4,328	276,937,946	23,532,964	22,155,036	106%	8.50%	8.00%
9	5,172	332,618,938	28,838,502	26,609,515	108%	8.67%	8.00%
10	6,678	429,250,290	37,582,864	34,340,023	109%	8.76%	8.00%
11	7,029	459,127,076	40,721,475	36,730,166	111%	8.87%	8.00%
12	6,230	409,551,155	38,605,762	32,764,092	118%	9.43%	8.00%
13	5,195	346,559,665	31,907,169	27,724,773	115%	9.21%	8.00%
14	3,569	241,092,003	20,914,684	19,287,360	108%	8.67%	8.00%
15	3,254	217,920,196	18,979,197	17,433,616	109%	8.71%	8.00%
16	3,382	226,935,366	21,286,692	18,154,829	117%	9.38%	8.00%
17	4,014	271,782,192	28,773,262	21,742,575	132%	10.59%	8.00%
18	4,345	298,340,658	33,277,546	23,867,253	139%	11.15%	8.00%
19	4,457	306,680,056	33,825,738	24,534,405	138%	11.03%	8.00%
20	4,549	312,517,750	33,315,065	25,001,420	133%	10.66%	8.00%
21	4,973	341,701,088	33,950,178	27,336,087	124%	9.94%	8.00%
22	5,182	360,940,276	34,961,951	28,875,222	121%	9.69%	8.00%
23	4,878	345,592,494	31,970,369	27,647,399	116%	9.25%	8.00%
24	4,677	333,491,164	32,173,811	26,679,293	121%	9.65%	8.00%
25	3,486	250,151,673	24,855,052	20,012,134	124%	9.94%	8.00%
26	2,939	213,663,193	21,084,795	17,093,055	123%	9.87%	8.00%
27	2,716	199,119,307	20,066,575	15,929,545	126%	10.08%	8.00%
28	2,445	181,244,128	17,370,845	14,499,530	120%	9.58%	8.00%
29	2,084	156,630,621	14,273,217	12,530,450	114%	9.11%	8.00%
30	1,633	124,076,632	12,082,169	9,926,131	122%	9.74%	8.00%
31	1,147	89,186,364	8,566,166	7,134,909	120%	9.60%	8.00%
32	645	50,697,004	5,216,598	4,055,760	129%	10.29%	8.00%
33	321	25,416,175	2,651,473	2,033,294	130%	10.43%	8.00%
34	145	11,683,256	1,250,309	934,660	134%	10.70%	8.00%
35	100	7,604,608	956,215	608,369	157%	12.57%	8.00%
36	101	7,610,194	788,553	608,816	130%	10.36%	8.00%
37	79	6,084,935	478,405	486,795	98%	7.86%	8.00%
38	78	6,074,403	342,764	485,952	71%	5.64%	8.00%
39	82	6,242,410	322,862	499,393	65%	5.17%	8.00%
40	49	3,649,864	177,576	291,989	61%	4.87%	8.00%
41	38	3,010,595	88,096	240,848	37%	2.93%	8.00%
42	28	2,139,907	63,309	171,193	37%	2.96%	8.00%
43	16	1,160,481	19,620	92,839	21%	1.69%	8.00%
44	12	906,771	4,953	72,542	7%	0.55%	8.00%
45	10	786,139	13,637	62,891	22%	1.73%	8.00%
Total	132,767	8,810,594,035	811,194,257	704,847,523	115%	9.21%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-		0.00%	8.00%
1	0	-	-	-		0.00%	8.00%
2	0	-	-	-		0.00%	8.00%
3	1	\$ 76,396	\$ 3,762	\$ 6,112	62%	4.92%	8.00%
4	4	249,681	5,487	19,974	27%	2.20%	8.00%
5	9	543,947	33,772	43,516	78%	6.21%	8.00%
6	7	499,201	27,289	39,936	68%	5.47%	8.00%
7	8	497,874	33,772	39,830	85%	6.78%	8.00%
8	8	522,211	11,675	41,777	28%	2.24%	8.00%
9	14	862,462	47,083	68,997	68%	5.46%	8.00%
10	45	2,938,458	105,639	235,077	45%	3.60%	8.00%
11	54	3,469,292	188,008	277,543	68%	5.42%	8.00%
12	52	3,352,120	120,271	268,170	45%	3.59%	8.00%
13	52	3,540,754	167,713	283,260	59%	4.74%	8.00%
14	45	3,071,568	135,879	245,725	55%	4.42%	8.00%
15	29	1,903,114	72,314	152,249	47%	3.80%	8.00%
16	46	3,036,312	179,150	242,905	74%	5.90%	8.00%
17	39	2,529,196	139,225	202,336	69%	5.50%	8.00%
18	39	2,733,331	189,674	218,667	87%	6.94%	8.00%
19	63	4,245,215	420,628	339,617	124%	9.91%	8.00%
20	141	9,251,581	547,411	740,126	74%	5.92%	8.00%
21	140	9,448,464	733,880	755,877	97%	7.77%	8.00%
22	127	8,487,938	624,374	679,035	92%	7.36%	8.00%
23	149	10,407,428	637,701	832,594	77%	6.13%	8.00%
24	203	14,458,627	1,060,407	1,156,690	92%	7.33%	8.00%
25	497	35,166,429	2,968,843	2,813,314	106%	8.44%	8.00%
26	336	23,579,895	2,034,895	1,886,392	108%	8.63%	8.00%
27	304	21,915,432	1,560,260	1,753,235	89%	7.12%	8.00%
28	268	19,319,481	1,626,332	1,545,559	105%	8.42%	8.00%
29	303	22,241,369	1,758,894	1,779,310	99%	7.91%	8.00%
30	362	27,203,877	2,278,928	2,176,310	105%	8.38%	8.00%
31	275	21,116,332	1,723,081	1,689,307	102%	8.16%	8.00%
32	175	13,897,212	1,112,346	1,111,777	100%	8.00%	8.00%
33	99	7,755,077	672,453	620,406	108%	8.67%	8.00%
34	62	4,893,471	453,476	391,478	116%	9.27%	8.00%
35	43	3,536,221	262,279	282,898	93%	7.42%	8.00%
36	29	2,061,264	368,420	164,901	223%	17.87%	8.00%
37	30	2,420,876	216,629	193,670	112%	8.95%	8.00%
38	19	1,646,169	51,942	131,693	39%	3.16%	8.00%
39	26	2,233,077	79,227	178,646	44%	3.55%	8.00%
40	22	1,833,121	135,636	146,650	92%	7.40%	8.00%
41	15	1,075,622	28,078	86,050	33%	2.61%	8.00%
42	8	587,883	11,236	47,031	24%	1.91%	8.00%
43	7	664,981	2,069	53,198	4%	0.31%	8.00%
44	3	186,591	1,104	14,927	7%	0.59%	8.00%
45	1	83,997	388	6,720	6%	0.46%	8.00%
Total	4,159	299,543,548	22,831,630	23,963,484	95%	7.62%	8.00%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-		0.00%	8.00%
1	0	-	-	-		0.00%	8.00%
2	0	-	-	-		0.00%	8.00%
3	1	\$ 76,396	\$ 3,762	\$ 6,112	62%	4.92%	8.00%
4	4	249,681	5,487	19,974	27%	2.20%	8.00%
5	9	543,947	33,772	43,516	78%	6.21%	8.00%
6	7	499,201	27,289	39,936	68%	5.47%	8.00%
7	8	497,874	33,772	39,830	85%	6.78%	8.00%
8	8	522,211	11,675	41,777	28%	2.24%	8.00%
9	14	862,462	47,083	68,997	68%	5.46%	8.00%
10	45	2,938,458	105,639	235,077	45%	3.60%	8.00%
11	54	3,469,292	188,008	277,543	68%	5.42%	8.00%
12	52	3,352,120	120,271	268,170	45%	3.59%	8.00%
13	52	3,540,754	167,713	283,260	59%	4.74%	8.00%
14	45	3,071,568	135,879	245,725	55%	4.42%	8.00%
15	29	1,903,114	72,314	152,249	47%	3.80%	8.00%
16	46	3,036,312	179,150	242,905	74%	5.90%	8.00%
17	39	2,529,196	139,225	202,336	69%	5.50%	8.00%
18	39	2,733,331	189,674	218,667	87%	6.94%	8.00%
19	63	4,245,215	420,628	339,617	124%	9.91%	8.00%
20	141	9,251,581	547,411	740,126	74%	5.92%	8.00%
21	140	9,448,464	733,880	755,877	97%	7.77%	8.00%
22	127	8,487,938	624,374	679,035	92%	7.36%	8.00%
23	149	10,407,428	637,701	832,594	77%	6.13%	8.00%
24	203	14,458,627	1,060,407	1,156,690	92%	7.33%	8.00%
25	497	35,166,429	2,968,843	2,813,314	106%	8.44%	8.00%
26	336	23,579,895	2,034,895	1,886,392	108%	8.63%	8.00%
27	304	21,915,432	1,560,260	1,753,235	89%	7.12%	8.00%
28	268	19,319,481	1,626,332	1,545,559	105%	8.42%	8.00%
29	303	22,241,369	1,758,894	1,779,310	99%	7.91%	8.00%
30	362	27,203,877	2,278,928	2,176,310	105%	8.38%	8.00%
31	275	21,116,332	1,723,081	1,689,307	102%	8.16%	8.00%
32	175	13,897,212	1,112,346	1,111,777	100%	8.00%	8.00%
33	99	7,755,077	672,453	620,406	108%	8.67%	8.00%
34	62	4,893,471	453,476	391,478	116%	9.27%	8.00%
35	43	3,536,221	262,279	282,898	93%	7.42%	8.00%
36	29	2,061,264	368,420	164,901	223%	17.87%	8.00%
37	30	2,420,876	216,629	193,670	112%	8.95%	8.00%
38	19	1,646,169	51,942	131,693	39%	3.16%	8.00%
39	26	2,233,077	79,227	178,646	44%	3.55%	8.00%
40	22	1,833,121	135,636	146,650	92%	7.40%	8.00%
41	15	1,075,622	28,078	86,050	33%	2.61%	8.00%
42	8	587,883	11,236	47,031	24%	1.91%	8.00%
43	7	664,981	2,069	53,198	4%	0.31%	8.00%
44	3	186,591	1,104	14,927	7%	0.59%	8.00%
45	1	83,997	388	6,720	6%	0.46%	8.00%
Total	4,159	299,543,548	22,831,630	23,963,484	95%	7.62%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Salary during the Year</u>	<u>Actual Overtime</u>	<u>Expected Overtime</u>	<u>Actual / Expected</u>	<u>Increase %</u>		
						<u>(1)</u>	<u>(2)</u>	<u>(3)</u>
0	0	-	-	-	-			8.00%
1	0	-	-	-	-			8.00%
2	1	\$ 70,912	\$ 4,222	\$ 5,673	74%		5.95%	8.00%
3	3	142,119	11,415	11,370	100%		8.03%	8.00%
4	3	187,564	25,431	15,005	169%		13.56%	8.00%
5	0	-	-	-	-			8.00%
6	3	184,386	1,669	14,751	11%		0.91%	8.00%
7	6	314,215	4,088	25,137	16%		1.30%	8.00%
8	3	177,097	16,890	14,168	119%		9.54%	8.00%
9	18	1,090,124	28,356	87,210	33%		2.60%	8.00%
10	30	1,685,193	99,619	134,815	74%		5.91%	8.00%
11	30	1,661,068	137,782	132,885	104%		8.29%	8.00%
12	33	1,782,543	45,358	142,603	32%		2.54%	8.00%
13	25	1,389,731	73,667	111,178	66%		5.30%	8.00%
14	19	1,058,397	77,296	84,672	91%		7.30%	8.00%
15	23	1,108,326	55,626	88,666	63%		5.02%	8.00%
16	20	1,223,633	50,208	97,891	51%		4.10%	8.00%
17	26	1,497,209	105,107	119,777	88%		7.02%	8.00%
18	13	798,397	23,937	63,872	37%		3.00%	8.00%
19	30	1,945,881	93,233	155,670	60%		4.79%	8.00%
20	31	1,774,369	80,186	141,950	56%		4.52%	8.00%
21	35	2,087,631	155,437	167,011	93%		7.45%	8.00%
22	37	2,227,787	116,902	178,223	66%		5.25%	8.00%
23	24	1,350,231	39,316	108,018	36%		2.91%	8.00%
24	16	947,654	28,309	75,812	37%		2.99%	8.00%
25	17	882,706	14,981	70,616	21%		1.70%	8.00%
26	15	919,030	43,099	73,522	59%		4.69%	8.00%
27	10	700,534	74,311	56,043	133%		10.61%	8.00%
28	3	229,138	39,895	18,331	218%		17.41%	8.00%
29	2	172,658	7,850	13,813	57%		4.55%	8.00%
30	4	228,109	17,674	18,249	97%		7.75%	8.00%
31	1	64,093	449	5,127	9%		0.70%	8.00%
32	0	-	-	-	-			8.00%
33	2	112,858	-	9,029				8.00%
34	2	108,642	2,066	8,691	24%		1.90%	8.00%
35	1	61,427	1,694	4,914	34%		2.76%	8.00%
36	0	-	-	-	-			8.00%
37	0	-	-	-	-			8.00%
38	0	-	-	-	-			8.00%
39	0	-	-	-	-			8.00%
40	0	-	-	-	-			8.00%
41	0	-	-	-	-			8.00%
42	0	-	-	-	-			8.00%
43	0	-	-	-	-			8.00%
44	0	-	-	-	-			8.00%
45	0	-	-	-	-			8.00%
<b>Total</b>	<b>486</b>	<b>28,183,661</b>	<b>1,476,073</b>	<b>2,254,693</b>	<b>65%</b>		<b>5.24%</b>	<b>8.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Salary during the Year</u>	<u>Actual Overtime</u>	<u>Proposed Overtime</u>	<u>Actual / Proposed</u>	<u>Increase %</u>		
						<u>(1)</u>	<u>(2)</u>	<u>(3)</u>
0	0	-	-	-				8.00%
1	0	-	-	-				8.00%
2	1	\$ 70,912	\$ 4,222	\$ 5,673	74%	5.95%		8.00%
3	3	142,119	11,415	11,370	100%	8.03%		8.00%
4	3	187,564	25,431	15,005	169%	13.56%		8.00%
5	0	-	-	-				8.00%
6	3	184,386	1,669	14,751	11%	0.91%		8.00%
7	6	314,215	4,088	25,137	16%	1.30%		8.00%
8	3	177,097	16,890	14,168	119%	9.54%		8.00%
9	18	1,090,124	28,356	87,210	33%	2.60%		8.00%
10	30	1,685,193	99,619	134,815	74%	5.91%		8.00%
11	30	1,661,068	137,782	132,885	104%	8.29%		8.00%
12	33	1,782,543	45,358	142,603	32%	2.54%		8.00%
13	25	1,389,731	73,667	111,178	66%	5.30%		8.00%
14	19	1,058,397	77,296	84,672	91%	7.30%		8.00%
15	23	1,108,326	55,626	88,666	63%	5.02%		8.00%
16	20	1,223,633	50,208	97,891	51%	4.10%		8.00%
17	26	1,497,209	105,107	119,777	88%	7.02%		8.00%
18	13	798,397	23,937	63,872	37%	3.00%		8.00%
19	30	1,945,881	93,233	155,670	60%	4.79%		8.00%
20	31	1,774,369	80,186	141,950	56%	4.52%		8.00%
21	35	2,087,631	155,437	167,011	93%	7.45%		8.00%
22	37	2,227,787	116,902	178,223	66%	5.25%		8.00%
23	24	1,350,231	39,316	108,018	36%	2.91%		8.00%
24	16	947,654	28,309	75,812	37%	2.99%		8.00%
25	17	882,706	14,981	70,616	21%	1.70%		8.00%
26	15	919,030	43,099	73,522	59%	4.69%		8.00%
27	10	700,534	74,311	56,043	133%	10.61%		8.00%
28	3	229,138	39,895	18,331	218%	17.41%		8.00%
29	2	172,658	7,850	13,813	57%	4.55%		8.00%
30	4	228,109	17,674	18,249	97%	7.75%		8.00%
31	1	64,093	449	5,127	9%	0.70%		8.00%
32	0	-	-	-				8.00%
33	2	112,858	-	9,029				8.00%
34	2	108,642	2,066	8,691	24%	1.90%		8.00%
35	1	61,427	1,694	4,914	34%	2.76%		8.00%
36	0	-	-	-				8.00%
37	0	-	-	-				8.00%
38	0	-	-	-				8.00%
39	0	-	-	-				8.00%
40	0	-	-	-				8.00%
41	0	-	-	-				8.00%
42	0	-	-	-				8.00%
43	0	-	-	-				8.00%
44	0	-	-	-				8.00%
45	0	-	-	-				8.00%
<b>Total</b>	<b>486</b>	<b>28,183,661</b>	<b>1,476,073</b>	<b>2,254,693</b>	<b>65%</b>	<b>5.24%</b>		<b>8.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	5,078	\$ 212,276,254	\$ 4,561,871	\$ 16,982,100	27%	2.15%	8.00%
1	10,916	498,667,031	32,710,215	39,893,363	82%	6.56%	8.00%
2	12,217	597,885,467	42,686,689	47,830,837	89%	7.14%	8.00%
3	13,345	713,815,653	56,722,154	57,105,252	99%	7.95%	8.00%
4	15,096	848,394,716	66,875,703	67,871,577	99%	7.88%	8.00%
5	15,281	865,340,301	68,930,017	69,227,224	100%	7.97%	8.00%
6	14,450	819,636,844	61,621,422	65,570,947	94%	7.52%	8.00%
7	13,505	778,713,421	59,904,562	62,297,074	96%	7.69%	8.00%
8	12,593	738,310,122	51,091,617	59,064,810	87%	6.92%	8.00%
9	12,957	771,316,808	60,510,572	61,705,345	98%	7.85%	8.00%
10	13,315	800,029,351	65,735,091	64,002,348	103%	8.22%	8.00%
11	13,551	821,107,039	73,015,802	65,688,563	111%	8.89%	8.00%
12	12,519	760,241,351	70,630,349	60,819,308	116%	9.29%	8.00%
13	12,050	732,128,229	64,941,519	58,570,258	111%	8.87%	8.00%
14	11,480	689,876,798	59,410,586	55,190,144	108%	8.61%	8.00%
15	12,004	716,444,669	61,442,153	57,315,574	107%	8.58%	8.00%
16	12,149	731,542,449	64,487,123	58,523,396	110%	8.82%	8.00%
17	12,327	754,624,354	66,251,441	60,369,948	110%	8.78%	8.00%
18	13,129	814,289,569	73,767,630	65,143,166	113%	9.06%	8.00%
19	12,899	809,702,490	69,694,390	64,776,199	108%	8.61%	8.00%
20	12,256	779,432,127	68,581,394	62,354,570	110%	8.80%	8.00%
21	11,807	756,982,640	66,173,166	60,558,611	109%	8.74%	8.00%
22	11,830	767,673,181	62,272,038	61,413,854	101%	8.11%	8.00%
23	11,267	743,290,383	61,392,302	59,463,231	103%	8.26%	8.00%
24	10,164	678,744,487	57,997,378	54,299,559	107%	8.54%	8.00%
25	7,970	539,238,199	45,583,511	43,139,056	106%	8.45%	8.00%
26	6,520	450,463,994	36,939,514	36,037,120	103%	8.20%	8.00%
27	5,262	371,794,918	32,468,452	29,743,593	109%	8.73%	8.00%
28	4,035	291,066,834	24,705,631	23,285,347	106%	8.49%	8.00%
29	3,240	235,425,343	20,571,514	18,834,027	109%	8.74%	8.00%
30	2,500	182,139,052	16,923,098	14,571,124	116%	9.29%	8.00%
31	1,761	130,114,756	11,750,561	10,409,181	113%	9.03%	8.00%
32	1,134	83,195,956	7,558,294	6,655,677	114%	9.08%	8.00%
33	824	59,692,571	4,580,215	4,775,406	96%	7.67%	8.00%
34	594	42,875,689	2,762,441	3,430,055	81%	6.44%	8.00%
35	442	31,609,378	2,283,919	2,528,750	90%	7.23%	8.00%
36	333	24,027,740	1,454,247	1,922,219	76%	6.05%	8.00%
37	269	19,610,539	854,159	1,568,843	54%	4.36%	8.00%
38	215	15,894,357	675,763	1,271,549	53%	4.25%	8.00%
39	149	10,980,313	459,065	878,425	52%	4.18%	8.00%
40	86	6,219,632	225,799	497,571	45%	3.63%	8.00%
41	67	5,214,155	157,663	417,132	38%	3.02%	8.00%
42	47	3,637,286	111,287	290,983	38%	3.06%	8.00%
43	28	2,110,011	28,658	168,801	17%	1.36%	8.00%
44	18	1,494,430	29,667	119,554	25%	1.99%	8.00%
45	12	1,009,045	13,637	80,724	17%	1.35%	8.00%
Total	343,691	20,708,279,932	1,701,544,279	1,656,662,395	103%	8.22%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	5,078	\$ 212,276,254	\$ 4,561,871	\$ 16,982,100	27%	2.15%	8.00%
1	10,916	498,667,031	32,710,215	39,893,363	82%	6.56%	8.00%
2	12,217	597,885,467	42,686,689	47,830,837	89%	7.14%	8.00%
3	13,345	713,815,653	56,722,154	57,105,252	99%	7.95%	8.00%
4	15,096	848,394,716	66,875,703	67,871,577	99%	7.88%	8.00%
5	15,281	865,340,301	68,930,017	69,227,224	100%	7.97%	8.00%
6	14,450	819,636,844	61,621,422	65,570,947	94%	7.52%	8.00%
7	13,505	778,713,421	59,904,562	62,297,074	96%	7.69%	8.00%
8	12,593	738,310,122	51,091,617	59,064,810	87%	6.92%	8.00%
9	12,957	771,316,808	60,510,572	61,705,345	98%	7.85%	8.00%
10	13,315	800,029,351	65,735,091	64,002,348	103%	8.22%	8.00%
11	13,551	821,107,039	73,015,802	65,688,563	111%	8.89%	8.00%
12	12,519	760,241,351	70,630,349	60,819,308	116%	9.29%	8.00%
13	12,050	732,128,229	64,941,519	58,570,258	111%	8.87%	8.00%
14	11,480	689,876,798	59,410,586	55,190,144	108%	8.61%	8.00%
15	12,004	716,444,669	61,442,153	57,315,574	107%	8.58%	8.00%
16	12,149	731,542,449	64,487,123	58,523,396	110%	8.82%	8.00%
17	12,327	754,624,354	66,251,441	60,369,948	110%	8.78%	8.00%
18	13,129	814,289,569	73,767,630	65,143,166	113%	9.06%	8.00%
19	12,899	809,702,490	69,694,390	64,776,199	108%	8.61%	8.00%
20	12,256	779,432,127	68,581,394	62,354,570	110%	8.80%	8.00%
21	11,807	756,982,640	66,173,166	60,558,611	109%	8.74%	8.00%
22	11,830	767,673,181	62,272,038	61,413,854	101%	8.11%	8.00%
23	11,267	743,290,383	61,392,302	59,463,231	103%	8.26%	8.00%
24	10,164	678,744,487	57,997,378	54,299,559	107%	8.54%	8.00%
25	7,970	539,238,199	45,583,511	43,139,056	106%	8.45%	8.00%
26	6,520	450,463,994	36,939,514	36,037,120	103%	8.20%	8.00%
27	5,262	371,794,918	32,468,452	29,743,593	109%	8.73%	8.00%
28	4,035	291,066,834	24,705,631	23,285,347	106%	8.49%	8.00%
29	3,240	235,425,343	20,571,514	18,834,027	109%	8.74%	8.00%
30	2,500	182,139,052	16,923,098	14,571,124	116%	9.29%	8.00%
31	1,761	130,114,756	11,750,561	10,409,181	113%	9.03%	8.00%
32	1,134	83,195,956	7,558,294	6,655,677	114%	9.08%	8.00%
33	824	59,692,571	4,580,215	4,775,406	96%	7.67%	8.00%
34	594	42,875,689	2,762,441	3,430,055	81%	6.44%	8.00%
35	442	31,609,378	2,283,919	2,528,750	90%	7.23%	8.00%
36	333	24,027,740	1,454,247	1,922,219	76%	6.05%	8.00%
37	269	19,610,539	854,159	1,568,843	54%	4.36%	8.00%
38	215	15,894,357	675,763	1,271,549	53%	4.25%	8.00%
39	149	10,980,313	459,065	878,425	52%	4.18%	8.00%
40	86	6,219,632	225,799	497,571	45%	3.63%	8.00%
41	67	5,214,155	157,663	417,132	38%	3.02%	8.00%
42	47	3,637,286	111,287	290,983	38%	3.06%	8.00%
43	28	2,110,011	28,658	168,801	17%	1.36%	8.00%
44	18	1,494,430	29,667	119,554	25%	1.99%	8.00%
45	12	1,009,045	13,637	80,724	17%	1.35%	8.00%
Total	343,691	20,708,279,932	1,701,544,279	1,656,662,395	103%	8.22%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1	\$ 56,993	\$ 66	\$ 4,559	1%	0.12%	8.00%
1	2	184,158	40,865	14,733	277%	22.19%	8.00%
2	1	72,704	10,839	5,816	186%	14.91%	8.00%
3	2	117,531	7,310	9,402	78%	6.22%	8.00%
4	17	920,769	30,495	73,662	41%	3.31%	8.00%
5	25	1,503,852	47,863	120,308	40%	3.18%	8.00%
6	34	2,171,792	50,655	173,743	29%	2.33%	8.00%
7	29	1,959,695	51,009	156,776	33%	2.60%	8.00%
8	28	1,605,986	51,883	128,479	40%	3.23%	8.00%
9	50	3,005,815	135,377	240,465	56%	4.50%	8.00%
10	99	6,099,948	219,387	487,996	45%	3.60%	8.00%
11	100	6,074,683	406,210	485,975	84%	6.69%	8.00%
12	95	6,131,499	272,304	490,520	56%	4.44%	8.00%
13	117	7,415,648	334,269	593,252	56%	4.51%	8.00%
14	116	7,202,195	300,592	576,176	52%	4.17%	8.00%
15	92	5,460,906	293,948	436,872	67%	5.38%	8.00%
16	121	7,549,276	455,497	603,942	75%	6.03%	8.00%
17	123	7,179,422	431,180	574,354	75%	6.01%	8.00%
18	141	8,465,699	481,537	677,256	71%	5.69%	8.00%
19	160	9,824,125	792,814	785,930	101%	8.07%	8.00%
20	360	22,398,648	1,175,913	1,791,892	66%	5.25%	8.00%
21	287	18,242,274	1,245,711	1,459,382	85%	6.83%	8.00%
22	303	18,978,419	1,205,155	1,518,273	79%	6.35%	8.00%
23	384	24,210,030	1,330,071	1,936,802	69%	5.49%	8.00%
24	520	34,218,261	2,369,196	2,737,461	87%	6.92%	8.00%
25	1,079	71,215,681	5,160,591	5,697,254	91%	7.25%	8.00%
26	699	46,446,890	3,500,530	3,715,751	94%	7.54%	8.00%
27	589	40,403,971	2,696,461	3,232,318	83%	6.67%	8.00%
28	475	32,896,047	2,298,501	2,631,684	87%	6.99%	8.00%
29	508	35,747,065	2,897,262	2,859,765	101%	8.10%	8.00%
30	560	39,989,723	3,469,784	3,199,178	108%	8.68%	8.00%
31	412	29,849,057	2,664,913	2,387,925	112%	8.93%	8.00%
32	321	23,551,573	1,994,851	1,884,126	106%	8.47%	8.00%
33	273	19,257,612	1,680,231	1,540,609	109%	8.73%	8.00%
34	199	14,044,064	1,095,465	1,123,525	98%	7.80%	8.00%
35	153	11,076,038	711,941	886,083	80%	6.43%	8.00%
36	105	7,386,213	806,085	590,897	136%	10.91%	8.00%
37	77	5,911,485	325,491	472,919	69%	5.51%	8.00%
38	57	4,485,129	311,200	358,810	87%	6.94%	8.00%
39	59	4,503,228	115,750	360,258	32%	2.57%	8.00%
40	46	3,486,088	220,032	278,887	79%	6.31%	8.00%
41	27	1,912,491	63,333	152,999	41%	3.31%	8.00%
42	13	968,087	29,844	77,447	39%	3.08%	8.00%
43	10	962,056	8,003	76,964	10%	0.83%	8.00%
44	7	427,801	2,028	34,224	6%	0.47%	8.00%
45	3	328,924	388	26,314	1%	0.12%	8.00%
Total	8,879	595,899,550	41,792,830	47,671,964	88%	7.01%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1	\$ 56,993	\$ 66	\$ 4,559	1%	0.12%	8.00%
1	2	184,158	40,865	14,733	277%	22.19%	8.00%
2	1	72,704	10,839	5,816	186%	14.91%	8.00%
3	2	117,531	7,310	9,402	78%	6.22%	8.00%
4	17	920,769	30,495	73,662	41%	3.31%	8.00%
5	25	1,503,852	47,863	120,308	40%	3.18%	8.00%
6	34	2,171,792	50,655	173,743	29%	2.33%	8.00%
7	29	1,959,695	51,009	156,776	33%	2.60%	8.00%
8	28	1,605,986	51,883	128,479	40%	3.23%	8.00%
9	50	3,005,815	135,377	240,465	56%	4.50%	8.00%
10	99	6,099,948	219,387	487,996	45%	3.60%	8.00%
11	100	6,074,683	406,210	485,975	84%	6.69%	8.00%
12	95	6,131,499	272,304	490,520	56%	4.44%	8.00%
13	117	7,415,648	334,269	593,252	56%	4.51%	8.00%
14	116	7,202,195	300,592	576,176	52%	4.17%	8.00%
15	92	5,460,906	293,948	436,872	67%	5.38%	8.00%
16	121	7,549,276	455,497	603,942	75%	6.03%	8.00%
17	123	7,179,422	431,180	574,354	75%	6.01%	8.00%
18	141	8,465,699	481,537	677,256	71%	5.69%	8.00%
19	160	9,824,125	792,814	785,930	101%	8.07%	8.00%
20	360	22,398,648	1,175,913	1,791,892	66%	5.25%	8.00%
21	287	18,242,274	1,245,711	1,459,382	85%	6.83%	8.00%
22	303	18,978,419	1,205,155	1,518,273	79%	6.35%	8.00%
23	384	24,210,030	1,330,071	1,936,802	69%	5.49%	8.00%
24	520	34,218,261	2,369,196	2,737,461	87%	6.92%	8.00%
25	1,079	71,215,681	5,160,591	5,697,254	91%	7.25%	8.00%
26	699	46,446,890	3,500,530	3,715,751	94%	7.54%	8.00%
27	589	40,403,971	2,696,461	3,232,318	83%	6.67%	8.00%
28	475	32,896,047	2,298,501	2,631,684	87%	6.99%	8.00%
29	508	35,747,065	2,897,262	2,859,765	101%	8.10%	8.00%
30	560	39,989,723	3,469,784	3,199,178	108%	8.68%	8.00%
31	412	29,849,057	2,664,913	2,387,925	112%	8.93%	8.00%
32	321	23,551,573	1,994,851	1,884,126	106%	8.47%	8.00%
33	273	19,257,612	1,680,231	1,540,609	109%	8.73%	8.00%
34	199	14,044,064	1,095,465	1,123,525	98%	7.80%	8.00%
35	153	11,076,038	711,941	886,083	80%	6.43%	8.00%
36	105	7,386,213	806,085	590,897	136%	10.91%	8.00%
37	77	5,911,485	325,491	472,919	69%	5.51%	8.00%
38	57	4,485,129	311,200	358,810	87%	6.94%	8.00%
39	59	4,503,228	115,750	360,258	32%	2.57%	8.00%
40	46	3,486,088	220,032	278,887	79%	6.31%	8.00%
41	27	1,912,491	63,333	152,999	41%	3.31%	8.00%
42	13	968,087	29,844	77,447	39%	3.08%	8.00%
43	10	962,056	8,003	76,964	10%	0.83%	8.00%
44	7	427,801	2,028	34,224	6%	0.47%	8.00%
45	3	328,924	388	26,314	1%	0.12%	8.00%
Total	8,879	595,899,550	41,792,830	47,671,964	88%	7.01%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			8.00%
1	0	-	-	-			8.00%
2	3	\$ 143,907	\$ 6,059	\$ 11,513	53%	4.21%	8.00%
3	6	268,617	19,033	21,489	89%	7.09%	8.00%
4	6	308,343	28,332	24,667	115%	9.19%	8.00%
5	7	398,357	4,597	31,869	14%	1.15%	8.00%
6	10	556,847	12,166	44,548	27%	2.18%	8.00%
7	11	580,881	29,393	46,471	63%	5.06%	8.00%
8	17	968,736	79,797	77,499	103%	8.24%	8.00%
9	34	1,964,941	52,885	157,195	34%	2.69%	8.00%
10	56	3,098,601	162,297	247,888	65%	5.24%	8.00%
11	51	2,755,005	210,050	220,400	95%	7.62%	8.00%
12	66	3,346,128	94,146	267,690	35%	2.81%	8.00%
13	61	3,289,833	189,893	263,187	72%	5.77%	8.00%
14	53	2,627,302	169,106	210,184	80%	6.44%	8.00%
15	63	3,237,702	151,219	259,016	58%	4.67%	8.00%
16	69	3,629,745	248,854	290,380	86%	6.86%	8.00%
17	80	4,342,689	229,931	347,415	66%	5.29%	8.00%
18	64	3,430,184	179,156	274,415	65%	5.22%	8.00%
19	80	4,443,834	158,122	355,507	44%	3.56%	8.00%
20	84	4,425,829	168,550	354,066	48%	3.81%	8.00%
21	79	4,345,669	272,276	347,653	78%	6.27%	8.00%
22	61	3,480,827	143,714	278,466	52%	4.13%	8.00%
23	61	3,316,251	194,353	265,300	73%	5.86%	8.00%
24	53	2,985,739	102,366	238,859	43%	3.43%	8.00%
25	28	1,438,398	30,803	115,072	27%	2.14%	8.00%
26	32	1,913,639	129,884	153,091	85%	6.79%	8.00%
27	22	1,423,853	95,717	113,908	84%	6.72%	8.00%
28	14	898,157	60,380	71,853	84%	6.72%	8.00%
29	5	320,244	7,874	25,619	31%	2.46%	8.00%
30	5	273,331	23,572	21,867	108%	8.62%	8.00%
31	2	138,475	5,191	11,078	47%	3.75%	8.00%
32	0	-	-	-			8.00%
33	3	167,431	470	13,394	4%	0.28%	8.00%
34	2	108,642	2,066	8,691	24%	1.90%	8.00%
35	2	105,579	1,983	8,446	23%	1.88%	8.00%
36	0	-	-	-			8.00%
37	0	-	-	-			8.00%
38	1	53,485	3,570	4,279	83%	6.67%	8.00%
39	0	-	-	-			8.00%
40	0	-	-	-			8.00%
41	0	-	-	-			8.00%
42	0	-	-	-			8.00%
43	0	-	-	-			8.00%
44	0	-	-	-			8.00%
45	0	-	-	-			8.00%
Total	1,191	64,787,200	3,267,805	5,182,976	63%	5.04%	8.00%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			8.00%
1	0	-	-	-			8.00%
2	3	\$ 143,907	\$ 6,059	\$ 11,513	53%	4.21%	8.00%
3	6	268,617	19,033	21,489	89%	7.09%	8.00%
4	6	308,343	28,332	24,667	115%	9.19%	8.00%
5	7	398,357	4,597	31,869	14%	1.15%	8.00%
6	10	556,847	12,166	44,548	27%	2.18%	8.00%
7	11	580,881	29,393	46,471	63%	5.06%	8.00%
8	17	968,736	79,797	77,499	103%	8.24%	8.00%
9	34	1,964,941	52,885	157,195	34%	2.69%	8.00%
10	56	3,098,601	162,297	247,888	65%	5.24%	8.00%
11	51	2,755,005	210,050	220,400	95%	7.62%	8.00%
12	66	3,346,128	94,146	267,690	35%	2.81%	8.00%
13	61	3,289,833	189,893	263,187	72%	5.77%	8.00%
14	53	2,627,302	169,106	210,184	80%	6.44%	8.00%
15	63	3,237,702	151,219	259,016	58%	4.67%	8.00%
16	69	3,629,745	248,854	290,380	86%	6.86%	8.00%
17	80	4,342,689	229,931	347,415	66%	5.29%	8.00%
18	64	3,430,184	179,156	274,415	65%	5.22%	8.00%
19	80	4,443,834	158,122	355,507	44%	3.56%	8.00%
20	84	4,425,829	168,550	354,066	48%	3.81%	8.00%
21	79	4,345,669	272,276	347,653	78%	6.27%	8.00%
22	61	3,480,827	143,714	278,466	52%	4.13%	8.00%
23	61	3,316,251	194,353	265,300	73%	5.86%	8.00%
24	53	2,985,739	102,366	238,859	43%	3.43%	8.00%
25	28	1,438,398	30,803	115,072	27%	2.14%	8.00%
26	32	1,913,639	129,884	153,091	85%	6.79%	8.00%
27	22	1,423,853	95,717	113,908	84%	6.72%	8.00%
28	14	898,157	60,380	71,853	84%	6.72%	8.00%
29	5	320,244	7,874	25,619	31%	2.46%	8.00%
30	5	273,331	23,572	21,867	108%	8.62%	8.00%
31	2	138,475	5,191	11,078	47%	3.75%	8.00%
32	0	-	-	-			8.00%
33	3	167,431	470	13,394	4%	0.28%	8.00%
34	2	108,642	2,066	8,691	24%	1.90%	8.00%
35	2	105,579	1,983	8,446	23%	1.88%	8.00%
36	0	-	-	-			8.00%
37	0	-	-	-			8.00%
38	1	53,485	3,570	4,279	83%	6.67%	8.00%
39	0	-	-	-			8.00%
40	0	-	-	-			8.00%
41	0	-	-	-			8.00%
42	0	-	-	-			8.00%
43	0	-	-	-			8.00%
44	0	-	-	-			8.00%
45	0	-	-	-			8.00%
Total	1,191	64,787,200	3,267,805	5,182,976	63%	5.04%	8.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TRANSIT  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 13D			10-YEAR PERIOD ENDING 6/30/2013 Increase %		
		Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Actual (4) / (3) (7)	Expected (5) / (3) (8)
2004	35,456	\$ 1,841,873,940	\$ 162,148,980	\$ 147,349,915	110%	8.80%	8.00%
2005	35,448	1,903,109,649	154,099,599	152,248,772	101%	8.10%	8.00%
2006	34,795	1,932,116,808	177,086,770	154,569,345	115%	9.17%	8.00%
2007	34,283	1,961,496,223	183,179,816	156,919,698	117%	9.34%	8.00%
2008	35,178	2,064,991,989	806,820	165,199,359	0%	0.04%	8.00%
2009	35,788	2,195,826,050	213,030,486	175,666,084	121%	9.70%	8.00%
2010	34,573	2,173,184,575	183,456,652	173,854,766	106%	8.44%	8.00%
2011	33,367	2,182,820,445	194,936,712	174,625,636	112%	8.93%	8.00%
2012	32,624	2,235,821,379	216,937,191	178,865,710	121%	9.70%	8.00%
2013	32,215	2,219,673,216	215,893,409	177,573,857	122%	9.73%	8.00%
Total	343,727	20,710,914,274	1,701,576,435	1,656,873,142	103%	8.22%	8.00%

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
	Service Retiree Mortality						
1A	Men	96%	279	98%	101%	284	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
1B	Women	113%	1	88%	93%	1	
1C	Men & Women	96%	280	98%	101%	285	
1D	By Year						
	Disabled Retiree Mortality						
2A	Men	92%	68	93%	75%	68	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
2B	Women	150%	0	181%	105%	0	
2C	Men & Women	92%	69	94%	75%	68	
2D	By Year						
	Active Member Withdrawals						
3A	Men	94%	44	112%	112%	56	The current assumption is reasonable. No change is recommended.
3B	Women	128%	2	116%	116%	2	
3C	Men & Women	95%	45	113%	113%	57	
3D	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Experience has been consistently lower than expected. In certain places, the current assumption should be lowered to match experience.
4A	Total	48%	67	49%	58%	92	
4B	Elected	74%	48	49%	54%	71	
4C	Mandated	25%	19	50%	80%	21	
	In 2nd Year of Eligibility						
5A	Total	97%	48	120%	120%	63	
5B	Elected	108%	42	114%	114%	51	
5C	Mandated	58%	6	156%	156%	12	
	After 2nd Year of Eligibility						
6A	Total	63%	125	79%	94%	131	
6B	Elected	71%	119	76%	96%	105	
6C	Mandated	19%	6	90%	90%	26	
6D	By Year						
	Reduced Service Retirements						Due to limited experience, we recommend using the NYCERS General group's reduced retirement proposed assumption.
7A	Total	93%	1	72%	72%	1	
7B	By Year						

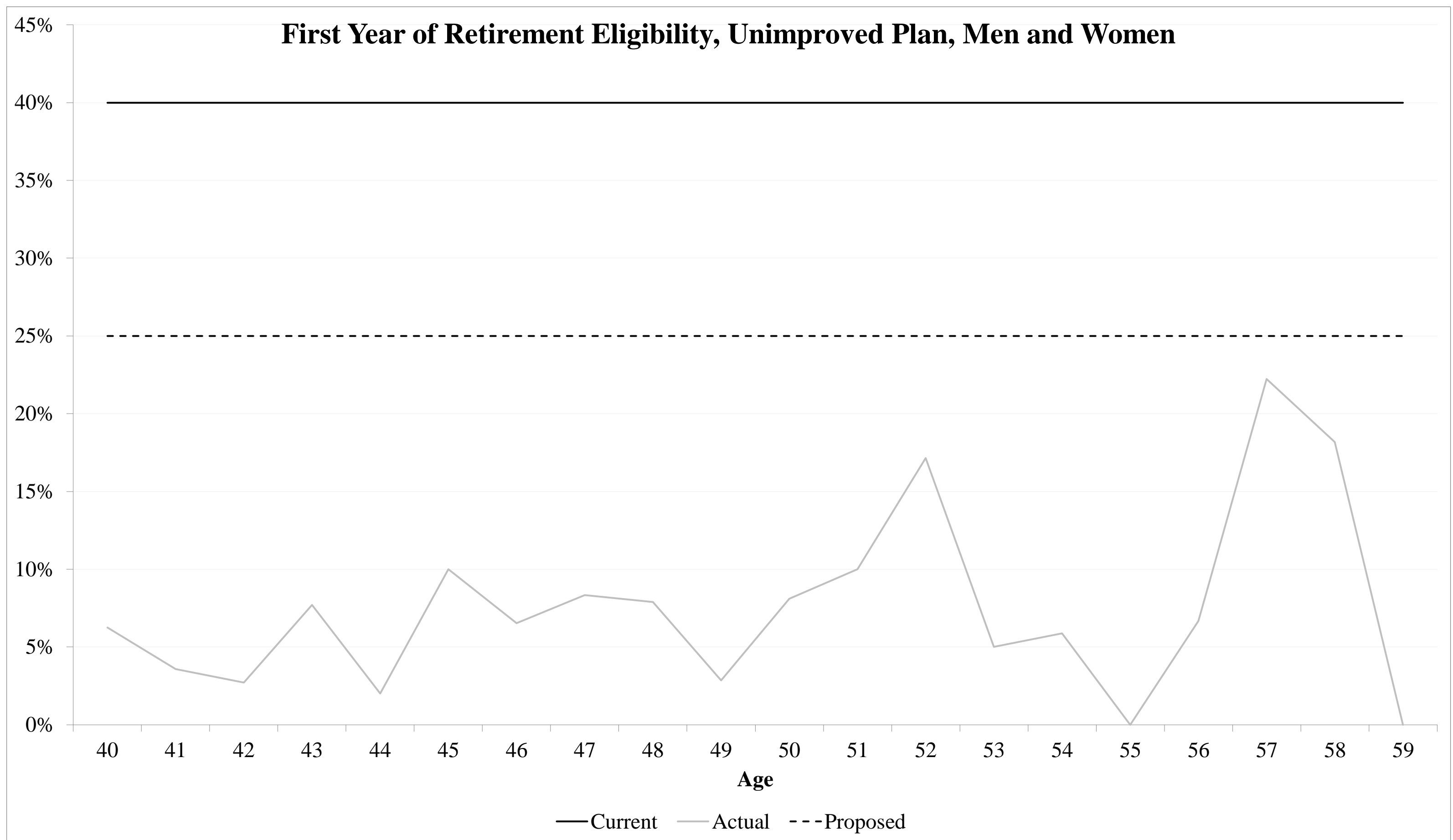
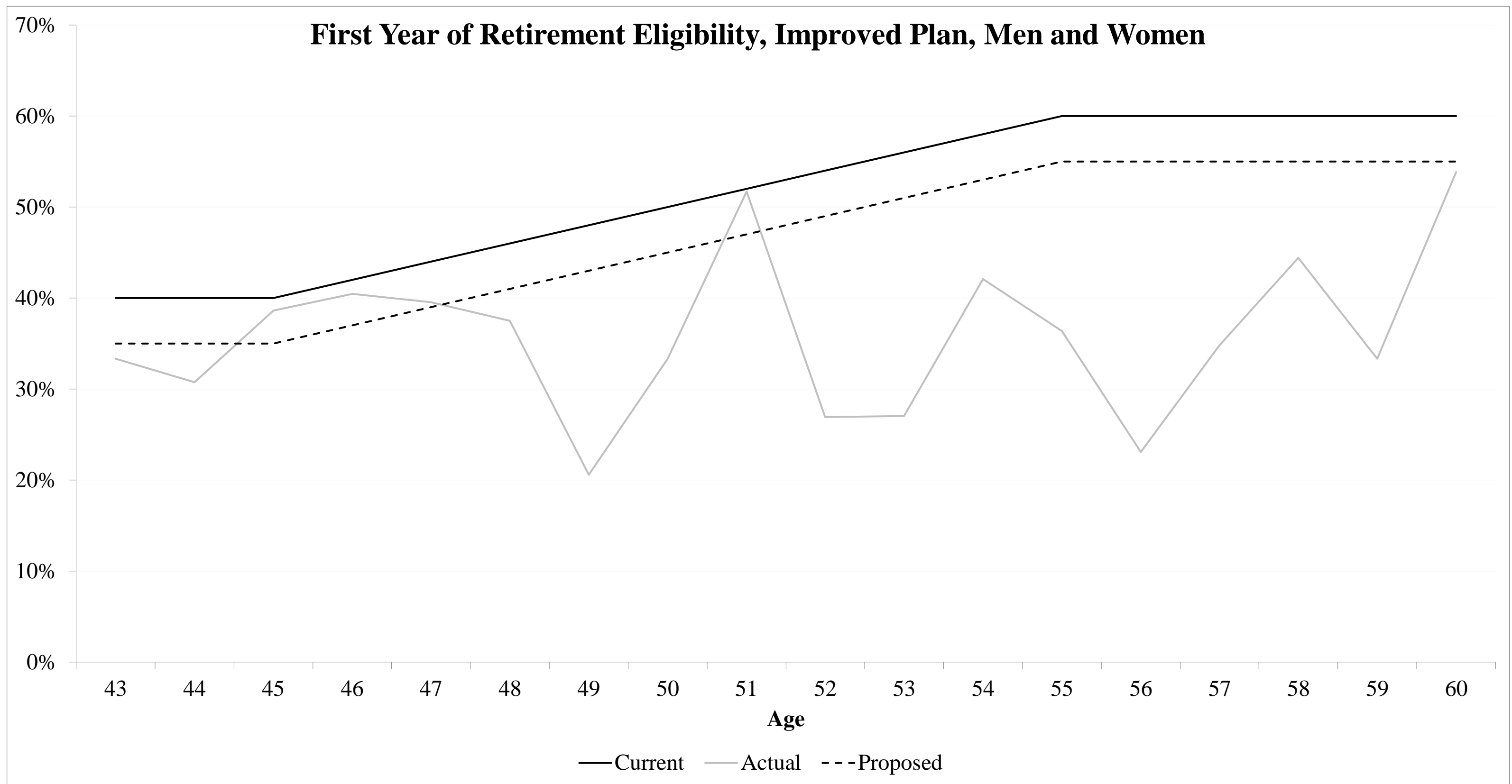
NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
8A	Active Member Ordinary Mortality Men	69%	7	115%	115%	11	Minor Assumption. Experience has been trending below current assumption.
8B	Women	0%	0	131%	131%	0	
8C	Men & Women	68%	7	115%	115%	11	
8D	By Year						
9A	Active Member Accidental Mortality	71%	1	82%	82%	1	Minor Assumption. The current assumption is reasonable.
9B	By Year						
10A	Active Member Ordinary Disability Men	61%	14	63%	84%	15	Minor Assumption. The proposed assumption is 75% of the current assumption.
10B	Women	120%	1	132%	176%	1	
10C	Men & Women	62%	14	64%	86%	15	
10D	By Year						
11A	Active Member Accidental Disability Men	138%	38	136%	120%	38	The proposed assumption is based on an exponential fit of actual data for Men and is 120% of the current assumption for Women.
11B	Women	138%	1	111%	93%	1	
11C	Men & Women	138%	39	135%	119%	39	
11D	By Year						
12A	Salary Increases** Total	Expected 7.70%	Actual 5.17%	Expected 7.70%	Proposed 7.86%	Actual 6.96%	General increases and merit are slightly lower than expected.
12B	Merit Only	4.20%	3.44%	4.20%	3.86%	3.46%	
12C	General Increase over Inflation By Year	1.00%	-1.09%	1.00%	1.50%	1.60%	
13A	Overtime Pay** For All Years	Expected 12.00%	Actual 12.16%	Expected 12.00%	Proposed 12.00%	Actual 12.45%	Experience has been close to the Expected assumption. Members are working less overtime before becoming disabled.
13B	In Year Before Service Retirement	12.00%	11.63%	12.00%	12.00%	13.55%	
13C	In Year Before Disability Retirement By Year	12.00%	4.41%	12.00%	12.00%	4.80%	

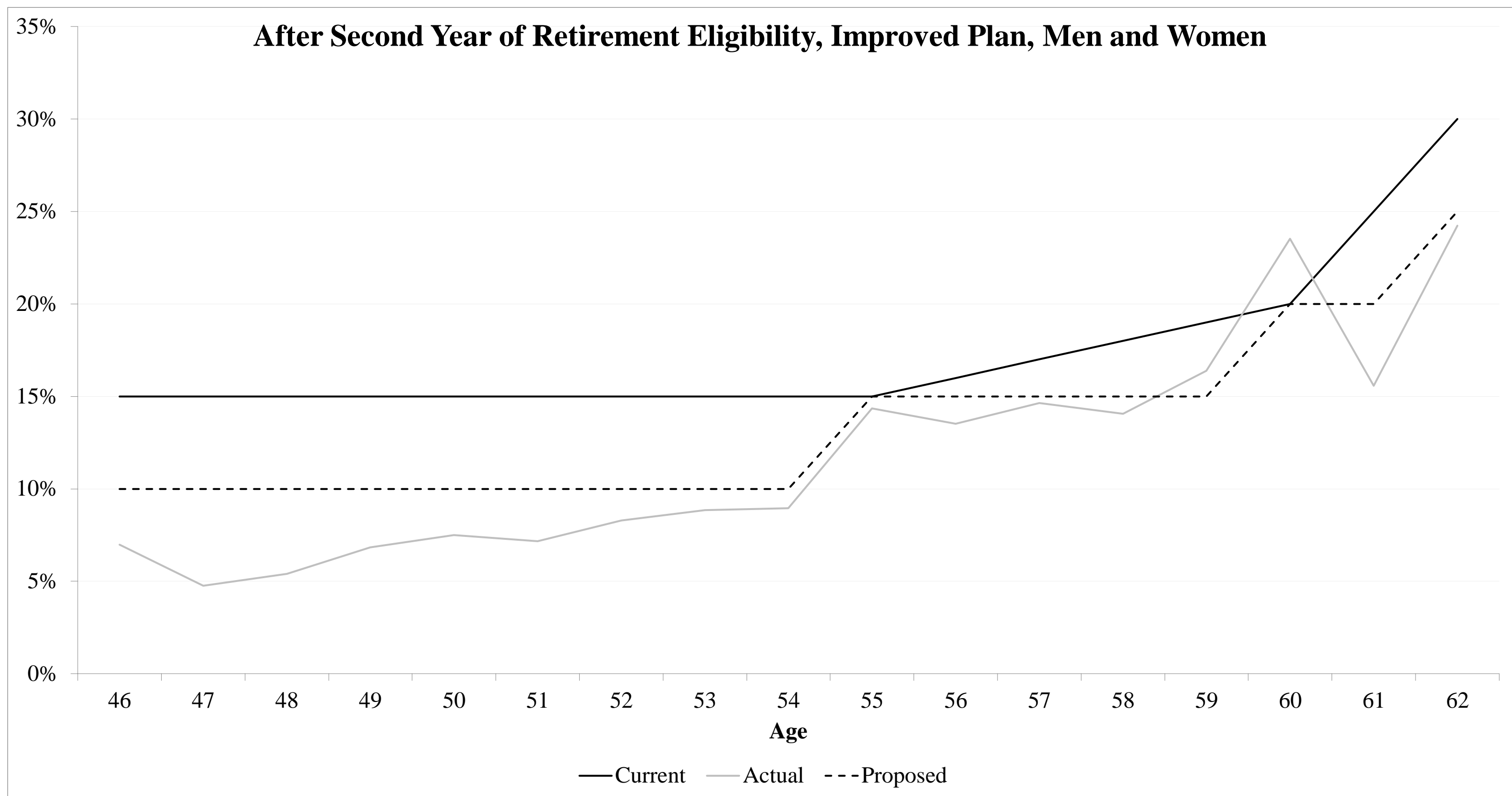
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

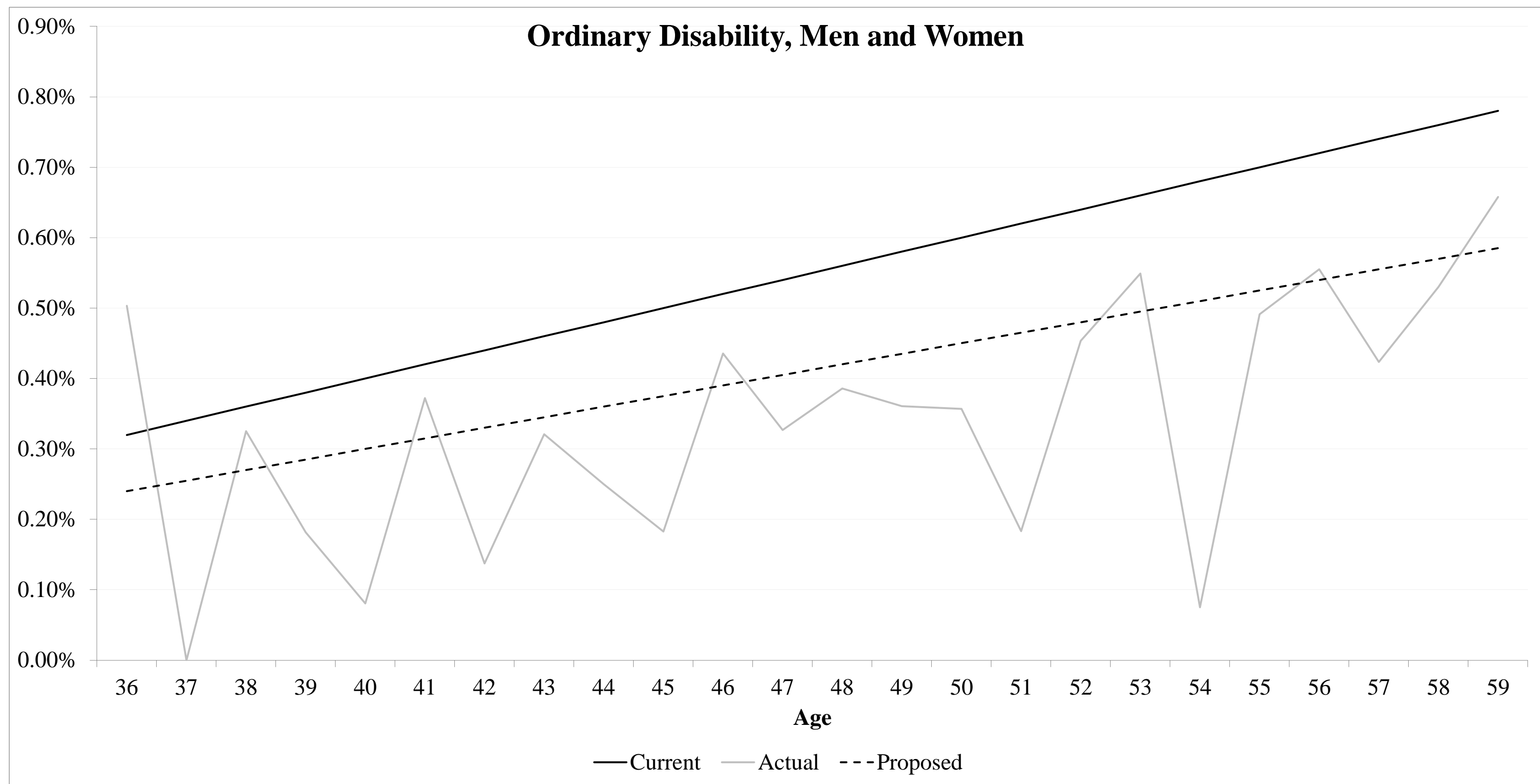
**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



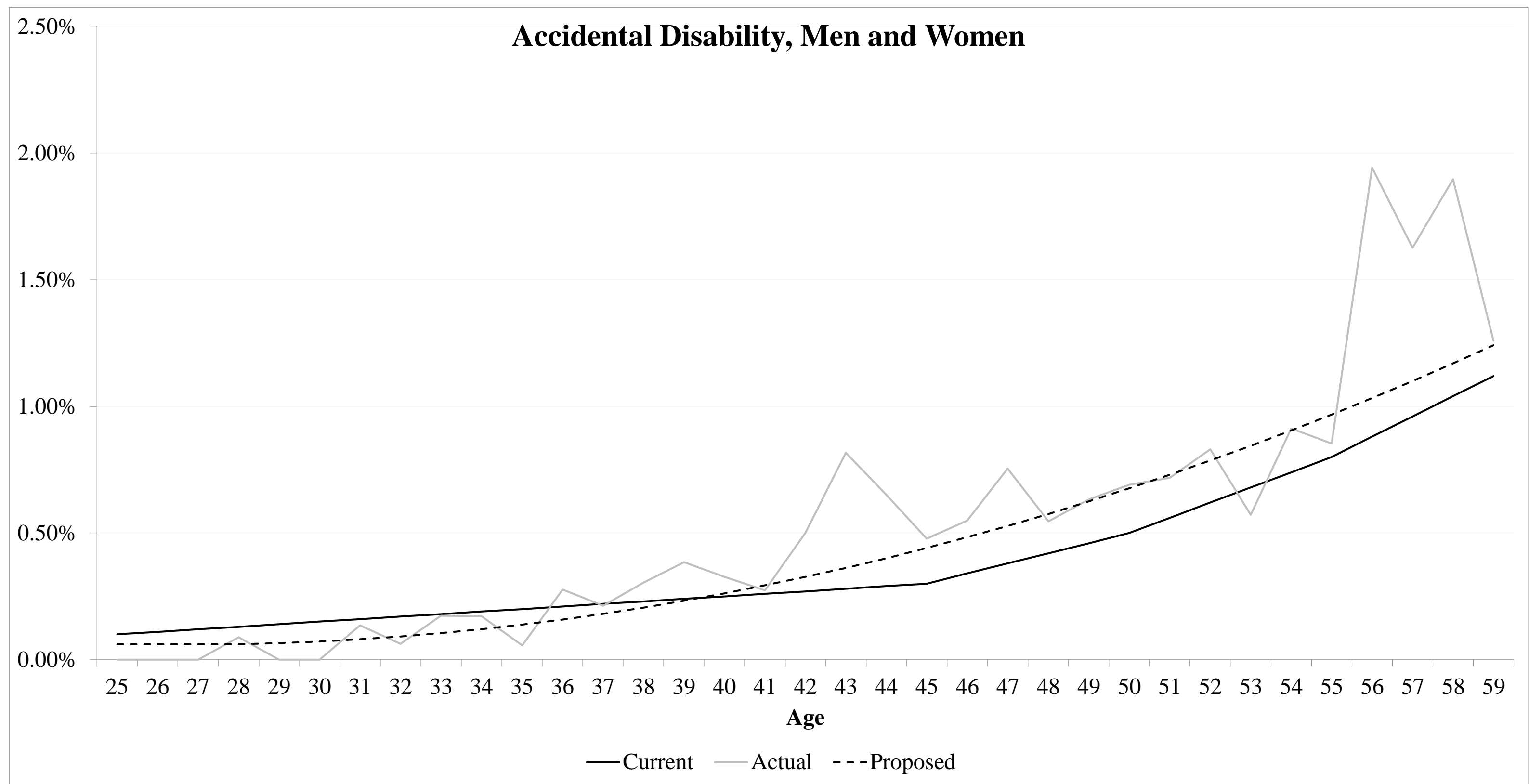
**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**

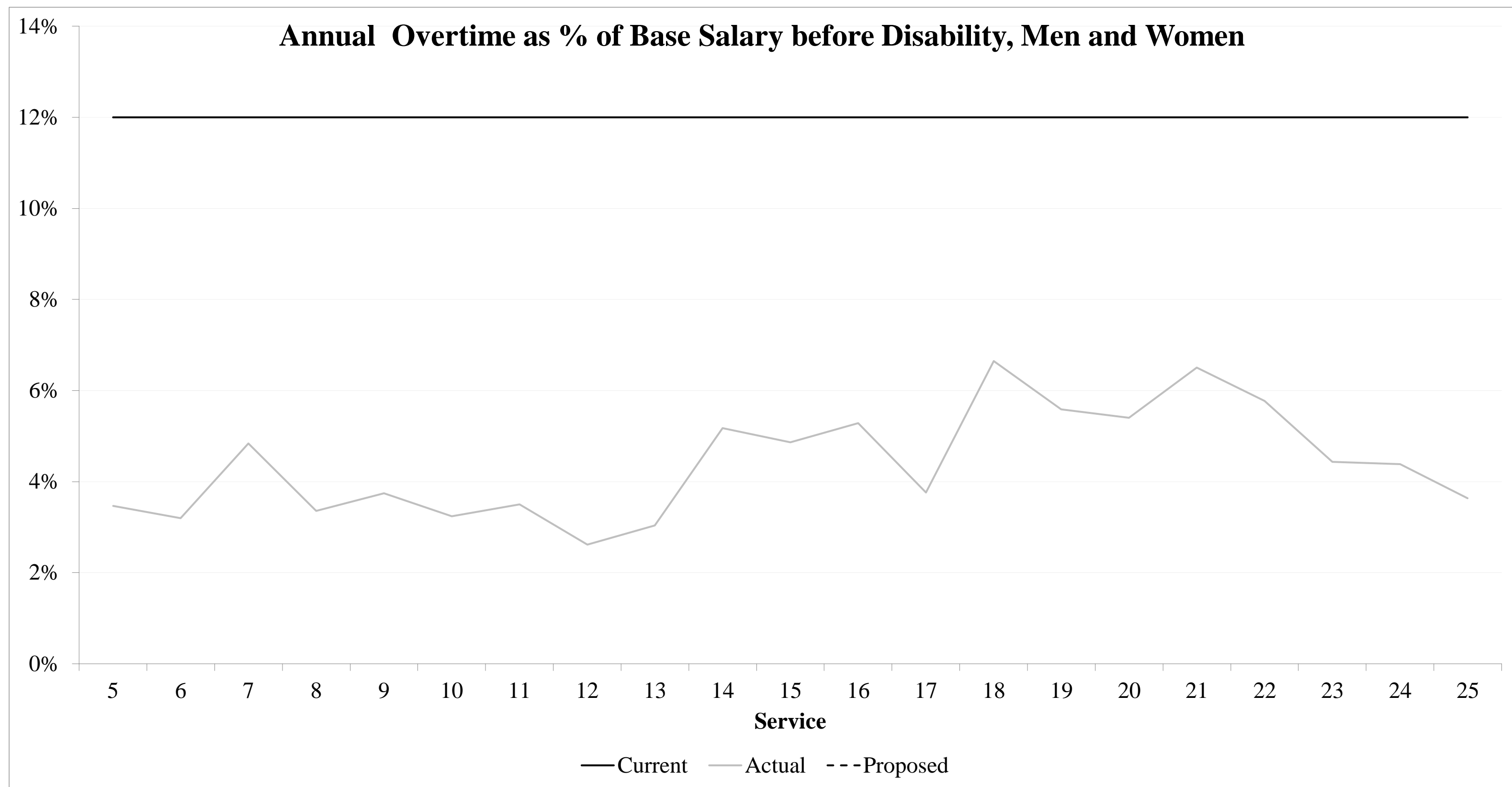


**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	1	0.000000	0.1597%	0.1800%	0.0	0.0	0%	0%
42	0	4	0.000000	0.2033%	0.1964%	0.0	0.0	0%	0%
43	0	24	0.000000	0.2442%	0.2140%	0.1	0.1	0%	0%
44	0	44	0.000000	0.2825%	0.2329%	0.1	0.1	0%	0%
45	0	92	0.000000	0.3161%	0.2524%	0.3	0.2	0%	0%
46	0	143	0.000000	0.3459%	0.2739%	0.5	0.4	0%	0%
47	1	178	0.005618	0.3705%	0.2959%	0.7	0.5	152%	190%
48	0	211	0.000000	0.3934%	0.3196%	0.8	0.7	0%	0%
49	0	189	0.000000	0.4135%	0.3449%	0.8	0.7	0%	0%
50	0	187	0.000000	0.4296%	0.3713%	0.8	0.7	0%	0%
51	0	209	0.000000	0.4843%	0.3987%	1.0	0.8	0%	0%
52	1	225	0.004444	0.5405%	0.4288%	1.2	1.0	82%	104%
53	3	323	0.009288	0.6068%	0.4646%	2.0	1.5	153%	200%
54	1	546	0.001832	0.6758%	0.5043%	3.7	2.8	27%	36%
55	6	797	0.007528	0.7537%	0.5490%	6.0	4.4	100%	137%
56	6	1,017	0.005900	0.8113%	0.5976%	8.3	6.1	73%	99%
57	9	1,116	0.008065	0.8694%	0.6521%	9.7	7.3	93%	124%
58	14	1,095	0.012785	0.9289%	0.7134%	10.2	7.8	138%	179%
59	11	1,010	0.010891	0.9817%	0.7821%	9.9	7.9	111%	139%
60	9	991	0.009082	1.0358%	0.8601%	10.3	8.5	88%	106%
61	10	1,013	0.009872	1.1522%	0.9451%	11.7	9.6	86%	104%
62	6	1,207	0.004971	1.2578%	1.0388%	15.2	12.5	40%	48%
63	13	1,368	0.009503	1.3716%	1.1418%	18.8	15.6	69%	83%
64	25	1,409	0.017743	1.4721%	1.2550%	20.7	17.7	121%	141%
65	16	1,408	0.011364	1.5697%	1.3793%	22.1	19.4	72%	82%
66	13	1,308	0.009939	1.7133%	1.5160%	22.4	19.8	58%	66%
67	25	1,199	0.020851	1.8443%	1.6665%	22.1	20.0	113%	125%
68	18	1,144	0.015734	1.9593%	1.8316%	22.4	21.0	80%	86%
69	25	1,091	0.022915	2.0890%	2.0131%	22.8	22.0	110%	114%
70	12	938	0.012793	2.1996%	2.2112%	20.6	20.7	58%	58%
71	16	823	0.019441	2.3971%	2.4308%	19.7	20.0	81%	80%
72	20	741	0.026991	2.5983%	2.6715%	19.3	19.8	104%	101%
73	15	638	0.023511	2.8033%	2.9359%	17.9	18.7	84%	80%
74	15	583	0.025729	3.0138%	3.2281%	17.6	18.8	85%	80%
75	16	546	0.029304	3.2537%	3.5478%	17.8	19.4	90%	83%
76	16	527	0.030361	3.7509%	3.8993%	19.8	20.5	81%	78%
77	31	540	0.057407	4.2954%	4.2879%	23.2	23.2	134%	134%
78	26	543	0.047882	4.8575%	4.7128%	26.4	25.6	99%	102%
79	35	559	0.062612	5.4395%	5.1798%	30.4	29.0	115%	121%
80	47	595	0.078992	6.0416%	5.6931%	35.9	33.9	131%	139%
81	37	616	0.060065	6.6940%	6.2545%	41.2	38.5	90%	96%
82	46	677	0.067947	7.3567%	6.8718%	49.8	46.5	92%	99%
83	58	706	0.082153	7.9681%	7.5530%	56.3	53.3	103%	109%
84	53	672	0.078869	8.6484%	8.3011%	58.1	55.8	91%	95%
85	59	617	0.095624	9.2680%	9.1270%	57.2	56.3	103%	105%
86	48	526	0.091255	10.4648%	10.0358%	55.0	52.8	87%	91%
87	50	453	0.110375	11.7953%	11.0303%	53.4	50.0	94%	100%
88	47	379	0.124011	13.1900%	12.1233%	50.0	45.9	94%	102%
89	43	327	0.131498	14.5331%	13.3246%	47.5	43.6	90%	99%
90	55	265	0.207547	16.0483%	14.6450%	42.5	38.8	129%	142%
91	36	207	0.173913	17.8244%	16.0962%	36.9	33.3	98%	108%
92	31	173	0.179191	19.7255%	17.6912%	34.1	30.6	91%	101%
93	31	138	0.224638	21.4199%	19.4065%	29.6	26.8	105%	116%
94	20	92	0.217391	23.1421%	21.3088%	21.3	19.6	94%	102%
95	22	57	0.385965	25.2240%	23.3784%	14.4	13.3	153%	165%
96	8	32	0.250000	26.7968%	25.3843%	8.6	8.1	93%	98%
97	4	20	0.200000	27.6367%	26.8552%	5.5	5.4	72%	74%
98	5	15	0.333333	28.8832%	28.9599%	4.3	4.3	115%	115%
99	2	12	0.166667	31.0801%	32.7473%	3.7	3.9	54%	51%
Subtotal	1,116	32,566				1,162.5	1,085.5	96%	103%
100 or more	4	9	0.444444	37.1685%	45.5092%	3.3	4.1	120%	98%
Total	1,120	32,575				1,165.8	1,089.6	96%	103%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	73	0.000000	0.2639%	0.2240%	0.2	0.2	0%	0%
45-49	1	813	0.001230	0.3759%	0.3047%	3.1	2.5	33%	40%
50-54	5	1,490	0.003356	0.5826%	0.4528%	8.7	6.7	58%	74%
55-59	46	5,035	0.009136	0.8748%	0.6642%	44.0	33.4	104%	138%
60-64	63	5,988	0.010521	1.2796%	1.0678%	76.6	63.9	82%	99%
65-69	97	6,150	0.015772	1.8184%	1.6609%	111.8	102.1	87%	95%
70-74	78	3,723	0.020951	2.5536%	2.6348%	95.1	98.1	82%	80%
75-79	124	2,715	0.045672	4.3282%	4.3322%	117.5	117.6	106%	105%
80-84	241	3,266	0.073791	7.3901%	6.9820%	241.4	228.0	100%	106%
85-89	247	2,302	0.107298	11.4324%	10.7988%	263.2	248.6	94%	99%
90-94	173	875	0.197714	18.7886%	17.0422%	164.4	149.1	105%	116%
95-99	41	136	0.301471	26.8692%	25.8039%	36.5	35.1	112%	117%
100+	4	9	0.444444	37.1685%	45.5092%	3.3	4.1	120%	98%
Total	1,120	32,575				1,165.8	1,089.6	96%	103%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	7	0.000000	0.1641%	0.1954%	0.0	0.0	0%	0%
42	0	17	0.000000	0.2095%	0.2139%	0.0	0.0	0%	0%
43	0	48	0.000000	0.2493%	0.2324%	0.1	0.1	0%	0%
44	0	77	0.000000	0.2907%	0.2531%	0.2	0.2	0%	0%
45	0	122	0.000000	0.3293%	0.2747%	0.4	0.3	0%	0%
46	0	187	0.000000	0.3612%	0.2968%	0.7	0.6	0%	0%
47	1	273	0.003663	0.3886%	0.3193%	1.1	0.9	94%	115%
48	3	402	0.007463	0.4139%	0.3429%	1.7	1.4	180%	218%
49	1	537	0.001862	0.4361%	0.3674%	2.3	2.0	43%	51%
50	4	727	0.005502	0.4542%	0.3924%	3.3	2.9	121%	140%
51	9	956	0.009414	0.5156%	0.4190%	4.9	4.0	183%	225%
52	6	1,195	0.005021	0.5788%	0.4474%	6.9	5.3	87%	112%
53	8	1,421	0.005630	0.6479%	0.4793%	9.2	6.8	87%	117%
54	6	1,684	0.003563	0.7199%	0.5154%	12.1	8.7	49%	69%
55	15	1,968	0.007622	0.7987%	0.5568%	15.7	11.0	95%	137%
56	19	2,404	0.007903	0.8574%	0.6042%	20.6	14.5	92%	131%
57	24	2,706	0.008869	0.9161%	0.6592%	24.8	17.8	97%	135%
58	27	2,782	0.009705	0.9760%	0.7229%	27.2	20.1	99%	134%
59	23	2,783	0.008264	1.0315%	0.7964%	28.7	22.2	80%	104%
60	22	2,897	0.007594	1.0871%	0.8807%	31.5	25.5	70%	86%
61	28	3,005	0.009318	1.2060%	0.9755%	36.2	29.3	77%	96%
62	25	3,038	0.008229	1.3164%	1.0809%	40.0	32.8	63%	76%
63	25	3,083	0.008109	1.4310%	1.1971%	44.1	36.9	57%	68%
64	48	3,040	0.015789	1.5358%	1.3245%	46.7	40.3	103%	119%
65	29	2,915	0.009949	1.6376%	1.4640%	47.7	42.7	61%	68%
66	44	2,663	0.016523	1.7820%	1.6166%	47.5	43.1	93%	102%
67	44	2,382	0.018472	1.9179%	1.7839%	45.7	42.5	96%	104%
68	45	2,228	0.020197	2.0437%	1.9666%	45.5	43.8	99%	103%
69	39	2,070	0.018841	2.1789%	2.1674%	45.1	44.9	86%	87%
70	29	1,891	0.015336	2.3021%	2.3871%	43.5	45.1	67%	64%
71	43	1,765	0.024363	2.5086%	2.6291%	44.3	46.4	97%	93%
72	43	1,688	0.025474	2.7193%	2.8943%	45.9	48.9	94%	88%
73	33	1,638	0.020147	2.9345%	3.1858%	48.1	52.2	69%	63%
74	43	1,661	0.025888	3.1542%	3.5053%	52.4	58.2	82%	74%
75	66	1,704	0.038732	3.3948%	3.8537%	57.8	65.7	114%	101%
76	71	1,799	0.039466	3.9131%	4.2358%	70.4	76.2	101%	93%
77	78	1,900	0.041053	4.4661%	4.6549%	84.9	88.4	92%	88%
78	105	1,952	0.053791	5.0352%	5.1120%	98.3	99.8	107%	105%
79	119	1,970	0.060406	5.6213%	5.6128%	110.7	110.6	107%	108%
80	138	1,953	0.070661	6.2245%	6.1620%	121.6	120.3	114%	115%
81	142	1,895	0.074934	6.8793%	6.7636%	130.4	128.2	109%	111%
82	143	1,814	0.078831	7.5401%	7.4230%	136.8	134.7	105%	106%
83	145	1,723	0.084156	8.1649%	8.1455%	140.7	140.3	103%	103%
84	141	1,585	0.088959	8.8336%	8.9380%	140.0	141.7	101%	100%
85	146	1,438	0.101530	9.4642%	9.8108%	136.1	141.1	107%	103%
86	119	1,238	0.096123	10.6834%	10.7678%	132.3	133.3	90%	89%
87	141	1,068	0.132022	11.9964%	11.8058%	128.1	126.1	110%	112%
88	117	868	0.134793	13.3744%	12.9508%	116.1	112.4	101%	104%
89	106	702	0.150997	14.7324%	14.1981%	103.4	99.7	102%	106%
90	94	551	0.170599	16.2123%	15.5588%	89.3	85.7	105%	110%
91	73	414	0.176329	17.9685%	17.0086%	74.4	70.4	98%	104%
92	61	315	0.193651	19.7913%	18.5897%	62.3	58.6	98%	104%
93	56	233	0.240343	21.5115%	20.3241%	50.1	47.4	112%	118%
94	35	154	0.227273	23.2186%	22.2020%	35.8	34.2	98%	102%
95	29	97	0.298969	25.1403%	24.1756%	24.4	23.5	119%	124%
96	11	60	0.183333	26.7323%	26.2371%	16.0	15.7	69%	70%
97	12	44	0.272727	28.3684%	28.6603%	12.5	12.6	96%	95%
98	9	29	0.310345	29.9933%	31.2165%	8.7	9.1	103%	99%
99	5	19	0.263158	31.7359%	34.5332%	6.0	6.6	83%	76%
Subtotal	2,848	81,785				2,911.3	2,833.4	98%	101%
100 or more	7	13	0.538462	37.1685%	47.0399%	4.8	6.1	145%	114%
Total	2,855	81,798				2,916.1	2,839.5	98%	101%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Rate</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	149	0.000000	0.2621%	0.2392%	0.4	0.4	0%	0%
45-49	5	1,521	0.003287	0.4039%	0.3362%	6.1	5.1	81%	98%
50-54	33	5,983	0.005516	0.6097%	0.4629%	36.5	27.7	90%	119%
55-59	108	12,643	0.008542	0.9252%	0.6770%	117.0	85.6	92%	126%
60-64	148	15,063	0.009825	1.3180%	1.0943%	198.5	164.8	75%	90%
65-69	201	12,258	0.016397	1.8887%	1.7695%	231.5	216.9	87%	93%
70-74	191	8,643	0.022099	2.7094%	2.9018%	234.2	250.8	82%	76%
75-79	439	9,325	0.047078	4.5268%	4.7257%	422.1	440.7	104%	100%
80-84	709	8,970	0.079041	7.4626%	7.4156%	669.4	665.2	106%	107%
85-89	629	5,314	0.118367	11.5918%	11.5271%	616.0	612.6	102%	103%
90-94	319	1,667	0.191362	18.7127%	17.7713%	311.9	296.2	102%	108%
95-99	66	249	0.265060	27.1628%	27.0752%	67.6	67.4	98%	98%
100+	7	13	0.538462	37.1685%	47.0399%	4.8	6.1	145%	114%
Total	2,855	81,798				2,916.1	2,839.5	98%	101%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	7,978	297	229.4	129%	3.7227%	2.8750%
2005	8,141	283	235.9	120%	3.4762%	2.8974%
2006	8,175	268	242.7	110%	3.2783%	2.9690%
2007	8,306	299	249.0	120%	3.5998%	2.9981%
2008	8,311	267	252.2	106%	3.2126%	3.0344%
2009	8,315	321	257.1	125%	3.8605%	3.0922%
2010	8,130	276	256.4	108%	3.3948%	3.1536%
2011	8,156	284	258.7	110%	3.4821%	3.1717%
2012	8,168	277	259.9	107%	3.3913%	3.1821%
2013	8,122	283	260.4	109%	3.4844%	3.2056%
Total	81,802	2,855	2,501.6	114%	3.4901%	3.0581%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

TABLE 2C

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	27	0.000000	0.9051%	0.4461%	0.2	0.1	0%	0%
42	1	27	0.037037	0.9249%	0.5537%	0.2	0.1	400%	669%
43	0	36	0.000000	0.9476%	0.6941%	0.3	0.2	0%	0%
44	1	53	0.018868	0.9702%	0.8257%	0.5	0.4	194%	229%
45	1	60	0.016667	0.9937%	0.9497%	0.6	0.6	168%	175%
46	0	76	0.000000	1.0178%	1.0722%	0.8	0.8	0%	0%
47	1	84	0.011905	1.0428%	1.1970%	0.9	1.0	114%	99%
48	0	92	0.000000	1.0680%	1.3125%	1.0	1.2	0%	0%
49	0	90	0.000000	1.0935%	1.4237%	1.0	1.3	0%	0%
50	0	92	0.000000	1.1192%	1.5272%	1.0	1.4	0%	0%
51	3	89	0.033708	1.1454%	1.6325%	1.0	1.5	294%	206%
52	0	76	0.000000	1.1756%	1.7189%	0.9	1.3	0%	0%
53	2	94	0.021277	1.1910%	1.7979%	1.1	1.7	179%	118%
54	2	115	0.017391	1.2067%	1.8801%	1.4	2.2	144%	93%
55	1	142	0.007042	1.2055%	1.9766%	1.7	2.8	58%	36%
56	5	193	0.025907	1.2788%	2.0629%	2.5	4.0	203%	126%
57	4	229	0.017467	1.3557%	2.1504%	3.1	4.9	129%	81%
58	3	240	0.012500	1.4363%	2.2426%	3.4	5.4	87%	56%
59	7	272	0.025735	1.5111%	2.3327%	4.1	6.3	170%	110%
60	4	281	0.014235	1.5885%	2.4235%	4.5	6.8	90%	59%
61	10	333	0.030030	1.7007%	2.5175%	5.7	8.4	177%	119%
62	10	421	0.023753	1.8065%	2.6107%	7.6	11.0	131%	91%
63	9	472	0.019068	1.9366%	2.7390%	9.1	12.9	98%	70%
64	7	490	0.014286	2.0570%	2.8689%	10.1	14.1	69%	50%
65	7	484	0.014463	2.1885%	2.9977%	10.6	14.5	66%	48%
66	9	433	0.020785	2.3479%	3.1270%	10.2	13.5	89%	66%
67	9	423	0.021277	2.5016%	3.2564%	10.6	13.8	85%	65%
68	12	384	0.031250	2.6489%	3.4680%	10.2	13.3	118%	90%
69	7	345	0.020290	2.8297%	3.6800%	9.8	12.7	72%	55%
70	4	297	0.013468	3.0026%	3.8920%	8.9	11.6	45%	35%
71	5	232	0.021552	3.2490%	4.1033%	7.5	9.5	66%	53%
72	3	214	0.014019	3.5232%	4.3149%	7.5	9.2	40%	32%
73	4	189	0.021164	3.8247%	4.6675%	7.2	8.8	55%	45%
74	11	182	0.060440	4.1569%	5.0202%	7.6	9.1	145%	120%
75	8	156	0.051282	4.5661%	5.3761%	7.1	8.4	112%	95%
76	5	126	0.039683	4.9925%	5.7294%	6.3	7.2	79%	69%
77	7	140	0.050000	5.5053%	6.0828%	7.7	8.5	91%	82%
78	8	135	0.059259	6.0715%	6.6494%	8.2	9.0	98%	89%
79	10	144	0.069444	6.6961%	7.2161%	9.6	10.4	104%	96%
80	9	148	0.060811	7.3842%	7.7827%	10.9	11.5	82%	78%
81	6	123	0.048780	8.1856%	8.3493%	10.1	10.3	60%	58%
82	4	111	0.036036	8.9993%	8.9159%	10.0	9.9	40%	40%
83	14	108	0.129630	9.7467%	9.7808%	10.5	10.6	133%	133%
84	8	98	0.081633	10.5790%	10.6456%	10.4	10.4	77%	77%
85	10	83	0.120482	11.3324%	11.5105%	9.4	9.6	106%	105%
86	9	67	0.134328	12.5123%	12.3753%	8.4	8.3	107%	109%
87	9	50	0.180000	13.8029%	13.2402%	6.9	6.6	130%	136%
88	4	39	0.102564	15.1136%	14.5013%	5.9	5.7	68%	71%
89	7	36	0.194444	16.3127%	15.7625%	5.9	5.7	119%	123%
90	3	31	0.096774	17.6532%	17.0236%	5.5	5.3	55%	57%
91	4	23	0.173913	19.7349%	18.2847%	4.5	4.2	88%	95%
92	4	15	0.266667	21.9020%	19.5459%	3.3	2.9	122%	136%
93	1	9	0.111111	23.8022%	21.3144%	2.1	1.9	47%	52%
94	0	4	0.000000	25.6258%	23.0829%	1.0	0.9	0%	0%
95	2	3	0.666667	27.6230%	24.8515%	0.8	0.7	241%	268%
96	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
97	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	274	8,916				297.5	354.5	92%	77%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	274	8,916				297.5	354.5	92%	77%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	2	143	0.013986	0.9436%	0.6695%	1.3	1.0	148%	209%
45-49	2	402	0.004975	1.0478%	1.2137%	4.2	4.9	47%	41%
50-54	7	466	0.015021	1.1695%	1.7203%	5.4	8.0	128%	87%
55-59	20	1,076	0.018587	1.3793%	2.1784%	14.8	23.4	135%	85%
60-64	40	1,997	0.020030	1.8504%	2.6625%	37.0	53.2	108%	75%
65-69	44	2,069	0.021266	2.4782%	3.2787%	51.3	67.8	86%	65%
70-74	27	1,114	0.024237	3.4820%	4.3331%	38.8	48.3	70%	56%
75-79	38	701	0.054208	5.5578%	6.2039%	39.0	43.5	98%	87%
80-84	41	588	0.069728	8.8231%	8.9593%	51.9	52.7	79%	78%
85-89	39	275	0.141818	13.2573%	13.0165%	36.5	35.8	107%	109%
90-94	12	82	0.146341	20.0781%	18.6052%	16.5	15.3	73%	79%
95-99	2	3	0.666667	27.6230%	24.8515%	0.8	0.7	241%	268%
100+	0	0	N/A			0	0	0%	0%
Total	274	8,916				297.5	354.5	92%	77%





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	3	381	0.007874	0.9730%	0.7139%	3.7	2.7	81%	110%
45-49	6	873	0.006873	1.1002%	1.3060%	9.6	11.4	62%	53%
50-54	16	1,771	0.009034	1.2459%	1.7855%	22.1	31.6	73%	51%
55-59	49	4,017	0.012198	1.4509%	2.2014%	58.3	88.4	84%	55%
60-64	90	5,355	0.016807	1.9030%	2.7401%	101.9	146.7	88%	61%
65-69	98	4,048	0.024209	2.5731%	3.4970%	104.2	141.6	94%	69%
70-74	86	2,500	0.034400	3.6810%	4.7276%	92.0	118.2	93%	73%
75-79	119	1,924	0.061850	5.7374%	6.6989%	110.4	128.9	108%	92%
80-84	103	1,327	0.077619	9.0069%	9.6303%	119.5	127.8	86%	81%
85-89	82	571	0.143608	13.4518%	13.9030%	76.8	79.4	107%	103%
90-94	24	130	0.184615	20.3718%	19.7777%	26.5	25.7	91%	93%
95-99	4	5	0.800000	28.3386%	26.7101%	1.4	1.3	282%	300%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>680</b>	<b>22,902</b>				<b>726.4</b>	<b>903.8</b>	<b>94%</b>	<b>75%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	2,403	75	54.2	138%	3.1211%	2.2545%
2005	2,381	75	55.0	136%	3.1499%	2.3090%
2006	2,344	63	56.2	112%	2.6877%	2.3997%
2007	2,352	74	58.0	128%	3.1463%	2.4647%
2008	2,326	62	58.5	106%	2.6655%	2.5158%
2009	2,320	57	60.4	94%	2.4569%	2.6031%
2010	2,305	68	62.2	109%	2.9501%	2.6988%
2011	2,254	79	63.1	125%	3.5049%	2.8002%
2012	2,231	55	64.4	85%	2.4653%	2.8856%
2013	2,219	73	66.3	110%	3.2898%	2.9857%
Total	23,135	681	598.2	114%	2.9436%	2.5858%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**4-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	10	122	0.0820	4.00%	4.00%	4.9	4.9	205%	205%
1	34	1,073	0.0317	2.00%	2.00%	21.5	21.5	158%	158%
2	11	1,778	0.0062	1.00%	1.00%	17.8	17.8	62%	62%
3	23	2,430	0.0095	1.00%	1.00%	24.3	24.3	95%	95%
4	12	2,036	0.0059	1.00%	1.00%	20.4	20.4	59%	59%
5	8	1,553	0.0052	1.00%	1.00%	15.5	15.5	52%	52%
6	10	1,202	0.0083	0.90%	0.90%	10.8	10.8	92%	92%
7	12	1,351	0.0089	0.80%	0.80%	10.8	10.8	111%	111%
8	16	1,662	0.0096	0.70%	0.70%	11.6	11.6	138%	138%
9	6	1,722	0.0035	0.60%	0.60%	10.3	10.3	58%	58%
10	8	1,654	0.0048	0.50%	0.50%	8.3	8.3	97%	97%
11	6	896	0.0067	0.50%	0.50%	4.5	4.5	134%	134%
12	3	791	0.0038	0.50%	0.50%	4.0	4.0	76%	76%
13	3	623	0.0048	0.50%	0.50%	3.1	3.1	96%	96%
14	3	858	0.0035	0.50%	0.50%	4.3	4.3	70%	70%
15	4	808	0.0050	0.50%	0.50%	4.0	4.0	99%	99%
16	2	539	0.0037	0.50%	0.50%	2.7	2.7	74%	74%
17	5	1,027	0.0049	0.50%	0.50%	5.1	5.1	97%	97%
18	4	1,153	0.0035	0.50%	0.50%	5.8	5.8	69%	69%
19	0	32	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
20	0	32	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
21	0	24	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
22	0	19	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
23	0	18	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
24	0	8	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
25	0	6	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
26	0	7	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
27	0	5	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
28	0	6	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
29	1	2	0.5000	0.50%	0.50%	0.0	0.0	10000%	10000%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	181	23,437	0.0077			190.4	190.4	95%	95%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	181	23,437	0.0077			190.4	190.4	95%	95%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> <u>Withdrawals</u> (2)	<u>Total</u> <u>Exposed</u> (3)	<u>Actual Rate</u> <u>(2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> <u>(3) x (5)</u> (7)	<u>Proposed</u> <u>(3) x (6)</u> (8)	<u>Expected</u> <u>(2) / (7)</u> (9)	<u>Proposed</u> <u>(2) / (8)</u> (10)
0	55	840	0.0655	4.00%	4.00%	33.6	33.6	164%	164%
1	81	3,073	0.0264	2.00%	2.00%	61.5	61.5	132%	132%
2	20	2,761	0.0072	1.00%	1.00%	27.6	27.6	72%	72%
3	37	3,767	0.0098	1.00%	1.00%	37.7	37.7	98%	98%
4	30	3,774	0.0079	1.00%	1.00%	37.7	37.7	79%	79%
5	24	3,394	0.0071	1.00%	1.00%	33.9	33.9	71%	71%
6	30	3,004	0.0100	0.90%	0.90%	27.0	27.0	111%	111%
7	24	2,269	0.0106	0.80%	0.80%	18.2	18.2	132%	132%
8	19	2,472	0.0077	0.70%	0.70%	17.3	17.3	110%	110%
9	17	2,407	0.0071	0.60%	0.60%	14.4	14.4	118%	118%
10	12	2,550	0.0047	0.50%	0.50%	12.8	12.8	94%	94%
11	15	1,786	0.0084	0.50%	0.50%	8.9	8.9	168%	168%
12	8	1,350	0.0059	0.50%	0.50%	6.8	6.8	119%	119%
13	9	1,812	0.0050	0.50%	0.50%	9.1	9.1	99%	99%
14	9	2,105	0.0043	0.50%	0.50%	10.5	10.5	86%	86%
15	20	2,186	0.0091	0.50%	0.50%	10.9	10.9	183%	183%
16	19	2,384	0.0080	0.50%	0.50%	11.9	11.9	159%	159%
17	18	2,522	0.0071	0.50%	0.50%	12.6	12.6	143%	143%
18	8	2,754	0.0029	0.50%	0.50%	13.8	13.8	58%	58%
19	1	73	0.0137	0.50%	0.50%	0.4	0.4	274%	274%
20	0	55	0.0000	0.50%	0.50%	0.3	0.3	0%	0%
21	1	42	0.0238	0.50%	0.50%	0.2	0.2	476%	476%
22	0	37	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
23	0	34	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
24	1	24	0.0417	0.50%	0.50%	0.1	0.1	833%	833%
25	0	16	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
26	0	13	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
27	0	9	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
28	0	6	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
29	1	2	0.5000	0.50%	0.50%	0.0	0.0	10000%	10000%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	459	47,521	0.0097			407.8	407.8	113%	113%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	459	47,521	0.0097			407.8	407.8	113%	113%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 3D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Withdrawals (3)	Expected Withdrawals (4)	Actual / Expected (5)	Withdrawal Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	6,134	41	57.5	71%	0.67%	0.94%
2005	5,750	75	64.4	116%	1.30%	1.12%
2006	6,061	85	70.8	120%	1.40%	1.17%
2007	6,139	77	69.7	111%	1.25%	1.13%
2008	6,323	80	68.8	116%	1.27%	1.09%
2009	6,043	34	61.9	55%	0.56%	1.02%
2010	5,583	35	53.8	65%	0.63%	0.96%
2011	5,488	32	48.7	66%	0.58%	0.89%
2012	5,466	10	48.3	21%	0.18%	0.88%
2013	5,311	57	50.5	113%	1.07%	0.95%
Total	58,298	526	594.2	89%	0.90%	1.02%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	1	16	0.0625	40.00%	25.00%	6.4	4.0	16%	25%
41	2	30	0.0667	40.00%	25.67%	12.0	7.7	17%	26%
42	1	40	0.0250	40.00%	25.75%	16.0	10.3	6%	10%
43	8	54	0.1481	40.00%	27.78%	21.6	15.0	37%	53%
44	9	76	0.1184	40.00%	28.42%	30.4	21.6	30%	42%
45	23	104	0.2212	40.00%	29.23%	41.6	30.4	55%	76%
46	20	88	0.2273	40.95%	30.73%	36.0	27.0	55%	74%
47	21	91	0.2308	41.89%	31.62%	38.1	28.8	55%	73%
48	15	70	0.2143	42.74%	32.31%	29.9	22.6	50%	66%
49	8	69	0.1159	43.94%	33.87%	30.3	23.4	26%	34%
50	19	85	0.2235	45.65%	36.29%	38.8	30.9	49%	62%
51	18	59	0.3051	45.90%	35.81%	27.1	21.1	66%	85%
52	13	61	0.2131	45.97%	35.23%	28.0	21.5	46%	60%
53	11	57	0.1930	50.39%	41.88%	28.7	23.9	38%	46%
54	9	36	0.2500	49.50%	39.78%	17.8	14.3	51%	63%
55	8	32	0.2500	53.75%	45.63%	17.2	14.6	47%	55%
56	4	28	0.1429	49.29%	38.93%	13.8	10.9	29%	37%
57	12	41	0.2927	51.22%	41.83%	21.0	17.2	57%	70%
58	6	20	0.3000	49.00%	38.50%	9.8	7.7	61%	78%
59	4	22	0.1818	50.91%	41.36%	11.2	9.1	36%	44%
60	8	19	0.4211	53.68%	45.53%	10.2	8.7	78%	92%
61	3	9	0.3333	53.33%	45.00%	4.8	4.1	63%	74%
62	11	28	0.3929	60.00%	33.57%	16.8	9.4	65%	117%
63	7	15	0.4667	40.00%	27.00%	6.0	4.1	117%	173%
64	6	9	0.6667	40.00%	28.33%	3.6	2.6	167%	235%
65	4	22	0.1818	60.00%	30.45%	13.2	6.7	30%	60%
66	8	19	0.4211	40.00%	26.58%	7.6	5.1	105%	158%
67	3	11	0.2727	40.00%	27.73%	4.4	3.1	68%	98%
68	3	9	0.3333	40.00%	28.33%	3.6	2.6	83%	118%
69	2	6	0.3333	40.00%	25.00%	2.4	1.5	83%	133%
70	0	3	0.0000	100.00%	100.00%	3.0	3.0	0%	0%
Subtotal	267	1,229				551.5	412.5	48%	65%
Other	0	9	0.0000	100.00%	100.00%	9.0	9.0	0%	0%
Total	267	1,238				560.5	421.5	48%	63%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
41	1	2	0.5000	40.00%	35.00%	0.8	0.7	125%	143%
42	0	3	0.0000	40.00%	35.00%	1.2	1.1	0%	0%
43	5	15	0.3333	40.00%	35.00%	6.0	5.3	83%	95%
44	8	26	0.3077	40.00%	35.00%	10.4	9.1	77%	88%
45	17	44	0.3864	40.00%	35.00%	17.6	15.4	97%	110%
46	17	42	0.4048	42.00%	37.00%	17.6	15.5	96%	109%
47	17	43	0.3953	44.00%	39.00%	18.9	16.8	90%	101%
48	12	32	0.3750	46.00%	41.00%	14.7	13.1	82%	91%
49	7	34	0.2059	48.00%	43.00%	16.3	14.6	43%	48%
50	16	48	0.3333	50.00%	45.00%	24.0	21.6	67%	74%
51	15	29	0.5172	52.00%	47.00%	15.1	13.6	99%	110%
52	7	26	0.2692	54.00%	49.00%	14.0	12.7	50%	55%
53	10	37	0.2703	56.00%	51.00%	20.7	18.9	48%	53%
54	8	19	0.4211	58.00%	53.00%	11.0	10.1	73%	79%
55	8	22	0.3636	60.00%	55.00%	13.2	12.1	61%	66%
56	3	13	0.2308	60.00%	55.00%	7.8	7.2	38%	42%
57	8	23	0.3478	60.00%	55.00%	13.8	12.7	58%	63%
58	4	9	0.4444	60.00%	55.00%	5.4	5.0	74%	81%
59	4	12	0.3333	60.00%	55.00%	7.2	6.6	56%	61%
60	7	13	0.5385	60.00%	55.00%	7.8	7.2	90%	98%
61	3	6	0.5000	60.00%	55.00%	3.6	3.3	83%	91%
62	5	8	0.6250	60.00%	55.00%	4.8	4.4	104%	114%
63	1	3	0.3333	40.00%	35.00%	1.2	1.1	83%	95%
64	1	3	0.3333	40.00%	35.00%	1.2	1.1	83%	95%
65	2	4	0.5000	60.00%	55.00%	2.4	2.2	83%	91%
66	2	3	0.6667	40.00%	35.00%	1.2	1.1	167%	190%
67	2	3	0.6667	40.00%	35.00%	1.2	1.1	167%	190%
68	3	3	1.0000	40.00%	35.00%	1.2	1.1	250%	286%
69	0	0	N/A	40.00%	35.00%	0.0	0.0	0%	0%
70	0	1	0.0000	100.00%	100.00%	1.0	1.0	0%	0%
Subtotal	193	526				261.5	235.2	74%	82%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	193	526				261.5	235.2	74%	82%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	1	16	0.0625	40.00%	25.00%	6.4	4.0	16%	25%
41	1	28	0.0357	40.00%	25.00%	11.2	7.0	9%	14%
42	1	37	0.0270	40.00%	25.00%	14.8	9.3	7%	11%
43	3	39	0.0769	40.00%	25.00%	15.6	9.8	19%	31%
44	1	50	0.0200	40.00%	25.00%	20.0	12.5	5%	8%
45	6	60	0.1000	40.00%	25.00%	24.0	15.0	25%	40%
46	3	46	0.0652	40.00%	25.00%	18.4	11.5	16%	26%
47	4	48	0.0833	40.00%	25.00%	19.2	12.0	21%	33%
48	3	38	0.0789	40.00%	25.00%	15.2	9.5	20%	32%
49	1	35	0.0286	40.00%	25.00%	14.0	8.8	7%	11%
50	3	37	0.0811	40.00%	25.00%	14.8	9.3	20%	32%
51	3	30	0.1000	40.00%	25.00%	12.0	7.5	25%	40%
52	6	35	0.1714	40.00%	25.00%	14.0	8.8	43%	69%
53	1	20	0.0500	40.00%	25.00%	8.0	5.0	13%	20%
54	1	17	0.0588	40.00%	25.00%	6.8	4.3	15%	24%
55	0	10	0.0000	40.00%	25.00%	4.0	2.5	0%	0%
56	1	15	0.0667	40.00%	25.00%	6.0	3.8	17%	27%
57	4	18	0.2222	40.00%	25.00%	7.2	4.5	56%	89%
58	2	11	0.1818	40.00%	25.00%	4.4	2.8	45%	73%
59	0	10	0.0000	40.00%	25.00%	4.0	2.5	0%	0%
60	1	6	0.1667	40.00%	25.00%	2.4	1.5	42%	67%
61	0	3	0.0000	40.00%	25.00%	1.2	0.8	0%	0%
62	6	20	0.3000	60.00%	25.00%	12.0	5.0	50%	120%
63	6	12	0.5000	40.00%	25.00%	4.8	3.0	125%	200%
64	5	6	0.8333	40.00%	25.00%	2.4	1.5	208%	333%
65	2	18	0.1111	60.00%	25.00%	10.8	4.5	19%	44%
66	6	16	0.3750	40.00%	25.00%	6.4	4.0	94%	150%
67	1	8	0.1250	40.00%	25.00%	3.2	2.0	31%	50%
68	0	6	0.0000	40.00%	25.00%	2.4	1.5	0%	0%
69	2	6	0.3333	40.00%	25.00%	2.4	1.5	83%	133%
70	0	2	0.0000	100.00%	100.00%	2.0	2.0	0%	0%
Subtotal	74	703				290.0	177.3	26%	42%
Other	0	9	0.0000	100.00%	100.00%	9.0	9.0	0%	0%
Total	74	712				299.0	186.3	25%	40%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	3	43	0.0698	40.00%	30.58%	17.2	13.2	17%	23%
41	7	82	0.0854	40.00%	30.24%	32.8	24.8	21%	28%
42	10	102	0.0980	40.00%	30.59%	40.8	31.2	25%	32%
43	15	127	0.1181	40.00%	31.14%	50.8	39.6	30%	38%
44	16	171	0.0936	40.00%	31.73%	68.4	54.3	23%	29%
45	37	219	0.1689	40.00%	32.12%	87.6	70.4	42%	53%
46	40	208	0.1923	41.51%	34.06%	86.3	70.8	46%	56%
47	42	214	0.1963	42.99%	35.47%	92.0	75.9	46%	55%
48	46	244	0.1885	44.89%	38.05%	109.5	92.8	42%	50%
49	67	281	0.2384	46.66%	39.99%	131.1	112.4	51%	60%
50	86	314	0.2739	48.34%	41.69%	151.8	130.9	57%	66%
51	60	276	0.2174	50.22%	43.73%	138.6	120.7	43%	50%
52	71	235	0.3021	51.08%	44.00%	120.0	103.4	59%	69%
53	59	230	0.2565	53.57%	47.04%	123.2	108.2	48%	55%
54	45	159	0.2830	54.26%	47.19%	86.3	75.0	52%	60%
55	47	151	0.3113	57.22%	50.83%	86.4	76.8	54%	61%
56	36	123	0.2927	54.47%	46.71%	67.0	57.5	54%	63%
57	47	132	0.3561	55.61%	48.41%	73.4	63.9	64%	74%
58	28	89	0.3146	55.96%	48.93%	49.8	43.6	56%	64%
59	25	78	0.3205	56.15%	49.23%	43.8	38.4	57%	65%
60	21	45	0.4667	56.44%	49.67%	25.4	22.4	83%	94%
61	16	34	0.4706	55.88%	48.82%	19.0	16.6	84%	96%
62	31	70	0.4429	60.00%	39.14%	42.0	27.4	74%	113%
63	17	33	0.5152	40.00%	30.76%	13.2	10.2	129%	167%
64	11	20	0.5500	40.00%	31.00%	8.0	6.2	138%	177%
65	6	55	0.1091	60.00%	39.18%	33.0	21.6	18%	28%
66	11	39	0.2821	40.00%	29.10%	15.6	11.4	71%	97%
67	4	25	0.1600	40.00%	29.00%	10.0	7.3	40%	55%
68	5	21	0.2381	40.00%	28.81%	8.4	6.1	60%	83%
69	3	13	0.2308	40.00%	27.31%	5.2	3.6	58%	85%
70	1	7	0.1429	100.00%	100.00%	7.0	7.0	14%	14%
Subtotal	913	3,840				1,843.7	1,543.0	50%	59%
Other	2	25	0.0800	100.00%	100.00%	25.0	25.0	8%	8%
Total	915	3,865				1,868.7	1,568.0	49%	58%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	2	24	0.0833	40.00%	35.00%	9.6	8.4	21%	24%
41	6	43	0.1395	40.00%	35.00%	17.2	15.1	35%	40%
42	9	57	0.1579	40.00%	35.00%	22.8	20.0	39%	45%
43	12	78	0.1538	40.00%	35.00%	31.2	27.3	38%	44%
44	15	115	0.1304	40.00%	35.00%	46.0	40.3	33%	37%
45	31	156	0.1987	40.00%	35.00%	62.4	54.6	50%	57%
46	35	157	0.2229	42.00%	37.00%	65.9	58.1	53%	60%
47	36	160	0.2250	44.00%	39.00%	70.4	62.4	51%	58%
48	42	199	0.2111	46.00%	41.00%	91.5	81.6	46%	51%
49	55	234	0.2350	48.00%	43.00%	112.3	100.6	49%	55%
50	71	262	0.2710	50.00%	45.00%	131.0	117.9	54%	60%
51	51	235	0.2170	52.00%	47.00%	122.2	110.5	42%	46%
52	53	186	0.2849	54.00%	49.00%	100.4	91.1	53%	58%
53	46	195	0.2359	56.00%	51.00%	109.2	99.5	42%	46%
54	30	126	0.2381	58.00%	53.00%	73.1	66.8	41%	45%
55	40	130	0.3077	60.00%	55.00%	78.0	71.5	51%	56%
56	22	89	0.2472	60.00%	55.00%	53.4	49.0	41%	45%
57	33	103	0.3204	60.00%	55.00%	61.8	56.7	53%	58%
58	21	71	0.2958	60.00%	55.00%	42.6	39.1	49%	54%
59	20	63	0.3175	60.00%	55.00%	37.8	34.7	53%	58%
60	18	37	0.4865	60.00%	55.00%	22.2	20.4	81%	88%
61	13	27	0.4815	60.00%	55.00%	16.2	14.9	80%	88%
62	16	33	0.4848	60.00%	55.00%	19.8	18.2	81%	88%
63	9	19	0.4737	40.00%	35.00%	7.6	6.7	118%	135%
64	4	12	0.3333	40.00%	35.00%	4.8	4.2	83%	95%
65	4	26	0.1538	60.00%	55.00%	15.6	14.3	26%	28%
66	4	16	0.2500	40.00%	35.00%	6.4	5.6	63%	71%
67	3	10	0.3000	40.00%	35.00%	4.0	3.5	75%	86%
68	4	8	0.5000	40.00%	35.00%	3.2	2.8	125%	143%
69	0	3	0.0000	40.00%	35.00%	1.2	1.1	0%	0%
70	0	1	0.0000	100.00%	100.00%	1.0	1.0	0%	0%
Subtotal	705	2,875				1,440.9	1,297.2	49%	54%
Other	1	10	0.1000	100.00%	100.00%	10.0	10.0	10%	10%
Total	706	2,885				1,450.9	1,307.2	49%	54%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	1	19	0.0526	40.00%	25.00%	7.6	4.8	13%	21%
41	1	39	0.0256	40.00%	25.00%	15.6	9.8	6%	10%
42	1	45	0.0222	40.00%	25.00%	18.0	11.3	6%	9%
43	3	49	0.0612	40.00%	25.00%	19.6	12.3	15%	24%
44	1	56	0.0179	40.00%	25.00%	22.4	14.0	4%	7%
45	6	63	0.0952	40.00%	25.00%	25.2	15.8	24%	38%
46	5	51	0.0980	40.00%	25.00%	20.4	12.8	25%	39%
47	6	54	0.1111	40.00%	25.00%	21.6	13.5	28%	44%
48	4	45	0.0889	40.00%	25.00%	18.0	11.3	22%	36%
49	12	47	0.2553	40.00%	25.00%	18.8	11.8	64%	102%
50	15	52	0.2885	40.00%	25.00%	20.8	13.0	72%	115%
51	9	41	0.2195	40.00%	25.00%	16.4	10.3	55%	88%
52	18	49	0.3673	40.00%	25.00%	19.6	12.3	92%	147%
53	13	35	0.3714	40.00%	25.00%	14.0	8.8	93%	149%
54	15	33	0.4545	40.00%	25.00%	13.2	8.3	114%	182%
55	7	21	0.3333	40.00%	25.00%	8.4	5.3	83%	133%
56	14	34	0.4118	40.00%	25.00%	13.6	8.5	103%	165%
57	14	29	0.4828	40.00%	25.00%	11.6	7.3	121%	193%
58	7	18	0.3889	40.00%	25.00%	7.2	4.5	97%	156%
59	5	15	0.3333	40.00%	25.00%	6.0	3.8	83%	133%
60	3	8	0.3750	40.00%	25.00%	3.2	2.0	94%	150%
61	3	7	0.4286	40.00%	25.00%	2.8	1.8	107%	171%
62	15	37	0.4054	60.00%	25.00%	22.2	9.3	68%	162%
63	8	14	0.5714	40.00%	25.00%	5.6	3.5	143%	229%
64	7	8	0.8750	40.00%	25.00%	3.2	2.0	219%	350%
65	2	29	0.0690	60.00%	25.00%	17.4	7.3	11%	28%
66	7	23	0.3043	40.00%	25.00%	9.2	5.8	76%	122%
67	1	15	0.0667	40.00%	25.00%	6.0	3.8	17%	27%
68	1	13	0.0769	40.00%	25.00%	5.2	3.3	19%	31%
69	3	10	0.3000	40.00%	25.00%	4.0	2.5	75%	120%
70	1	6	0.1667	100.00%	100.00%	6.0	6.0	17%	17%
Subtotal	208	965				402.8	245.8	52%	85%
Other	1	15	0.0667	100.00%	100.00%	15.0	15.0	7%	7%
Total	209	980				417.8	260.8	50%	80%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 5A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
41	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
42	0	10	0.0000	20.00%	20.00%	2.0	2.0	0%	0%
43	3	13	0.2308	20.00%	20.00%	2.6	2.6	115%	115%
44	2	28	0.0714	20.00%	20.00%	5.6	5.6	36%	36%
45	3	62	0.0484	20.00%	20.00%	12.4	12.4	24%	24%
46	5	82	0.0610	20.00%	20.00%	16.4	16.4	30%	30%
47	9	77	0.1169	20.00%	20.00%	15.4	15.4	58%	58%
48	17	82	0.2073	20.00%	20.00%	16.4	16.4	104%	104%
49	15	78	0.1923	20.00%	20.00%	15.6	15.6	96%	96%
50	15	63	0.2381	20.00%	20.00%	12.6	12.6	119%	119%
51	13	70	0.1857	20.00%	20.00%	14.0	14.0	93%	93%
52	16	55	0.2909	20.00%	20.00%	11.0	11.0	145%	145%
53	7	39	0.1795	20.00%	20.00%	7.8	7.8	90%	90%
54	12	43	0.2791	20.00%	20.00%	8.6	8.6	140%	140%
55	12	36	0.3333	20.00%	20.00%	7.2	7.2	167%	167%
56	8	33	0.2424	20.00%	20.00%	6.6	6.6	121%	121%
57	9	29	0.3103	20.00%	20.00%	5.8	5.8	155%	155%
58	9	39	0.2308	20.00%	20.00%	7.8	7.8	115%	115%
59	8	18	0.4444	20.00%	20.00%	3.6	3.6	222%	222%
60	2	16	0.1250	20.00%	20.00%	3.2	3.2	63%	63%
61	5	11	0.4545	30.00%	30.00%	3.3	3.3	152%	152%
62	5	9	0.5556	40.00%	40.00%	3.6	3.6	139%	139%
63	3	9	0.3333	30.00%	30.00%	2.7	2.7	111%	111%
64	4	8	0.5000	30.00%	30.00%	2.4	2.4	167%	167%
65	2	3	0.6667	40.00%	40.00%	1.2	1.2	167%	167%
66	2	4	0.5000	30.00%	30.00%	1.2	1.2	167%	167%
67	1	2	0.5000	30.00%	30.00%	0.6	0.6	167%	167%
68	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
69	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	190	927				192.2	192.2	99%	99%
Other	2	5	0.4000	100.00%	100.00%	5.0	5.0	40%	40%
Total	192	932				197.2	197.2	97%	97%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
42	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
43	3	7	0.4286	20.00%	20.00%	1.4	1.4	214%	214%
44	2	22	0.0909	20.00%	20.00%	4.4	4.4	45%	45%
45	2	45	0.0444	20.00%	20.00%	9.0	9.0	22%	22%
46	4	65	0.0615	20.00%	20.00%	13.0	13.0	31%	31%
47	8	61	0.1311	20.00%	20.00%	12.2	12.2	66%	66%
48	14	65	0.2154	20.00%	20.00%	13.0	13.0	108%	108%
49	14	65	0.2154	20.00%	20.00%	13.0	13.0	108%	108%
50	15	53	0.2830	20.00%	20.00%	10.6	10.6	142%	142%
51	12	56	0.2143	20.00%	20.00%	11.2	11.2	107%	107%
52	13	48	0.2708	20.00%	20.00%	9.6	9.6	135%	135%
53	6	29	0.2069	20.00%	20.00%	5.8	5.8	103%	103%
54	11	38	0.2895	20.00%	20.00%	7.6	7.6	145%	145%
55	11	32	0.3438	20.00%	20.00%	6.4	6.4	172%	172%
56	8	29	0.2759	20.00%	20.00%	5.8	5.8	138%	138%
57	8	24	0.3333	20.00%	20.00%	4.8	4.8	167%	167%
58	8	33	0.2424	20.00%	20.00%	6.6	6.6	121%	121%
59	7	15	0.4667	20.00%	20.00%	3.0	3.0	233%	233%
60	2	12	0.1667	20.00%	20.00%	2.4	2.4	83%	83%
61	4	10	0.4000	30.00%	30.00%	3.0	3.0	133%	133%
62	4	8	0.5000	40.00%	40.00%	3.2	3.2	125%	125%
63	2	6	0.3333	30.00%	30.00%	1.8	1.8	111%	111%
64	3	4	0.7500	30.00%	30.00%	1.2	1.2	250%	250%
65	1	2	0.5000	40.00%	40.00%	0.8	0.8	125%	125%
66	1	3	0.3333	30.00%	30.00%	0.9	0.9	111%	111%
67	1	2	0.5000	30.00%	30.00%	0.6	0.6	167%	167%
68	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
69	0	0	N/A	30.00%	30.00%	0.0	0.0	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	166	740				153.4	153.4	108%	108%
Other	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Total	167	741				154.4	154.4	108%	108%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
41	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
42	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
43	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
44	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
45	1	17	0.0588	20.00%	20.00%	3.4	3.4	29%	29%
46	1	17	0.0588	20.00%	20.00%	3.4	3.4	29%	29%
47	1	16	0.0625	20.00%	20.00%	3.2	3.2	31%	31%
48	3	17	0.1765	20.00%	20.00%	3.4	3.4	88%	88%
49	1	13	0.0769	20.00%	20.00%	2.6	2.6	38%	38%
50	0	10	0.0000	20.00%	20.00%	2.0	2.0	0%	0%
51	1	14	0.0714	20.00%	20.00%	2.8	2.8	36%	36%
52	3	7	0.4286	20.00%	20.00%	1.4	1.4	214%	214%
53	1	10	0.1000	20.00%	20.00%	2.0	2.0	50%	50%
54	1	5	0.2000	20.00%	20.00%	1.0	1.0	100%	100%
55	1	4	0.2500	20.00%	20.00%	0.8	0.8	125%	125%
56	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
57	1	5	0.2000	20.00%	20.00%	1.0	1.0	100%	100%
58	1	6	0.1667	20.00%	20.00%	1.2	1.2	83%	83%
59	1	3	0.3333	20.00%	20.00%	0.6	0.6	167%	167%
60	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
61	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
62	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
63	1	3	0.3333	30.00%	30.00%	0.9	0.9	111%	111%
64	1	4	0.2500	30.00%	30.00%	1.2	1.2	83%	83%
65	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
66	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
67	0	0	N/A	30.00%	30.00%	0.0	0.0	0%	0%
68	0	0	N/A	30.00%	30.00%	0.0	0.0	0%	0%
69	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	24	187				38.8	38.8	62%	62%
Other	1	4	0.2500	100.00%	100.00%	4.0	4.0	25%	25%
Total	25	191				42.8	42.8	58%	58%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 5A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	1	11	0.0909	20.00%	20.00%	2.2	2.2	45%	45%
41	5	28	0.1786	20.00%	20.00%	5.6	5.6	89%	89%
42	8	50	0.1600	20.00%	20.00%	10.0	10.0	80%	80%
43	16	59	0.2712	20.00%	20.00%	11.8	11.8	136%	136%
44	10	78	0.1282	20.00%	20.00%	15.6	15.6	64%	64%
45	11	110	0.1000	20.00%	20.00%	22.0	22.0	50%	50%
46	16	137	0.1168	20.00%	20.00%	27.4	27.4	58%	58%
47	23	139	0.1655	20.00%	20.00%	27.8	27.8	83%	83%
48	36	163	0.2209	20.00%	20.00%	32.6	32.6	110%	110%
49	41	206	0.1990	20.00%	20.00%	41.2	41.2	100%	100%
50	64	212	0.3019	20.00%	20.00%	42.4	42.4	151%	151%
51	56	224	0.2500	20.00%	20.00%	44.8	44.8	125%	125%
52	56	211	0.2654	20.00%	20.00%	42.2	42.2	133%	133%
53	39	145	0.2690	20.00%	20.00%	29.0	29.0	134%	134%
54	52	167	0.3114	20.00%	20.00%	33.4	33.4	156%	156%
55	42	115	0.3652	20.00%	20.00%	23.0	23.0	183%	183%
56	28	105	0.2667	20.00%	20.00%	21.0	21.0	133%	133%
57	19	81	0.2346	20.00%	20.00%	16.2	16.2	117%	117%
58	22	79	0.2785	20.00%	20.00%	15.8	15.8	139%	139%
59	19	56	0.3393	20.00%	20.00%	11.2	11.2	170%	170%
60	15	46	0.3261	20.00%	20.00%	9.2	9.2	163%	163%
61	10	22	0.4545	30.00%	30.00%	6.6	6.6	152%	152%
62	8	17	0.4706	40.00%	40.00%	6.8	6.8	118%	118%
63	13	27	0.4815	30.00%	30.00%	8.1	8.1	160%	160%
64	6	14	0.4286	30.00%	30.00%	4.2	4.2	143%	143%
65	6	8	0.7500	40.00%	40.00%	3.2	3.2	188%	188%
66	2	6	0.3333	30.00%	30.00%	1.8	1.8	111%	111%
67	2	3	0.6667	30.00%	30.00%	0.9	0.9	222%	222%
68	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
69	1	3	0.3333	30.00%	30.00%	0.9	0.9	111%	111%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	629	2,524				518.2	518.2	121%	121%
Other	2	7	0.2857	100.00%	100.00%	7.0	7.0	29%	29%
Total	631	2,531				525.2	525.2	120%	120%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	1	7	0.1429	20.00%	20.00%	1.4	1.4	71%	71%
41	5	22	0.2273	20.00%	20.00%	4.4	4.4	114%	114%
42	7	37	0.1892	20.00%	20.00%	7.4	7.4	95%	95%
43	16	48	0.3333	20.00%	20.00%	9.6	9.6	167%	167%
44	10	64	0.1563	20.00%	20.00%	12.8	12.8	78%	78%
45	10	88	0.1136	20.00%	20.00%	17.6	17.6	57%	57%
46	15	117	0.1282	20.00%	20.00%	23.4	23.4	64%	64%
47	21	119	0.1765	20.00%	20.00%	23.8	23.8	88%	88%
48	23	132	0.1742	20.00%	20.00%	26.4	26.4	87%	87%
49	27	171	0.1579	20.00%	20.00%	34.2	34.2	79%	79%
50	52	188	0.2766	20.00%	20.00%	37.6	37.6	138%	138%
51	44	196	0.2245	20.00%	20.00%	39.2	39.2	112%	112%
52	43	192	0.2240	20.00%	20.00%	38.4	38.4	112%	112%
53	33	128	0.2578	20.00%	20.00%	25.6	25.6	129%	129%
54	41	149	0.2752	20.00%	20.00%	29.8	29.8	138%	138%
55	35	103	0.3398	20.00%	20.00%	20.6	20.6	170%	170%
56	21	92	0.2283	20.00%	20.00%	18.4	18.4	114%	114%
57	15	70	0.2143	20.00%	20.00%	14.0	14.0	107%	107%
58	17	69	0.2464	20.00%	20.00%	13.8	13.8	123%	123%
59	18	51	0.3529	20.00%	20.00%	10.2	10.2	176%	176%
60	14	41	0.3415	20.00%	20.00%	8.2	8.2	171%	171%
61	9	21	0.4286	30.00%	30.00%	6.3	6.3	143%	143%
62	7	16	0.4375	40.00%	40.00%	6.4	6.4	109%	109%
63	8	16	0.5000	30.00%	30.00%	4.8	4.8	167%	167%
64	5	10	0.5000	30.00%	30.00%	3.0	3.0	167%	167%
65	5	7	0.7143	40.00%	40.00%	2.8	2.8	179%	179%
66	1	5	0.2000	30.00%	30.00%	1.5	1.5	67%	67%
67	2	3	0.6667	30.00%	30.00%	0.9	0.9	222%	222%
68	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
69	0	2	0.0000	30.00%	30.00%	0.6	0.6	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	507	2,166				444.4	444.4	114%	114%
Other	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Total	508	2,168				446.4	446.4	114%	114%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 5C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
41	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
42	1	13	0.0769	20.00%	20.00%	2.6	2.6	38%	38%
43	0	11	0.0000	20.00%	20.00%	2.2	2.2	0%	0%
44	0	14	0.0000	20.00%	20.00%	2.8	2.8	0%	0%
45	1	22	0.0455	20.00%	20.00%	4.4	4.4	23%	23%
46	1	20	0.0500	20.00%	20.00%	4.0	4.0	25%	25%
47	2	20	0.1000	20.00%	20.00%	4.0	4.0	50%	50%
48	13	31	0.4194	20.00%	20.00%	6.2	6.2	210%	210%
49	14	35	0.4000	20.00%	20.00%	7.0	7.0	200%	200%
50	12	24	0.5000	20.00%	20.00%	4.8	4.8	250%	250%
51	12	28	0.4286	20.00%	20.00%	5.6	5.6	214%	214%
52	13	19	0.6842	20.00%	20.00%	3.8	3.8	342%	342%
53	6	17	0.3529	20.00%	20.00%	3.4	3.4	176%	176%
54	11	18	0.6111	20.00%	20.00%	3.6	3.6	306%	306%
55	7	12	0.5833	20.00%	20.00%	2.4	2.4	292%	292%
56	7	13	0.5385	20.00%	20.00%	2.6	2.6	269%	269%
57	4	11	0.3636	20.00%	20.00%	2.2	2.2	182%	182%
58	5	10	0.5000	20.00%	20.00%	2.0	2.0	250%	250%
59	1	5	0.2000	20.00%	20.00%	1.0	1.0	100%	100%
60	1	5	0.2000	20.00%	20.00%	1.0	1.0	100%	100%
61	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
62	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
63	5	11	0.4545	30.00%	30.00%	3.3	3.3	152%	152%
64	1	4	0.2500	30.00%	30.00%	1.2	1.2	83%	83%
65	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
66	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
67	0	0	N/A	30.00%	30.00%	0.0	0.0	0%	0%
68	0	0	N/A	30.00%	30.00%	0.0	0.0	0%	0%
69	1	1	1.0000	30.00%	30.00%	0.3	0.3	333%	333%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	122	358				73.8	73.8	165%	165%
Other	1	5	0.2000	100.00%	100.00%	5.0	5.0	20%	20%
Total	123	363				78.8	78.8	156%	156%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 6A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
41	0	6	0.0000	18.33%	16.67%	1.1	1.0	0%	0%
42	0	11	0.0000	17.73%	15.45%	2.0	1.7	0%	0%
43	2	27	0.0741	16.48%	12.96%	4.5	3.5	45%	57%
44	1	55	0.0182	16.36%	12.73%	9.0	7.0	11%	14%
45	15	107	0.1402	16.17%	12.34%	17.3	13.2	87%	114%
46	10	166	0.0602	16.11%	12.23%	26.8	20.3	37%	49%
47	10	238	0.0420	16.03%	12.06%	38.2	28.7	26%	35%
48	12	273	0.0440	15.93%	11.87%	43.5	32.4	28%	37%
49	19	297	0.0640	15.81%	11.62%	47.0	34.5	40%	55%
50	18	280	0.0643	15.71%	11.43%	44.0	32.0	41%	56%
51	17	262	0.0649	15.74%	11.49%	41.3	30.1	41%	56%
52	18	247	0.0729	15.61%	11.21%	38.6	27.7	47%	65%
53	17	218	0.0780	15.60%	11.19%	34.0	24.4	50%	70%
54	19	239	0.0795	15.56%	11.13%	37.2	26.6	51%	71%
55	36	278	0.1295	15.49%	15.49%	43.1	43.1	84%	84%
56	41	309	0.1327	16.17%	15.21%	50.0	47.0	82%	87%
57	43	301	0.1429	17.14%	15.23%	51.6	45.9	83%	94%
58	37	274	0.1350	18.08%	15.20%	49.5	41.7	75%	89%
59	41	242	0.1694	19.04%	15.21%	46.1	36.8	89%	111%
60	41	179	0.2291	20.00%	20.00%	35.8	35.8	115%	115%
61	20	135	0.1481	25.48%	20.96%	34.4	28.3	58%	71%
62	27	108	0.2500	30.83%	26.25%	33.3	28.4	81%	95%
63	23	79	0.2911	21.39%	30.00%	16.9	23.7	136%	97%
64	12	51	0.2353	21.76%	34.12%	11.1	17.4	108%	69%
65	12	36	0.3333	33.06%	36.53%	11.9	13.2	101%	91%
66	6	22	0.2727	22.73%	33.64%	5.0	7.4	120%	81%
67	0	12	0.0000	23.33%	33.33%	2.8	4.0	0%	0%
68	0	9	0.0000	22.22%	33.89%	2.0	3.1	0%	0%
69	0	5	0.0000	22.00%	34.00%	1.1	1.7	0%	0%
70	1	4	0.2500	100.00%	100.00%	4.0	4.0	25%	25%
Subtotal	498	4,472				783.1	664.7	64%	75%
Other	2	10	0.2000	100.00%	100.00%	10.0	10.0	20%	20%
Total	500	4,482				793.1	674.7	63%	74%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	15.00%	10.00%	0.0	0.0	0%	0%
41	0	2	0.0000	15.00%	10.00%	0.3	0.2	0%	0%
42	0	5	0.0000	15.00%	10.00%	0.8	0.5	0%	0%
43	1	19	0.0526	15.00%	10.00%	2.9	1.9	35%	53%
44	1	40	0.0250	15.00%	10.00%	6.0	4.0	17%	25%
45	15	82	0.1829	15.00%	10.00%	12.3	8.2	122%	183%
46	9	129	0.0698	15.00%	10.00%	19.4	12.9	47%	70%
47	9	189	0.0476	15.00%	10.00%	28.4	18.9	32%	48%
48	12	222	0.0541	15.00%	10.00%	33.3	22.2	36%	54%
49	17	249	0.0683	15.00%	10.00%	37.4	24.9	46%	68%
50	18	240	0.0750	15.00%	10.00%	36.0	24.0	50%	75%
51	16	223	0.0717	15.00%	10.00%	33.5	22.3	48%	72%
52	18	217	0.0829	15.00%	10.00%	32.6	21.7	55%	83%
53	17	192	0.0885	15.00%	10.00%	28.8	19.2	59%	89%
54	19	212	0.0896	15.00%	10.00%	31.8	21.2	60%	90%
55	36	251	0.1434	15.00%	15.00%	37.7	37.7	96%	96%
56	40	296	0.1351	16.00%	15.00%	47.4	44.4	84%	90%
57	42	287	0.1463	17.00%	15.00%	48.8	43.1	86%	98%
58	37	263	0.1407	18.00%	15.00%	47.3	39.5	78%	94%
59	38	232	0.1638	19.00%	15.00%	44.1	34.8	86%	109%
60	40	170	0.2353	20.00%	20.00%	34.0	34.0	118%	118%
61	19	122	0.1557	25.00%	20.00%	30.5	24.4	62%	78%
62	24	99	0.2424	30.00%	25.00%	29.7	24.8	81%	97%
63	21	68	0.3088	20.00%	30.00%	13.6	20.4	154%	103%
64	11	42	0.2619	20.00%	35.00%	8.4	14.7	131%	75%
65	10	25	0.4000	30.00%	35.00%	7.5	8.8	133%	114%
66	5	16	0.3125	20.00%	35.00%	3.2	5.6	156%	89%
67	0	8	0.0000	20.00%	35.00%	1.6	2.8	0%	0%
68	0	7	0.0000	20.00%	35.00%	1.4	2.5	0%	0%
69	0	4	0.0000	20.00%	35.00%	0.8	1.4	0%	0%
70	0	2	0.0000	100.00%	100.00%	2.0	2.0	0%	0%
Subtotal	475	3,913				661.1	542.7	72%	88%
Other	1	8	0.1250	100.00%	100.00%	8.0	8.0	13%	13%
Total	476	3,921				669.1	550.7	71%	86%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
41	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
42	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
43	1	8	0.1250	20.00%	20.00%	1.6	1.6	63%	63%
44	0	15	0.0000	20.00%	20.00%	3.0	3.0	0%	0%
45	0	25	0.0000	20.00%	20.00%	5.0	5.0	0%	0%
46	1	37	0.0270	20.00%	20.00%	7.4	7.4	14%	14%
47	1	49	0.0204	20.00%	20.00%	9.8	9.8	10%	10%
48	0	51	0.0000	20.00%	20.00%	10.2	10.2	0%	0%
49	2	48	0.0417	20.00%	20.00%	9.6	9.6	21%	21%
50	0	40	0.0000	20.00%	20.00%	8.0	8.0	0%	0%
51	1	39	0.0256	20.00%	20.00%	7.8	7.8	13%	13%
52	0	30	0.0000	20.00%	20.00%	6.0	6.0	0%	0%
53	0	26	0.0000	20.00%	20.00%	5.2	5.2	0%	0%
54	0	27	0.0000	20.00%	20.00%	5.4	5.4	0%	0%
55	0	27	0.0000	20.00%	20.00%	5.4	5.4	0%	0%
56	1	13	0.0769	20.00%	20.00%	2.6	2.6	38%	38%
57	1	14	0.0714	20.00%	20.00%	2.8	2.8	36%	36%
58	0	11	0.0000	20.00%	20.00%	2.2	2.2	0%	0%
59	3	10	0.3000	20.00%	20.00%	2.0	2.0	150%	150%
60	1	9	0.1111	20.00%	20.00%	1.8	1.8	56%	56%
61	1	13	0.0769	30.00%	30.00%	3.9	3.9	26%	26%
62	3	9	0.3333	40.00%	40.00%	3.6	3.6	83%	83%
63	2	11	0.1818	30.00%	30.00%	3.3	3.3	61%	61%
64	1	9	0.1111	30.00%	30.00%	2.7	2.7	37%	37%
65	2	11	0.1818	40.00%	40.00%	4.4	4.4	45%	45%
66	1	6	0.1667	30.00%	30.00%	1.8	1.8	56%	56%
67	0	4	0.0000	30.00%	30.00%	1.2	1.2	0%	0%
68	0	2	0.0000	30.00%	30.00%	0.6	0.6	0%	0%
69	0	1	0.0000	30.00%	30.00%	0.3	0.3	0%	0%
70	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Subtotal	23	559				122.0	122.0	19%	19%
Other	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Total	24	561				124.0	124.0	19%	19%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 6A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	4	0.0000	17.50%	15.00%	0.7	0.6	0%	0%
41	0	16	0.0000	17.19%	14.38%	2.8	2.3	0%	0%
42	1	40	0.0250	16.63%	13.25%	6.7	5.3	15%	19%
43	4	79	0.0506	16.33%	12.66%	12.9	10.0	31%	40%
44	3	119	0.0252	16.26%	12.52%	19.4	14.9	16%	20%
45	20	182	0.1099	16.18%	12.36%	29.5	22.5	68%	89%
46	15	251	0.0598	16.14%	12.27%	40.5	30.8	37%	49%
47	17	348	0.0489	16.02%	12.04%	55.8	41.9	30%	41%
48	26	433	0.0600	15.80%	11.59%	68.4	50.2	38%	52%
49	53	541	0.0980	15.71%	11.42%	85.0	61.8	62%	86%
50	70	621	0.1127	15.64%	11.29%	97.2	70.1	72%	100%
51	93	679	0.1370	15.58%	11.16%	105.8	75.8	88%	123%
52	91	712	0.1278	15.42%	10.84%	109.8	77.2	83%	118%
53	96	728	0.1319	15.36%	10.71%	111.8	78.0	86%	123%
54	92	711	0.1294	15.41%	10.83%	109.6	77.0	84%	119%
55	97	698	0.1390	15.38%	15.38%	107.4	107.4	90%	90%
56	107	643	0.1664	16.28%	15.35%	104.7	98.7	102%	108%
57	98	598	0.1639	17.29%	15.48%	103.4	92.6	95%	106%
58	76	511	0.1487	18.18%	15.44%	92.9	78.9	82%	96%
59	76	425	0.1788	19.09%	15.47%	81.2	65.8	94%	116%
60	78	331	0.2356	20.00%	20.00%	66.2	66.2	118%	118%
61	41	239	0.1715	25.73%	21.46%	61.5	51.3	67%	80%
62	56	184	0.3043	31.96%	27.93%	58.8	51.4	95%	109%
63	33	114	0.2895	22.37%	30.00%	25.5	34.2	129%	96%
64	19	81	0.2346	23.70%	33.15%	19.2	26.9	99%	71%
65	15	59	0.2542	34.41%	37.20%	20.3	22.0	74%	68%
66	14	48	0.2917	25.21%	32.40%	12.1	15.6	116%	90%
67	4	32	0.1250	25.63%	32.19%	8.2	10.3	49%	39%
68	10	26	0.3846	26.15%	31.92%	6.8	8.3	147%	120%
69	2	12	0.1667	25.00%	32.50%	3.0	3.9	67%	51%
70	2	9	0.2222	100.00%	100.00%	9.0	9.0	22%	22%
Subtotal	1,309	9,474				1,635.6	1,360.6	80%	96%
Other	5	30	0.1667	100.00%	100.00%	30.0	30.0	17%	17%
Total	1,314	9,504				1,665.6	1,390.6	79%	94%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	2	0.0000	15.00%	10.00%	0.3	0.2	0%	0%
41	0	9	0.0000	15.00%	10.00%	1.4	0.9	0%	0%
42	1	27	0.0370	15.00%	10.00%	4.1	2.7	25%	37%
43	3	58	0.0517	15.00%	10.00%	8.7	5.8	34%	52%
44	3	89	0.0337	15.00%	10.00%	13.4	8.9	22%	34%
45	20	139	0.1439	15.00%	10.00%	20.9	13.9	96%	144%
46	14	194	0.0722	15.00%	10.00%	29.1	19.4	48%	72%
47	13	277	0.0469	15.00%	10.00%	41.6	27.7	31%	47%
48	22	364	0.0604	15.00%	10.00%	54.6	36.4	40%	60%
49	38	464	0.0819	15.00%	10.00%	69.6	46.4	55%	82%
50	51	541	0.0943	15.00%	10.00%	81.2	54.1	63%	94%
51	69	600	0.1150	15.00%	10.00%	90.0	60.0	77%	115%
52	71	652	0.1089	15.00%	10.00%	97.8	65.2	73%	109%
53	83	676	0.1228	15.00%	10.00%	101.4	67.6	82%	123%
54	75	652	0.1150	15.00%	10.00%	97.8	65.2	77%	115%
55	87	645	0.1349	15.00%	15.00%	96.8	96.8	90%	90%
56	90	598	0.1505	16.00%	15.00%	95.7	89.7	94%	100%
57	76	541	0.1405	17.00%	15.00%	92.0	81.2	83%	94%
58	65	466	0.1395	18.00%	15.00%	83.9	69.9	77%	93%
59	67	385	0.1740	19.00%	15.00%	73.2	57.8	92%	116%
60	62	290	0.2138	20.00%	20.00%	58.0	58.0	107%	107%
61	36	204	0.1765	25.00%	20.00%	51.0	40.8	71%	88%
62	44	148	0.2973	30.00%	25.00%	44.4	37.0	99%	119%
63	27	87	0.3103	20.00%	30.00%	17.4	26.1	155%	103%
64	11	51	0.2157	20.00%	35.00%	10.2	17.9	108%	62%
65	10	33	0.3030	30.00%	35.00%	9.9	11.6	101%	87%
66	7	23	0.3043	20.00%	35.00%	4.6	8.1	152%	87%
67	2	14	0.1429	20.00%	35.00%	2.8	4.9	71%	41%
68	1	10	0.1000	20.00%	35.00%	2.0	3.5	50%	29%
69	0	6	0.0000	20.00%	35.00%	1.2	2.1	0%	0%
70	0	5	0.0000	100.00%	100.00%	5.0	5.0	0%	0%
Subtotal	1,048	8,250				1,359.5	1,084.5	77%	97%
Other	2	14	0.1429	100.00%	100.00%	14.0	14.0	14%	14%
Total	1,050	8,264				1,373.5	1,098.5	76%	96%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
41	0	7	0.0000	20.00%	20.00%	1.4	1.4	0%	0%
42	0	13	0.0000	20.00%	20.00%	2.6	2.6	0%	0%
43	1	21	0.0476	20.00%	20.00%	4.2	4.2	24%	24%
44	0	30	0.0000	20.00%	20.00%	6.0	6.0	0%	0%
45	0	43	0.0000	20.00%	20.00%	8.6	8.6	0%	0%
46	1	57	0.0175	20.00%	20.00%	11.4	11.4	9%	9%
47	4	71	0.0563	20.00%	20.00%	14.2	14.2	28%	28%
48	4	69	0.0580	20.00%	20.00%	13.8	13.8	29%	29%
49	15	77	0.1948	20.00%	20.00%	15.4	15.4	97%	97%
50	19	80	0.2375	20.00%	20.00%	16.0	16.0	119%	119%
51	24	79	0.3038	20.00%	20.00%	15.8	15.8	152%	152%
52	20	60	0.3333	20.00%	20.00%	12.0	12.0	167%	167%
53	13	52	0.2500	20.00%	20.00%	10.4	10.4	125%	125%
54	17	59	0.2881	20.00%	20.00%	11.8	11.8	144%	144%
55	10	53	0.1887	20.00%	20.00%	10.6	10.6	94%	94%
56	17	45	0.3778	20.00%	20.00%	9.0	9.0	189%	189%
57	22	57	0.3860	20.00%	20.00%	11.4	11.4	193%	193%
58	11	45	0.2444	20.00%	20.00%	9.0	9.0	122%	122%
59	9	40	0.2250	20.00%	20.00%	8.0	8.0	113%	113%
60	16	41	0.3902	20.00%	20.00%	8.2	8.2	195%	195%
61	5	35	0.1429	30.00%	30.00%	10.5	10.5	48%	48%
62	12	36	0.3333	40.00%	40.00%	14.4	14.4	83%	83%
63	6	27	0.2222	30.00%	30.00%	8.1	8.1	74%	74%
64	8	30	0.2667	30.00%	30.00%	9.0	9.0	89%	89%
65	5	26	0.1923	40.00%	40.00%	10.4	10.4	48%	48%
66	7	25	0.2800	30.00%	30.00%	7.5	7.5	93%	93%
67	2	18	0.1111	30.00%	30.00%	5.4	5.4	37%	37%
68	9	16	0.5625	30.00%	30.00%	4.8	4.8	188%	188%
69	2	6	0.3333	30.00%	30.00%	1.8	1.8	111%	111%
70	2	4	0.5000	100.00%	100.00%	4.0	4.0	50%	50%
Subtotal	261	1,224				276.1	276.1	95%	95%
Other	3	16	0.1875	100.00%	100.00%	16.0	16.0	19%	19%
Total	264	1,240				292.1	292.1	90%	90%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH UNREDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 6D Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	1,471	447	527.6	85%	30.39%	35.87%
2005	1,602	319	637.6	50%	19.91%	39.80%
2006	1,533	385	518.5	74%	25.11%	33.83%
2007	1,595	325	640.9	51%	20.38%	40.18%
2008	1,420	255	468.1	54%	17.96%	32.96%
2009	1,627	170	648.1	26%	10.45%	39.84%
2010	1,967	303	747.5	41%	15.40%	38.00%
2011	1,675	273	474.9	57%	16.30%	28.35%
2012	1,410	235	410.4	57%	16.67%	29.11%
2013	1,600	148	629.6	24%	9.25%	39.35%
Total	15,900	2,860	5,703.2	50%	17.99%	35.87%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	0	17	0.0000	2.00%	2.00%	0.3	0.3	0%	0%
56	0	22	0.0000	2.00%	2.00%	0.4	0.4	0%	0%
57	0	20	0.0000	2.00%	2.00%	0.4	0.4	0%	0%
58	2	24	0.0833	2.00%	2.00%	0.5	0.5	417%	417%
59	0	17	0.0000	3.00%	3.00%	0.5	0.5	0%	0%
60	0	11	0.0000	4.00%	4.00%	0.4	0.4	0%	0%
61	1	12	0.0833	5.00%	5.00%	0.6	0.6	167%	167%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	3	123				3.2	3.2	93%	93%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	3	123				3.2	3.2	93%	93%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

**TABLE 7A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	0	52	0.0000	2.00%	2.00%	1.0	1.0	0%	0%
56	1	48	0.0208	2.00%	2.00%	1.0	1.0	104%	104%
57	0	42	0.0000	2.00%	2.00%	0.8	0.8	0%	0%
58	2	44	0.0455	2.00%	2.00%	0.9	0.9	227%	227%
59	1	32	0.0313	3.00%	3.00%	1.0	1.0	104%	104%
60	0	25	0.0000	4.00%	4.00%	1.0	1.0	0%	0%
61	1	25	0.0400	5.00%	5.00%	1.3	1.3	80%	80%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	5	268				6.9	6.9	72%	72%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	5	268				6.9	6.9	72%	72%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	21	1	0.6	182%	4.76%	2.62%
2005	19	0	0.5	0%	0.00%	2.47%
2006	26	0	0.7	0%	0.00%	2.69%
2007	25	1	0.7	152%	4.00%	2.64%
2008	26	0	0.7	0%	0.00%	2.58%
2009	28	0	0.7	0%	0.00%	2.39%
2010	39	0	1.0	0%	0.00%	2.46%
2011	29	0	0.7	0%	0.00%	2.45%
2012	30	1	0.8	120%	3.33%	2.77%
2013	25	2	0.7	286%	8.00%	2.80%
Total	268	5	6.9	72%	1.87%	2.58%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.000%	0.000%	0	0	0%	0%
21	0	2	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
22	0	4	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
23	0	35	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
24	0	101	0.00000	0.050%	0.050%	0.1	0.1	0%	0%
25	0	192	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
26	0	321	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
27	0	445	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
28	0	517	0.00000	0.050%	0.050%	0.3	0.3	0%	0%
29	0	608	0.00000	0.050%	0.050%	0.3	0.3	0%	0%
30	0	683	0.00000	0.050%	0.050%	0.3	0.3	0%	0%
31	0	735	0.00000	0.050%	0.050%	0.4	0.4	0%	0%
32	0	840	0.00000	0.050%	0.050%	0.4	0.4	0%	0%
33	2	923	0.00217	0.050%	0.050%	0.5	0.5	437%	437%
34	1	952	0.00105	0.050%	0.050%	0.5	0.5	212%	212%
35	0	955	0.00000	0.049%	0.049%	0.5	0.5	0%	0%
36	0	946	0.00000	0.059%	0.059%	0.6	0.6	0%	0%
37	0	936	0.00000	0.069%	0.069%	0.6	0.6	0%	0%
38	1	1,000	0.00100	0.079%	0.079%	0.8	0.8	126%	126%
39	1	1,044	0.00096	0.089%	0.089%	0.9	0.9	107%	107%
40	1	1,090	0.00092	0.099%	0.099%	1.1	1.1	93%	93%
41	1	1,079	0.00093	0.109%	0.109%	1.2	1.2	85%	85%
42	0	1,046	0.00000	0.119%	0.119%	1.2	1.2	0%	0%
43	2	999	0.00200	0.129%	0.129%	1.3	1.3	156%	156%
44	1	980	0.00102	0.138%	0.138%	1.4	1.4	74%	74%
45	1	1,065	0.00094	0.149%	0.149%	1.6	1.6	63%	63%
46	1	1,054	0.00095	0.158%	0.158%	1.7	1.7	60%	60%
47	0	1,067	0.00000	0.168%	0.168%	1.8	1.8	0%	0%
48	1	1,028	0.00097	0.178%	0.178%	1.8	1.8	55%	55%
49	1	946	0.00106	0.188%	0.188%	1.8	1.8	56%	56%
50	0	883	0.00000	0.197%	0.197%	1.7	1.7	0%	0%
51	0	772	0.00000	0.207%	0.207%	1.6	1.6	0%	0%
52	3	674	0.00445	0.217%	0.217%	1.5	1.5	205%	205%
53	2	590	0.00339	0.227%	0.227%	1.3	1.3	149%	149%
54	1	541	0.00185	0.237%	0.237%	1.3	1.3	78%	78%
55	1	542	0.00185	0.247%	0.247%	1.3	1.3	75%	75%
56	0	544	0.00000	0.257%	0.257%	1.4	1.4	0%	0%
57	0	511	0.00000	0.268%	0.268%	1.4	1.4	0%	0%
58	3	455	0.00659	0.278%	0.278%	1.3	1.3	237%	237%
59	1	382	0.00262	0.288%	0.288%	1.1	1.1	91%	91%
60	0	293	0.00000	0.298%	0.298%	0.9	0.9	0%	0%
61	0	226	0.00000	0.317%	0.317%	0.7	0.7	0%	0%
62	0	187	0.00000	0.338%	0.338%	0.6	0.6	0%	0%
63	0	140	0.00000	0.358%	0.358%	0.5	0.5	0%	0%
64	1	95	0.01053	0.379%	0.379%	0.4	0.4	278%	278%
65	0	2	0.00000	0.400%	0.400%	0.0	0.0	0%	0%
66	0	0	N/A	0.000%	0.000%	0	0	0%	0%
67	0	0	N/A	0.000%	0.000%	0	0	0%	0%
68	0	0	N/A	0.000%	0.000%	0	0	0%	0%
69	0	0	N/A	0.000%	0.000%	0	0	0%	0%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	26	28,430				38.3	38.3	68%	68%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	142	0.00000	0.050%	0.050%	0.1	0.1	0%	0%
25-29	0	2,083	0.00000	0.049%	0.049%	1.0	1.0	0%	0%
30-34	3	4,133	0.00073	0.050%	0.050%	2.0	2.0	146%	146%
35-39	2	4,881	0.00041	0.070%	0.070%	3.4	3.4	59%	59%
40-44	5	5,194	0.00096	0.118%	0.118%	6.1	6.1	81%	81%
45-49	4	5,160	0.00078	0.168%	0.168%	8.7	8.7	46%	46%
50-54	6	3,460	0.00173	0.214%	0.214%	7.4	7.4	81%	81%
55-59	5	2,434	0.00205	0.266%	0.266%	6.5	6.5	77%	77%
60-64	1	941	0.00106	0.328%	0.328%	3.1	3.1	32%	32%
65-69	0	2	0.00000	0.400%	0.400%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>26</b>	<b>28,430</b>				<b>38.3</b>	<b>38.3</b>	<b>68%</b>	<b>68%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 8C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	28	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
21	0	74	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
22	0	167	0.00000	0.050%	0.050%	0.1	0.1	0%	0%
23	0	327	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
24	0	520	0.00000	0.050%	0.050%	0.3	0.3	0%	0%
25	0	737	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
26	1	974	0.00103	0.050%	0.050%	0.5	0.5	207%	207%
27	0	1,220	0.00000	0.050%	0.050%	0.6	0.6	0%	0%
28	0	1,400	0.00000	0.050%	0.050%	0.7	0.7	0%	0%
29	1	1,564	0.00064	0.050%	0.050%	0.8	0.8	129%	129%
30	0	1,705	0.00000	0.050%	0.050%	0.8	0.8	0%	0%
31	0	1,857	0.00000	0.050%	0.050%	0.9	0.9	0%	0%
32	0	2,040	0.00000	0.049%	0.049%	1.0	1.0	0%	0%
33	4	2,177	0.00184	0.050%	0.050%	1.1	1.1	371%	371%
34	2	2,269	0.00088	0.050%	0.050%	1.1	1.1	178%	178%
35	1	2,324	0.00043	0.049%	0.049%	1.2	1.2	87%	87%
36	0	2,345	0.00000	0.059%	0.059%	1.4	1.4	0%	0%
37	0	2,375	0.00000	0.069%	0.069%	1.6	1.6	0%	0%
38	2	2,492	0.00080	0.079%	0.079%	2.0	2.0	101%	101%
39	1	2,626	0.00038	0.089%	0.089%	2.3	2.3	43%	43%
40	3	2,732	0.00110	0.099%	0.099%	2.7	2.7	111%	111%
41	4	2,813	0.00142	0.109%	0.109%	3.1	3.1	131%	131%
42	1	2,810	0.00036	0.119%	0.119%	3.3	3.3	30%	30%
43	5	2,779	0.00180	0.129%	0.129%	3.6	3.6	140%	140%
44	3	2,690	0.00112	0.138%	0.138%	3.7	3.7	81%	81%
45	2	2,616	0.00076	0.148%	0.148%	3.9	3.9	52%	52%
46	3	2,531	0.00119	0.158%	0.158%	4.0	4.0	75%	75%
47	1	2,453	0.00041	0.168%	0.168%	4.1	4.1	24%	24%
48	3	2,418	0.00124	0.178%	0.178%	4.3	4.3	70%	70%
49	2	2,426	0.00082	0.188%	0.188%	4.6	4.6	44%	44%
50	5	2,382	0.00210	0.198%	0.198%	4.7	4.7	106%	106%
51	7	2,270	0.00308	0.208%	0.208%	4.7	4.7	148%	148%
52	11	2,098	0.00524	0.218%	0.218%	4.6	4.6	241%	241%
53	5	1,902	0.00263	0.228%	0.228%	4.3	4.3	115%	115%
54	4	1,712	0.00234	0.238%	0.238%	4.1	4.1	98%	98%
55	9	1,555	0.00579	0.248%	0.248%	3.9	3.9	233%	233%
56	5	1,381	0.00362	0.258%	0.258%	3.6	3.6	140%	140%
57	3	1,227	0.00244	0.268%	0.268%	3.3	3.3	91%	91%
58	7	1,037	0.00675	0.278%	0.278%	2.9	2.9	242%	242%
59	5	844	0.00592	0.288%	0.288%	2.4	2.4	206%	206%
60	2	656	0.00305	0.298%	0.298%	2.0	2.0	102%	102%
61	1	497	0.00201	0.318%	0.318%	1.6	1.6	63%	63%
62	5	400	0.01250	0.338%	0.338%	1.4	1.4	370%	370%
63	0	266	0.00000	0.357%	0.357%	0.9	0.9	0%	0%
64	3	179	0.01676	0.378%	0.378%	0.7	0.7	444%	444%
65	1	10	0.10000	0.400%	0.400%	0.0	0.0	2500%	2500%
66	0	8	0.00000	0.420%	0.420%	0.0	0.0	0%	0%
67	0	6	0.00000	0.480%	0.480%	0.0	0.0	0%	0%
68	0	6	0.00000	0.520%	0.520%	0.0	0.0	0%	0%
69	0	3	0.00000	0.560%	0.560%	0.0	0.0	0%	0%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	1	0	N/A	0.000%	0.000%	0	0	0%	0%
73	1	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	3	0.00000	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>114</b>	<b>73,931</b>				<b>99.2</b>	<b>99.2</b>	<b>115%</b>	<b>115%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	1,116	0.00000	0.050%	0.050%	0.6	0.6	0%	0%
25-29	2	5,895	0.00034	0.048%	0.048%	2.9	2.9	70%	70%
30-34	6	10,048	0.00060	0.050%	0.050%	5.0	5.0	121%	121%
35-39	4	12,162	0.00033	0.070%	0.070%	8.5	8.5	47%	47%
40-44	16	13,824	0.00116	0.119%	0.119%	16.4	16.4	98%	98%
45-49	11	12,444	0.00088	0.168%	0.168%	20.9	20.9	53%	53%
50-54	32	10,364	0.00309	0.216%	0.216%	22.4	22.4	143%	143%
55-59	29	6,044	0.00480	0.265%	0.265%	16.0	16.0	181%	181%
60-64	11	1,998	0.00551	0.326%	0.326%	6.5	6.5	169%	169%
65-69	1	33	0.03030	0.456%	0.456%	0.2	0.2	665%	665%
70-74	2	0	N/A			0	0	0%	0%
Other	0	3	0.00000	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>114</b>	<b>73,931</b>				<b>99.2</b>	<b>99.2</b>	<b>115%</b>	<b>115%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 8D Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	10-YEAR PERIOD ENDING 6/30/2013 Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	7,502	28	10.6	264%	0.373%	0.141%
2005	7,329	13	10.2	128%	0.177%	0.139%
2006	7,577	12	10.2	117%	0.158%	0.135%
2007	7,717	9	10.0	90%	0.117%	0.130%
2008	7,720	10	9.9	101%	0.130%	0.128%
2009	7,656	16	9.8	163%	0.209%	0.128%
2010	7,548	7	9.9	71%	0.093%	0.131%
2011	7,142	8	9.6	83%	0.112%	0.134%
2012	6,853	8	9.3	86%	0.117%	0.136%
2013	6,887	3	9.3	32%	0.044%	0.136%
Total	73,931	114	98.8	115%	0.154%	0.134%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.010%	0.010%	0	0	0%	0%
21	0	1	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
22	0	3	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
23	0	33	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
24	0	97	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25	0	187	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
26	0	314	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
27	0	437	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
28	0	512	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
29	0	601	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
30	0	676	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
31	0	725	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
32	0	833	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
33	0	916	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
34	0	948	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
35	0	952	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
36	0	942	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
37	0	932	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
38	0	994	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
39	0	1,042	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
40	0	1,087	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
41	0	1,077	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
42	1	1,044	0.00096	0.010%	0.010%	0.1	0.1	958%	958%
43	0	999	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
44	0	980	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
45	0	1,065	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
46	0	1,053	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
47	1	1,065	0.00094	0.010%	0.010%	0.1	0.1	939%	939%
48	0	1,027	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
49	0	944	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
50	0	882	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
51	0	771	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
52	0	674	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
53	0	590	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
54	0	541	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
55	0	542	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
56	0	544	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
57	0	511	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
58	0	455	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
59	0	382	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
60	0	293	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
61	0	226	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
62	0	187	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
63	0	140	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
64	0	95	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65	0	2	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
66	0	0	N/A	0.010%	0.010%	0	0	0%	0%
67	0	0	N/A	0.010%	0.010%	0	0	0%	0%
68	0	0	N/A	0.010%	0.010%	0	0	0%	0%
69	0	0	N/A	0.010%	0.010%	0	0	0%	0%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>2</b>	<b>28,321</b>				<b>2.8</b>	<b>2.8</b>	<b>71%</b>	<b>71%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	134	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25-29	0	2,051	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
30-34	0	4,098	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
35-39	0	4,862	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
40-44	1	5,187	0.00019	0.010%	0.010%	0.5	0.5	193%	193%
45-49	1	5,154	0.00019	0.010%	0.010%	0.5	0.5	194%	194%
50-54	0	3,458	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
55-59	0	2,434	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
60-64	0	941	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
65-69	0	2	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2</b>	<b>28,321</b>				<b>2.8</b>	<b>2.8</b>	<b>71%</b>	<b>71%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	27	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
21	0	71	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
22	0	151	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
23	0	306	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
24	0	491	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25	0	701	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
26	0	938	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
27	0	1,180	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
28	0	1,361	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
29	0	1,524	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
30	0	1,663	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
31	0	1,815	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
32	0	2,007	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
33	0	2,145	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
34	0	2,239	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
35	0	2,299	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
36	0	2,318	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
37	1	2,355	0.00042	0.010%	0.010%	0.2	0.2	425%	425%
38	0	2,471	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
39	0	2,609	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
40	1	2,711	0.00037	0.010%	0.010%	0.3	0.3	369%	369%
41	0	2,797	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
42	2	2,795	0.00072	0.010%	0.010%	0.3	0.3	716%	716%
43	0	2,770	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
44	0	2,682	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
45	0	2,609	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
46	0	2,522	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
47	1	2,443	0.00041	0.010%	0.010%	0.2	0.2	409%	409%
48	0	2,413	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
49	0	2,423	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
50	0	2,379	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
51	0	2,267	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
52	0	2,098	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
53	0	1,902	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
54	0	1,712	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
55	0	1,555	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
56	1	1,381	0.00072	0.010%	0.010%	0.1	0.1	724%	724%
57	0	1,227	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
58	0	1,037	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
59	0	844	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
60	0	656	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
61	0	497	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
62	0	400	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
63	0	266	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
64	0	179	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65	0	10	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
66	0	8	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
67	0	6	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
68	0	6	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
69	0	3	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	3			0.000%	0	0	0%	0%
Total	6	73,272				7.3	7.3	82%	82%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	1,046	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
25-29	0	5,704	0.00000	0.010%	0.010%	0.6	0.6	0%	0%
30-34	0	9,869	0.00000	0.010%	0.010%	1.0	1.0	0%	0%
35-39	1	12,052	0.00008	0.010%	0.010%	1.2	1.2	83%	83%
40-44	3	13,755	0.00022	0.010%	0.010%	1.4	1.4	218%	218%
45-49	1	12,410	0.00008	0.010%	0.010%	1.2	1.2	81%	81%
50-54	0	10,358	0.00000	0.010%	0.010%	1.0	1.0	0%	0%
55-59	1	6,044	0.00017	0.010%	0.010%	0.6	0.6	165%	165%
60-64	0	1,998	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
65-69	0	33	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	3	0.00000	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>6</b>	<b>73,272</b>				<b>7.3</b>	<b>7.3</b>	<b>82%</b>	<b>82%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 9B		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	7,371	1	0.7	138%	0.014%	0.010%
2005	7,201	1	0.7	142%	0.014%	0.010%
2006	7,466	2	0.7	273%	0.027%	0.010%
2007	7,634	0	0.7	0%	0.000%	0.010%
2008	7,652	0	0.8	0%	0.000%	0.010%
2009	7,627	0	0.7	0%	0.000%	0.010%
2010	7,518	2	0.7	273%	0.027%	0.010%
2011	7,112	0	0.7	0%	0.000%	0.010%
2012	6,827	0	0.7	0%	0.000%	0.010%
2013	6,864	0	0.7	0%	0.000%	0.010%
Total	73,272	6	7.2	84%	0.008%	0.010%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	0	N/A	0.00%	0.00%	0	0	0%	0%
28	0	2	0.0000	0.16%	0.12%	0.0	0.0	0%	0%
29	0	18	0.0000	0.18%	0.14%	0.0	0.0	0%	0%
30	0	51	0.0000	0.20%	0.15%	0.1	0.1	0%	0%
31	0	109	0.0000	0.22%	0.17%	0.2	0.2	0%	0%
32	0	152	0.0000	0.24%	0.18%	0.4	0.3	0%	0%
33	0	196	0.0000	0.26%	0.20%	0.5	0.4	0%	0%
34	0	202	0.0000	0.28%	0.21%	0.6	0.4	0%	0%
35	1	241	0.0041	0.30%	0.23%	0.7	0.5	138%	184%
36	0	326	0.0000	0.32%	0.24%	1.0	0.8	0%	0%
37	0	434	0.0000	0.34%	0.26%	1.5	1.1	0%	0%
38	1	532	0.0019	0.36%	0.27%	1.9	1.4	52%	70%
39	2	559	0.0036	0.38%	0.29%	2.1	1.6	94%	126%
40	1	577	0.0017	0.40%	0.30%	2.3	1.7	43%	58%
41	1	588	0.0017	0.42%	0.32%	2.5	1.9	40%	54%
42	1	660	0.0015	0.44%	0.33%	2.9	2.2	34%	46%
43	4	756	0.0053	0.46%	0.35%	3.5	2.6	115%	153%
44	4	836	0.0048	0.48%	0.36%	4.0	3.0	100%	133%
45	0	931	0.0000	0.50%	0.38%	4.7	3.5	0%	0%
46	5	929	0.0054	0.52%	0.39%	4.8	3.6	104%	138%
47	4	877	0.0046	0.54%	0.41%	4.7	3.6	84%	113%
48	2	821	0.0024	0.56%	0.42%	4.6	3.4	44%	58%
49	5	750	0.0067	0.58%	0.44%	4.4	3.3	115%	153%
50	2	685	0.0029	0.60%	0.45%	4.1	3.1	49%	65%
51	0	611	0.0000	0.62%	0.47%	3.8	2.8	0%	0%
52	1	552	0.0018	0.64%	0.48%	3.5	2.6	28%	38%
53	3	608	0.0049	0.66%	0.50%	4.0	3.0	75%	100%
54	1	614	0.0016	0.68%	0.51%	4.2	3.1	24%	32%
55	4	615	0.0065	0.70%	0.53%	4.3	3.2	93%	124%
56	2	571	0.0035	0.72%	0.54%	4.1	3.1	49%	65%
57	1	488	0.0020	0.74%	0.56%	3.6	2.7	28%	37%
58	1	386	0.0026	0.76%	0.57%	2.9	2.2	34%	45%
59	2	319	0.0063	0.78%	0.59%	2.5	1.9	80%	107%
60	2	257	0.0078	0.80%	0.60%	2.1	1.5	97%	130%
61	2	217	0.0092	0.82%	0.62%	1.8	1.3	112%	150%
62	0	186	0.0000	0.84%	0.63%	1.6	1.2	0%	0%
63	2	108	0.0185	0.86%	0.65%	0.9	0.7	215%	287%
64	0	77	0.0000	0.88%	0.66%	0.7	0.5	0%	0%
65	2	2	1.0000	0.90%	0.68%	0.0	0.0	11111%	14815%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	2	0.0000	0.96%	0.72%	0.0	0.0	0%	0%
69	1	3	0.3333	0.98%	0.74%	0.0	0.0	3401%	4535%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>57</b>	<b>16,848</b>				<b>91.6</b>	<b>68.7</b>	<b>62%</b>	<b>83%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	20	0.0000	0.18%	0.13%	0.0	0.0	0%	0%
30-34	0	710	0.0000	0.25%	0.19%	1.8	1.3	0%	0%
35-39	4	2,092	0.0019	0.35%	0.26%	7.3	5.5	55%	73%
40-44	11	3,417	0.0032	0.44%	0.33%	15.2	11.4	73%	97%
45-49	16	4,308	0.0037	0.54%	0.40%	23.2	17.4	69%	92%
50-54	7	3,070	0.0023	0.64%	0.48%	19.6	14.7	36%	48%
55-59	10	2,379	0.0042	0.73%	0.55%	17.4	13.1	57%	76%
60-64	6	845	0.0071	0.83%	0.62%	7.0	5.3	86%	114%
65-69	3	7	0.4286	0.95%	0.71%	0.1	0.0	4505%	6006%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>57</b>	<b>16,848</b>				<b>91.6</b>	<b>68.7</b>	<b>62%</b>	<b>83%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	0	N/A	0.00%	0.00%	0	0	0%	0%
28	0	2	0.0000	0.16%	0.12%	0.0	0.0	0%	0%
29	0	23	0.0000	0.18%	0.14%	0.0	0.0	0%	0%
30	0	59	0.0000	0.20%	0.15%	0.1	0.1	0%	0%
31	0	136	0.0000	0.22%	0.17%	0.3	0.2	0%	0%
32	1	226	0.0044	0.24%	0.18%	0.5	0.4	184%	246%
33	1	337	0.0030	0.26%	0.20%	0.9	0.7	114%	152%
34	0	410	0.0000	0.28%	0.21%	1.1	0.9	0%	0%
35	2	500	0.0040	0.30%	0.23%	1.5	1.1	133%	178%
36	3	613	0.0049	0.32%	0.24%	2.0	1.5	153%	204%
37	0	774	0.0000	0.34%	0.26%	2.6	2.0	0%	0%
38	3	952	0.0032	0.36%	0.27%	3.4	2.6	88%	117%
39	2	1,131	0.0018	0.38%	0.29%	4.3	3.2	47%	62%
40	1	1,275	0.0008	0.40%	0.30%	5.1	3.8	20%	26%
41	5	1,382	0.0036	0.42%	0.32%	5.8	4.4	86%	115%
42	3	1,497	0.0020	0.44%	0.33%	6.6	4.9	46%	61%
43	6	1,599	0.0038	0.46%	0.35%	7.4	5.5	82%	109%
44	4	1,642	0.0024	0.48%	0.36%	7.9	5.9	51%	68%
45	3	1,690	0.0018	0.50%	0.38%	8.5	6.3	36%	47%
46	8	1,657	0.0048	0.52%	0.39%	8.6	6.5	93%	124%
47	6	1,580	0.0038	0.54%	0.41%	8.5	6.4	70%	94%
48	6	1,603	0.0037	0.56%	0.42%	9.0	6.7	67%	89%
49	6	1,709	0.0035	0.58%	0.44%	9.9	7.4	61%	81%
50	6	1,726	0.0035	0.60%	0.45%	10.4	7.8	58%	77%
51	3	1,677	0.0018	0.62%	0.47%	10.4	7.8	29%	38%
52	7	1,581	0.0044	0.64%	0.48%	10.1	7.6	69%	92%
53	8	1,488	0.0054	0.66%	0.50%	9.8	7.4	81%	109%
54	2	1,358	0.0015	0.68%	0.51%	9.2	6.9	22%	29%
55	6	1,240	0.0048	0.70%	0.53%	8.7	6.5	69%	92%
56	6	1,101	0.0054	0.72%	0.54%	7.9	5.9	76%	101%
57	4	959	0.0042	0.74%	0.56%	7.1	5.3	56%	75%
58	4	766	0.0052	0.76%	0.57%	5.8	4.4	69%	92%
59	4	620	0.0065	0.78%	0.59%	4.8	3.6	83%	110%
60	4	482	0.0083	0.80%	0.60%	3.9	2.9	104%	138%
61	4	370	0.0108	0.82%	0.62%	3.0	2.3	132%	176%
62	0	302	0.0000	0.84%	0.63%	2.5	1.9	0%	0%
63	2	188	0.0106	0.86%	0.65%	1.6	1.2	124%	165%
64	0	132	0.0000	0.88%	0.66%	1.2	0.9	0%	0%
65	2	9	0.2222	0.90%	0.68%	0.1	0.1	2469%	3292%
66	0	8	0.0000	0.92%	0.69%	0.1	0.1	0%	0%
67	0	6	0.0000	0.94%	0.71%	0.1	0.0	0%	0%
68	0	6	0.0000	0.96%	0.72%	0.1	0.0	0%	0%
69	1	3	0.3333	0.98%	0.74%	0.0	0.0	3401%	4535%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	123	34,819				190.9	143.1	64%	86%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	25	0.0000	0.18%	0.13%	0.0	0.0	0%	0%
30-34	2	1,168	0.0017	0.26%	0.19%	3.0	2.2	67%	89%
35-39	10	3,970	0.0025	0.35%	0.26%	13.8	10.4	72%	96%
40-44	19	7,395	0.0026	0.44%	0.33%	32.7	24.5	58%	77%
45-49	29	8,239	0.0035	0.54%	0.40%	44.5	33.4	65%	87%
50-54	26	7,830	0.0033	0.64%	0.48%	49.9	37.4	52%	69%
55-59	24	4,686	0.0051	0.73%	0.55%	34.4	25.8	70%	93%
60-64	10	1,474	0.0068	0.83%	0.62%	12.2	9.2	82%	109%
65-69	3	32	0.0938	0.93%	0.70%	0.3	0.2	1007%	1342%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>123</b>	<b>34,819</b>				<b>190.9</b>	<b>143.1</b>	<b>64%</b>	<b>86%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 10D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	4,861	24	22.2	108%	0.49%	0.46%
2005	4,686	11	21.3	52%	0.23%	0.45%
2006	4,311	19	19.9	95%	0.44%	0.46%
2007	4,113	12	18.9	64%	0.29%	0.46%
2008	3,830	15	17.7	85%	0.39%	0.46%
2009	3,947	10	18.1	55%	0.25%	0.46%
2010	4,563	17	20.1	84%	0.37%	0.44%
2011	4,508	15	19.9	75%	0.33%	0.44%
2012	4,179	16	18.7	86%	0.38%	0.45%
2013	3,930	17	17.8	95%	0.43%	0.45%
Total	42,928	156	194.6	80%	0.36%	0.45%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20	0	2	0.0000	0.10%	0.06%	0.0	0.0	0%	0%
21	0	15	0.0000	0.10%	0.06%	0.0	0.0	0%	0%
22	0	58	0.0000	0.10%	0.06%	0.1	0.0	0%	0%
23	0	139	0.0000	0.10%	0.06%	0.1	0.1	0%	0%
24	0	259	0.0000	0.10%	0.06%	0.3	0.2	0%	0%
25	0	388	0.0000	0.10%	0.06%	0.4	0.2	0%	0%
26	0	454	0.0000	0.11%	0.06%	0.5	0.3	0%	0%
27	0	535	0.0000	0.12%	0.06%	0.6	0.3	0%	0%
28	0	594	0.0000	0.13%	0.06%	0.8	0.4	0%	0%
29	0	661	0.0000	0.14%	0.06%	0.9	0.4	0%	0%
30	0	767	0.0000	0.15%	0.07%	1.2	0.5	0%	0%
31	2	852	0.0023	0.16%	0.08%	1.4	0.7	147%	292%
32	1	893	0.0011	0.17%	0.09%	1.5	0.8	66%	122%
33	1	920	0.0011	0.18%	0.11%	1.7	1.0	60%	103%
34	1	892	0.0011	0.19%	0.12%	1.7	1.1	59%	93%
35	1	881	0.0011	0.20%	0.14%	1.8	1.2	57%	82%
36	4	950	0.0042	0.21%	0.16%	2.0	1.5	201%	265%
37	2	1,011	0.0020	0.22%	0.18%	2.2	1.8	90%	109%
38	4	1,050	0.0038	0.23%	0.21%	2.4	2.2	166%	185%
39	2	1,042	0.0019	0.24%	0.23%	2.5	2.4	80%	82%
40	4	1,012	0.0040	0.25%	0.26%	2.5	2.6	158%	151%
41	3	998	0.0030	0.26%	0.29%	2.6	2.9	116%	103%
42	4	999	0.0040	0.27%	0.33%	2.7	3.3	148%	123%
43	8	1,088	0.0074	0.28%	0.36%	3.0	3.9	263%	203%
44	5	1,117	0.0045	0.29%	0.40%	3.2	4.5	154%	112%
45	4	1,145	0.0035	0.30%	0.44%	3.4	5.0	116%	79%
46	8	1,116	0.0072	0.34%	0.48%	3.8	5.4	211%	148%
47	9	1,016	0.0089	0.38%	0.53%	3.9	5.4	233%	168%
48	6	942	0.0064	0.42%	0.58%	4.0	5.4	152%	111%
49	4	854	0.0047	0.46%	0.62%	3.9	5.3	102%	75%
50	6	766	0.0078	0.50%	0.68%	3.8	5.2	157%	116%
51	7	677	0.0103	0.56%	0.73%	3.8	4.9	185%	142%
52	7	605	0.0116	0.62%	0.79%	3.8	4.8	187%	147%
53	4	646	0.0062	0.68%	0.84%	4.4	5.5	91%	73%
54	5	652	0.0077	0.74%	0.90%	4.8	5.9	104%	85%
55	2	641	0.0031	0.80%	0.97%	5.1	6.2	39%	32%
56	9	582	0.0155	0.88%	1.03%	5.1	6.0	176%	150%
57	8	495	0.0162	0.96%	1.10%	4.8	5.4	168%	147%
58	12	398	0.0302	1.04%	1.17%	4.1	4.7	290%	258%
59	5	331	0.0151	1.12%	1.24%	3.7	4.1	135%	122%
60	3	267	0.0112	1.20%	1.31%	3.2	3.5	94%	85%
61	5	223	0.0224	1.30%	1.36%	2.9	3.0	172%	165%
62	2	185	0.0108	1.40%	1.44%	2.6	2.7	77%	75%
63	1	106	0.0094	1.50%	1.52%	1.6	1.6	63%	62%
64	1	77	0.0130	1.60%	1.60%	1.2	1.2	81%	81%
65	0	2	0.0000	1.70%	1.68%	0.0	0.0	0%	0%
66	0	0	N/A	1.82%	1.76%	0	0	0%	0%
67	0	0	N/A	1.94%	1.84%	0	0	0%	0%
68	1	2	0.5000	2.06%	1.92%	0.0	0.0	2427%	2604%
69	0	3	0.0000	2.18%	2.00%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	2.00%	0	0	0%	0%
71	0	0	N/A	0.00%	2.00%	0	0	0%	0%
72	0	0	N/A	0.00%	2.00%	0	0	0%	0%
73	0	0	N/A	0.00%	2.00%	0	0	0%	0%
74	0	0	N/A	0.00%	2.00%	0	0	0%	0%
Other	1	1	1.0000	0.00%	2.00%	0	0.0	0%	5000%
<b>Total</b>	<b>152</b>	<b>29,309</b>				<b>110.2</b>	<b>123.8</b>	<b>138%</b>	<b>123%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.12%	0	0	0%	0%
21	0	0	N/A	0.10%	0.12%	0	0	0%	0%
22	0	0	N/A	0.10%	0.12%	0	0	0%	0%
23	0	1	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
24	0	2	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
25	0	5	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
26	0	5	0.0000	0.11%	0.13%	0.0	0.0	0%	0%
27	0	7	0.0000	0.12%	0.14%	0.0	0.0	0%	0%
28	0	10	0.0000	0.13%	0.16%	0.0	0.0	0%	0%
29	0	13	0.0000	0.14%	0.17%	0.0	0.0	0%	0%
30	0	16	0.0000	0.15%	0.18%	0.0	0.0	0%	0%
31	0	19	0.0000	0.16%	0.19%	0.0	0.0	0%	0%
32	0	19	0.0000	0.17%	0.20%	0.0	0.0	0%	0%
33	0	21	0.0000	0.18%	0.22%	0.0	0.0	0%	0%
34	0	23	0.0000	0.19%	0.23%	0.0	0.1	0%	0%
35	0	27	0.0000	0.20%	0.24%	0.1	0.1	0%	0%
36	0	26	0.0000	0.21%	0.25%	0.1	0.1	0%	0%
37	0	25	0.0000	0.22%	0.26%	0.1	0.1	0%	0%
38	0	30	0.0000	0.23%	0.28%	0.1	0.1	0%	0%
39	0	29	0.0000	0.24%	0.29%	0.1	0.1	0%	0%
40	0	27	0.0000	0.25%	0.30%	0.1	0.1	0%	0%
41	0	25	0.0000	0.26%	0.31%	0.1	0.1	0%	0%
42	0	29	0.0000	0.27%	0.32%	0.1	0.1	0%	0%
43	0	27	0.0000	0.28%	0.34%	0.1	0.1	0%	0%
44	0	26	0.0000	0.29%	0.35%	0.1	0.1	0%	0%
45	0	34	0.0000	0.30%	0.36%	0.1	0.1	0%	0%
46	1	28	0.0357	0.34%	0.41%	0.1	0.1	1050%	875%
47	0	32	0.0000	0.38%	0.46%	0.1	0.1	0%	0%
48	1	34	0.0294	0.42%	0.50%	0.1	0.2	700%	584%
49	0	30	0.0000	0.46%	0.55%	0.1	0.2	0%	0%
50	0	30	0.0000	0.50%	0.60%	0.2	0.2	0%	0%
51	0	27	0.0000	0.56%	0.67%	0.2	0.2	0%	0%
52	0	21	0.0000	0.62%	0.74%	0.1	0.2	0%	0%
53	0	20	0.0000	0.68%	0.82%	0.1	0.2	0%	0%
54	0	17	0.0000	0.74%	0.89%	0.1	0.2	0%	0%
55	0	16	0.0000	0.80%	0.96%	0.1	0.2	0%	0%
56	1	16	0.0625	0.88%	1.06%	0.1	0.2	710%	592%
57	0	12	0.0000	0.96%	1.15%	0.1	0.1	0%	0%
58	0	7	0.0000	1.04%	1.25%	0.1	0.1	0%	0%
59	0	6	0.0000	1.12%	1.34%	0.1	0.1	0%	0%
60	0	5	0.0000	1.20%	1.44%	0.1	0.1	0%	0%
61	0	2	0.0000	1.30%	1.56%	0.0	0.0	0%	0%
62	1	3	0.3333	1.40%	1.68%	0.0	0.1	2381%	1984%
63	0	3	0.0000	1.50%	1.80%	0.0	0.1	0%	0%
64	0	2	0.0000	1.60%	1.92%	0.0	0.0	0%	0%
65	0	0	N/A	1.70%	2.04%	0	0	0%	0%
66	0	0	N/A	1.82%	2.18%	0	0	0%	0%
67	0	0	N/A	1.94%	2.33%	0	0	0%	0%
68	0	0	N/A	2.06%	2.47%	0	0	0%	0%
69	0	0	N/A	2.18%	2.62%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	4	757				2.9	3.5	138%	115%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual Disabilities</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected (3) x (5)</u> (7)	<u>Proposed (3) x (6)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
20	0	2	0.0000	0.10%	0.06%	0.0	0.0	0%	0%
21	0	15	0.0000	0.10%	0.06%	0.0	0.0	0%	0%
22	0	58	0.0000	0.10%	0.06%	0.1	0.0	0%	0%
23	0	140	0.0000	0.10%	0.06%	0.1	0.1	0%	0%
24	0	261	0.0000	0.10%	0.06%	0.3	0.2	0%	0%
25	0	393	0.0000	0.10%	0.06%	0.4	0.2	0%	0%
26	0	459	0.0000	0.11%	0.06%	0.5	0.3	0%	0%
27	0	542	0.0000	0.12%	0.06%	0.7	0.3	0%	0%
28	0	604	0.0000	0.13%	0.06%	0.8	0.4	0%	0%
29	0	674	0.0000	0.14%	0.07%	0.9	0.4	0%	0%
30	0	783	0.0000	0.15%	0.07%	1.2	0.6	0%	0%
31	2	871	0.0023	0.16%	0.08%	1.4	0.7	144%	277%
32	1	912	0.0011	0.17%	0.09%	1.6	0.9	64%	117%
33	1	941	0.0011	0.18%	0.11%	1.7	1.0	59%	99%
34	1	915	0.0011	0.19%	0.12%	1.7	1.1	58%	89%
35	1	908	0.0011	0.20%	0.14%	1.8	1.3	55%	78%
36	4	976	0.0041	0.21%	0.16%	2.0	1.6	195%	254%
37	2	1,036	0.0019	0.22%	0.18%	2.3	1.9	88%	105%
38	4	1,080	0.0037	0.23%	0.21%	2.5	2.2	161%	178%
39	2	1,071	0.0019	0.24%	0.23%	2.6	2.5	78%	80%
40	4	1,039	0.0038	0.25%	0.26%	2.6	2.7	154%	146%
41	3	1,023	0.0029	0.26%	0.29%	2.7	3.0	113%	100%
42	4	1,028	0.0039	0.27%	0.33%	2.8	3.4	144%	119%
43	8	1,115	0.0072	0.28%	0.36%	3.1	4.0	256%	198%
44	5	1,143	0.0044	0.29%	0.40%	3.3	4.6	151%	109%
45	4	1,179	0.0034	0.30%	0.44%	3.5	5.2	113%	77%
46	9	1,144	0.0079	0.34%	0.48%	3.9	5.5	231%	163%
47	9	1,048	0.0086	0.38%	0.53%	4.0	5.5	226%	163%
48	7	976	0.0072	0.42%	0.57%	4.1	5.6	171%	125%
49	4	884	0.0045	0.46%	0.62%	4.1	5.5	98%	73%
50	6	796	0.0075	0.50%	0.67%	4.0	5.4	151%	112%
51	7	704	0.0099	0.56%	0.73%	3.9	5.1	178%	137%
52	7	626	0.0112	0.62%	0.78%	3.9	4.9	180%	143%
53	4	666	0.0060	0.68%	0.84%	4.5	5.6	88%	71%
54	5	669	0.0075	0.74%	0.90%	5.0	6.0	101%	83%
55	2	657	0.0030	0.80%	0.97%	5.3	6.4	38%	31%
56	10	598	0.0167	0.88%	1.03%	5.3	6.2	190%	162%
57	8	507	0.0158	0.96%	1.10%	4.9	5.6	164%	143%
58	12	405	0.0296	1.04%	1.17%	4.2	4.7	285%	253%
59	5	337	0.0148	1.12%	1.24%	3.8	4.2	132%	119%
60	3	272	0.0110	1.20%	1.32%	3.3	3.6	92%	84%
61	5	225	0.0222	1.30%	1.36%	2.9	3.1	171%	163%
62	3	188	0.0160	1.40%	1.44%	2.6	2.7	114%	111%
63	1	109	0.0092	1.50%	1.53%	1.6	1.7	61%	60%
64	1	79	0.0127	1.60%	1.61%	1.3	1.3	79%	79%
65	0	2	0.0000	1.70%	1.68%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	1	2	0.5000	2.06%	1.92%	0.0	0.0	2427%	2604%
69	0	3	0.0000	2.18%	2.00%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	1	1	1.0000	0.00%	2.00%	0	0.0	0%	5000%
<b>Total</b>	<b>156</b>	<b>30,066</b>				<b>113.1</b>	<b>127.3</b>	<b>138%</b>	<b>123%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	473	0.0000	0.10%	0.06%	0.5	0.3	0%	0%
25-29	0	2,632	0.0000	0.12%	0.06%	3.2	1.6	0%	0%
30-34	5	4,324	0.0012	0.17%	0.09%	7.4	4.1	68%	122%
35-39	13	4,934	0.0026	0.22%	0.19%	10.9	9.1	119%	142%
40-44	24	5,214	0.0046	0.27%	0.33%	14.1	17.3	170%	139%
45-49	31	5,073	0.0061	0.37%	0.52%	19.0	26.6	163%	117%
50-54	29	3,346	0.0087	0.62%	0.78%	20.6	26.2	141%	111%
55-59	36	2,447	0.0147	0.93%	1.08%	22.8	26.4	158%	136%
60-64	12	858	0.0140	1.34%	1.40%	11.5	12.1	104%	100%
65-69	1	7	0.1429	2.01%	1.89%	0.1	0.1	711%	758%
70-74	0	0	N/A			0	0	0%	0%
Other	1	1	1.0000	0.00%	2.00%	0	0.0	0%	5000%
<b>Total</b>	<b>152</b>	<b>29,309</b>				<b>110.2</b>	<b>123.8</b>	<b>138%</b>	<b>123%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	3	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
25-29	0	40	0.0000	0.13%	0.15%	0.1	0.1	0%	0%
30-34	0	98	0.0000	0.17%	0.21%	0.2	0.2	0%	0%
35-39	0	137	0.0000	0.22%	0.26%	0.3	0.4	0%	0%
40-44	0	134	0.0000	0.27%	0.32%	0.4	0.4	0%	0%
45-49	2	158	0.0127	0.38%	0.46%	0.6	0.7	334%	278%
50-54	0	115	0.0000	0.60%	0.72%	0.7	0.8	0%	0%
55-59	1	57	0.0175	0.92%	1.10%	0.5	0.6	191%	159%
60-64	1	15	0.0667	1.37%	1.64%	0.2	0.2	488%	407%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>4</b>	<b>757</b>				<b>2.9</b>	<b>3.5</b>	<b>138%</b>	<b>115%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	476	0.0000	0.10%	0.06%	0.5	0.3	0%	0%
25-29	0	2,672	0.0000	0.12%	0.06%	3.3	1.7	0%	0%
30-34	5	4,422	0.0011	0.17%	0.10%	7.6	4.3	66%	116%
35-39	13	5,071	0.0026	0.22%	0.19%	11.2	9.5	116%	137%
40-44	24	5,348	0.0045	0.27%	0.33%	14.5	17.7	166%	136%
45-49	33	5,231	0.0063	0.37%	0.52%	19.6	27.3	169%	121%
50-54	29	3,461	0.0084	0.61%	0.78%	21.3	27.1	136%	107%
55-59	37	2,504	0.0148	0.93%	1.08%	23.4	27.0	158%	137%
60-64	13	873	0.0149	1.34%	1.41%	11.7	12.3	111%	106%
65-69	1	7	0.1429	2.01%	1.89%	0.1	0.1	711%	758%
70-74	0	0	N/A			0	0	0%	0%
Other	1	1	1.0000	0.00%	2.00%	0	0.0	0%	5000%
<b>Total</b>	<b>156</b>	<b>30,066</b>				<b>113.1</b>	<b>127.3</b>	<b>138%</b>	<b>123%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	28	0.0000	0.10%	0.06%	0.0	0.0	0%	0%
21	0	73	0.0000	0.10%	0.06%	0.1	0.0	0%	0%
22	0	166	0.0000	0.10%	0.06%	0.2	0.1	0%	0%
23	0	313	0.0000	0.10%	0.06%	0.3	0.2	0%	0%
24	0	496	0.0000	0.10%	0.06%	0.5	0.3	0%	0%
25	0	678	0.0000	0.10%	0.06%	0.7	0.4	0%	0%
26	0	845	0.0000	0.11%	0.06%	0.9	0.5	0%	0%
27	0	1,024	0.0000	0.12%	0.06%	1.2	0.6	0%	0%
28	1	1,132	0.0009	0.13%	0.06%	1.5	0.7	68%	147%
29	0	1,233	0.0000	0.14%	0.06%	1.7	0.8	0%	0%
30	0	1,359	0.0000	0.15%	0.07%	2.0	1.0	0%	0%
31	2	1,478	0.0014	0.16%	0.08%	2.4	1.2	85%	168%
32	1	1,609	0.0006	0.17%	0.09%	2.7	1.5	37%	68%
33	3	1,724	0.0017	0.18%	0.11%	3.1	1.8	97%	166%
34	3	1,746	0.0017	0.19%	0.12%	3.3	2.1	90%	142%
35	1	1,754	0.0006	0.20%	0.14%	3.5	2.4	29%	41%
36	5	1,807	0.0028	0.21%	0.16%	3.8	2.9	132%	174%
37	4	1,881	0.0021	0.22%	0.18%	4.1	3.4	97%	117%
38	6	1,970	0.0030	0.23%	0.21%	4.5	4.1	132%	148%
39	8	2,080	0.0038	0.24%	0.23%	5.0	4.8	160%	165%
40	7	2,138	0.0033	0.25%	0.26%	5.3	5.6	131%	125%
41	6	2,197	0.0027	0.26%	0.29%	5.7	6.4	105%	93%
42	11	2,196	0.0050	0.27%	0.33%	5.9	7.2	186%	153%
43	18	2,203	0.0082	0.28%	0.36%	6.2	8.0	292%	225%
44	14	2,150	0.0065	0.29%	0.40%	6.2	8.6	225%	162%
45	10	2,092	0.0048	0.30%	0.44%	6.3	9.2	159%	108%
46	11	2,002	0.0055	0.34%	0.48%	6.8	9.7	162%	114%
47	14	1,855	0.0075	0.38%	0.53%	7.0	9.8	199%	143%
48	10	1,831	0.0055	0.42%	0.58%	7.7	10.5	130%	95%
49	12	1,898	0.0063	0.46%	0.62%	8.7	11.9	137%	101%
50	13	1,884	0.0069	0.50%	0.68%	9.4	12.7	138%	102%
51	13	1,810	0.0072	0.56%	0.73%	10.1	13.2	128%	98%
52	14	1,687	0.0083	0.62%	0.79%	10.5	13.3	134%	106%
53	9	1,572	0.0057	0.68%	0.84%	10.7	13.3	84%	68%
54	13	1,425	0.0091	0.74%	0.90%	10.5	12.9	123%	101%
55	11	1,290	0.0085	0.80%	0.97%	10.3	12.5	107%	88%
56	22	1,133	0.0194	0.88%	1.03%	10.0	11.7	221%	188%
57	16	984	0.0163	0.96%	1.10%	9.4	10.8	169%	148%
58	15	791	0.0190	1.04%	1.17%	8.2	9.2	182%	162%
59	8	635	0.0126	1.12%	1.24%	7.1	7.9	112%	102%
60	7	495	0.0141	1.20%	1.31%	5.9	6.5	118%	108%
61	6	377	0.0159	1.30%	1.36%	4.9	5.1	122%	117%
62	4	303	0.0132	1.40%	1.44%	4.2	4.4	94%	92%
63	3	188	0.0160	1.50%	1.52%	2.8	2.9	106%	105%
64	2	133	0.0150	1.60%	1.60%	2.1	2.1	94%	94%
65	0	9	0.0000	1.70%	1.68%	0.2	0.2	0%	0%
66	0	7	0.0000	1.82%	1.76%	0.1	0.1	0%	0%
67	0	6	0.0000	1.94%	1.84%	0.1	0.1	0%	0%
68	1	6	0.1667	2.06%	1.92%	0.1	0.1	809%	868%
69	0	3	0.0000	2.18%	2.00%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	2.00%	0	0	0%	0%
71	0	0	N/A	0.00%	2.00%	0	0	0%	0%
72	0	0	N/A	0.00%	2.00%	0	0	0%	0%
73	0	0	N/A	0.00%	2.00%	0	0	0%	0%
74	0	0	N/A	0.00%	2.00%	0	0	0%	0%
Other	1	3	0.3333	0.00%	2.00%	0	0.1	0%	1667%
Total	305	58,699				224.5	254.8	136%	120%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.12%	0	0	0%	0%
21	0	1	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
22	0	1	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
23	0	4	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
24	0	7	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
25	0	14	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
26	0	19	0.0000	0.11%	0.13%	0.0	0.0	0%	0%
27	0	22	0.0000	0.12%	0.14%	0.0	0.0	0%	0%
28	0	26	0.0000	0.13%	0.16%	0.0	0.0	0%	0%
29	0	28	0.0000	0.14%	0.17%	0.0	0.0	0%	0%
30	0	31	0.0000	0.15%	0.18%	0.0	0.1	0%	0%
31	0	37	0.0000	0.16%	0.19%	0.1	0.1	0%	0%
32	0	41	0.0000	0.17%	0.20%	0.1	0.1	0%	0%
33	0	41	0.0000	0.18%	0.22%	0.1	0.1	0%	0%
34	0	48	0.0000	0.19%	0.23%	0.1	0.1	0%	0%
35	0	50	0.0000	0.20%	0.24%	0.1	0.1	0%	0%
36	0	49	0.0000	0.21%	0.25%	0.1	0.1	0%	0%
37	0	47	0.0000	0.22%	0.26%	0.1	0.1	0%	0%
38	0	55	0.0000	0.23%	0.28%	0.1	0.2	0%	0%
39	0	53	0.0000	0.24%	0.29%	0.1	0.2	0%	0%
40	0	55	0.0000	0.25%	0.30%	0.1	0.2	0%	0%
41	0	63	0.0000	0.26%	0.31%	0.2	0.2	0%	0%
42	1	61	0.0164	0.27%	0.32%	0.2	0.2	607%	506%
43	0	60	0.0000	0.28%	0.34%	0.2	0.2	0%	0%
44	0	62	0.0000	0.29%	0.35%	0.2	0.2	0%	0%
45	1	67	0.0149	0.30%	0.36%	0.2	0.2	498%	415%
46	1	61	0.0164	0.34%	0.41%	0.2	0.2	482%	402%
47	0	62	0.0000	0.38%	0.46%	0.2	0.3	0%	0%
48	1	59	0.0169	0.42%	0.50%	0.2	0.3	404%	336%
49	0	53	0.0000	0.46%	0.55%	0.2	0.3	0%	0%
50	0	51	0.0000	0.50%	0.60%	0.3	0.3	0%	0%
51	0	47	0.0000	0.56%	0.67%	0.3	0.3	0%	0%
52	0	42	0.0000	0.62%	0.74%	0.3	0.3	0%	0%
53	0	35	0.0000	0.68%	0.82%	0.2	0.3	0%	0%
54	0	28	0.0000	0.74%	0.89%	0.2	0.2	0%	0%
55	0	22	0.0000	0.80%	0.96%	0.2	0.2	0%	0%
56	1	22	0.0455	0.88%	1.06%	0.2	0.2	517%	430%
57	0	16	0.0000	0.96%	1.15%	0.2	0.2	0%	0%
58	0	12	0.0000	1.04%	1.25%	0.1	0.1	0%	0%
59	0	12	0.0000	1.12%	1.34%	0.1	0.2	0%	0%
60	0	8	0.0000	1.20%	1.44%	0.1	0.1	0%	0%
61	0	6	0.0000	1.30%	1.56%	0.1	0.1	0%	0%
62	1	5	0.2000	1.40%	1.68%	0.1	0.1	1429%	1190%
63	0	5	0.0000	1.50%	1.80%	0.1	0.1	0%	0%
64	0	3	0.0000	1.60%	1.92%	0.0	0.1	0%	0%
65	0	0	N/A	1.70%	2.04%	0	0	0%	0%
66	0	1	0.0000	1.82%	2.18%	0.0	0.0	0%	0%
67	0	0	N/A	1.94%	2.33%	0	0	0%	0%
68	0	0	N/A	2.06%	2.47%	0	0	0%	0%
69	0	0	N/A	2.18%	2.62%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>6</b>	<b>1,492</b>				<b>5.4</b>	<b>6.5</b>	<b>111%</b>	<b>93%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	28	0.0000	0.10%	0.06%	0.0	0.0	0%	0%
21	0	74	0.0000	0.10%	0.06%	0.1	0.0	0%	0%
22	0	167	0.0000	0.10%	0.06%	0.2	0.1	0%	0%
23	0	317	0.0000	0.10%	0.06%	0.3	0.2	0%	0%
24	0	503	0.0000	0.10%	0.06%	0.5	0.3	0%	0%
25	0	692	0.0000	0.10%	0.06%	0.7	0.4	0%	0%
26	0	864	0.0000	0.11%	0.06%	1.0	0.5	0%	0%
27	0	1,046	0.0000	0.12%	0.06%	1.3	0.6	0%	0%
28	1	1,158	0.0009	0.13%	0.06%	1.5	0.7	66%	138%
29	0	1,261	0.0000	0.14%	0.07%	1.8	0.8	0%	0%
30	0	1,390	0.0000	0.15%	0.07%	2.1	1.0	0%	0%
31	2	1,515	0.0013	0.16%	0.08%	2.4	1.3	83%	159%
32	1	1,650	0.0006	0.17%	0.09%	2.8	1.6	36%	64%
33	3	1,765	0.0017	0.18%	0.11%	3.2	1.9	94%	158%
34	3	1,794	0.0017	0.19%	0.12%	3.4	2.2	88%	135%
35	1	1,804	0.0006	0.20%	0.14%	3.6	2.6	28%	39%
36	5	1,856	0.0027	0.21%	0.16%	3.9	3.0	128%	167%
37	4	1,928	0.0021	0.22%	0.18%	4.2	3.5	94%	113%
38	6	2,025	0.0030	0.23%	0.21%	4.7	4.2	129%	143%
39	8	2,133	0.0038	0.24%	0.23%	5.1	5.0	156%	160%
40	7	2,193	0.0032	0.25%	0.26%	5.5	5.8	128%	121%
41	6	2,260	0.0027	0.26%	0.29%	5.9	6.6	102%	90%
42	12	2,257	0.0053	0.27%	0.33%	6.1	7.4	197%	163%
43	18	2,263	0.0080	0.28%	0.36%	6.3	8.2	284%	220%
44	14	2,212	0.0063	0.29%	0.40%	6.4	8.8	218%	159%
45	11	2,159	0.0051	0.30%	0.44%	6.5	9.5	170%	116%
46	12	2,063	0.0058	0.34%	0.48%	7.0	9.9	171%	121%
47	14	1,917	0.0073	0.38%	0.53%	7.3	10.1	192%	139%
48	11	1,890	0.0058	0.42%	0.57%	7.9	10.8	139%	102%
49	12	1,951	0.0062	0.46%	0.62%	9.0	12.1	134%	99%
50	13	1,935	0.0067	0.50%	0.67%	9.7	13.0	134%	100%
51	13	1,857	0.0070	0.56%	0.73%	10.4	13.5	125%	96%
52	14	1,729	0.0081	0.62%	0.78%	10.7	13.6	131%	103%
53	9	1,607	0.0056	0.68%	0.84%	10.9	13.6	82%	66%
54	13	1,453	0.0089	0.74%	0.90%	10.8	13.1	121%	99%
55	11	1,312	0.0084	0.80%	0.97%	10.5	12.7	105%	87%
56	23	1,155	0.0199	0.88%	1.03%	10.2	11.9	226%	193%
57	16	1,000	0.0160	0.96%	1.10%	9.6	11.0	167%	145%
58	15	803	0.0187	1.04%	1.17%	8.4	9.4	180%	160%
59	8	647	0.0124	1.12%	1.24%	7.2	8.0	110%	100%
60	7	503	0.0139	1.20%	1.32%	6.0	6.6	116%	106%
61	6	383	0.0157	1.30%	1.36%	5.0	5.2	121%	115%
62	5	308	0.0162	1.40%	1.44%	4.3	4.4	116%	112%
63	3	193	0.0155	1.50%	1.53%	2.9	2.9	104%	102%
64	2	136	0.0147	1.60%	1.61%	2.2	2.2	92%	92%
65	0	9	0.0000	1.70%	1.68%	0.2	0.2	0%	0%
66	0	8	0.0000	1.82%	1.81%	0.1	0.1	0%	0%
67	0	6	0.0000	1.94%	1.84%	0.1	0.1	0%	0%
68	1	6	0.1667	2.06%	1.92%	0.1	0.1	809%	868%
69	0	3	0.0000	2.18%	2.00%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	1	3	0.3333	0.00%	2.00%	0	0.1	0%	1667%
Total	311	60,191				229.9	261.3	135%	119%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	1,076	0.0000	0.10%	0.06%	1.1	0.6	0%	0%
25-29	1	4,912	0.0002	0.12%	0.06%	6.0	3.0	17%	33%
30-34	9	7,916	0.0011	0.17%	0.10%	13.6	7.6	66%	119%
35-39	24	9,492	0.0025	0.22%	0.19%	21.0	17.6	114%	136%
40-44	56	10,884	0.0051	0.27%	0.33%	29.4	35.8	191%	156%
45-49	57	9,678	0.0059	0.38%	0.53%	36.6	51.1	156%	112%
50-54	62	8,378	0.0074	0.61%	0.78%	51.3	65.4	121%	95%
55-59	72	4,833	0.0149	0.93%	1.08%	45.1	52.1	160%	138%
60-64	22	1,496	0.0147	1.34%	1.40%	20.0	21.0	110%	105%
65-69	1	31	0.0323	1.89%	1.81%	0.6	0.6	171%	179%
70-74	0	0	N/A			0	0	0%	0%
Other	1	3	0.3333	0.00%	2.00%	0	0.1	0%	1667%
Total	305	58,699				224.5	254.8	136%	120%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	13	0.0000	0.10%	0.12%	0.0	0.0	0%	0%
25-29	0	109	0.0000	0.12%	0.15%	0.1	0.2	0%	0%
30-34	0	198	0.0000	0.17%	0.21%	0.3	0.4	0%	0%
35-39	0	254	0.0000	0.22%	0.26%	0.6	0.7	0%	0%
40-44	1	301	0.0033	0.27%	0.32%	0.8	1.0	123%	102%
45-49	3	302	0.0099	0.38%	0.45%	1.1	1.4	264%	220%
50-54	0	203	0.0000	0.60%	0.72%	1.2	1.5	0%	0%
55-59	1	84	0.0119	0.93%	1.12%	0.8	0.9	128%	107%
60-64	1	27	0.0370	1.36%	1.63%	0.4	0.4	272%	227%
65-69	0	1	0.0000	1.82%	2.18%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>6</b>	<b>1,492</b>				<b>5.4</b>	<b>6.5</b>	<b>111%</b>	<b>93%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 11C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,089	0.0000	0.10%	0.06%	1.1	0.7	0%	0%
25-29	1	5,021	0.0002	0.12%	0.06%	6.2	3.2	16%	31%
30-34	9	8,114	0.0011	0.17%	0.10%	13.9	8.0	65%	113%
35-39	24	9,746	0.0025	0.22%	0.19%	21.5	18.3	112%	131%
40-44	57	11,185	0.0051	0.27%	0.33%	30.2	36.8	189%	155%
45-49	60	9,980	0.0060	0.38%	0.53%	37.7	52.5	159%	114%
50-54	62	8,581	0.0072	0.61%	0.78%	52.5	66.8	118%	93%
55-59	73	4,917	0.0148	0.93%	1.08%	45.9	53.1	159%	138%
60-64	23	1,523	0.0151	1.34%	1.41%	20.4	21.4	113%	107%
65-69	1	32	0.0313	1.89%	1.82%	0.6	0.6	166%	172%
70-74	0	0	N/A			0	0	0%	0%
Other	1	3	0.3333	0.00%	2.00%	0	0.1	0%	1667%
Total	311	60,191				229.9	261.3	135%	119%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 11D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	7,502	29	24.5	118%	0.39%	0.33%
2005	7,329	27	23.7	114%	0.37%	0.32%
2006	7,577	56	24.0	233%	0.74%	0.32%
2007	7,717	43	23.4	183%	0.56%	0.30%
2008	7,720	41	23.1	177%	0.53%	0.30%
2009	7,656	33	23.2	142%	0.43%	0.30%
2010	7,548	31	23.6	131%	0.41%	0.31%
2011	7,142	51	22.9	223%	0.71%	0.32%
2012	6,853	27	22.2	122%	0.39%	0.32%
2013	6,887	32	22.3	143%	0.46%	0.32%
Total	73,931	370	233.0	159%	0.50%	0.32%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 12A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	13	\$ 550,402	\$ 580,569	\$ 588,930	78%	5.48%	7.00%
1	522	23,115,435	25,556,430	25,195,824	117%	10.56%	9.00%
2	673	29,839,019	33,346,772	33,121,311	107%	11.76%	11.00%
3	1,033	49,572,710	57,958,780	57,504,344	106%	16.92%	16.00%
4	1,712	99,068,407	122,724,456	133,742,349	68%	23.88%	35.00%
5	2,311	166,553,452	200,724,510	208,191,815	82%	20.52%	25.00%
6	1,928	165,370,449	172,599,941	172,646,749	99%	4.37%	4.40%
7	1,581	140,580,593	143,199,263	147,047,300	40%	1.86%	4.60%
8	1,217	107,264,522	110,757,825	112,413,219	68%	3.26%	4.80%
9	1,280	110,485,877	116,714,087	117,336,001	91%	5.64%	6.20%
10	1,525	137,134,356	143,754,728	143,991,074	97%	4.83%	5.00%
11	1,629	152,644,300	156,345,773	160,123,871	49%	2.42%	4.90%
12	1,622	154,053,881	157,265,580	161,448,467	43%	2.08%	4.80%
13	862	82,210,682	83,475,236	86,074,584	33%	1.54%	4.70%
14	763	71,395,293	73,676,324	75,607,615	54%	3.19%	5.90%
15	583	55,808,957	57,262,634	58,320,360	58%	2.60%	4.50%
16	810	78,079,128	80,601,980	81,514,610	73%	3.23%	4.40%
17	728	72,468,651	72,811,286	75,584,803	11%	0.47%	4.30%
18	509	50,474,393	50,805,435	52,594,318	16%	0.66%	4.20%
19	886	88,801,573	91,904,987	93,596,858	65%	3.49%	5.40%
20	754	77,794,344	78,821,524	80,906,118	33%	1.32%	4.00%
21	722	75,467,606	75,353,320	78,410,843	-4%	-0.15%	3.90%
22	831	86,970,086	88,040,032	90,274,949	32%	1.23%	3.80%
23	577	60,707,717	60,991,098	62,953,903	13%	0.47%	3.70%
24	477	50,273,214	50,940,707	52,083,050	37%	1.33%	3.60%
25	422	44,926,361	45,208,826	46,498,784	18%	0.63%	3.50%
26	287	30,582,336	30,694,565	31,652,718	10%	0.37%	3.50%
27	217	23,022,484	23,171,745	23,828,271	19%	0.65%	3.50%
28	204	22,395,240	22,797,620	23,179,073	51%	1.80%	3.50%
29	127	14,561,285	14,570,107	15,070,930	2%	0.06%	3.50%
30+	91	10,459,389	10,524,186	10,825,468	18%	0.62%	3.50%
Total	26,896	2,332,632,142	2,453,180,326	2,512,328,507	67%	5.17%	7.70%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Proposed Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	13	\$ 550,402	\$ 580,569	\$ 597,186	64%	5.48%	8.50%
1	522	23,115,435	25,556,430	25,542,556	101%	10.56%	10.50%
2	673	29,839,019	33,346,772	33,270,506	102%	11.76%	11.50%
3	1,033	49,572,710	57,958,780	57,752,207	103%	16.92%	16.50%
4	1,712	99,068,407	122,724,456	127,798,245	82%	23.88%	29.00%
5	2,311	166,553,452	200,724,510	206,526,280	85%	20.52%	24.00%
6	1,928	165,370,449	172,599,941	173,473,601	89%	4.37%	4.90%
7	1,581	140,580,593	143,199,263	147,750,203	37%	1.86%	5.10%
8	1,217	107,264,522	110,757,825	112,949,542	61%	3.26%	5.30%
9	1,280	110,485,877	116,714,087	117,888,431	84%	5.64%	6.70%
10	1,525	137,134,356	143,754,728	144,676,746	88%	4.83%	5.50%
11	1,629	152,644,300	156,345,773	160,887,092	45%	2.42%	5.40%
12	1,622	154,053,881	157,265,580	162,218,737	39%	2.08%	5.30%
13	862	82,210,682	83,475,236	86,485,637	30%	1.54%	5.20%
14	763	71,395,293	73,676,324	75,964,592	50%	3.19%	6.40%
15	583	55,808,957	57,262,634	58,599,405	52%	2.60%	5.00%
16	810	78,079,128	80,601,980	81,905,005	66%	3.23%	4.90%
17	728	72,468,651	72,811,286	75,947,146	10%	0.47%	4.80%
18	509	50,474,393	50,805,435	52,846,689	14%	0.66%	4.70%
19	886	88,801,573	91,904,987	94,040,866	59%	3.49%	5.90%
20	754	77,794,344	78,821,524	81,295,089	29%	1.32%	4.50%
21	722	75,467,606	75,353,320	78,788,181	-3%	-0.15%	4.40%
22	831	86,970,086	88,040,032	90,709,800	29%	1.23%	4.30%
23	577	60,707,717	60,991,098	63,257,441	11%	0.47%	4.20%
24	477	50,273,214	50,940,707	52,334,416	32%	1.33%	4.10%
25	422	44,926,361	45,208,826	46,723,415	16%	0.63%	4.00%
26	287	30,582,336	30,694,565	31,805,629	9%	0.37%	4.00%
27	217	23,022,484	23,171,745	23,943,383	16%	0.65%	4.00%
28	204	22,395,240	22,797,620	23,291,050	45%	1.80%	4.00%
29	127	14,561,285	14,570,107	15,143,736	2%	0.06%	4.00%
30+	91	10,459,389	10,524,186	10,877,765	15%	0.62%	4.00%
Total	26,896	2,332,632,142	2,453,180,326	2,515,290,578	66%	5.17%	7.83%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	13	\$ 550,402	\$ 625,844	\$ 569,666	392%	13.71%	3.50%
1	522	23,115,435	24,700,204	24,386,784	125%	6.86%	5.50%
2	673	29,839,019	32,072,870	32,076,945	100%	7.49%	7.50%
3	1,033	49,572,710	54,429,358	55,769,299	78%	9.80%	12.50%
4	1,712	99,068,407	115,523,019	130,274,955	53%	16.61%	31.50%
5	2,311	166,553,452	193,226,599	202,362,444	74%	16.01%	21.50%
6	1,928	165,370,449	170,819,908	166,858,783	366%	3.30%	0.90%
7	1,581	140,580,593	142,859,153	142,126,980	147%	1.62%	1.10%
8	1,217	107,264,522	109,223,482	108,658,961	140%	1.83%	1.30%
9	1,280	110,485,877	113,482,438	113,468,996	100%	2.71%	2.70%
10	1,525	137,134,356	140,919,722	139,191,371	184%	2.76%	1.50%
11	1,629	152,644,300	155,782,373	154,781,320	147%	2.06%	1.40%
12	1,622	154,053,881	157,086,894	156,056,581	151%	1.97%	1.30%
13	862	82,210,682	83,919,098	83,197,210	173%	2.08%	1.20%
14	763	71,395,293	72,285,737	73,108,780	52%	1.25%	2.40%
15	583	55,808,957	56,766,799	56,367,047	172%	1.72%	1.00%
16	810	78,079,128	78,476,262	78,781,840	57%	0.51%	0.90%
17	728	72,468,651	72,832,018	73,048,400	63%	0.50%	0.80%
18	509	50,474,393	50,863,906	50,827,714	110%	0.77%	0.70%
19	886	88,801,573	89,648,616	90,488,803	50%	0.95%	1.90%
20	754	77,794,344	78,086,306	78,183,316	75%	0.38%	0.50%
21	722	75,467,606	75,527,059	75,769,476	20%	0.08%	0.40%
22	831	86,970,086	86,869,788	87,230,996	-38%	-0.12%	0.30%
23	577	60,707,717	60,594,346	60,829,132	-93%	-0.19%	0.20%
24	477	50,273,214	50,281,051	50,323,487	16%	0.02%	0.10%
25	422	44,926,361	44,926,361	44,926,361		0.00%	0.00%
26	287	30,582,336	30,582,336	30,582,336		0.00%	0.00%
27	217	23,022,484	23,022,484	23,022,484		0.00%	0.00%
28	204	22,395,240	22,395,240	22,395,240		0.00%	0.00%
29	127	14,561,285	14,561,285	14,561,285		0.00%	0.00%
30+	91	10,459,389	10,459,389	10,459,389		0.00%	0.00%
Total	26,896	2,332,632,142	2,412,849,944	2,430,686,382	82%	3.44%	4.20%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 1.71%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	13	\$ 550,402	\$ 625,844	\$ 575,170	305%	13.71%	4.50%
1	522	23,115,435	24,700,204	24,617,938	105%	6.86%	6.50%
2	673	29,839,019	32,072,870	32,076,945	100%	7.49%	7.50%
3	1,033	49,572,710	54,429,358	55,769,299	78%	9.80%	12.50%
4	1,712	99,068,407	115,523,019	123,835,509	66%	16.61%	25.00%
5	2,311	166,553,452	193,226,599	199,864,142	80%	16.01%	20.00%
6	1,928	165,370,449	170,819,908	166,858,783	366%	3.30%	0.90%
7	1,581	140,580,593	142,859,153	142,126,980	147%	1.62%	1.10%
8	1,217	107,264,522	109,223,482	108,658,961	140%	1.83%	1.30%
9	1,280	110,485,877	113,482,438	113,468,996	100%	2.71%	2.70%
10	1,525	137,134,356	140,919,722	139,191,371	184%	2.76%	1.50%
11	1,629	152,644,300	155,782,373	154,781,320	147%	2.06%	1.40%
12	1,622	154,053,881	157,086,894	156,056,581	151%	1.97%	1.30%
13	862	82,210,682	83,919,098	83,197,210	173%	2.08%	1.20%
14	763	71,395,293	72,285,737	73,108,780	52%	1.25%	2.40%
15	583	55,808,957	56,766,799	56,367,047	172%	1.72%	1.00%
16	810	78,079,128	78,476,262	78,781,840	57%	0.51%	0.90%
17	728	72,468,651	72,832,018	73,048,400	63%	0.50%	0.80%
18	509	50,474,393	50,863,906	50,827,714	110%	0.77%	0.70%
19	886	88,801,573	89,648,616	90,488,803	50%	0.95%	1.90%
20	754	77,794,344	78,086,306	78,183,316	75%	0.38%	0.50%
21	722	75,467,606	75,527,059	75,769,476	20%	0.08%	0.40%
22	831	86,970,086	86,869,788	87,230,996	-38%	-0.12%	0.30%
23	577	60,707,717	60,594,346	60,829,132	-93%	-0.19%	0.20%
24	477	50,273,214	50,281,051	50,323,487	16%	0.02%	0.10%
25	422	44,926,361	44,926,361	44,926,361		0.00%	0.00%
26	287	30,582,336	30,582,336	30,582,336		0.00%	0.00%
27	217	23,022,484	23,022,484	23,022,484		0.00%	0.00%
28	204	22,395,240	22,395,240	22,395,240		0.00%	0.00%
29	127	14,561,285	14,561,285	14,561,285		0.00%	0.00%
30+	91	10,459,389	10,459,389	10,459,389		0.00%	0.00%
Total	26,896	2,332,632,142	2,412,849,944	2,421,985,293	90%	3.44%	3.83%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Actual Salary EOY</u>	<u>Expected Salary EOY</u>	<u>Actual / Expected</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Expected %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	768	\$ 26,655,082	\$ 34,044,354	\$ 28,520,938	396%	27.72%	7.00%
1	3,296	139,947,741	155,632,006	152,543,038	125%	11.21%	9.00%
2	2,833	133,871,238	149,061,352	148,597,074	103%	11.35%	11.00%
3	3,870	192,853,114	217,659,922	223,709,612	80%	12.86%	16.00%
4	4,270	235,859,768	288,633,422	318,410,687	64%	22.38%	35.00%
5	4,195	279,295,221	337,292,895	349,119,026	83%	20.77%	25.00%
6	4,054	316,696,743	334,945,882	330,631,400	131%	5.76%	4.40%
7	3,665	299,389,405	311,862,618	313,161,318	91%	4.17%	4.60%
8	3,311	269,854,686	278,685,243	282,807,711	68%	3.27%	4.80%
9	2,513	204,460,177	217,180,149	217,136,708	100%	6.22%	6.20%
10	2,819	231,172,798	242,584,405	242,731,438	99%	4.94%	5.00%
11	2,808	240,571,151	252,250,349	252,359,137	99%	4.85%	4.90%
12	2,522	225,278,554	231,825,249	236,091,925	61%	2.91%	4.80%
13	2,369	196,809,387	204,283,296	206,059,428	81%	3.80%	4.70%
14	2,499	199,535,873	213,393,020	211,308,490	118%	6.94%	5.90%
15	2,424	201,953,672	214,046,375	211,041,587	133%	5.99%	4.50%
16	2,663	223,750,202	235,903,234	233,595,211	123%	5.43%	4.40%
17	2,766	239,307,443	252,773,686	249,597,663	131%	5.63%	4.30%
18	3,060	265,140,883	276,136,481	276,276,800	99%	4.15%	4.20%
19	2,818	249,859,460	265,293,000	263,351,871	114%	6.18%	5.40%
20	1,918	178,291,187	186,123,758	185,422,834	110%	4.39%	4.00%
21	1,671	161,306,145	165,835,103	167,597,085	72%	2.81%	3.90%
22	1,686	162,258,404	167,058,389	168,424,223	78%	2.96%	3.80%
23	1,303	126,220,251	130,848,588	130,890,400	99%	3.67%	3.70%
24	992	97,796,458	100,760,888	101,317,130	84%	3.03%	3.60%
25	748	75,820,978	78,167,449	78,474,712	88%	3.09%	3.50%
26	528	55,042,493	56,093,707	56,968,980	55%	1.91%	3.50%
27	404	42,529,683	43,418,371	44,018,222	60%	2.09%	3.50%
28	284	30,525,587	31,276,564	31,593,983	70%	2.46%	3.50%
29	198	21,260,530	21,541,283	22,004,649	38%	1.32%	3.50%
30+	156	16,262,554	16,693,196	16,831,743	76%	2.65%	3.50%
Total	69,411	5,339,576,868	5,711,304,234	5,750,595,023	90%	6.96%	7.70%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Actual Salary EOY</u>	<u>Proposed Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	768	\$ 26,655,082	\$ 34,044,354	\$ 28,920,764	326%	27.72%	8.50%
1	3,296	139,947,741	155,632,006	154,642,254	107%	11.21%	10.50%
2	2,833	133,871,238	149,061,352	149,266,430	99%	11.35%	11.50%
3	3,870	192,853,114	217,659,922	224,673,878	78%	12.86%	16.50%
4	4,270	235,859,768	288,633,422	304,259,101	77%	22.38%	29.00%
5	4,195	279,295,221	337,292,895	346,326,074	87%	20.77%	24.00%
6	4,054	316,696,743	334,945,882	332,214,883	118%	5.76%	4.90%
7	3,665	299,389,405	311,862,618	314,658,265	82%	4.17%	5.10%
8	3,311	269,854,686	278,685,243	284,156,984	62%	3.27%	5.30%
9	2,513	204,460,177	217,180,149	218,159,009	93%	6.22%	6.70%
10	2,819	231,172,798	242,584,405	243,887,302	90%	4.94%	5.50%
11	2,808	240,571,151	252,250,349	253,561,993	90%	4.85%	5.40%
12	2,522	225,278,554	231,825,249	237,218,317	55%	2.91%	5.30%
13	2,369	196,809,387	204,283,296	207,043,475	73%	3.80%	5.20%
14	2,499	199,535,873	213,393,020	212,306,169	109%	6.94%	6.40%
15	2,424	201,953,672	214,046,375	212,051,356	120%	5.99%	5.00%
16	2,663	223,750,202	235,903,234	234,713,962	111%	5.43%	4.90%
17	2,766	239,307,443	252,773,686	250,794,200	117%	5.63%	4.80%
18	3,060	265,140,883	276,136,481	277,602,505	88%	4.15%	4.70%
19	2,818	249,859,460	265,293,000	264,601,168	105%	6.18%	5.90%
20	1,918	178,291,187	186,123,758	186,314,290	98%	4.39%	4.50%
21	1,671	161,306,145	165,835,103	168,403,615	64%	2.81%	4.40%
22	1,686	162,258,404	167,058,389	169,235,515	69%	2.96%	4.30%
23	1,303	126,220,251	130,848,588	131,521,502	87%	3.67%	4.20%
24	992	97,796,458	100,760,888	101,806,113	74%	3.03%	4.10%
25	748	75,820,978	78,167,449	78,853,817	77%	3.09%	4.00%
26	528	55,042,493	56,093,707	57,244,193	48%	1.91%	4.00%
27	404	42,529,683	43,418,371	44,230,870	52%	2.09%	4.00%
28	284	30,525,587	31,276,564	31,746,610	62%	2.46%	4.00%
29	198	21,260,530	21,541,283	22,110,951	33%	1.32%	4.00%
30+	156	16,262,554	16,693,196	16,913,056	66%	2.65%	4.00%
Total	69,411	5,339,576,868	5,711,304,234	5,759,438,622	89%	6.96%	7.86%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	768	\$ 26,655,082	\$ 30,308,602	\$ 27,588,010	392%	13.71%	3.50%
1	3,296	139,947,741	149,542,407	147,644,867	125%	6.86%	5.50%
2	2,833	133,871,238	143,893,297	143,911,581	100%	7.49%	7.50%
3	3,870	192,853,114	211,746,972	216,959,753	78%	9.80%	12.50%
4	4,270	235,859,768	275,034,528	310,155,595	53%	16.61%	31.50%
5	4,195	279,295,221	324,023,699	339,343,694	74%	16.01%	21.50%
6	4,054	316,696,743	327,132,864	319,547,014	366%	3.30%	0.90%
7	3,665	299,389,405	304,241,973	302,682,688	147%	1.62%	1.10%
8	3,311	269,854,686	274,783,013	273,362,797	140%	1.83%	1.30%
9	2,513	204,460,177	210,005,478	209,980,602	100%	2.71%	2.70%
10	2,819	231,172,798	237,553,938	234,640,390	184%	2.76%	1.50%
11	2,808	240,571,151	245,516,831	243,939,147	147%	2.06%	1.40%
12	2,522	225,278,554	229,713,839	228,207,175	151%	1.97%	1.30%
13	2,369	196,809,387	200,899,273	199,171,100	173%	2.08%	1.20%
14	2,499	199,535,873	202,024,489	204,324,734	52%	1.25%	2.40%
15	2,424	201,953,672	205,419,776	203,973,209	172%	1.72%	1.00%
16	2,663	223,750,202	224,888,264	225,763,954	57%	0.51%	0.90%
17	2,766	239,307,443	240,507,359	241,221,903	63%	0.50%	0.80%
18	3,060	265,140,883	267,186,984	266,996,869	110%	0.77%	0.70%
19	2,818	249,859,460	252,242,769	254,606,790	50%	0.95%	1.90%
20	1,918	178,291,187	178,960,313	179,182,643	75%	0.38%	0.50%
21	1,671	161,306,145	161,433,220	161,951,370	20%	0.08%	0.40%
22	1,686	162,258,404	162,071,279	162,745,179	-38%	-0.12%	0.30%
23	1,303	126,220,251	125,984,535	126,472,692	-93%	-0.19%	0.20%
24	992	97,796,458	97,811,704	97,894,254	16%	0.02%	0.10%
25	748	75,820,978	75,820,978	75,820,978		0.00%	0.00%
26	528	55,042,493	55,042,493	55,042,493		0.00%	0.00%
27	404	42,529,683	42,529,683	42,529,683		0.00%	0.00%
28	284	30,525,587	30,525,587	30,525,587		0.00%	0.00%
29	198	21,260,530	21,260,530	21,260,530		0.00%	0.00%
30+	156	16,262,554	16,262,554	16,262,554		0.00%	0.00%
Total	69,411	5,339,576,868	5,524,369,232	5,563,709,833	82%	3.46%	4.20%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Estimated Actual Merit Salary EOY</u>	<u>Proposed Merit Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	768	\$ 26,655,082	\$ 30,308,602	\$ 27,854,561	305%	13.71%	4.50%
1	3,296	139,947,741	149,542,407	149,044,344	105%	6.86%	6.50%
2	2,833	133,871,238	143,893,297	143,911,581	100%	7.49%	7.50%
3	3,870	192,853,114	211,746,972	216,959,753	78%	9.80%	12.50%
4	4,270	235,859,768	275,034,528	294,824,710	66%	16.61%	25.00%
5	4,195	279,295,221	324,023,699	335,154,265	80%	16.01%	20.00%
6	4,054	316,696,743	327,132,864	319,547,014	366%	3.30%	0.90%
7	3,665	299,389,405	304,241,973	302,682,688	147%	1.62%	1.10%
8	3,311	269,854,686	274,783,013	273,362,797	140%	1.83%	1.30%
9	2,513	204,460,177	210,005,478	209,980,602	100%	2.71%	2.70%
10	2,819	231,172,798	237,553,938	234,640,390	184%	2.76%	1.50%
11	2,808	240,571,151	245,516,831	243,939,147	147%	2.06%	1.40%
12	2,522	225,278,554	229,713,839	228,207,175	151%	1.97%	1.30%
13	2,369	196,809,387	200,899,273	199,171,100	173%	2.08%	1.20%
14	2,499	199,535,873	202,024,489	204,324,734	52%	1.25%	2.40%
15	2,424	201,953,672	205,419,776	203,973,209	172%	1.72%	1.00%
16	2,663	223,750,202	224,888,264	225,763,954	57%	0.51%	0.90%
17	2,766	239,307,443	240,507,359	241,221,903	63%	0.50%	0.80%
18	3,060	265,140,883	267,186,984	266,996,869	110%	0.77%	0.70%
19	2,818	249,859,460	252,242,769	254,606,790	50%	0.95%	1.90%
20	1,918	178,291,187	178,960,313	179,182,643	75%	0.38%	0.50%
21	1,671	161,306,145	161,433,220	161,951,370	20%	0.08%	0.40%
22	1,686	162,258,404	162,071,279	162,745,179	-38%	-0.12%	0.30%
23	1,303	126,220,251	125,984,535	126,472,692	-93%	-0.19%	0.20%
24	992	97,796,458	97,811,704	97,894,254	16%	0.02%	0.10%
25	748	75,820,978	75,820,978	75,820,978		0.00%	0.00%
26	528	55,042,493	55,042,493	55,042,493		0.00%	0.00%
27	404	42,529,683	42,529,683	42,529,683		0.00%	0.00%
28	284	30,525,587	30,525,587	30,525,587		0.00%	0.00%
29	198	21,260,530	21,260,530	21,260,530		0.00%	0.00%
30+	156	16,262,554	16,262,554	16,262,554		0.00%	0.00%
Total	69,411	5,339,576,868	5,524,369,232	5,545,855,548	90%	3.46%	3.86%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 12C Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	10-YEAR PERIOD ENDING 6/30/2013		
					Actual / Expected (5)	Actual (4) / (3)	Expected (5) / (3)
2004	6,950	\$ 424,644,239	\$ 449,265,728	\$ 457,452,210	75%	5.80%	7.73%
2005	6,900	432,972,685	515,697,056	473,790,526	203%	19.11%	9.43%
2006	6,969	497,063,530	531,101,223	537,995,977	83%	6.85%	8.23%
2007	7,218	522,949,008	579,229,033	555,258,616	174%	10.76%	6.18%
2008	7,323	564,462,173	599,230,934	599,624,808	99%	6.16%	6.23%
2009	7,418	590,153,179	610,516,711	640,329,969	41%	3.45%	8.50%
2010	7,169	578,499,115	627,789,553	635,118,216	87%	8.52%	9.79%
2011	6,789	589,400,776	621,014,976	635,722,569	68%	5.36%	7.86%
2012	6,577	594,342,760	611,718,767	635,585,758	42%	2.92%	6.94%
2013	6,543	591,228,805	613,631,952	627,470,654	62%	3.79%	6.13%
Total	69,856	5,385,716,270	5,759,195,933	5,798,349,304	91%	6.93%	7.66%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	13	\$ 491,430	\$ 20,568	\$ 58,972	35%	4.19%	12.00%
1	507	20,076,056	1,393,130	2,409,127	58%	6.94%	12.00%
2	666	26,354,724	2,355,579	3,162,567	74%	8.94%	12.00%
3	1,020	43,650,817	4,717,944	5,238,098	90%	10.81%	12.00%
4	1,673	85,912,219	9,217,462	10,309,466	89%	10.73%	12.00%
5	2,309	147,630,068	15,278,848	17,715,608	86%	10.35%	12.00%
6	2,001	152,596,805	20,164,763	18,311,617	110%	13.21%	12.00%
7	1,581	125,473,159	17,962,952	15,056,779	119%	14.32%	12.00%
8	1,195	94,136,901	9,342,429	11,296,428	83%	9.92%	12.00%
9	1,231	94,849,045	9,180,085	11,381,885	81%	9.68%	12.00%
10	1,554	124,503,102	15,689,624	14,940,372	105%	12.60%	12.00%
11	1,661	138,819,529	20,762,893	16,658,343	125%	14.96%	12.00%
12	1,615	136,972,711	16,428,498	16,436,725	100%	11.99%	12.00%
13	879	74,824,792	8,733,723	8,978,975	97%	11.67%	12.00%
14	742	61,949,182	7,702,361	7,433,902	104%	12.43%	12.00%
15	607	51,802,617	5,883,071	6,216,314	95%	11.36%	12.00%
16	765	65,877,604	8,532,451	7,905,313	108%	12.95%	12.00%
17	773	68,540,055	7,599,606	8,224,807	92%	11.09%	12.00%
18	508	44,983,395	7,828,050	5,398,007	145%	17.40%	12.00%
19	843	75,438,393	7,546,265	9,052,607	83%	10.00%	12.00%
20	780	71,767,960	7,824,719	8,612,155	91%	10.90%	12.00%
21	735	68,521,580	10,503,822	8,222,590	128%	15.33%	12.00%
22	812	75,959,667	10,396,289	9,115,160	114%	13.69%	12.00%
23	597	56,043,495	6,768,518	6,725,219	101%	12.08%	12.00%
24	472	44,331,562	5,905,546	5,319,787	111%	13.32%	12.00%
25	423	40,255,227	4,930,132	4,830,627	102%	12.25%	12.00%
26	293	27,858,969	3,880,575	3,343,076	116%	13.93%	12.00%
27	217	20,586,407	2,745,194	2,470,369	111%	13.33%	12.00%
28	198	19,378,864	2,083,775	2,325,464	90%	10.75%	12.00%
29	133	13,523,652	1,457,028	1,622,838	90%	10.77%	12.00%
30	92	9,489,728	1,083,631	1,138,767	95%	11.42%	12.00%
31	63	6,670,988	603,333	800,519	75%	9.04%	12.00%
32	22	2,344,916	283,365	281,390	101%	12.08%	12.00%
33	11	1,109,422	83,244	133,131	63%	7.50%	12.00%
34	3	321,991	22,645	38,639	59%	7.03%	12.00%
35	9	983,593	48,152	118,031	41%	4.90%	12.00%
36	15	1,438,415	80,262	172,610	46%	5.58%	12.00%
37	16	1,522,396	144,847	182,688	79%	9.51%	12.00%
38	13	1,290,829	110,844	154,900	72%	8.59%	12.00%
39	14	1,392,078	65,309	167,049	39%	4.69%	12.00%
40	6	609,529	17,513	73,144	24%	2.87%	12.00%
41	4	396,735	9,467	47,608	20%	2.39%	12.00%
42	3	308,438	-	37,013			12.00%
43	1	79,677	3,958	9,561	41%	4.97%	12.00%
44	1	83,175	9,805	9,981	98%	11.79%	12.00%
45	1	81,253	14,800	9,750	152%	18.21%	12.00%
Total	27,077	2,101,233,148	255,417,075	252,147,978	101%	12.16%	12.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	13	\$ 491,430	\$ 20,568	\$ 58,972	35%	4.19%	12.00%
1	507	20,076,056	1,393,130	2,409,127	58%	6.94%	12.00%
2	666	26,354,724	2,355,579	3,162,567	74%	8.94%	12.00%
3	1,020	43,650,817	4,717,944	5,238,098	90%	10.81%	12.00%
4	1,673	85,912,219	9,217,462	10,309,466	89%	10.73%	12.00%
5	2,309	147,630,068	15,278,848	17,715,608	86%	10.35%	12.00%
6	2,001	152,596,805	20,164,763	18,311,617	110%	13.21%	12.00%
7	1,581	125,473,159	17,962,952	15,056,779	119%	14.32%	12.00%
8	1,195	94,136,901	9,342,429	11,296,428	83%	9.92%	12.00%
9	1,231	94,849,045	9,180,085	11,381,885	81%	9.68%	12.00%
10	1,554	124,503,102	15,689,624	14,940,372	105%	12.60%	12.00%
11	1,661	138,819,529	20,762,893	16,658,343	125%	14.96%	12.00%
12	1,615	136,972,711	16,428,498	16,436,725	100%	11.99%	12.00%
13	879	74,824,792	8,733,723	8,978,975	97%	11.67%	12.00%
14	742	61,949,182	7,702,361	7,433,902	104%	12.43%	12.00%
15	607	51,802,617	5,883,071	6,216,314	95%	11.36%	12.00%
16	765	65,877,604	8,532,451	7,905,313	108%	12.95%	12.00%
17	773	68,540,055	7,599,606	8,224,807	92%	11.09%	12.00%
18	508	44,983,395	7,828,050	5,398,007	145%	17.40%	12.00%
19	843	75,438,393	7,546,265	9,052,607	83%	10.00%	12.00%
20	780	71,767,960	7,824,719	8,612,155	91%	10.90%	12.00%
21	735	68,521,580	10,503,822	8,222,590	128%	15.33%	12.00%
22	812	75,959,667	10,396,289	9,115,160	114%	13.69%	12.00%
23	597	56,043,495	6,768,518	6,725,219	101%	12.08%	12.00%
24	472	44,331,562	5,905,546	5,319,787	111%	13.32%	12.00%
25	423	40,255,227	4,930,132	4,830,627	102%	12.25%	12.00%
26	293	27,858,969	3,880,575	3,343,076	116%	13.93%	12.00%
27	217	20,586,407	2,745,194	2,470,369	111%	13.33%	12.00%
28	198	19,378,864	2,083,775	2,325,464	90%	10.75%	12.00%
29	133	13,523,652	1,457,028	1,622,838	90%	10.77%	12.00%
30	92	9,489,728	1,083,631	1,138,767	95%	11.42%	12.00%
31	63	6,670,988	603,333	800,519	75%	9.04%	12.00%
32	22	2,344,916	283,365	281,390	101%	12.08%	12.00%
33	11	1,109,422	83,244	133,131	63%	7.50%	12.00%
34	3	321,991	22,645	38,639	59%	7.03%	12.00%
35	9	983,593	48,152	118,031	41%	4.90%	12.00%
36	15	1,438,415	80,262	172,610	46%	5.58%	12.00%
37	16	1,522,396	144,847	182,688	79%	9.51%	12.00%
38	13	1,290,829	110,844	154,900	72%	8.59%	12.00%
39	14	1,392,078	65,309	167,049	39%	4.69%	12.00%
40	6	609,529	17,513	73,144	24%	2.87%	12.00%
41	4	396,735	9,467	47,608	20%	2.39%	12.00%
42	3	308,438	-	37,013			12.00%
43	1	79,677	3,958	9,561	41%	4.97%	12.00%
44	1	83,175	9,805	9,981	98%	11.79%	12.00%
45	1	81,253	14,800	9,750	152%	18.21%	12.00%
Total	27,077	2,101,233,148	255,417,075	252,147,978	101%	12.16%	12.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-	-	0.00%	12.00%
1	0	-	-	-	-	0.00%	12.00%
2	0	-	-	-	-	0.00%	12.00%
3	0	-	-	-	-	0.00%	12.00%
4	0	-	-	-	-	0.00%	12.00%
5	0	-	-	-	-	0.00%	12.00%
6	0	-	-	-	-	0.00%	12.00%
7	0	-	-	-	-	0.00%	12.00%
8	0	-	-	-	-	0.00%	12.00%
9	0	-	-	-	-	0.00%	12.00%
10	0	-	-	-	-	0.00%	12.00%
11	0	-	-	-	-	0.00%	12.00%
12	0	-	-	-	-	0.00%	12.00%
13	0	-	-	-	-	0.00%	12.00%
14	0	-	-	-	-	0.00%	12.00%
15	0	-	-	-	-	0.00%	12.00%
16	0	-	-	-	-	0.00%	12.00%
17	0	-	-	-	-	0.00%	12.00%
18	0	-	-	-	-	0.00%	12.00%
19	0	-	-	-	-	0.00%	12.00%
20	277	\$ 24,560,855	\$ 2,085,768	\$ 2,947,303	71%	8.49%	12.00%
21	113	10,153,897	1,465,712	1,218,468	120%	14.43%	12.00%
22	104	9,376,363	1,297,517	1,125,164	115%	13.84%	12.00%
23	78	7,190,285	848,689	862,834	98%	11.80%	12.00%
24	57	5,235,313	697,299	628,238	111%	13.32%	12.00%
25	85	7,917,631	922,479	950,116	97%	11.65%	12.00%
26	58	5,519,206	817,177	662,305	123%	14.81%	12.00%
27	41	4,083,617	527,381	490,034	108%	12.91%	12.00%
28	31	3,020,644	359,677	362,477	99%	11.91%	12.00%
29	29	2,950,640	313,526	354,077	89%	10.63%	12.00%
30	41	4,176,663	561,069	501,200	112%	13.43%	12.00%
31	14	1,389,368	138,297	166,724	83%	9.95%	12.00%
32	7	812,696	63,868	97,524	65%	7.86%	12.00%
33	4	483,897	57,663	58,068	99%	11.92%	12.00%
34	2	215,463	34,970	25,856	135%	16.23%	12.00%
35	2	179,425	33,479	21,531	155%	18.66%	12.00%
36	4	544,549	26,437	65,346	40%	4.85%	12.00%
37	3	332,934	7,005	39,952	18%	2.10%	12.00%
38	2	164,680	7,801	19,762	39%	4.74%	12.00%
39	0	-	-	-	-	0.00%	12.00%
40	0	-	-	-	-	0.00%	12.00%
41	1	123,139	27,617	14,777	187%	22.43%	12.00%
42	1	89,622	3,839	10,755	36%	4.28%	12.00%
43	0	-	-	-	-	0.00%	12.00%
44	0	-	-	-	-	0.00%	12.00%
45	0	-	-	-	-	0.00%	12.00%
<b>Total</b>	<b>954</b>	<b>88,520,889</b>	<b>10,297,270</b>	<b>10,622,507</b>	<b>97%</b>	<b>11.63%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-	-	0.00%	12.00%
1	0	-	-	-	-	0.00%	12.00%
2	0	-	-	-	-	0.00%	12.00%
3	0	-	-	-	-	0.00%	12.00%
4	0	-	-	-	-	0.00%	12.00%
5	0	-	-	-	-	0.00%	12.00%
6	0	-	-	-	-	0.00%	12.00%
7	0	-	-	-	-	0.00%	12.00%
8	0	-	-	-	-	0.00%	12.00%
9	0	-	-	-	-	0.00%	12.00%
10	0	-	-	-	-	0.00%	12.00%
11	0	-	-	-	-	0.00%	12.00%
12	0	-	-	-	-	0.00%	12.00%
13	0	-	-	-	-	0.00%	12.00%
14	0	-	-	-	-	0.00%	12.00%
15	0	-	-	-	-	0.00%	12.00%
16	0	-	-	-	-	0.00%	12.00%
17	0	-	-	-	-	0.00%	12.00%
18	0	-	-	-	-	0.00%	12.00%
19	0	-	-	-	-	0.00%	12.00%
20	277	\$ 24,560,855	\$ 2,085,768	\$ 2,947,303	71%	8.49%	12.00%
21	113	10,153,897	1,465,712	1,218,468	120%	14.43%	12.00%
22	104	9,376,363	1,297,517	1,125,164	115%	13.84%	12.00%
23	78	7,190,285	848,689	862,834	98%	11.80%	12.00%
24	57	5,235,313	697,299	628,238	111%	13.32%	12.00%
25	85	7,917,631	922,479	950,116	97%	11.65%	12.00%
26	58	5,519,206	817,177	662,305	123%	14.81%	12.00%
27	41	4,083,617	527,381	490,034	108%	12.91%	12.00%
28	31	3,020,644	359,677	362,477	99%	11.91%	12.00%
29	29	2,950,640	313,526	354,077	89%	10.63%	12.00%
30	41	4,176,663	561,069	501,200	112%	13.43%	12.00%
31	14	1,389,368	138,297	166,724	83%	9.95%	12.00%
32	7	812,696	63,868	97,524	65%	7.86%	12.00%
33	4	483,897	57,663	58,068	99%	11.92%	12.00%
34	2	215,463	34,970	25,856	135%	16.23%	12.00%
35	2	179,425	33,479	21,531	155%	18.66%	12.00%
36	4	544,549	26,437	65,346	40%	4.85%	12.00%
37	3	332,934	7,005	39,952	18%	2.10%	12.00%
38	2	164,680	7,801	19,762	39%	4.74%	12.00%
39	0	-	-	-	-	0.00%	12.00%
40	0	-	-	-	-	0.00%	12.00%
41	1	123,139	27,617	14,777	187%	22.43%	12.00%
42	1	89,622	3,839	10,755	36%	4.28%	12.00%
43	0	-	-	-	-	0.00%	12.00%
44	0	-	-	-	-	0.00%	12.00%
45	0	-	-	-	-	0.00%	12.00%
<b>Total</b>	<b>954</b>	<b>88,520,889</b>	<b>10,297,270</b>	<b>10,622,507</b>	<b>97%</b>	<b>11.63%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			12.00%
1	0	-	-	-			12.00%
2	0	-	-	-			12.00%
3	0	-	-	-			12.00%
4	1	\$ 50,257	\$ 1,519	\$ 6,031	25%	3.02%	12.00%
5	6	366,438	16,898	43,973	38%	4.61%	12.00%
6	4	274,046	1,365	32,886	4%	0.50%	12.00%
7	3	225,417	17,621	27,050	65%	7.82%	12.00%
8	5	361,919	10,101	43,430	23%	2.79%	12.00%
9	3	211,202	4,154	25,344	16%	1.97%	12.00%
10	13	950,917	32,474	114,110	28%	3.42%	12.00%
11	18	1,318,607	48,754	158,233	31%	3.70%	12.00%
12	18	1,344,452	39,935	161,334	25%	2.97%	12.00%
13	10	818,499	24,036	98,220	24%	2.94%	12.00%
14	7	531,119	47,508	63,734	75%	8.94%	12.00%
15	7	510,487	9,605	61,258	16%	1.88%	12.00%
16	12	934,453	65,470	112,134	58%	7.01%	12.00%
17	10	762,868	19,164	91,544	21%	2.51%	12.00%
18	1	73,047	104	8,766	1%	0.14%	12.00%
19	9	691,361	20,295	82,963	24%	2.94%	12.00%
20	22	1,737,704	65,233	208,524	31%	3.75%	12.00%
21	10	879,672	70,394	105,561	67%	8.00%	12.00%
22	13	1,124,732	46,712	134,968	35%	4.15%	12.00%
23	5	393,121	12,634	47,174	27%	3.21%	12.00%
24	6	550,854	34,940	66,102	53%	6.34%	12.00%
25	7	681,580	27,789	81,790	34%	4.08%	12.00%
26	3	224,179	5,335	26,902	20%	2.38%	12.00%
27	6	603,417	50,023	72,410	69%	8.29%	12.00%
28	0	-	-	-			12.00%
29	3	283,388	23,730	34,007	70%	8.37%	12.00%
30	1	100,405	10,019	12,049	83%	9.98%	12.00%
31	2	180,386	-	21,646			12.00%
32	0	-	-	-			12.00%
33	1	82,910	10,812	9,949	109%	13.04%	12.00%
34	0	-	-	-			12.00%
35	0	-	-	-			12.00%
36	0	-	-	-			12.00%
37	0	-	-	-			12.00%
38	0	-	-	-			12.00%
39	0	-	-	-			12.00%
40	0	-	-	-			12.00%
41	0	-	-	-			12.00%
42	0	-	-	-			12.00%
43	0	-	-	-			12.00%
44	0	-	-	-			12.00%
45	0	-	-	-			12.00%
<b>Total</b>	<b>206</b>	<b>16,267,437</b>	<b>716,624</b>	<b>1,952,092</b>	<b>37%</b>	<b>4.41%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			12.00%
1	0	-	-	-			12.00%
2	0	-	-	-			12.00%
3	0	-	-	-			12.00%
4	1	\$ 50,257	\$ 1,519	\$ 6,031	25%	3.02%	12.00%
5	6	366,438	16,898	43,973	38%	4.61%	12.00%
6	4	274,046	1,365	32,886	4%	0.50%	12.00%
7	3	225,417	17,621	27,050	65%	7.82%	12.00%
8	5	361,919	10,101	43,430	23%	2.79%	12.00%
9	3	211,202	4,154	25,344	16%	1.97%	12.00%
10	13	950,917	32,474	114,110	28%	3.42%	12.00%
11	18	1,318,607	48,754	158,233	31%	3.70%	12.00%
12	18	1,344,452	39,935	161,334	25%	2.97%	12.00%
13	10	818,499	24,036	98,220	24%	2.94%	12.00%
14	7	531,119	47,508	63,734	75%	8.94%	12.00%
15	7	510,487	9,605	61,258	16%	1.88%	12.00%
16	12	934,453	65,470	112,134	58%	7.01%	12.00%
17	10	762,868	19,164	91,544	21%	2.51%	12.00%
18	1	73,047	104	8,766	1%	0.14%	12.00%
19	9	691,361	20,295	82,963	24%	2.94%	12.00%
20	22	1,737,704	65,233	208,524	31%	3.75%	12.00%
21	10	879,672	70,394	105,561	67%	8.00%	12.00%
22	13	1,124,732	46,712	134,968	35%	4.15%	12.00%
23	5	393,121	12,634	47,174	27%	3.21%	12.00%
24	6	550,854	34,940	66,102	53%	6.34%	12.00%
25	7	681,580	27,789	81,790	34%	4.08%	12.00%
26	3	224,179	5,335	26,902	20%	2.38%	12.00%
27	6	603,417	50,023	72,410	69%	8.29%	12.00%
28	0	-	-	-			12.00%
29	3	283,388	23,730	34,007	70%	8.37%	12.00%
30	1	100,405	10,019	12,049	83%	9.98%	12.00%
31	2	180,386	-	21,646			12.00%
32	0	-	-	-			12.00%
33	1	82,910	10,812	9,949	109%	13.04%	12.00%
34	0	-	-	-			12.00%
35	0	-	-	-			12.00%
36	0	-	-	-			12.00%
37	0	-	-	-			12.00%
38	0	-	-	-			12.00%
39	0	-	-	-			12.00%
40	0	-	-	-			12.00%
41	0	-	-	-			12.00%
42	0	-	-	-			12.00%
43	0	-	-	-			12.00%
44	0	-	-	-			12.00%
45	0	-	-	-			12.00%
<b>Total</b>	<b>206</b>	<b>16,267,437</b>	<b>716,624</b>	<b>1,952,092</b>	<b>37%</b>	<b>4.41%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	784	\$ 24,155,020	\$ 298,971	\$ 2,898,602	10%	1.24%	12.00%
1	3,060	115,894,382	9,198,963	13,907,326	66%	7.94%	12.00%
2	2,871	119,980,566	10,832,140	14,397,668	75%	9.03%	12.00%
3	3,799	168,458,730	17,794,857	20,215,048	88%	10.56%	12.00%
4	4,268	208,998,739	24,073,108	25,079,849	96%	11.52%	12.00%
5	4,263	250,729,327	28,591,621	30,087,519	95%	11.40%	12.00%
6	4,111	285,038,482	36,320,231	34,204,618	106%	12.74%	12.00%
7	3,675	267,006,472	33,860,100	32,040,777	106%	12.68%	12.00%
8	3,293	239,174,803	24,723,258	28,700,976	86%	10.34%	12.00%
9	2,544	184,331,476	19,465,909	22,119,777	88%	10.56%	12.00%
10	2,843	208,672,819	26,579,681	25,040,738	106%	12.74%	12.00%
11	2,855	218,153,331	31,371,171	26,178,400	120%	14.38%	12.00%
12	2,536	201,574,779	24,601,146	24,188,973	102%	12.20%	12.00%
13	2,337	174,005,854	21,041,977	20,880,703	101%	12.09%	12.00%
14	2,469	175,943,698	25,402,674	21,113,244	120%	14.44%	12.00%
15	2,449	181,535,191	24,591,327	21,784,223	113%	13.55%	12.00%
16	2,626	196,876,154	27,939,070	23,625,139	118%	14.19%	12.00%
17	2,803	216,293,955	28,908,302	25,955,275	111%	13.37%	12.00%
18	3,020	233,369,534	33,674,200	28,004,344	120%	14.43%	12.00%
19	2,838	224,225,931	28,803,205	26,907,112	107%	12.85%	12.00%
20	1,986	164,430,900	21,662,970	19,731,708	110%	13.17%	12.00%
21	1,698	146,080,681	20,857,259	17,529,682	119%	14.28%	12.00%
22	1,683	144,603,337	20,192,935	17,352,400	116%	13.96%	12.00%
23	1,329	114,769,456	15,465,005	13,772,335	112%	13.47%	12.00%
24	1,002	87,816,857	12,068,182	10,538,023	115%	13.74%	12.00%
25	764	69,036,728	8,975,350	8,284,407	108%	13.00%	12.00%
26	541	50,191,736	6,566,922	6,023,008	109%	13.08%	12.00%
27	410	38,407,648	4,473,547	4,608,918	97%	11.65%	12.00%
28	289	27,714,871	3,017,720	3,325,785	91%	10.89%	12.00%
29	204	19,564,405	2,194,441	2,347,729	93%	11.22%	12.00%
30	157	14,630,262	1,857,750	1,755,631	106%	12.70%	12.00%
31	120	11,421,098	1,251,722	1,370,532	91%	10.96%	12.00%
32	70	6,314,246	784,768	757,709	104%	12.43%	12.00%
33	58	5,171,998	484,318	620,640	78%	9.36%	12.00%
34	43	3,962,029	294,606	475,444	62%	7.44%	12.00%
35	39	3,753,937	211,593	450,472	47%	5.64%	12.00%
36	32	2,980,496	158,460	357,660	44%	5.32%	12.00%
37	25	2,250,889	201,580	270,107	75%	8.96%	12.00%
38	21	1,996,658	153,801	239,599	64%	7.70%	12.00%
39	17	1,628,502	91,103	195,420	47%	5.59%	12.00%
40	8	748,229	43,781	89,788	49%	5.85%	12.00%
41	7	631,230	29,560	75,748	39%	4.68%	12.00%
42	5	468,504	11,974	56,220	21%	2.56%	12.00%
43	1	79,677	3,958	9,561	41%	4.97%	12.00%
44	1	83,175	9,805	9,981	98%	11.79%	12.00%
45	1	81,253	14,800	9,750	152%	18.21%	12.00%
Total	69,955	4,813,238,047	599,149,821	577,588,566	104%	12.45%	12.00%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	784	\$ 24,155,020	\$ 298,971	\$ 2,898,602	10%	1.24%	12.00%
1	3,060	115,894,382	9,198,963	13,907,326	66%	7.94%	12.00%
2	2,871	119,980,566	10,832,140	14,397,668	75%	9.03%	12.00%
3	3,799	168,458,730	17,794,857	20,215,048	88%	10.56%	12.00%
4	4,268	208,998,739	24,073,108	25,079,849	96%	11.52%	12.00%
5	4,263	250,729,327	28,591,621	30,087,519	95%	11.40%	12.00%
6	4,111	285,038,482	36,320,231	34,204,618	106%	12.74%	12.00%
7	3,675	267,006,472	33,860,100	32,040,777	106%	12.68%	12.00%
8	3,293	239,174,803	24,723,258	28,700,976	86%	10.34%	12.00%
9	2,544	184,331,476	19,465,909	22,119,777	88%	10.56%	12.00%
10	2,843	208,672,819	26,579,681	25,040,738	106%	12.74%	12.00%
11	2,855	218,153,331	31,371,171	26,178,400	120%	14.38%	12.00%
12	2,536	201,574,779	24,601,146	24,188,973	102%	12.20%	12.00%
13	2,337	174,005,854	21,041,977	20,880,703	101%	12.09%	12.00%
14	2,469	175,943,698	25,402,674	21,113,244	120%	14.44%	12.00%
15	2,449	181,535,191	24,591,327	21,784,223	113%	13.55%	12.00%
16	2,626	196,876,154	27,939,070	23,625,139	118%	14.19%	12.00%
17	2,803	216,293,955	28,908,302	25,955,275	111%	13.37%	12.00%
18	3,020	233,369,534	33,674,200	28,004,344	120%	14.43%	12.00%
19	2,838	224,225,931	28,803,205	26,907,112	107%	12.85%	12.00%
20	1,986	164,430,900	21,662,970	19,731,708	110%	13.17%	12.00%
21	1,698	146,080,681	20,857,259	17,529,682	119%	14.28%	12.00%
22	1,683	144,603,337	20,192,935	17,352,400	116%	13.96%	12.00%
23	1,329	114,769,456	15,465,005	13,772,335	112%	13.47%	12.00%
24	1,002	87,816,857	12,068,182	10,538,023	115%	13.74%	12.00%
25	764	69,036,728	8,975,350	8,284,407	108%	13.00%	12.00%
26	541	50,191,736	6,566,922	6,023,008	109%	13.08%	12.00%
27	410	38,407,648	4,473,547	4,608,918	97%	11.65%	12.00%
28	289	27,714,871	3,017,720	3,325,785	91%	10.89%	12.00%
29	204	19,564,405	2,194,441	2,347,729	93%	11.22%	12.00%
30	157	14,630,262	1,857,750	1,755,631	106%	12.70%	12.00%
31	120	11,421,098	1,251,722	1,370,532	91%	10.96%	12.00%
32	70	6,314,246	784,768	757,709	104%	12.43%	12.00%
33	58	5,171,998	484,318	620,640	78%	9.36%	12.00%
34	43	3,962,029	294,606	475,444	62%	7.44%	12.00%
35	39	3,753,937	211,593	450,472	47%	5.64%	12.00%
36	32	2,980,496	158,460	357,660	44%	5.32%	12.00%
37	25	2,250,889	201,580	270,107	75%	8.96%	12.00%
38	21	1,996,658	153,801	239,599	64%	7.70%	12.00%
39	17	1,628,502	91,103	195,420	47%	5.59%	12.00%
40	8	748,229	43,781	89,788	49%	5.85%	12.00%
41	7	631,230	29,560	75,748	39%	4.68%	12.00%
42	5	468,504	11,974	56,220	21%	2.56%	12.00%
43	1	79,677	3,958	9,561	41%	4.97%	12.00%
44	1	83,175	9,805	9,981	98%	11.79%	12.00%
45	1	81,253	14,800	9,750	152%	18.21%	12.00%
Total	69,955	4,813,238,047	599,149,821	577,588,566	104%	12.45%	12.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-	-	-	12.00%
1	0	-	-	-	-	-	12.00%
2	0	-	-	-	-	-	12.00%
3	0	-	-	-	-	-	12.00%
4	0	-	-	-	-	-	12.00%
5	0	-	-	-	-	-	12.00%
6	0	-	-	-	-	-	12.00%
7	0	-	-	-	-	-	12.00%
8	0	-	-	-	-	-	12.00%
9	0	-	-	-	-	-	12.00%
10	0	-	-	-	-	-	12.00%
11	0	-	-	-	-	-	12.00%
12	0	-	-	-	-	-	12.00%
13	0	-	-	-	-	-	12.00%
14	0	-	-	-	-	-	12.00%
15	0	-	-	-	-	-	12.00%
16	0	-	-	-	-	-	12.00%
17	0	-	-	-	-	-	12.00%
18	0	-	-	-	-	-	12.00%
19	0	-	-	-	-	-	12.00%
20	1,327	\$ 99,406,650	\$ 13,423,276	\$ 11,928,798	113%	13.50%	12.00%
21	293	24,033,591	3,274,114	2,884,031	114%	13.62%	12.00%
22	252	20,527,801	2,849,198	2,463,336	116%	13.88%	12.00%
23	166	14,005,563	1,958,082	1,680,668	117%	13.98%	12.00%
24	161	13,264,506	1,995,981	1,591,741	125%	15.05%	12.00%
25	161	14,068,465	1,715,061	1,688,216	102%	12.19%	12.00%
26	100	9,067,292	1,288,026	1,088,075	118%	14.21%	12.00%
27	69	6,549,519	830,609	785,942	106%	12.68%	12.00%
28	45	4,122,227	518,544	494,667	105%	12.58%	12.00%
29	51	4,570,612	593,546	548,473	108%	12.99%	12.00%
30	70	6,302,208	948,995	756,265	125%	15.06%	12.00%
31	37	3,008,264	516,672	360,992	143%	17.18%	12.00%
32	19	2,082,255	169,149	249,871	68%	8.12%	12.00%
33	32	2,586,920	390,572	310,430	126%	15.10%	12.00%
34	14	1,229,543	211,884	147,545	144%	17.23%	12.00%
35	8	666,690	122,868	80,003	154%	18.43%	12.00%
36	12	1,251,332	94,470	150,160	63%	7.55%	12.00%
37	9	998,784	32,327	119,854	27%	3.24%	12.00%
38	5	481,582	32,297	57,790	56%	6.71%	12.00%
39	3	297,417	11,311	35,690	32%	3.80%	12.00%
40	1	102,018	-	12,242	-	-	12.00%
41	3	233,479	48,143	28,018	172%	20.62%	12.00%
42	1	89,622	3,839	10,755	36%	4.28%	12.00%
43	1	87,629	10,368	10,516	99%	11.83%	12.00%
44	0	-	-	-	-	-	12.00%
45	0	-	-	-	-	-	12.00%
<b>Total</b>	<b>2,840</b>	<b>229,033,970</b>	<b>31,039,332</b>	<b>27,484,076</b>	<b>113%</b>	<b>13.55%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-	-	-	12.00%
1	0	-	-	-	-	-	12.00%
2	0	-	-	-	-	-	12.00%
3	0	-	-	-	-	-	12.00%
4	0	-	-	-	-	-	12.00%
5	0	-	-	-	-	-	12.00%
6	0	-	-	-	-	-	12.00%
7	0	-	-	-	-	-	12.00%
8	0	-	-	-	-	-	12.00%
9	0	-	-	-	-	-	12.00%
10	0	-	-	-	-	-	12.00%
11	0	-	-	-	-	-	12.00%
12	0	-	-	-	-	-	12.00%
13	0	-	-	-	-	-	12.00%
14	0	-	-	-	-	-	12.00%
15	0	-	-	-	-	-	12.00%
16	0	-	-	-	-	-	12.00%
17	0	-	-	-	-	-	12.00%
18	0	-	-	-	-	-	12.00%
19	0	-	-	-	-	-	12.00%
20	1,327	\$ 99,406,650	\$ 13,423,276	\$ 11,928,798	113%	13.50%	12.00%
21	293	24,033,591	3,274,114	2,884,031	114%	13.62%	12.00%
22	252	20,527,801	2,849,198	2,463,336	116%	13.88%	12.00%
23	166	14,005,563	1,958,082	1,680,668	117%	13.98%	12.00%
24	161	13,264,506	1,995,981	1,591,741	125%	15.05%	12.00%
25	161	14,068,465	1,715,061	1,688,216	102%	12.19%	12.00%
26	100	9,067,292	1,288,026	1,088,075	118%	14.21%	12.00%
27	69	6,549,519	830,609	785,942	106%	12.68%	12.00%
28	45	4,122,227	518,544	494,667	105%	12.58%	12.00%
29	51	4,570,612	593,546	548,473	108%	12.99%	12.00%
30	70	6,302,208	948,995	756,265	125%	15.06%	12.00%
31	37	3,008,264	516,672	360,992	143%	17.18%	12.00%
32	19	2,082,255	169,149	249,871	68%	8.12%	12.00%
33	32	2,586,920	390,572	310,430	126%	15.10%	12.00%
34	14	1,229,543	211,884	147,545	144%	17.23%	12.00%
35	8	666,690	122,868	80,003	154%	18.43%	12.00%
36	12	1,251,332	94,470	150,160	63%	7.55%	12.00%
37	9	998,784	32,327	119,854	27%	3.24%	12.00%
38	5	481,582	32,297	57,790	56%	6.71%	12.00%
39	3	297,417	11,311	35,690	32%	3.80%	12.00%
40	1	102,018	-	12,242	-	-	12.00%
41	3	233,479	48,143	28,018	172%	20.62%	12.00%
42	1	89,622	3,839	10,755	36%	4.28%	12.00%
43	1	87,629	10,368	10,516	99%	11.83%	12.00%
44	0	-	-	-	-	-	12.00%
45	0	-	-	-	-	-	12.00%
<b>Total</b>	<b>2,840</b>	<b>229,033,970</b>	<b>31,039,332</b>	<b>27,484,076</b>	<b>113%</b>	<b>13.55%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			12.00%
1	0	-	-	-			12.00%
2	3	\$ 139,044	\$ 11,750	\$ 16,685	70%	8.45%	12.00%
3	2	77,381	9,006	9,286	97%	11.64%	12.00%
4	1	50,257	1,519	6,031	25%	3.02%	12.00%
5	12	707,454	24,519	84,895	29%	3.47%	12.00%
6	9	606,362	19,391	72,763	27%	3.20%	12.00%
7	12	799,266	38,654	95,912	40%	4.84%	12.00%
8	12	796,816	26,729	95,618	28%	3.35%	12.00%
9	8	505,830	18,928	60,700	31%	3.74%	12.00%
10	20	1,344,594	43,541	161,351	27%	3.24%	12.00%
11	30	2,065,954	72,327	247,915	29%	3.50%	12.00%
12	28	1,966,862	51,461	236,023	22%	2.62%	12.00%
13	26	1,797,009	54,595	215,641	25%	3.04%	12.00%
14	18	1,238,580	64,107	148,630	43%	5.18%	12.00%
15	29	1,926,425	93,714	231,171	41%	4.86%	12.00%
16	41	2,764,764	145,977	331,772	44%	5.28%	12.00%
17	37	2,646,539	99,567	317,585	31%	3.76%	12.00%
18	29	2,057,887	136,794	246,946	55%	6.65%	12.00%
19	28	1,997,806	111,653	239,737	47%	5.59%	12.00%
20	53	3,889,429	209,980	466,732	45%	5.40%	12.00%
21	27	2,090,530	135,977	250,864	54%	6.50%	12.00%
22	33	2,561,996	147,797	307,439	48%	5.77%	12.00%
23	22	1,657,624	73,564	198,915	37%	4.44%	12.00%
24	13	996,272	43,641	119,553	37%	4.38%	12.00%
25	11	932,629	33,922	111,916	30%	3.64%	12.00%
26	5	365,210	14,928	43,825	34%	4.09%	12.00%
27	6	603,417	50,023	72,410	69%	8.29%	12.00%
28	2	131,616	4,800	15,794	30%	3.65%	12.00%
29	4	395,464	40,297	47,456	85%	10.19%	12.00%
30	2	155,411	11,853	18,649	64%	7.63%	12.00%
31	2	180,386	-	21,646			12.00%
32	0	-	-	-			12.00%
33	1	82,910	10,812	9,949	109%	13.04%	12.00%
34	0	-	-	-			12.00%
35	0	-	-	-			12.00%
36	0	-	-	-			12.00%
37	0	-	-	-			12.00%
38	0	-	-	-			12.00%
39	0	-	-	-			12.00%
40	0	-	-	-			12.00%
41	0	-	-	-			12.00%
42	0	-	-	-			12.00%
43	0	-	-	-			12.00%
44	0	-	-	-			12.00%
45	0	-	-	-			12.00%
<b>Total</b>	<b>526</b>	<b>37,531,726</b>	<b>1,801,826</b>	<b>4,503,807</b>	<b>40%</b>	<b>4.80%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			12.00%
1	0	-	-	-			12.00%
2	3	\$ 139,044	\$ 11,750	\$ 16,685	70%	8.45%	12.00%
3	2	77,381	9,006	9,286	97%	11.64%	12.00%
4	1	50,257	1,519	6,031	25%	3.02%	12.00%
5	12	707,454	24,519	84,895	29%	3.47%	12.00%
6	9	606,362	19,391	72,763	27%	3.20%	12.00%
7	12	799,266	38,654	95,912	40%	4.84%	12.00%
8	12	796,816	26,729	95,618	28%	3.35%	12.00%
9	8	505,830	18,928	60,700	31%	3.74%	12.00%
10	20	1,344,594	43,541	161,351	27%	3.24%	12.00%
11	30	2,065,954	72,327	247,915	29%	3.50%	12.00%
12	28	1,966,862	51,461	236,023	22%	2.62%	12.00%
13	26	1,797,009	54,595	215,641	25%	3.04%	12.00%
14	18	1,238,580	64,107	148,630	43%	5.18%	12.00%
15	29	1,926,425	93,714	231,171	41%	4.86%	12.00%
16	41	2,764,764	145,977	331,772	44%	5.28%	12.00%
17	37	2,646,539	99,567	317,585	31%	3.76%	12.00%
18	29	2,057,887	136,794	246,946	55%	6.65%	12.00%
19	28	1,997,806	111,653	239,737	47%	5.59%	12.00%
20	53	3,889,429	209,980	466,732	45%	5.40%	12.00%
21	27	2,090,530	135,977	250,864	54%	6.50%	12.00%
22	33	2,561,996	147,797	307,439	48%	5.77%	12.00%
23	22	1,657,624	73,564	198,915	37%	4.44%	12.00%
24	13	996,272	43,641	119,553	37%	4.38%	12.00%
25	11	932,629	33,922	111,916	30%	3.64%	12.00%
26	5	365,210	14,928	43,825	34%	4.09%	12.00%
27	6	603,417	50,023	72,410	69%	8.29%	12.00%
28	2	131,616	4,800	15,794	30%	3.65%	12.00%
29	4	395,464	40,297	47,456	85%	10.19%	12.00%
30	2	155,411	11,853	18,649	64%	7.63%	12.00%
31	2	180,386	-	21,646			12.00%
32	0	-	-	-			12.00%
33	1	82,910	10,812	9,949	109%	13.04%	12.00%
34	0	-	-	-			12.00%
35	0	-	-	-			12.00%
36	0	-	-	-			12.00%
37	0	-	-	-			12.00%
38	0	-	-	-			12.00%
39	0	-	-	-			12.00%
40	0	-	-	-			12.00%
41	0	-	-	-			12.00%
42	0	-	-	-			12.00%
43	0	-	-	-			12.00%
44	0	-	-	-			12.00%
45	0	-	-	-			12.00%
<b>Total</b>	<b>526</b>	<b>37,531,726</b>	<b>1,801,826</b>	<b>4,503,807</b>	<b>40%</b>	<b>4.80%</b>	<b>12.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - SANITATION  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 13D			10-YEAR PERIOD ENDING 6/30/2013		
		Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual (4) / (3) (7)	Expected (5) / (3) (8)
2004	6,950	\$ 379,146,642	\$ 64,411,927	\$ 45,497,597	142%	16.99%	12.00%
2005	6,901	386,644,529	75,438,181	46,397,343	163%	19.51%	12.00%
2006	7,042	446,996,613	63,439,557	53,639,594	118%	14.19%	12.00%
2007	7,218	466,918,757	49,329,036	56,030,251	88%	10.56%	12.00%
2008	7,352	505,579,854	51,221,748	60,669,583	84%	10.13%	12.00%
2009	7,418	526,922,481	39,929,385	63,230,698	63%	7.58%	12.00%
2010	7,169	516,517,067	43,294,030	61,982,048	70%	8.38%	12.00%
2011	6,789	526,250,693	64,101,072	63,150,083	102%	12.18%	12.00%
2012	6,577	530,663,179	101,230,828	63,679,581	159%	19.08%	12.00%
2013	6,543	527,882,862	46,801,147	63,345,943	74%	8.87%	12.00%
Total	69,959	4,813,522,676	599,196,911	577,622,721	104%	12.45%	12.00%

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
	Service Retiree Mortality						
1A	Men	76%	61	84%	90%	58	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
1B	Women	91%	11	96%	99%	9	
1C	Men & Women	78%	72	85%	92%	68	
1D	By Year						
	Disabled Retiree Mortality						
2A	Men	72%	18	76%	59%	17	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
2B	Women	70%	4	108%	61%	5	
2C	Men & Women	72%	22	81%	81%	22	
2D	By Year						
	Active Member Withdrawals						
3A	Men	113%	56	121%	121%	59	Recent experience has been volatile, but is in line with the current assumption. No change is recommended.
3B	Women	98%	41	115%	115%	48	
3C	Men & Women	106%	97	118%	118%	107	
3D	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Generally, members have been delaying retirements, consistent with national trends. The current assumption reflects long-term anticipated retirement patterns.
4A	Total	49%	164	63%	74%	257	
4B	Elected	48%	96	36%	42%	93	
4C	Mandated	50%	68	107%	129%	165	
	In 2nd Year of Eligibility						
5A	Total	82%	68	146%	156%	101	
5B	Elected	92%	51	153%	154%	80	
5C	Mandated	63%	17	123%	165%	21	
	After 2nd Year of Eligibility						
6A	Total	58%	157	64%	88%	100	
6B	Elected	64%	137	66%	90%	81	
6C	Mandated	36%	20	57%	80%	20	
6D	By Year						
	Reduced Service Retirements						Due to limited experience, we recommend using the NYCERS General group's reduced retirement proposed assumption.
7A	Total	0%	0	1250%	833%	0	
7B	By Year						

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
EXPERIENCE STUDY RESULTS  
OVERVIEW

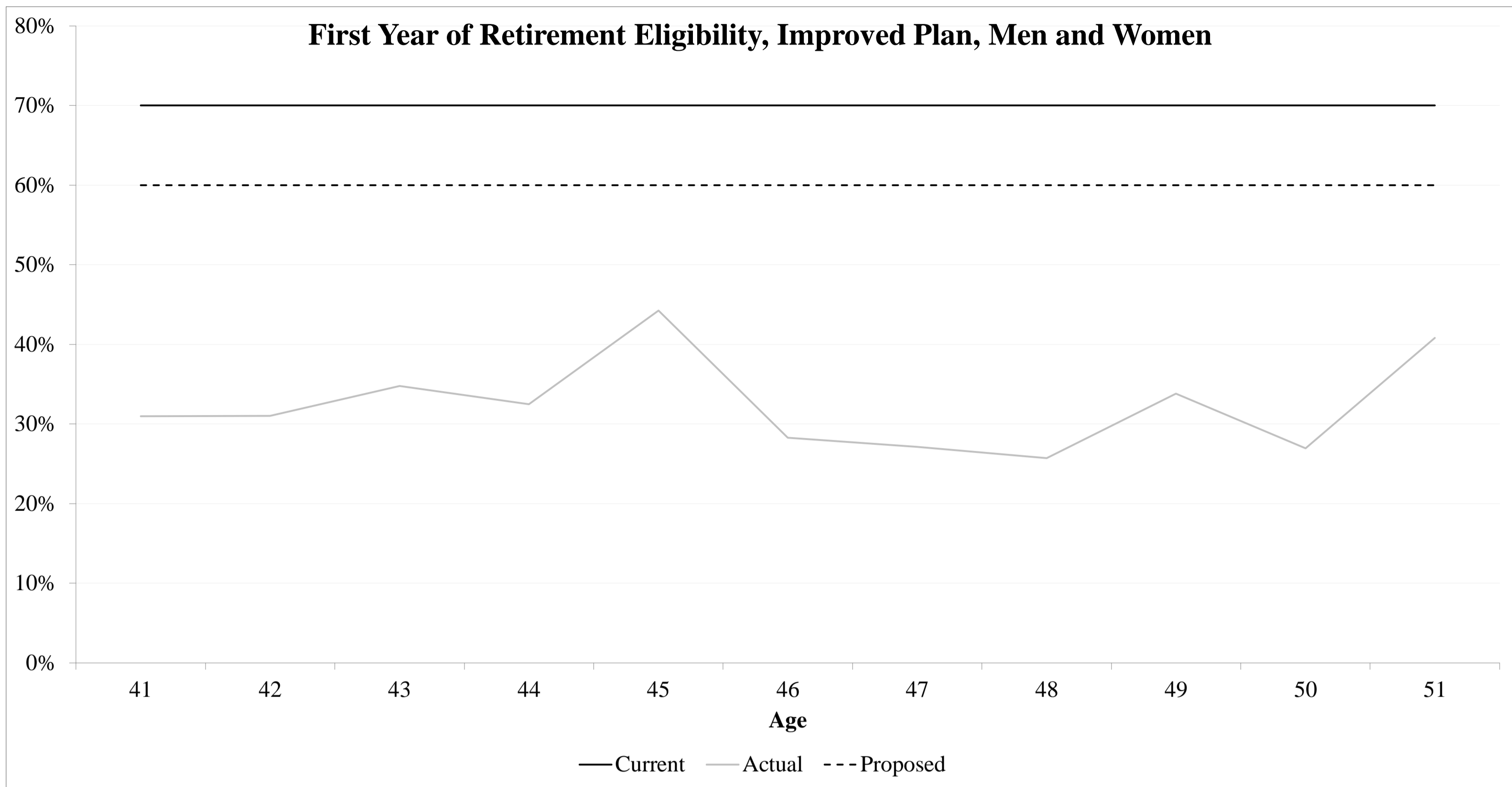
Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
8A	Active Member Ordinary Mortality Men	74%	5	67%	67%	4	Minor Assumption. Experience appears to be less than the assumptions.
8B	Women	67%	2	80%	80%	2	
8C	Men & Women	72%	7	71%	71%	7	
8D	By Year						
9A	Active Member Accidental Mortality	0%	0	0%	0%	0	Minor Assumption. There were no deaths over the measured period.
9B	By Year						
10A	Active Member Ordinary Disability Men	27%	4	46%	46%	6	Minor Assumption. Experience has been trending below current assumption.
10B	Women	76%	7	98%	98%	9	
10C	Men & Women	48%	11	67%	67%	16	
10D	By Year						
11A	Active Member Accidental Disability Men	133%	28	127%	110%	28	The proposed assumption is 115% of the current assumption for Men and 0.20% at all ages for women.
11B	Women	35%	6	38%	77%	6	
11C	Men & Women	90%	34	89%	102%	35	
11D	By Year						
12A	Salary Increases** Total	<b>Expected</b> 7.45%	<b>Actual</b> 6.61%	<b>Expected</b> 6.93%	<b>Proposed</b> 7.06%	<b>Actual</b> 6.79%	Merit increases are lower than expected, though this is offset by greater observed productivity.
12B	Merit Only	3.95%	3.20%	3.43%	3.06%	2.84%	
12C	General Increase over Inflation By Year	1.00%	0.84%	1.00%	1.50%	1.70%	
13A	Overtime Pay** For All Years	<b>Expected</b> 11.59%	<b>Actual</b> 15.67%	<b>Expected</b> 11.44%	<b>Proposed</b> 13.00%	<b>Actual</b> 13.17%	Experience has been close to the expected assumption. Members are working less overtime before becoming retired or disabled.
13B	In Year Before Service Retirement	14.80%	15.41%	14.37%	14.00%	12.51%	
13C	In Year Before Disability Retirement By Year	12.20%	7.82%	11.86%	13.00%	6.38%	

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

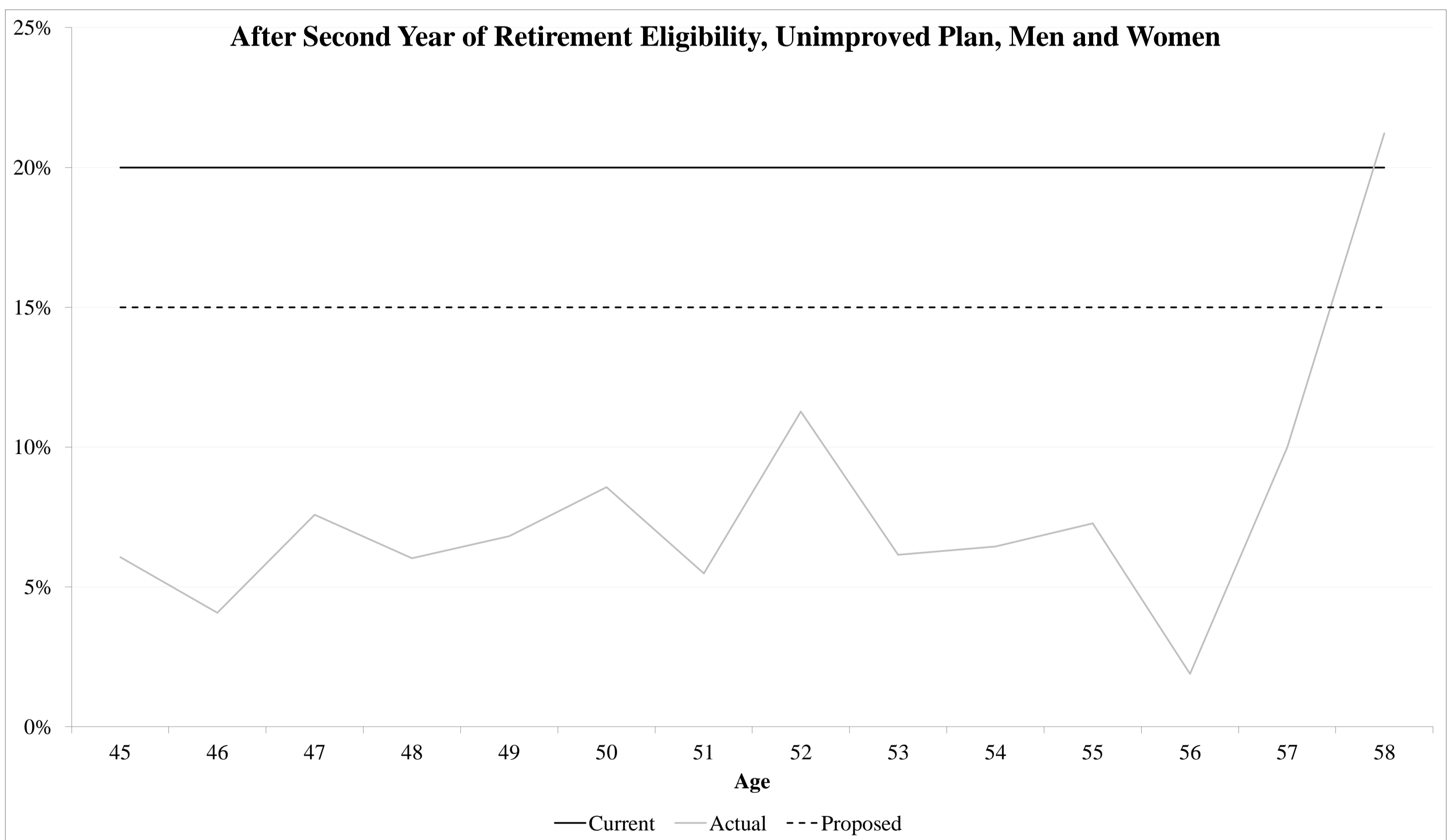
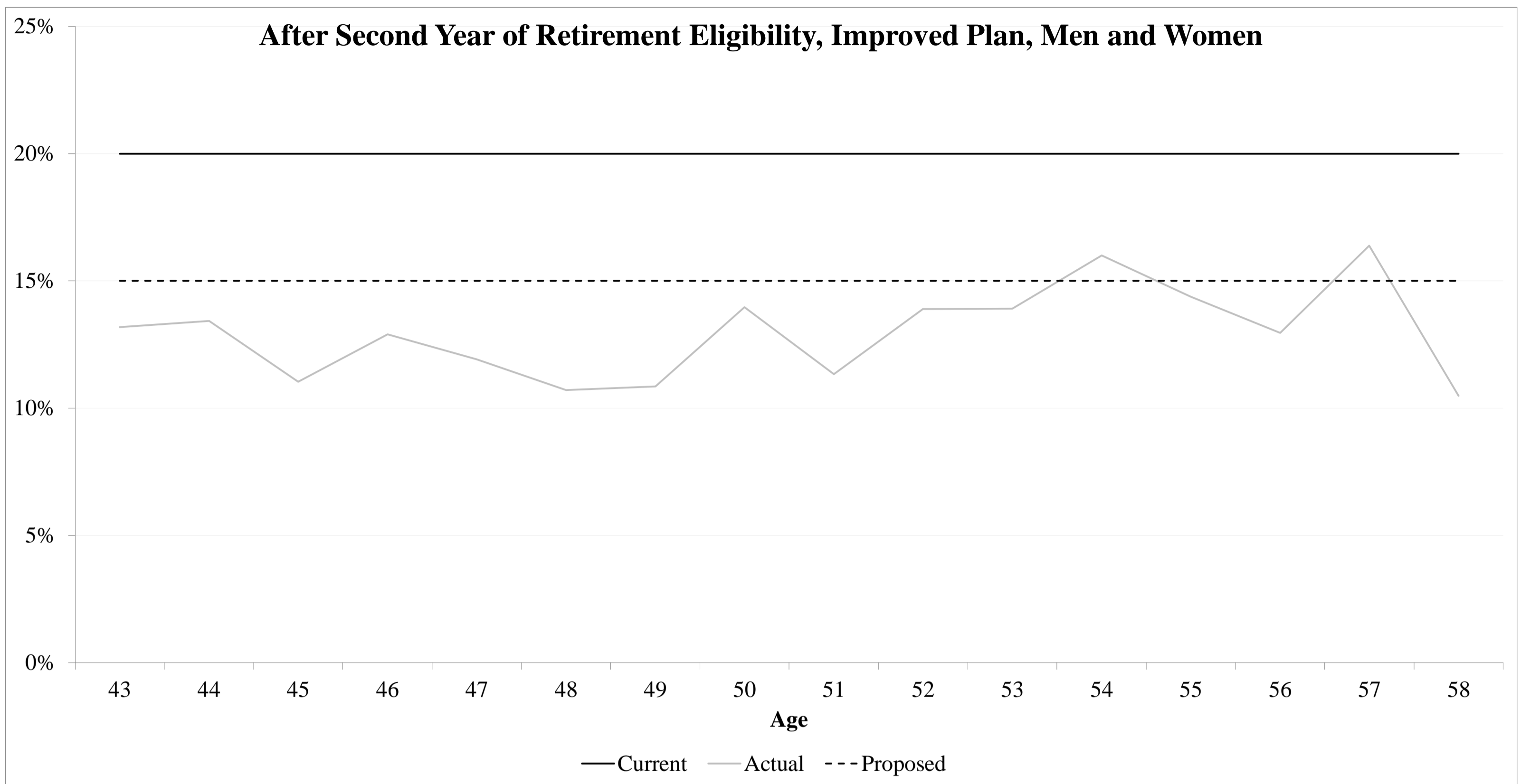
\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.



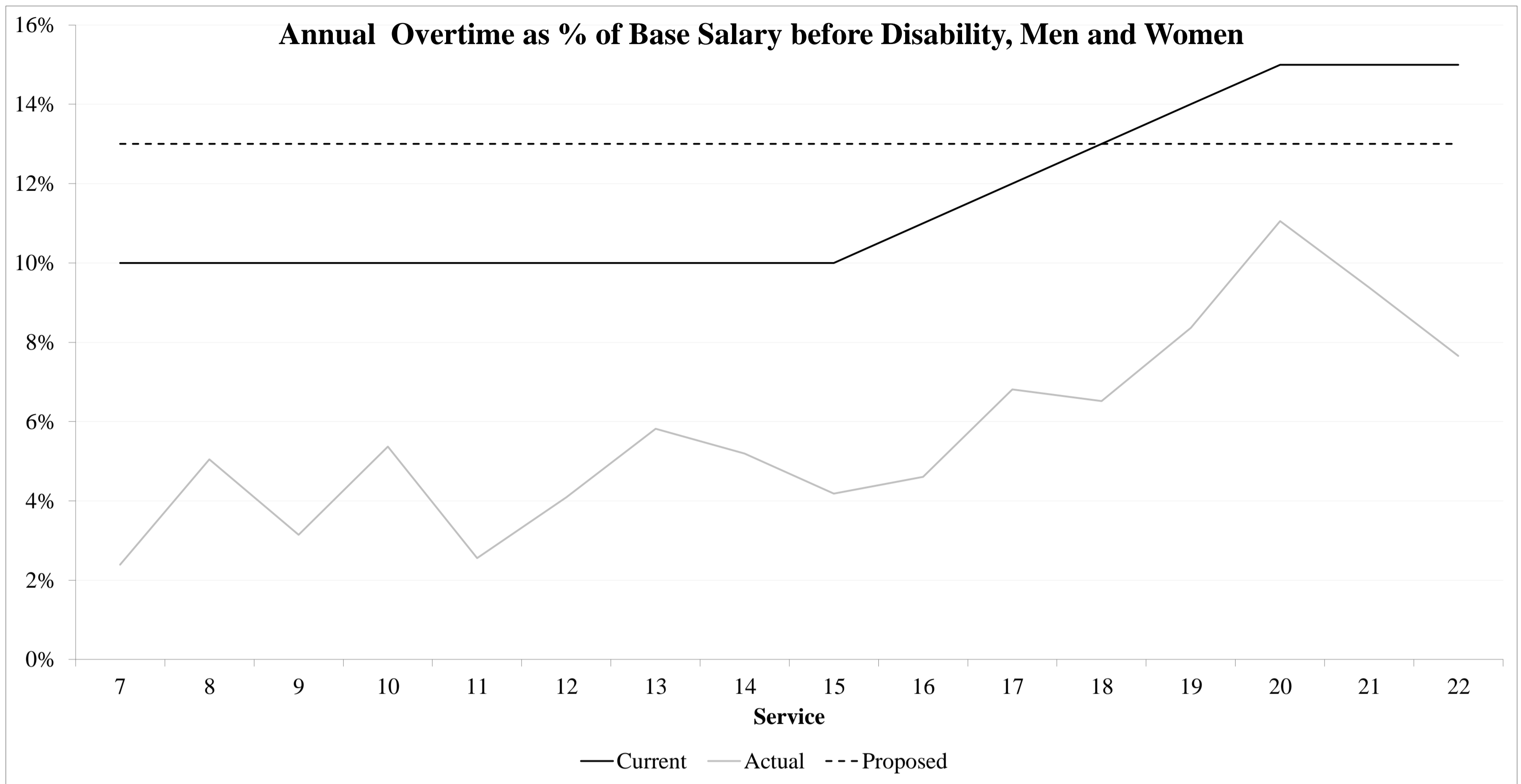
**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
 RETIREMENT ASSUMPTIONS AND EXPERIENCE  
 FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
OVERTIME ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

TABLE 1A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	16	0.000000	0.1597%	0.1800%	0.0	0.0	0%	0%
42	0	65	0.000000	0.2033%	0.1964%	0.1	0.1	0%	0%
43	0	168	0.000000	0.2442%	0.2140%	0.4	0.4	0%	0%
44	3	297	0.010101	0.2825%	0.2329%	0.8	0.7	358%	434%
45	0	474	0.000000	0.3182%	0.2531%	1.5	1.2	0%	0%
46	1	676	0.001479	0.3473%	0.2744%	2.3	1.9	43%	54%
47	1	832	0.001202	0.3729%	0.2968%	3.1	2.5	32%	40%
48	0	992	0.000000	0.3954%	0.3206%	3.9	3.2	0%	0%
49	2	1,034	0.001934	0.4146%	0.3455%	4.3	3.6	47%	56%
50	3	1,030	0.002913	0.4307%	0.3720%	4.4	3.8	68%	78%
51	5	1,061	0.004713	0.4875%	0.4006%	5.2	4.3	97%	118%
52	8	1,012	0.007905	0.5460%	0.4320%	5.5	4.4	145%	183%
53	1	973	0.001028	0.6110%	0.4669%	5.9	4.5	17%	22%
54	5	942	0.005308	0.6785%	0.5058%	6.4	4.8	78%	105%
55	3	905	0.003315	0.7545%	0.5494%	6.8	5.0	44%	60%
56	8	872	0.009174	0.8125%	0.5983%	7.1	5.2	113%	153%
57	2	868	0.002304	0.8712%	0.6533%	7.6	5.7	26%	35%
58	4	860	0.004651	0.9309%	0.7148%	8.0	6.1	50%	65%
59	5	802	0.006234	0.9834%	0.7836%	7.9	6.3	63%	80%
60	7	735	0.009524	1.0360%	0.8603%	7.6	6.3	92%	111%
61	4	655	0.006107	1.1527%	0.9456%	7.6	6.2	53%	65%
62	6	594	0.010101	1.2582%	1.0393%	7.5	6.2	80%	97%
63	7	584	0.011986	1.3720%	1.1423%	8.0	6.7	87%	105%
64	5	530	0.009434	1.4726%	1.2554%	7.8	6.7	64%	75%
65	4	441	0.009070	1.5702%	1.3799%	6.9	6.1	58%	66%
66	3	380	0.007895	1.7139%	1.5166%	6.5	5.8	46%	52%
67	3	324	0.009259	1.8447%	1.6669%	6.0	5.4	50%	56%
68	6	291	0.020619	1.9597%	1.8320%	5.7	5.3	105%	113%
69	6	290	0.020690	2.0894%	2.0136%	6.1	5.8	99%	103%
70	7	297	0.023569	2.2013%	2.2131%	6.5	6.6	107%	106%
71	3	302	0.009934	2.3984%	2.4324%	7.2	7.3	41%	41%
72	4	299	0.013378	2.5999%	2.6735%	7.8	8.0	51%	50%
73	7	265	0.026415	2.8053%	2.9384%	7.4	7.8	94%	90%
74	3	236	0.012712	3.0149%	3.2295%	7.1	7.6	42%	39%
75	3	193	0.015544	3.2551%	3.5496%	6.3	6.9	48%	44%
76	5	170	0.029412	3.7527%	3.9013%	6.4	6.6	78%	75%
77	4	170	0.023529	4.2954%	4.2879%	7.3	7.3	55%	55%
78	7	136	0.051471	4.8575%	4.7128%	6.6	6.4	106%	109%
79	6	136	0.044118	5.4395%	5.1798%	7.4	7.0	81%	85%
80	14	126	0.111111	6.0416%	5.6931%	7.6	7.2	184%	195%
81	6	107	0.056075	6.6973%	6.2572%	7.2	6.7	84%	90%
82	4	102	0.039216	7.3631%	6.8772%	7.5	7.0	53%	57%
83	5	89	0.056180	7.9745%	7.5587%	7.1	6.7	70%	74%
84	9	83	0.108434	8.6555%	8.3077%	7.2	6.9	125%	131%
85	4	74	0.054054	9.2719%	9.1310%	6.9	6.8	58%	59%
86	10	72	0.138889	10.4648%	10.0358%	7.5	7.2	133%	138%
87	4	60	0.066667	11.7953%	11.0303%	7.1	6.6	57%	60%
88	7	57	0.122807	13.1900%	12.1233%	7.5	6.9	93%	101%
89	8	48	0.166667	14.5331%	13.3246%	7.0	6.4	115%	125%
90	3	40	0.075000	16.0483%	14.6450%	6.4	5.9	47%	51%
91	2	33	0.060606	17.8244%	16.0962%	5.9	5.3	34%	38%
92	7	21	0.333333	19.7255%	17.6912%	4.1	3.7	169%	188%
93	4	12	0.333333	21.4517%	19.4443%	2.6	2.3	155%	171%
94	1	9	0.111111	23.1923%	21.3710%	2.1	1.9	48%	52%
95	2	6	0.333333	25.3168%	23.4887%	1.5	1.4	132%	142%
96	1	3	0.333333	27.1711%	25.8163%	0.8	0.8	123%	129%
97	1	2	0.500000	28.9556%	28.3745%	0.6	0.6	173%	176%
98	0	0	N/A	30.9964%	31.1862%	0	0	0%	0%
99	0	0	N/A	32.6018%	34.2765%	0	0	0%	0%
Subtotal	243	21,851				317.7	285.8	76%	85%
100 or more	0	0	N/A	37.1685%	45.5092%	0	0	0%	0%
Total	243	21,851				317.7	285.8	76%	85%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

TABLE 1B				4-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	9	0.000000	0.0783%	0.1485%	0.0	0.0	0%	0%
42	0	53	0.000000	0.0868%	0.1594%	0.0	0.1	0%	0%
43	0	110	0.000000	0.0975%	0.1702%	0.1	0.2	0%	0%
44	0	166	0.000000	0.1105%	0.1810%	0.2	0.3	0%	0%
45	0	255	0.000000	0.1251%	0.1918%	0.3	0.5	0%	0%
46	0	343	0.000000	0.1417%	0.2024%	0.5	0.7	0%	0%
47	2	415	0.004819	0.1603%	0.2130%	0.7	0.9	301%	226%
48	2	480	0.004167	0.1817%	0.2231%	0.9	1.1	229%	187%
49	0	516	0.000000	0.2048%	0.2329%	1.1	1.2	0%	0%
50	1	525	0.001905	0.2307%	0.2471%	1.2	1.3	83%	77%
51	4	518	0.007722	0.2622%	0.2656%	1.4	1.4	295%	291%
52	2	482	0.004149	0.2990%	0.2885%	1.4	1.4	139%	144%
53	1	453	0.002208	0.3392%	0.3158%	1.5	1.4	65%	70%
54	1	430	0.002326	0.3835%	0.3474%	1.6	1.5	61%	67%
55	1	441	0.002268	0.4321%	0.3835%	1.9	1.7	52%	59%
56	2	396	0.005051	0.5051%	0.4239%	2.0	1.7	100%	119%
57	1	353	0.002833	0.5811%	0.4687%	2.1	1.7	49%	60%
58	2	314	0.006369	0.6577%	0.5178%	2.1	1.6	97%	123%
59	2	234	0.008547	0.7386%	0.5714%	1.7	1.3	116%	150%
60	0	173	0.000000	0.8236%	0.6294%	1.4	1.1	0%	0%
61	1	131	0.007634	0.9145%	0.6918%	1.2	0.9	83%	110%
62	0	102	0.000000	0.9912%	0.7604%	1.0	0.8	0%	0%
63	0	79	0.000000	1.0664%	0.8357%	0.8	0.7	0%	0%
64	0	71	0.000000	1.1462%	0.9186%	0.8	0.7	0%	0%
65	1	65	0.015385	1.2310%	1.0096%	0.8	0.7	125%	152%
66	0	55	0.000000	1.3217%	1.1097%	0.7	0.6	0%	0%
67	1	49	0.020408	1.4235%	1.2197%	0.7	0.6	143%	167%
68	0	40	0.000000	1.5303%	1.3406%	0.6	0.5	0%	0%
69	0	37	0.000000	1.6051%	1.4735%	0.6	0.5	0%	0%
70	2	34	0.058824	1.6732%	1.6195%	0.6	0.6	352%	363%
71	0	28	0.000000	1.8431%	1.7800%	0.5	0.5	0%	0%
72	0	22	0.000000	2.0222%	1.9565%	0.4	0.4	0%	0%
73	0	21	0.000000	2.1798%	2.1504%	0.5	0.5	0%	0%
74	0	17	0.000000	2.3496%	2.3635%	0.4	0.4	0%	0%
75	0	17	0.000000	2.4953%	2.5978%	0.4	0.4	0%	0%
76	0	17	0.000000	2.8182%	2.8553%	0.5	0.5	0%	0%
77	1	14	0.071429	3.1667%	3.1383%	0.4	0.4	226%	228%
78	0	14	0.000000	3.4923%	3.4494%	0.5	0.5	0%	0%
79	0	13	0.000000	3.8179%	3.7913%	0.5	0.5	0%	0%
80	2	11	0.181818	4.1435%	4.1671%	0.5	0.5	439%	436%
81	0	12	0.000000	4.6586%	4.5802%	0.6	0.5	0%	0%
82	0	14	0.000000	5.1835%	5.0341%	0.7	0.7	0%	0%
83	1	16	0.062500	5.7181%	5.5331%	0.9	0.9	109%	113%
84	3	20	0.150000	6.2626%	6.0816%	1.3	1.2	240%	247%
85	1	18	0.055556	6.8720%	6.6844%	1.2	1.2	81%	83%
86	1	18	0.055556	7.9002%	7.3469%	1.4	1.3	70%	76%
87	1	16	0.062500	8.9443%	8.0752%	1.4	1.3	70%	77%
88	3	14	0.214286	9.9247%	8.8756%	1.4	1.2	216%	241%
89	0	9	0.000000	10.9930%	9.7553%	1.0	0.9	0%	0%
90	0	6	0.000000	11.9814%	10.7223%	0.7	0.6	0%	0%
91	1	8	0.125000	13.6802%	11.7851%	1.1	0.9	91%	106%
92	1	6	0.166667	15.3234%	12.9532%	0.9	0.8	109%	129%
93	1	4	0.250000	17.0656%	14.2372%	0.7	0.6	146%	176%
94	2	3	0.666667	18.5767%	15.6484%	0.6	0.5	359%	426%
95	0	0	N/A	20.0298%	17.1994%	0	0	0%	0%
96	0	0	N/A	21.1824%	18.9042%	0	0	0%	0%
97	0	0	N/A	22.3611%	20.7780%	0	0	0%	0%
98	0	0	N/A	23.0718%	22.8376%	0	0	0%	0%
99	0	0	N/A	23.4718%	25.1012%	0	0	0%	0%
Subtotal	44	7,667				48.5	44.8	91%	98%
100 or more	0	0	N/A	25.4498%	33.3297%	0	0	0%	0%
Total	44	7,667				48.5	44.8	91%	98%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	25	0.000000	0.1304%	0.1687%	0.0	0.0	0%	0%
42	0	118	0.000000	0.1510%	0.1798%	0.2	0.2	0%	0%
43	0	278	0.000000	0.1862%	0.1967%	0.5	0.5	0%	0%
44	3	463	0.006479	0.2208%	0.2143%	1.0	1.0	293%	302%
45	0	729	0.000000	0.2507%	0.2316%	1.8	1.7	0%	0%
46	1	1,019	0.000981	0.2781%	0.2502%	2.8	2.5	35%	39%
47	3	1,247	0.002406	0.3021%	0.2689%	3.8	3.4	80%	89%
48	2	1,472	0.001359	0.3257%	0.2888%	4.8	4.3	42%	47%
49	2	1,550	0.001290	0.3448%	0.3080%	5.3	4.8	37%	42%
50	4	1,555	0.002572	0.3632%	0.3298%	5.6	5.1	71%	78%
51	9	1,579	0.005700	0.4136%	0.3563%	6.5	5.6	138%	160%
52	10	1,494	0.006693	0.4663%	0.3857%	7.0	5.8	144%	174%
53	2	1,426	0.001403	0.5247%	0.4189%	7.5	6.0	27%	33%
54	6	1,372	0.004373	0.5860%	0.4562%	8.0	6.3	75%	96%
55	4	1,346	0.002972	0.6489%	0.4950%	8.7	6.7	46%	60%
56	10	1,268	0.007886	0.7165%	0.5438%	9.1	6.9	110%	145%
57	3	1,221	0.002457	0.7873%	0.5999%	9.6	7.3	31%	41%
58	6	1,174	0.005111	0.8578%	0.6621%	10.1	7.8	60%	77%
59	7	1,036	0.006757	0.9281%	0.7357%	9.6	7.6	73%	92%
60	7	908	0.007709	0.9955%	0.8163%	9.0	7.4	77%	94%
61	5	786	0.006361	1.1130%	0.9033%	8.7	7.1	57%	70%
62	6	696	0.008621	1.2191%	0.9984%	8.5	6.9	71%	86%
63	7	663	0.010558	1.3356%	1.1057%	8.9	7.3	79%	95%
64	5	601	0.008319	1.4340%	1.2156%	8.6	7.3	58%	68%
65	5	506	0.009881	1.5266%	1.3323%	7.7	6.7	65%	74%
66	3	435	0.006897	1.6643%	1.4651%	7.2	6.4	41%	47%
67	4	373	0.010724	1.7894%	1.6081%	6.7	6.0	60%	67%
68	6	331	0.018127	1.9078%	1.7726%	6.3	5.9	95%	102%
69	6	327	0.018349	2.0346%	1.9525%	6.7	6.4	90%	94%
70	9	331	0.027190	2.1471%	2.1521%	7.1	7.1	127%	126%
71	3	330	0.009091	2.3513%	2.3771%	7.8	7.8	39%	38%
72	4	321	0.012461	2.5603%	2.6243%	8.2	8.4	49%	47%
73	7	286	0.024476	2.7594%	2.8805%	7.9	8.2	89%	85%
74	3	253	0.011858	2.9702%	3.1714%	7.5	8.0	40%	37%
75	3	210	0.014286	3.1936%	3.4725%	6.7	7.3	45%	41%
76	5	187	0.026738	3.6677%	3.8062%	6.9	7.1	73%	70%
77	5	184	0.027174	4.2095%	4.2004%	7.7	7.7	65%	65%
78	7	150	0.046667	4.7301%	4.5949%	7.1	6.9	99%	102%
79	6	149	0.040268	5.2980%	5.0586%	7.9	7.5	76%	80%
80	16	137	0.116788	5.8892%	5.5705%	8.1	7.6	198%	210%
81	6	119	0.050420	6.4917%	6.0881%	7.7	7.2	78%	83%
82	4	116	0.034483	7.1000%	6.6548%	8.2	7.7	49%	52%
83	6	105	0.057143	7.6307%	7.2501%	8.0	7.6	75%	79%
84	12	103	0.116505	8.1909%	7.8755%	8.4	8.1	142%	148%
85	5	92	0.054348	8.8024%	8.6523%	8.1	8.0	62%	63%
86	11	90	0.122222	9.9519%	9.4980%	9.0	8.5	123%	129%
87	5	76	0.065789	11.1951%	10.4081%	8.5	7.9	59%	63%
88	10	71	0.140845	12.5461%	11.4829%	8.9	8.2	112%	123%
89	8	57	0.140351	13.9741%	12.7610%	8.0	7.3	100%	110%
90	3	46	0.065217	15.5178%	14.1333%	7.1	6.5	42%	46%
91	3	41	0.073171	17.0158%	15.2550%	7.0	6.3	43%	48%
92	8	27	0.296296	18.7473%	16.6383%	5.1	4.5	158%	178%
93	5	16	0.312500	20.3552%	18.1425%	3.3	2.9	154%	172%
94	3	12	0.250000	22.0384%	19.9404%	2.6	2.4	113%	125%
95	2	6	0.333333	25.3168%	23.4887%	1.5	1.4	132%	142%
96	1	3	0.333333	27.1711%	25.8163%	0.8	0.8	123%	129%
97	1	2	0.500000	28.9556%	28.3745%	0.6	0.6	173%	176%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	287	29,518				366.2	330.6	78%	87%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	287	29,518				366.2	330.6	78%	87%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Deaths</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate</u> <b>(2) / (3)</b> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> <b>(7) / (3)</b> <b>(5)</b>	<u>Proposed</u> <b>(8) / (3)</b> <b>(6)</b>	<u>Expected</u> <b>(7)</b>	<u>Proposed</u> <b>(8)</b>	<u>Expected</u> <b>(2) / (7)</b> <b>(9)</b>	<u>Proposed</u> <b>(2) / (8)</b> <b>(10)</b>
41-44	3	546	0.005495	0.2577%	0.2212%	1.4	1.2	213%	248%
45-49	4.0000	4,008	0.000998	0.3784%	0.3063%	15.2	12.3	26%	33%
50-54	22	5,018	0.004384	0.5474%	0.4337%	27.5	21.8	80%	101%
55-59	22	4,307	0.005108	0.8676%	0.6569%	37.4	28.3	59%	78%
60-64	29	3,098	0.009361	1.2413%	1.0334%	38.5	32.0	75%	91%
65-69	22	1,726	0.012746	1.8063%	1.6465%	31.2	28.4	71%	77%
70-74	24	1,399	0.017155	2.5807%	2.6677%	36.1	37.3	66%	64%
75-79	25	805	0.031056	4.2196%	4.2517%	34.0	34.2	74%	73%
80-84	38	507	0.074951	7.2131%	6.8059%	36.6	34.5	104%	110%
85-89	33	311	0.106109	11.5650%	10.9025%	36.0	33.9	92%	97%
90-94	17	115	0.147826	18.3524%	16.6449%	21.1	19.1	81%	89%
95-99	4	11	0.363636	26.4841%	25.0119%	2.9	2.8	137%	145%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>243</b>	<b>21,851</b>				<b>317.7</b>	<b>285.8</b>	<b>76%</b>	<b>85%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**WOMEN**

**TABLE 1B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	338	0.000000	0.1017%	0.1732%	0.3	0.6	0%	0%
45-49	4	2,009	0.001991	0.1692%	0.2160%	3.4	4.3	118%	92%
50-54	9	2,408	0.003738	0.2988%	0.2902%	7.2	7.0	125%	129%
55-59	8	1,738	0.004603	0.5610%	0.4596%	9.8	8.0	82%	100%
60-64	1	556	0.001799	0.9515%	0.7344%	5.3	4.1	19%	24%
65-69	2	246	0.008130	1.3946%	1.1974%	3.4	2.9	58%	68%
70-74	2	122	0.016393	1.9566%	1.9122%	2.4	2.3	84%	86%
75-79	1	75	0.013333	3.1092%	3.1229%	2.3	2.3	43%	43%
80-84	6	73	0.082192	5.3533%	5.2252%	3.9	3.8	154%	157%
85-89	6	75	0.080000	8.6252%	7.9176%	6.5	5.9	93%	101%
90-94	5	27	0.185185	14.7134%	12.6010%	4.0	3.4	126%	147%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	44	7,667				48.5	44.8	91%	98%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN AND WOMEN**

**TABLE 1C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	3	884	0.003394	0.1980%	0.2029%	1.8	1.8	171%	167%
45-49	8	6,017	0.001330	0.3086%	0.2762%	18.6	16.6	43%	48%
50-54	31	7,426	0.004175	0.4668%	0.3871%	34.7	28.7	89%	108%
55-59	30	6,045	0.004963	0.7795%	0.6001%	47.1	36.3	64%	83%
60-64	30	3,654	0.008210	1.1972%	0.9879%	43.7	36.1	69%	83%
65-69	24	1,972	0.012170	1.7549%	1.5905%	34.6	31.4	69%	77%
70-74	26	1,521	0.017094	2.5306%	2.6071%	38.5	39.7	68%	66%
75-79	26	880	0.029545	4.1250%	4.1555%	36.3	36.6	72%	71%
80-84	44	580	0.075862	6.9790%	6.6070%	40.5	38.3	109%	115%
85-89	39	386	0.101036	10.9938%	10.3226%	42.4	39.8	92%	98%
90-94	22	142	0.154930	17.6605%	15.8760%	25.1	22.5	88%	98%
95-99	4	11	0.363636	26.4841%	25.0119%	2.9	2.8	137%	145%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>287</b>	<b>29,518</b>				<b>366.2</b>	<b>330.6</b>	<b>78%</b>	<b>87%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

TABLE 1A

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	220	0.000000	0.1641%	0.1954%	0.4	0.4	0%	0%
42	1	483	0.002070	0.2095%	0.2139%	1.0	1.0	99%	97%
43	1	822	0.001217	0.2524%	0.2335%	2.1	1.9	48%	52%
44	5	1,135	0.004405	0.2930%	0.2539%	3.3	2.9	150%	173%
45	2	1,429	0.001400	0.3309%	0.2753%	4.7	3.9	42%	51%
46	3	1,645	0.001824	0.3623%	0.2973%	6.0	4.9	50%	61%
47	6	1,862	0.003222	0.3902%	0.3200%	7.3	6.0	83%	101%
48	1	1,996	0.000501	0.4150%	0.3435%	8.3	6.9	12%	15%
49	3	2,062	0.001455	0.4365%	0.3677%	9.0	7.6	33%	40%
50	6	2,084	0.002879	0.4548%	0.3928%	9.5	8.2	63%	73%
51	12	2,151	0.005579	0.5164%	0.4194%	11.1	9.0	108%	133%
52	11	2,101	0.005236	0.5801%	0.4482%	12.2	9.4	90%	117%
53	6	2,049	0.002928	0.6492%	0.4800%	13.3	9.8	45%	61%
54	8	2,010	0.003980	0.7209%	0.5159%	14.5	10.4	55%	77%
55	10	1,938	0.005160	0.7992%	0.5571%	15.5	10.8	65%	93%
56	13	1,857	0.007001	0.8580%	0.6045%	15.9	11.2	82%	116%
57	7	1,772	0.003950	0.9171%	0.6597%	16.3	11.7	43%	60%
58	7	1,688	0.004147	0.9770%	0.7235%	16.5	12.2	42%	57%
59	14	1,555	0.009003	1.0322%	0.7969%	16.1	12.4	87%	113%
60	15	1,421	0.010556	1.0873%	0.8809%	15.5	12.5	97%	120%
61	8	1,271	0.006294	1.2062%	0.9757%	15.3	12.4	52%	65%
62	10	1,148	0.008711	1.3166%	1.0811%	15.1	12.4	66%	81%
63	12	1,074	0.011173	1.4312%	1.1973%	15.4	12.9	78%	93%
64	9	1,011	0.008902	1.5362%	1.3248%	15.5	13.4	58%	67%
65	17	938	0.018124	1.6380%	1.4644%	15.4	13.7	111%	124%
66	10	858	0.011655	1.7825%	1.6171%	15.3	13.9	65%	72%
67	11	769	0.014304	1.9185%	1.7845%	14.8	13.7	75%	80%
68	12	729	0.016461	2.0444%	1.9673%	14.9	14.3	81%	84%
69	18	697	0.025825	2.1797%	2.1683%	15.2	15.1	118%	119%
70	16	651	0.024578	2.3034%	2.3885%	15.0	15.5	107%	103%
71	16	613	0.026101	2.5097%	2.6303%	15.4	16.1	104%	99%
72	10	568	0.017606	2.7205%	2.8957%	15.5	16.4	65%	61%
73	16	537	0.029795	2.9354%	3.1869%	15.8	17.1	102%	93%
74	13	479	0.027140	3.1547%	3.5059%	15.1	16.8	86%	77%
75	9	425	0.021176	3.3958%	3.8549%	14.4	16.4	62%	55%
76	12	388	0.030928	3.9148%	4.2378%	15.2	16.4	79%	73%
77	15	372	0.040323	4.4674%	4.6563%	16.6	17.3	90%	87%
78	14	336	0.041667	5.0367%	5.1135%	16.9	17.2	83%	81%
79	19	312	0.060897	5.6231%	5.6144%	17.5	17.5	108%	108%
80	27	284	0.095070	6.2265%	6.1638%	17.7	17.5	153%	154%
81	13	260	0.050000	6.8815%	6.7655%	17.9	17.6	73%	74%
82	14	258	0.054264	7.5426%	7.4253%	19.5	19.2	72%	73%
83	14	230	0.060870	8.1690%	8.1494%	18.8	18.7	75%	75%
84	25	210	0.119048	8.8398%	8.9441%	18.6	18.8	135%	133%
85	12	189	0.063492	9.4694%	9.8162%	17.9	18.6	67%	65%
86	23	169	0.136095	10.6877%	10.7724%	18.1	18.2	127%	126%
87	17	129	0.131783	12.0102%	11.8205%	15.5	15.2	110%	111%
88	15	106	0.141509	13.3898%	12.9666%	14.2	13.7	106%	109%
89	11	78	0.141026	14.7533%	14.2195%	11.5	11.1	96%	99%
90	6	62	0.096774	16.2424%	15.5886%	10.1	9.7	60%	62%
91	4	48	0.083333	18.0401%	17.0845%	8.7	8.2	46%	49%
92	11	33	0.333333	19.9041%	18.7143%	6.6	6.2	167%	178%
93	7	22	0.318182	21.6460%	20.4852%	4.8	4.5	147%	155%
94	1	13	0.076923	23.4023%	22.4306%	3.0	2.9	33%	34%
95	3	8	0.375000	25.4693%	24.5733%	2.0	2.0	147%	153%
96	2	4	0.500000	27.3348%	26.9426%	1.1	1.1	183%	186%
97	1	2	0.500000	29.1300%	29.5404%	0.6	0.6	172%	169%
98	0	0	N/A	31.0896%	32.3888%	0	0	0%	0%
99	0	0	N/A	32.6998%	35.5155%	0	0	0%	0%
Subtotal	584	47,561				698.9	645.6	84%	90%
100 or more	0	0	N/A	37.1685%	47.0399%	0	0	0%	0%
Total	584	47,561				698.9	645.6	84%	90%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

TABLE 1B				10-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	72	0.000000	0.0819%	0.1596%	0.1	0.1	0%	0%
42	0	178	0.000000	0.0908%	0.1706%	0.2	0.3	0%	0%
43	1	337	0.002967	0.1020%	0.1812%	0.3	0.6	291%	164%
44	0	485	0.000000	0.1156%	0.1914%	0.6	0.9	0%	0%
45	1	612	0.001634	0.1313%	0.2012%	0.8	1.2	124%	81%
46	1	735	0.001361	0.1492%	0.2105%	1.1	1.5	91%	65%
47	5	856	0.005841	0.1693%	0.2194%	1.4	1.9	345%	266%
48	2	906	0.002208	0.1919%	0.2277%	1.7	2.1	115%	97%
49	1	930	0.001075	0.2162%	0.2358%	2.0	2.2	50%	46%
50	1	931	0.001074	0.2429%	0.2488%	2.3	2.3	44%	43%
51	4	915	0.004372	0.2752%	0.2666%	2.5	2.4	159%	164%
52	2	859	0.002328	0.3119%	0.2895%	2.7	2.5	75%	80%
53	2	795	0.002516	0.3517%	0.3177%	2.8	2.5	72%	79%
54	2	727	0.002751	0.3952%	0.3513%	2.9	2.6	70%	78%
55	2	665	0.003008	0.4427%	0.3906%	2.9	2.6	68%	77%
56	2	573	0.003490	0.5143%	0.4353%	2.9	2.5	68%	80%
57	2	497	0.004024	0.5899%	0.4857%	2.9	2.4	68%	83%
58	4	434	0.009217	0.6677%	0.5414%	2.9	2.3	138%	170%
59	3	332	0.009036	0.7498%	0.6025%	2.5	2.0	121%	150%
60	0	257	0.000000	0.8360%	0.6685%	2.1	1.7	0%	0%
61	1	210	0.004762	0.9283%	0.7392%	1.9	1.6	51%	64%
62	0	174	0.000000	1.0063%	0.8160%	1.8	1.4	0%	0%
63	0	147	0.000000	1.0825%	0.8998%	1.6	1.3	0%	0%
64	0	126	0.000000	1.1636%	0.9910%	1.5	1.2	0%	0%
65	2	117	0.017094	1.2496%	1.0901%	1.5	1.3	137%	157%
66	0	102	0.000000	1.3417%	1.1984%	1.4	1.2	0%	0%
67	3	94	0.031915	1.4451%	1.3166%	1.4	1.2	221%	242%
68	1	73	0.013699	1.5535%	1.4461%	1.1	1.1	88%	95%
69	1	67	0.014925	1.6294%	1.5881%	1.1	1.1	92%	94%
70	2	61	0.032787	1.6985%	1.7437%	1.0	1.1	193%	188%
71	1	53	0.018868	1.8767%	1.9146%	1.0	1.0	101%	99%
72	0	46	0.000000	2.0590%	2.1020%	0.9	1.0	0%	0%
73	1	43	0.023256	2.2263%	2.3080%	1.0	1.0	104%	101%
74	0	40	0.000000	2.3996%	2.5337%	1.0	1.0	0%	0%
75	1	43	0.023256	2.5562%	2.7819%	1.1	1.2	91%	84%
76	1	45	0.022222	2.8870%	3.0552%	1.3	1.4	77%	73%
77	2	42	0.047619	3.2341%	3.3563%	1.4	1.4	147%	142%
78	0	48	0.000000	3.5667%	3.6878%	1.7	1.8	0%	0%
79	2	50	0.040000	3.8992%	4.0546%	1.9	2.0	103%	99%
80	4	50	0.080000	4.2318%	4.4584%	2.1	2.2	189%	179%
81	1	46	0.021739	4.7578%	4.9043%	2.2	2.3	46%	44%
82	3	46	0.065217	5.2939%	5.3948%	2.4	2.5	123%	121%
83	3	43	0.069767	5.8399%	5.9362%	2.5	2.6	119%	118%
84	5	45	0.111111	6.3959%	6.5306%	2.9	2.9	174%	170%
85	2	41	0.048780	6.9972%	7.1838%	2.9	2.9	70%	68%
86	1	37	0.027027	8.0199%	7.8991%	3.0	2.9	34%	34%
87	4	35	0.114286	9.0525%	8.6794%	3.2	3.0	126%	132%
88	5	28	0.178571	10.0447%	9.5319%	2.8	2.7	178%	187%
89	3	20	0.150000	11.0925%	10.4649%	2.2	2.1	135%	143%
90	0	13	0.000000	12.0898%	11.4834%	1.6	1.5	0%	0%
91	2	13	0.153846	13.8041%	12.5946%	1.8	1.6	111%	122%
92	2	9	0.222222	15.4621%	13.8048%	1.4	1.2	144%	161%
93	1	5	0.200000	17.1684%	15.1237%	0.9	0.8	116%	132%
94	3	4	0.750000	18.6886%	16.5652%	0.7	0.7	401%	453%
95	0	0	N/A	20.1504%	18.1442%	0	0	0%	0%
96	0	0	N/A	21.3100%	19.8879%	0	0	0%	0%
97	0	0	N/A	22.4283%	21.7949%	0	0	0%	0%
98	0	0	N/A	23.1412%	23.8896%	0	0	0%	0%
99	0	0	N/A	23.5424%	26.1831%	0	0	0%	0%
Subtotal	92	14,112				95.7	92.9	96%	99%
100 or more	0	0	N/A	25.4498%	34.6676%	0	0	0%	0%
Total	92	14,112				95.7	92.9	96%	99%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN AND WOMEN**

TABLE 1C

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	292	0.000000	0.1438%	0.1865%	0.4	0.5	0%	0%
42	1	661	0.001513	0.1775%	0.2022%	1.2	1.3	85%	75%
43	2	1,159	0.001726	0.2087%	0.2183%	2.4	2.5	83%	79%
44	5	1,620	0.003086	0.2399%	0.2352%	3.9	3.8	129%	131%
45	3	2,041	0.001470	0.2710%	0.2531%	5.5	5.2	54%	58%
46	4	2,380	0.001681	0.2965%	0.2705%	7.1	6.4	57%	62%
47	11	2,718	0.004047	0.3206%	0.2883%	8.7	7.8	126%	140%
48	3	2,902	0.001034	0.3453%	0.3073%	10.0	8.9	30%	34%
49	4	2,992	0.001337	0.3680%	0.3267%	11.0	9.8	36%	41%
50	7	3,015	0.002322	0.3894%	0.3483%	11.7	10.5	60%	67%
51	16	3,066	0.005219	0.4444%	0.3738%	13.6	11.5	117%	140%
52	13	2,960	0.004392	0.5023%	0.4022%	14.9	11.9	87%	109%
53	8	2,844	0.002813	0.5660%	0.4347%	16.1	12.4	50%	65%
54	10	2,737	0.003654	0.6344%	0.4722%	17.4	12.9	58%	77%
55	12	2,603	0.004610	0.7081%	0.5145%	18.4	13.4	65%	90%
56	15	2,430	0.006173	0.7770%	0.5646%	18.9	13.7	79%	109%
57	9	2,269	0.003967	0.8454%	0.6216%	19.2	14.1	47%	64%
58	11	2,122	0.005184	0.9137%	0.6863%	19.4	14.6	57%	76%
59	17	1,887	0.009009	0.9825%	0.7627%	18.5	14.4	92%	118%
60	15	1,678	0.008939	1.0488%	0.8483%	17.6	14.2	85%	105%
61	9	1,481	0.006077	1.1668%	0.9422%	17.3	14.0	52%	65%
62	10	1,322	0.007564	1.2758%	1.0462%	16.9	13.8	59%	72%
63	12	1,221	0.009828	1.3892%	1.1615%	17.0	14.2	71%	85%
64	9	1,137	0.007916	1.4949%	1.2878%	17.0	14.6	53%	61%
65	19	1,055	0.018009	1.5949%	1.4229%	16.8	15.0	113%	127%
66	10	960	0.010417	1.7357%	1.5726%	16.7	15.1	60%	66%
67	14	863	0.016222	1.8669%	1.7335%	16.1	15.0	87%	94%
68	13	802	0.016209	1.9997%	1.9199%	16.0	15.4	81%	84%
69	19	764	0.024869	2.1314%	2.1174%	16.3	16.2	117%	117%
70	18	712	0.025281	2.2516%	2.3333%	16.0	16.6	112%	108%
71	17	666	0.025526	2.4593%	2.5733%	16.4	17.1	104%	99%
72	10	614	0.016287	2.6709%	2.8362%	16.4	17.4	61%	57%
73	17	580	0.029310	2.8828%	3.1217%	16.7	18.1	102%	94%
74	13	519	0.025048	3.0965%	3.4310%	16.1	17.8	81%	73%
75	10	468	0.021368	3.3187%	3.7563%	15.5	17.6	64%	57%
76	13	433	0.030023	3.8080%	4.1149%	16.5	17.8	79%	73%
77	17	414	0.041063	4.3423%	4.5244%	18.0	18.7	95%	91%
78	14	384	0.036458	4.8530%	4.9353%	18.6	19.0	75%	74%
79	21	362	0.058011	5.3850%	5.3990%	19.5	19.5	108%	107%
80	31	334	0.092814	5.9279%	5.9085%	19.8	19.7	157%	157%
81	14	306	0.045752	6.5623%	6.4857%	20.1	19.8	70%	71%
82	17	304	0.055921	7.2023%	7.1180%	21.9	21.6	78%	79%
83	17	273	0.062271	7.8021%	7.8008%	21.3	21.3	80%	80%
84	30	255	0.117647	8.4085%	8.5182%	21.4	21.7	140%	138%
85	14	230	0.060870	9.0287%	9.3470%	20.8	21.5	67%	65%
86	24	206	0.116505	10.2085%	10.2563%	21.0	21.1	114%	114%
87	21	164	0.128049	11.3790%	11.1501%	18.7	18.3	113%	115%
88	20	134	0.149254	12.6908%	12.2489%	17.0	16.4	118%	122%
89	14	98	0.142857	14.0062%	13.4532%	13.7	13.2	102%	106%
90	6	75	0.080000	15.5226%	14.8771%	11.6	11.2	52%	54%
91	6	61	0.098361	17.1373%	16.1276%	10.5	9.8	57%	61%
92	13	42	0.309524	18.9522%	17.6623%	8.0	7.4	163%	175%
93	8	27	0.296296	20.8168%	19.4923%	5.6	5.3	142%	152%
94	4	17	0.235294	22.2932%	21.0505%	3.8	3.6	106%	112%
95	3	8	0.375000	25.4693%	24.5733%	2.0	2.0	147%	153%
96	2	4	0.500000	27.3348%	26.9426%	1.1	1.1	183%	186%
97	1	2	0.500000	29.1300%	29.5404%	0.6	0.6	172%	169%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	676	61,673				794.6	738.5	85%	92%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	676	61,673				794.6	738.5	85%	92%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Deaths</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate</u> <b>(2) / (3)</b> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> <b>(7) / (3)</b> <b>(5)</b>	<u>Proposed</u> <b>(8) / (3)</b> <b>(6)</b>	<u>Expected</u> <b>(7)</b>	<u>Proposed</u> <b>(8)</b>	<u>Expected</u> <b>(2) / (7)</b> <b>(9)</b>	<u>Proposed</u> <b>(2) / (8)</b> <b>(10)</b>
41-44	7	2,660	0.002632	0.2546%	0.2355%	6.8	6.3	103%	112%
45-49	15	8,994	0.001668	0.3918%	0.3249%	35.2	29.2	43%	51%
50-54	43	10,395	0.004137	0.5826%	0.4505%	60.6	46.8	71%	92%
55-59	51	8,810	0.005789	0.9105%	0.6619%	80.2	58.3	64%	87%
60-64	54	5,925	0.009114	1.2962%	1.0731%	76.8	63.6	70%	85%
65-69	68	3,991	0.017038	1.8920%	1.7737%	75.5	70.8	90%	96%
70-74	71	2,848	0.024930	2.6933%	2.8802%	76.7	82.0	93%	87%
75-79	69	1,833	0.037643	4.4030%	4.6288%	80.7	84.8	85%	81%
80-84	93	1,242	0.074879	7.4386%	7.3896%	92.4	91.8	101%	101%
85-89	78	671	0.116244	11.4983%	11.4519%	77.2	76.8	101%	102%
90-94	29	178	0.162921	18.5968%	17.6764%	33.1	31.5	88%	92%
95-99	6	14	0.428571	26.5253%	25.9598%	3.7	3.6	162%	165%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>584</b>	<b>47,561</b>				<b>698.9</b>	<b>645.6</b>	<b>84%</b>	<b>90%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**WOMEN**

**TABLE 1B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Rate		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	1	1,072	0.000933	0.1049%	0.1826%	1.1	2.0	89%	51%
45-49	10	4,039	0.002476	0.1758%	0.2207%	7.1	8.9	141%	112%
50-54	11	4,227	0.002602	0.3106%	0.2915%	13.1	12.3	84%	89%
55-59	13	2,501	0.005198	0.5682%	0.4740%	14.2	11.9	91%	110%
60-64	1	914	0.001094	0.9744%	0.7945%	8.9	7.3	11%	14%
65-69	7	453	0.015453	1.4161%	1.2925%	6.4	5.9	109%	120%
70-74	4	243	0.016461	2.0144%	2.0787%	4.9	5.1	82%	79%
75-79	6	228	0.026316	3.2536%	3.4115%	7.4	7.8	81%	77%
80-84	16	230	0.069565	5.2735%	5.4166%	12.1	12.5	132%	128%
85-89	15	161	0.093168	8.7178%	8.4893%	14.0	13.7	107%	110%
90-94	8	44	0.181818	14.4631%	13.1622%	6.4	5.8	126%	138%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	92	14,112				95.7	92.9	96%	99%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN AND WOMEN**

TABLE 1C GROUPED

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Rate		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
41-44	8	3,732	0.002144	0.2116%	0.2203%	7.9	8.2	101%	97%
45-49	25	13,033	0.001918	0.3248%	0.2926%	42.3	38.1	59%	66%
50-54	54	14,622	0.003693	0.5040%	0.4045%	73.7	59.2	73%	91%
55-59	64	11,311	0.005658	0.8348%	0.6204%	94.4	70.2	68%	91%
60-64	55	6,839	0.008042	1.2532%	1.0359%	85.7	70.8	64%	78%
65-69	75	4,444	0.016877	1.8434%	1.7246%	81.9	76.6	92%	98%
70-74	75	3,091	0.024264	2.6400%	2.8172%	81.6	87.1	92%	86%
75-79	75	2,061	0.036390	4.2759%	4.4941%	88.1	92.6	85%	81%
80-84	109	1,472	0.074049	7.1003%	7.0813%	104.5	104.2	104%	105%
85-89	93	832	0.111779	10.9602%	10.8786%	91.2	90.5	102%	103%
90-94	37	222	0.166667	17.7775%	16.7817%	39.5	37.3	94%	99%
95-99	6	14	0.428571	26.5253%	25.9598%	3.7	3.6	162%	165%
100+	0	0	N/A			0	0	0%	0%
Total	676	61,673				794.6	738.5	85%	92%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	4,116	61	47.7	128%	1.4820%	1.1601%
2005	4,653	64	51.1	125%	1.3755%	1.0980%
2006	5,133	64	54.7	117%	1.2468%	1.0663%
2007	5,604	63	58.6	107%	1.1242%	1.0462%
2008	6,158	55	62.4	88%	0.8931%	1.0128%
2009	6,604	83	67.3	123%	1.2568%	1.0192%
2010	6,745	63	70.4	89%	0.9340%	1.0439%
2011	7,088	79	75.1	105%	1.1146%	1.0601%
2012	7,642	59	81.0	73%	0.7720%	1.0605%
2013	8,045	86	87.4	98%	1.0690%	1.0863%
Total	61,788	677	655.9	103%	1.0957%	1.0615%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN**

TABLE 2A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	42	0.000000	0.9034%	0.4277%	0.4	0.2	0%	0%
42	0	69	0.000000	0.9249%	0.5537%	0.6	0.4	0%	0%
43	0	110	0.000000	0.9470%	0.6796%	1.0	0.7	0%	0%
44	0	139	0.000000	0.9699%	0.8055%	1.3	1.1	0%	0%
45	3	167	0.017964	0.9934%	0.9315%	1.7	1.6	181%	193%
46	0	182	0.000000	1.0176%	1.0574%	1.9	1.9	0%	0%
47	0	204	0.000000	1.0426%	1.1833%	2.1	2.4	0%	0%
48	1	219	0.004566	1.0683%	1.2873%	2.3	2.8	43%	35%
49	2	224	0.008929	1.0947%	1.3912%	2.5	3.1	82%	64%
50	2	228	0.008772	1.1220%	1.4952%	2.6	3.4	78%	59%
51	0	205	0.000000	1.1500%	1.5992%	2.4	3.3	0%	0%
52	2	197	0.010152	1.1789%	1.7031%	2.3	3.4	86%	60%
53	3	202	0.014851	1.1927%	1.7916%	2.4	3.6	125%	83%
54	1	202	0.004950	1.2067%	1.8801%	2.4	3.8	41%	26%
55	2	184	0.010870	1.2083%	1.9686%	2.2	3.6	90%	55%
56	2	177	0.011299	1.2818%	2.0571%	2.3	3.6	88%	55%
57	1	163	0.006135	1.3589%	2.1456%	2.2	3.5	45%	29%
58	2	152	0.013158	1.4399%	2.2383%	2.2	3.4	91%	59%
59	1	161	0.006211	1.5127%	2.3309%	2.4	3.8	41%	27%
60	1	169	0.005917	1.5885%	2.4235%	2.7	4.1	37%	24%
61	4	181	0.022099	1.7021%	2.5162%	3.1	4.6	130%	88%
62	3	185	0.016216	1.8089%	2.6088%	3.3	4.8	90%	62%
63	1	185	0.005405	1.9378%	2.7383%	3.6	5.1	28%	20%
64	0	162	0.000000	2.0593%	2.8677%	3.3	4.6	0%	0%
65	1	146	0.006849	2.1897%	2.9972%	3.2	4.4	31%	23%
66	1	124	0.008065	2.3493%	3.1266%	2.9	3.9	34%	26%
67	2	99	0.020202	2.5032%	3.2560%	2.5	3.2	81%	62%
68	4	99	0.040404	2.6489%	3.4680%	2.6	3.4	153%	117%
69	3	91	0.032967	2.8297%	3.6800%	2.6	3.3	117%	90%
70	2	79	0.025316	3.0026%	3.8920%	2.4	3.1	84%	65%
71	2	77	0.025974	3.2527%	4.1040%	2.5	3.2	80%	63%
72	1	67	0.014925	3.5278%	4.3160%	2.4	2.9	42%	35%
73	1	57	0.017544	3.8307%	4.6694%	2.2	2.7	46%	38%
74	1	45	0.022222	4.1637%	5.0227%	1.9	2.3	53%	44%
75	1	33	0.030303	4.5661%	5.3761%	1.5	1.8	66%	56%
76	2	30	0.066667	4.9925%	5.7294%	1.5	1.7	134%	116%
77	0	22	0.000000	5.5053%	6.0828%	1.2	1.3	0%	0%
78	1	22	0.045455	6.0715%	6.6494%	1.3	1.5	75%	68%
79	2	23	0.086957	6.6961%	7.2161%	1.5	1.7	130%	121%
80	4	22	0.181818	7.3842%	7.7827%	1.6	1.7	246%	234%
81	1	18	0.055556	8.1856%	8.3493%	1.5	1.5	68%	67%
82	2	15	0.133333	8.9993%	8.9159%	1.3	1.3	148%	150%
83	1	13	0.076923	9.7467%	9.7808%	1.3	1.3	79%	79%
84	1	13	0.076923	10.5790%	10.6456%	1.4	1.4	73%	72%
85	2	16	0.125000	11.3324%	11.5105%	1.8	1.8	110%	109%
86	2	14	0.142857	12.5123%	12.3753%	1.8	1.7	114%	115%
87	1	10	0.100000	13.8029%	13.2402%	1.4	1.3	72%	76%
88	1	5	0.200000	15.1136%	14.5013%	0.8	0.7	132%	138%
89	0	2	0.000000	16.3127%	15.7625%	0.3	0.3	0%	0%
90	0	0	N/A	17.6532%	17.0236%	0	0	0%	0%
91	0	1	0.000000	19.7349%	18.2847%	0.2	0.2	0%	0%
92	1	1	1.000000	21.9020%	19.5459%	0.2	0.2	457%	512%
93	0	1	0.000000	23.8022%	21.3144%	0.2	0.2	0%	0%
94	1	1	1.000000	25.6258%	23.0829%	0.3	0.2	390%	433%
95	0	0	N/A	27.6230%	24.8515%	0	0	0%	0%
96	0	0	N/A	29.0312%	26.6200%	0	0	0%	0%
97	0	0	N/A	30.3527%	28.3885%	0	0	0%	0%
98	0	0	N/A	31.9308%	30.7886%	0	0	0%	0%
99	0	0	N/A	33.0643%	33.1888%	0	0	0%	0%
Subtotal	72	5,255				99.5	127.1	72%	57%
100 or more	0	0	N/A	37.1685%	40.3891%	0	0	0%	0%
Total	72	5,255				99.5	127.1	72%	57%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

TABLE 2B				4-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	18	0.000000	0.9484%	0.9226%	0.2	0.2	0%	0%
42	0	27	0.000000	0.9579%	1.0619%	0.3	0.3	0%	0%
43	0	33	0.000000	0.9676%	1.2013%	0.3	0.4	0%	0%
44	0	45	0.000000	0.9776%	1.3407%	0.4	0.6	0%	0%
45	0	59	0.000000	1.0009%	1.4800%	0.6	0.9	0%	0%
46	0	66	0.000000	1.0250%	1.6194%	0.7	1.1	0%	0%
47	1	73	0.013699	1.0498%	1.7588%	0.8	1.3	130%	78%
48	1	82	0.012195	1.0612%	1.8672%	0.9	1.5	115%	65%
49	1	82	0.012195	1.0728%	1.9756%	0.9	1.6	114%	62%
50	0	67	0.000000	1.0705%	2.0840%	0.7	1.4	0%	0%
51	0	76	0.000000	1.0683%	2.1925%	0.8	1.7	0%	0%
52	1	61	0.016393	1.0522%	2.3009%	0.6	1.4	156%	71%
53	1	67	0.014925	1.0366%	2.3794%	0.7	1.6	144%	63%
54	0	74	0.000000	1.0213%	2.4580%	0.8	1.8	0%	0%
55	1	68	0.014706	1.0064%	2.5365%	0.7	1.7	146%	58%
56	1	74	0.013514	0.9918%	2.6151%	0.7	1.9	136%	52%
57	0	65	0.000000	0.9905%	2.6936%	0.6	1.8	0%	0%
58	0	63	0.000000	1.0050%	2.7573%	0.6	1.7	0%	0%
59	1	53	0.018868	1.0804%	2.8209%	0.6	1.5	175%	67%
60	2	41	0.048780	1.1606%	2.8846%	0.5	1.2	420%	169%
61	1	27	0.037037	1.2461%	2.9483%	0.3	0.8	297%	126%
62	0	18	0.000000	1.3092%	3.0119%	0.2	0.5	0%	0%
63	1	18	0.055556	1.3747%	3.0896%	0.2	0.6	404%	180%
64	0	13	0.000000	1.4927%	3.1674%	0.2	0.4	0%	0%
65	1	17	0.058824	1.5863%	3.2451%	0.3	0.6	371%	181%
66	0	14	0.000000	1.7219%	3.3228%	0.2	0.5	0%	0%
67	0	13	0.000000	1.8298%	3.4005%	0.2	0.4	0%	0%
68	0	13	0.000000	1.9457%	3.5351%	0.3	0.5	0%	0%
69	0	12	0.000000	2.1152%	3.6698%	0.3	0.4	0%	0%
70	0	11	0.000000	2.2538%	3.8044%	0.2	0.4	0%	0%
71	0	7	0.000000	2.3848%	3.9390%	0.2	0.3	0%	0%
72	0	6	0.000000	2.5475%	4.0737%	0.2	0.2	0%	0%
73	0	4	0.000000	2.7029%	4.3220%	0.1	0.2	0%	0%
74	0	4	0.000000	2.9280%	4.5704%	0.1	0.2	0%	0%
75	0	7	0.000000	3.2175%	4.8187%	0.2	0.3	0%	0%
76	0	6	0.000000	3.4938%	5.0671%	0.2	0.3	0%	0%
77	0	6	0.000000	3.7481%	5.3154%	0.2	0.3	0%	0%
78	0	6	0.000000	4.1649%	5.7482%	0.2	0.3	0%	0%
79	0	3	0.000000	4.5538%	6.1810%	0.1	0.2	0%	0%
80	0	3	0.000000	5.0882%	6.6138%	0.2	0.2	0%	0%
81	0	4	0.000000	5.6858%	7.0467%	0.2	0.3	0%	0%
82	0	4	0.000000	6.3538%	7.4795%	0.3	0.3	0%	0%
83	1	4	0.250000	7.0994%	8.1814%	0.3	0.3	352%	306%
84	0	2	0.000000	7.9738%	8.8833%	0.2	0.2	0%	0%
85	0	1	0.000000	8.7667%	9.5853%	0.1	0.1	0%	0%
86	0	2	0.000000	9.3715%	10.2872%	0.2	0.2	0%	0%
87	0	2	0.000000	10.1721%	10.9891%	0.2	0.2	0%	0%
88	0	2	0.000000	10.8966%	12.0588%	0.2	0.2	0%	0%
89	0	3	0.000000	11.8752%	13.1284%	0.4	0.4	0%	0%
90	0	2	0.000000	13.2726%	14.1981%	0.3	0.3	0%	0%
91	0	1	0.000000	14.7242%	15.2677%	0.1	0.2	0%	0%
92	0	2	0.000000	15.8924%	16.3374%	0.3	0.3	0%	0%
93	0	1	0.000000	17.1987%	17.8873%	0.2	0.2	0%	0%
94	0	1	0.000000	19.2269%	19.4373%	0.2	0.2	0%	0%
95	0	1	0.000000	21.6184%	20.9872%	0.2	0.2	0%	0%
96	0	0	N/A	23.3742%	22.5371%	0	0	0%	0%
97	0	0	N/A	23.4718%	24.0870%	0	0	0%	0%
98	0	0	N/A	23.4917%	26.2437%	0	0	0%	0%
99	0	0	N/A	24.8039%	28.4003%	0	0	0%	0%
Subtotal	14	1,434				19.9	36.8	70%	38%
100 or more	0	0	N/A	25.4498%	34.8703%	0	0	0%	0%
Total	14	1,434				19.9	36.8	70%	38%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN AND WOMEN**

**TABLE 2C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	60	0.000000	0.9169%	0.5762%	0.6	0.3	0%	0%
42	0	96	0.000000	0.9342%	0.6966%	0.9	0.7	0%	0%
43	0	143	0.000000	0.9518%	0.8000%	1.4	1.1	0%	0%
44	0	184	0.000000	0.9718%	0.9364%	1.8	1.7	0%	0%
45	3	226	0.013274	0.9954%	1.0747%	2.2	2.4	133%	124%
46	0	248	0.000000	1.0196%	1.2070%	2.5	3.0	0%	0%
47	1	277	0.003610	1.0445%	1.3350%	2.9	3.7	35%	27%
48	2	301	0.006645	1.0664%	1.4453%	3.2	4.4	62%	46%
49	3	306	0.009804	1.0888%	1.5478%	3.3	4.7	90%	63%
50	2	295	0.006780	1.1103%	1.6289%	3.3	4.8	61%	42%
51	0	281	0.000000	1.1279%	1.7596%	3.2	4.9	0%	0%
52	3	258	0.011628	1.1489%	1.8445%	3.0	4.8	101%	63%
53	4	269	0.014870	1.1538%	1.9380%	3.1	5.2	129%	77%
54	1	276	0.003623	1.1570%	2.0351%	3.2	5.6	31%	18%
55	3	252	0.011905	1.1538%	2.1219%	2.9	5.3	103%	56%
56	3	251	0.011952	1.1963%	2.2216%	3.0	5.6	100%	54%
57	1	228	0.004386	1.2539%	2.3019%	2.9	5.2	35%	19%
58	2	215	0.009302	1.3125%	2.3903%	2.8	5.1	71%	39%
59	2	214	0.009346	1.4056%	2.4523%	3.0	5.2	66%	38%
60	3	210	0.014286	1.5050%	2.5136%	3.2	5.3	95%	57%
61	5	208	0.024038	1.6429%	2.5723%	3.4	5.4	146%	93%
62	3	203	0.014778	1.7646%	2.6446%	3.6	5.4	84%	56%
63	2	203	0.009852	1.8879%	2.7694%	3.8	5.6	52%	36%
64	0	175	0.000000	2.0172%	2.8900%	3.5	5.1	0%	0%
65	2	163	0.012270	2.1268%	3.0230%	3.5	4.9	58%	41%
66	1	138	0.007246	2.2857%	3.1465%	3.2	4.3	32%	23%
67	2	112	0.017857	2.4250%	3.2728%	2.7	3.7	74%	55%
68	4	112	0.035714	2.5673%	3.4758%	2.9	3.9	139%	103%
69	3	103	0.029126	2.7465%	3.6788%	2.8	3.8	106%	79%
70	2	90	0.022222	2.9111%	3.8813%	2.6	3.5	76%	57%
71	2	84	0.023810	3.1804%	4.0903%	2.7	3.4	75%	58%
72	1	73	0.013699	3.4472%	4.2961%	2.5	3.1	40%	32%
73	1	61	0.016393	3.7567%	4.6466%	2.3	2.8	44%	35%
74	1	49	0.020408	4.0628%	4.9858%	2.0	2.4	50%	41%
75	1	40	0.025000	4.3301%	5.2785%	1.7	2.1	58%	47%
76	2	36	0.055556	4.7427%	5.6191%	1.7	2.0	117%	99%
77	0	28	0.000000	5.1288%	5.9184%	1.4	1.7	0%	0%
78	1	28	0.035714	5.6629%	6.4563%	1.6	1.8	63%	55%
79	2	26	0.076923	6.4489%	7.0966%	1.7	1.8	119%	108%
80	4	25	0.160000	7.1087%	7.6424%	1.8	1.9	225%	209%
81	1	22	0.045455	7.7311%	8.1125%	1.7	1.8	59%	56%
82	2	19	0.105263	8.4424%	8.6135%	1.6	1.6	125%	122%
83	2	17	0.117647	9.1238%	9.4045%	1.6	1.6	129%	125%
84	1	15	0.066667	10.2316%	10.4107%	1.5	1.6	65%	64%
85	2	17	0.117647	11.1815%	11.3972%	1.9	1.9	105%	103%
86	2	16	0.125000	12.1197%	12.1143%	1.9	1.9	103%	103%
87	1	12	0.083333	13.1978%	12.8650%	1.6	1.5	63%	65%
88	1	7	0.142857	13.9087%	13.8035%	1.0	1.0	103%	103%
89	0	5	0.000000	13.6502%	14.1820%	0.7	0.7	0%	0%
90	0	2	0.000000	13.2726%	14.1981%	0.3	0.3	0%	0%
91	0	2	0.000000	17.2296%	16.7762%	0.3	0.3	0%	0%
92	1	3	0.333333	17.8956%	17.4069%	0.5	0.5	186%	191%
93	0	2	0.000000	20.5005%	19.6009%	0.4	0.4	0%	0%
94	1	2	0.500000	22.4264%	21.2601%	0.4	0.4	223%	235%
95	0	1	0.000000	21.6184%	20.9872%	0.2	0.2	0%	0%
96	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
97	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	86	6,689				119.4	163.8	72%	52%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	86	6,689				119.4	163.8	72%	52%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	360	0.000000	0.9465%	0.6747%	3.4	2.4	0%	0%
45-49	6	996	0.006024	1.0472%	1.1877%	10.4	11.8	58%	51%
50-54	8	1,034	0.007737	1.1688%	1.6885%	12.1	17.5	66%	46%
55-59	8	837	0.009558	1.3538%	2.1405%	11.3	17.9	71%	45%
60-64	9	882	0.010204	1.8178%	2.6290%	16.0	23.2	56%	39%
65-69	11	559	0.019678	2.4661%	3.2663%	13.8	18.3	80%	60%
70-74	7	325	0.021538	3.4761%	4.3225%	11.3	14.0	62%	50%
75-79	6	130	0.046154	5.4550%	6.1183%	7.1	8.0	85%	75%
80-84	9	81	0.111111	8.7533%	8.8986%	7.1	7.2	127%	125%
85-89	6	47	0.127660	12.8237%	12.6352%	6.0	5.9	100%	101%
90-94	2	4	0.500000	22.7662%	20.5570%	0.9	0.8	220%	243%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	72	5,255				99.5	127.1	72%	57%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	123	0.000000	0.9663%	1.1809%	1.2	1.5	0%	0%
45-49	3	362	0.008287	1.0451%	1.7616%	3.8	6.4	79%	47%
50-54	2	345	0.005797	1.0496%	2.2838%	3.6	7.9	55%	25%
55-59	3	323	0.009288	1.0117%	2.6758%	3.3	8.6	92%	35%
60-64	4	117	0.034188	1.2730%	2.9818%	1.5	3.5	269%	115%
65-69	1	69	0.014493	1.8194%	3.4186%	1.3	2.4	80%	42%
70-74	0	32	0.000000	2.4779%	4.0448%	0.8	1.3	0%	0%
75-79	0	28	0.000000	3.7366%	5.3235%	1.0	1.5	0%	0%
80-84	1	17	0.058824	6.3393%	7.5552%	1.1	1.3	93%	78%
85-89	0	10	0.000000	10.5273%	11.5641%	1.1	1.2	0%	0%
90-94	0	7	0.000000	15.6400%	16.2376%	1.1	1.1	0%	0%
95-99	0	1	0.000000	21.6184%	20.9872%	0.2	0.2	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	14	1,434				19.9	36.8	70%	38%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN AND WOMEN**

TABLE 2C GROUPED

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	483	0.000000	0.9516%	0.8036%	4.6	3.9	0%	0%
45-49	9	1,358	0.006627	1.0466%	1.3407%	14.2	18.2	63%	49%
50-54	10	1,379	0.007252	1.1390%	1.8375%	15.7	25.3	64%	39%
55-59	11	1,160	0.009483	1.2585%	2.2895%	14.6	26.6	75%	41%
60-64	13	999	0.013013	1.7540%	2.6703%	17.5	26.7	74%	49%
65-69	12	628	0.019108	2.3951%	3.2830%	15.0	20.6	80%	58%
70-74	7	357	0.019608	3.3867%	4.2976%	12.1	15.3	58%	46%
75-79	6	158	0.037975	5.1505%	5.9774%	8.1	9.4	74%	64%
80-84	10	98	0.102041	8.3345%	8.6656%	8.2	8.5	122%	118%
85-89	6	57	0.105263	12.4208%	12.4473%	7.1	7.1	85%	85%
90-94	2	11	0.181818	18.2313%	17.8083%	2.0	2.0	100%	102%
95-99	0	1	0.000000	21.6184%	20.9872%	0.2	0.2	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	86	6,689				119.4	163.8	72%	52%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	1	93	0.010753	0.9924%	0.9910%	0.9	0.9	108%	109%
42	2	119	0.016807	1.0023%	1.1369%	1.2	1.4	168%	148%
43	3	129	0.023256	1.0125%	1.2792%	1.3	1.7	230%	182%
44	1	141	0.007092	1.0229%	1.4176%	1.4	2.0	69%	50%
45	2	156	0.012821	1.0506%	1.5526%	1.6	2.4	122%	83%
46	0	157	0.000000	1.0791%	1.6837%	1.7	2.6	0%	0%
47	3	173	0.017341	1.1086%	1.8115%	1.9	3.1	156%	96%
48	3	172	0.017442	1.1206%	1.9058%	1.9	3.3	156%	92%
49	2	174	0.011494	1.1329%	2.0007%	2.0	3.5	101%	57%
50	1	168	0.005952	1.1270%	2.0987%	1.9	3.5	53%	28%
51	3	172	0.017442	1.1212%	2.2008%	1.9	3.8	156%	79%
52	1	160	0.006250	1.0977%	2.3092%	1.8	3.7	57%	27%
53	3	151	0.019868	1.0748%	2.3940%	1.6	3.6	185%	83%
54	1	148	0.006757	1.0525%	2.4855%	1.6	3.7	64%	27%
55	1	126	0.007937	1.0309%	2.5832%	1.3	3.3	77%	31%
56	2	119	0.016807	1.0099%	2.6856%	1.2	3.2	166%	63%
57	0	100	0.000000	1.0055%	2.7913%	1.0	2.8	0%	0%
58	0	90	0.000000	1.0202%	2.8828%	0.9	2.6	0%	0%
59	1	78	0.012821	1.0967%	2.9744%	0.9	2.3	117%	43%
60	3	62	0.048387	1.1782%	3.0636%	0.7	1.9	411%	158%
61	1	50	0.020000	1.2650%	3.1501%	0.6	1.6	158%	63%
62	0	40	0.000000	1.3290%	3.2323%	0.5	1.3	0%	0%
63	2	39	0.051282	1.3956%	3.3266%	0.5	1.3	367%	154%
64	1	32	0.031250	1.5153%	3.4169%	0.5	1.1	206%	91%
65	1	32	0.031250	1.6103%	3.5037%	0.5	1.1	194%	89%
66	0	29	0.000000	1.7480%	3.5883%	0.5	1.0	0%	0%
67	1	25	0.040000	1.8576%	3.6707%	0.5	0.9	215%	109%
68	0	22	0.000000	1.9752%	3.8133%	0.4	0.8	0%	0%
69	0	22	0.000000	2.1473%	3.9553%	0.5	0.9	0%	0%
70	1	21	0.047619	2.2879%	4.0962%	0.5	0.9	208%	116%
71	0	17	0.000000	2.4282%	4.2368%	0.4	0.7	0%	0%
72	1	15	0.066667	2.5939%	4.3767%	0.4	0.7	257%	152%
73	0	11	0.000000	2.7605%	4.6388%	0.3	0.5	0%	0%
74	0	11	0.000000	2.9904%	4.8993%	0.3	0.5	0%	0%
75	0	13	0.000000	3.2960%	5.1602%	0.4	0.7	0%	0%
76	1	14	0.071429	3.5790%	5.4218%	0.5	0.8	200%	132%
77	0	12	0.000000	3.8279%	5.6846%	0.5	0.7	0%	0%
78	0	12	0.000000	4.2536%	6.1456%	0.5	0.7	0%	0%
79	0	9	0.000000	4.6508%	6.6103%	0.4	0.6	0%	0%
80	0	11	0.000000	5.1965%	7.0761%	0.6	0.8	0%	0%
81	2	11	0.181818	5.8069%	7.5453%	0.6	0.8	313%	241%
82	0	9	0.000000	6.4891%	8.0153%	0.6	0.7	0%	0%
83	2	10	0.200000	7.2506%	8.7774%	0.7	0.9	276%	228%
84	0	8	0.000000	8.1436%	9.5393%	0.7	0.8	0%	0%
85	1	8	0.125000	8.9264%	10.3015%	0.7	0.8	140%	121%
86	0	7	0.000000	9.5135%	11.0604%	0.7	0.8	0%	0%
87	0	6	0.000000	10.2952%	11.8114%	0.6	0.7	0%	0%
88	0	6	0.000000	11.0284%	12.9505%	0.7	0.8	0%	0%
89	2	6	0.333333	11.9827%	14.0834%	0.7	0.8	278%	237%
90	0	4	0.000000	13.3928%	15.2059%	0.5	0.6	0%	0%
91	0	3	0.000000	14.8575%	16.3164%	0.4	0.5	0%	0%
92	0	3	0.000000	16.0363%	17.4115%	0.5	0.5	0%	0%
93	1	2	0.500000	17.3023%	19.0011%	0.3	0.4	289%	263%
94	0	1	0.000000	19.3428%	20.5761%	0.2	0.2	0%	0%
95	0	1	0.000000	21.7486%	22.1400%	0.2	0.2	0%	0%
96	0	0	N/A	23.5150%	23.7098%	0	0	0%	0%
97	0	0	N/A	23.5424%	25.2658%	0	0	0%	0%
98	0	0	N/A	23.5623%	27.4526%	0	0	0%	0%
99	0	0	N/A	24.8785%	29.6244%	0	0	0%	0%
Subtotal	50	3,210				46.4	82.3	108%	61%
100 or more	0	0	N/A	25.4498%	36.3732%	0	0	0%	0%
Total	50	3,210				46.4	82.3	108%	61%





**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	2	1,362	0.001468	0.9714%	0.6978%	13.2	9.5	15%	21%
45-49	14	2,350	0.005957	1.0928%	1.2623%	25.7	29.7	55%	47%
50-54	22	2,260	0.009735	1.2400%	1.7529%	28.0	39.6	79%	56%
55-59	27	2,180	0.012385	1.4290%	2.1711%	31.2	47.3	87%	57%
60-64	26	1,820	0.014286	1.8868%	2.7200%	34.3	49.5	76%	53%
65-69	23	1,126	0.020426	2.5672%	3.4886%	28.9	39.3	80%	59%
70-74	17	588	0.028912	3.6375%	4.6804%	21.4	27.5	79%	62%
75-79	12	298	0.040268	5.7105%	6.6753%	17.0	19.9	71%	60%
80-84	19	181	0.104972	8.9067%	9.5346%	16.1	17.3	118%	110%
85-89	7	58	0.120690	13.2182%	13.6857%	7.7	7.9	91%	88%
90-94	2	8	0.250000	21.2196%	20.3864%	1.7	1.6	118%	123%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	171	12,231				225.2	289.1	76%	59%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	7	482	0.014523	1.0091%	1.2290%	4.9	5.9	144%	118%
45-49	10	832	0.012019	1.0997%	1.7979%	9.1	15.0	109%	67%
50-54	9	799	0.011264	1.0962%	2.2903%	8.8	18.3	103%	49%
55-59	4	513	0.007797	1.0292%	2.7596%	5.3	14.2	76%	28%
60-64	7	223	0.031390	1.3111%	3.2100%	2.9	7.2	239%	98%
65-69	2	130	0.015385	1.8412%	3.6835%	2.4	4.8	84%	42%
70-74	2	75	0.026667	2.5532%	4.3815%	1.9	3.3	104%	61%
75-79	1	60	0.016667	3.8632%	5.7407%	2.3	3.4	43%	29%
80-84	4	49	0.081633	6.4713%	8.1033%	3.2	4.0	126%	101%
85-89	3	33	0.090909	10.2377%	11.9062%	3.4	3.9	89%	76%
90-94	1	13	0.076923	15.4000%	16.9681%	2.0	2.2	50%	45%
95-99	0	1	0.000000	21.7486%	22.1400%	0.2	0.2	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>50</b>	<b>3,210</b>				<b>46.4</b>	<b>82.3</b>	<b>108%</b>	<b>61%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN AND WOMEN**

TABLE 2C GROUPED

Age	Actual Deaths	Total Exposed	Actual Rate	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013		Actual/Expected	
				Expected	Proposed	Expected Deaths		Expected	Proposed
				(7) / (3)	(8) / (3)	Expected	Proposed	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	9	1,844	0.004881	0.9813%	0.8367%	18.1	15.4	50%	58%
45-49	24	3,182	0.007542	1.0946%	1.4023%	34.8	44.6	69%	54%
50-54	31	3,059	0.010134	1.2025%	1.8932%	36.8	57.9	84%	54%
55-59	31	2,693	0.011511	1.3529%	2.2832%	36.4	61.5	85%	50%
60-64	33	2,043	0.016153	1.8239%	2.7735%	37.3	56.7	89%	58%
65-69	25	1,256	0.019904	2.4921%	3.5087%	31.3	44.1	80%	57%
70-74	19	663	0.028658	3.5148%	4.6466%	23.3	30.8	82%	62%
75-79	13	358	0.036313	5.4009%	6.5187%	19.3	23.3	67%	56%
80-84	23	230	0.100000	8.3878%	9.2297%	19.3	21.2	119%	108%
85-89	10	91	0.109890	12.1373%	13.0404%	11.0	11.9	91%	84%
90-94	3	21	0.142857	17.6170%	18.2703%	3.7	3.8	81%	78%
95-99	0	1	0.000000	21.7486%	22.1400%	0.2	0.2	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	221	15,441				271.6	371.5	81%	59%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	1,502	31	17.2	180%	2.0639%	1.1466%
2005	1,547	15	18.1	83%	0.9696%	1.1726%
2006	1,576	23	19.2	120%	1.4594%	1.2190%
2007	1,609	19	20.6	92%	1.1809%	1.2809%
2008	1,637	24	21.7	110%	1.4661%	1.3283%
2009	1,664	23	22.9	100%	1.3822%	1.3771%
2010	1,690	18	23.9	75%	1.0651%	1.4116%
2011	1,690	20	24.5	82%	1.1834%	1.4506%
2012	1,700	19	25.2	75%	1.1176%	1.4848%
2013	1,754	29	27.0	107%	1.6534%	1.5399%
Total	16,369	221	220.5	100%	1.3501%	1.3469%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	18	318	0.0566	5.00%	5.00%	15.9	15.9	113%	113%
1	52	1,067	0.0487	4.00%	4.00%	42.7	42.7	122%	122%
2	42	1,378	0.0305	3.00%	3.00%	41.3	41.3	102%	102%
3	16	1,146	0.0140	2.00%	2.00%	22.9	22.9	70%	70%
4	13	911	0.0143	1.50%	1.50%	13.7	13.7	95%	95%
5	5	793	0.0063	1.00%	1.00%	7.9	7.9	63%	63%
6	9	654	0.0138	0.90%	0.90%	5.9	5.9	153%	153%
7	6	562	0.0107	0.80%	0.80%	4.5	4.5	133%	133%
8	1	620	0.0016	0.70%	0.70%	4.3	4.3	23%	23%
9	2	541	0.0037	0.60%	0.60%	3.2	3.2	62%	62%
10	5	681	0.0073	0.50%	0.50%	3.4	3.4	147%	147%
11	5	757	0.0066	0.50%	0.50%	3.8	3.8	132%	132%
12	4	704	0.0057	0.50%	0.50%	3.5	3.5	114%	114%
13	2	639	0.0031	0.50%	0.50%	3.2	3.2	63%	63%
14	3	341	0.0088	0.50%	0.50%	1.7	1.7	176%	176%
15	2	217	0.0092	0.50%	0.50%	1.1	1.1	184%	184%
16	2	372	0.0054	0.50%	0.50%	1.9	1.9	108%	108%
17	7	898	0.0078	0.50%	0.50%	4.5	4.5	156%	156%
18	21	1,297	0.0162	0.50%	0.50%	6.5	6.5	324%	324%
19	0	263	0.0000	0.50%	0.50%	1.3	1.3	0%	0%
20	5	214	0.0234	0.50%	0.50%	1.1	1.1	467%	467%
21	0	185	0.0000	0.50%	0.50%	0.9	0.9	0%	0%
22	1	178	0.0056	0.50%	0.50%	0.9	0.9	112%	112%
23	2	145	0.0138	0.50%	0.50%	0.7	0.7	276%	276%
24	0	12	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
25	0	0	N/A	0.50%	0.50%	0	0	0%	0%
26	0	0	N/A	0.50%	0.50%	0	0	0%	0%
27	0	0	N/A	0.50%	0.50%	0	0	0%	0%
28	0	0	N/A	0.50%	0.50%	0	0	0%	0%
29	0	0	N/A	0.50%	0.50%	0	0	0%	0%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Subtotal	223	14,893	0.0150			196.9	196.9	113%	113%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	223	14,893	0.0150			196.9	196.9	113%	113%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 3B**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	8	225	0.0356	5.00%	5.00%	11.3	11.3	71%	71%
1	28	781	0.0359	4.00%	4.00%	31.2	31.2	90%	90%
2	33	1,110	0.0297	3.00%	3.00%	33.3	33.3	99%	99%
3	13	1,027	0.0127	2.00%	2.00%	20.5	20.5	63%	63%
4	9	858	0.0105	1.50%	1.50%	12.9	12.9	70%	70%
5	4	783	0.0051	1.00%	1.00%	7.8	7.8	51%	51%
6	4	670	0.0060	0.90%	0.90%	6.0	6.0	66%	66%
7	8	671	0.0119	0.80%	0.80%	5.4	5.4	149%	149%
8	10	757	0.0132	0.70%	0.70%	5.3	5.3	189%	189%
9	5	697	0.0072	0.60%	0.60%	4.2	4.2	120%	120%
10	5	719	0.0070	0.50%	0.50%	3.6	3.6	139%	139%
11	4	725	0.0055	0.50%	0.50%	3.6	3.6	110%	110%
12	2	640	0.0031	0.50%	0.50%	3.2	3.2	63%	63%
13	3	567	0.0053	0.50%	0.50%	2.8	2.8	106%	106%
14	1	354	0.0028	0.50%	0.50%	1.8	1.8	56%	56%
15	0	218	0.0000	0.50%	0.50%	1.1	1.1	0%	0%
16	2	297	0.0067	0.50%	0.50%	1.5	1.5	135%	135%
17	5	694	0.0072	0.50%	0.50%	3.5	3.5	144%	144%
18	13	962	0.0135	0.50%	0.50%	4.8	4.8	270%	270%
19	2	175	0.0114	0.50%	0.50%	0.9	0.9	229%	229%
20	3	119	0.0252	0.50%	0.50%	0.6	0.6	504%	504%
21	2	94	0.0213	0.50%	0.50%	0.5	0.5	426%	426%
22	0	92	0.0000	0.50%	0.50%	0.5	0.5	0%	0%
23	0	74	0.0000	0.50%	0.50%	0.4	0.4	0%	0%
24	0	2	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
25	0	0	N/A	0.50%	0.50%	0	0	0%	0%
26	0	0	N/A	0.50%	0.50%	0	0	0%	0%
27	0	0	N/A	0.50%	0.50%	0	0	0%	0%
28	0	0	N/A	0.50%	0.50%	0	0	0%	0%
29	0	0	N/A	0.50%	0.50%	0	0	0%	0%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	164	13,311	0.0123			166.6	166.6	98%	98%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	164	13,311	0.0123			166.6	166.6	98%	98%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 3C

4-YEAR PERIOD ENDING 6/30/2011

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	26	543	0.0479	5.00%	5.00%	27.2	27.2	96%	96%
1	80	1,848	0.0433	4.00%	4.00%	73.9	73.9	108%	108%
2	75	2,488	0.0301	3.00%	3.00%	74.6	74.6	100%	100%
3	29	2,173	0.0133	2.00%	2.00%	43.5	43.5	67%	67%
4	22	1,769	0.0124	1.50%	1.50%	26.5	26.5	83%	83%
5	9	1,576	0.0057	1.00%	1.00%	15.8	15.8	57%	57%
6	13	1,324	0.0098	0.90%	0.90%	11.9	11.9	109%	109%
7	14	1,233	0.0114	0.80%	0.80%	9.9	9.9	142%	142%
8	11	1,377	0.0080	0.70%	0.70%	9.6	9.6	114%	114%
9	7	1,238	0.0057	0.60%	0.60%	7.4	7.4	94%	94%
10	10	1,400	0.0071	0.50%	0.50%	7.0	7.0	143%	143%
11	9	1,482	0.0061	0.50%	0.50%	7.4	7.4	121%	121%
12	6	1,344	0.0045	0.50%	0.50%	6.7	6.7	89%	89%
13	5	1,206	0.0041	0.50%	0.50%	6.0	6.0	83%	83%
14	4	695	0.0058	0.50%	0.50%	3.5	3.5	115%	115%
15	2	435	0.0046	0.50%	0.50%	2.2	2.2	92%	92%
16	4	669	0.0060	0.50%	0.50%	3.3	3.3	120%	120%
17	12	1,592	0.0075	0.50%	0.50%	8.0	8.0	151%	151%
18	34	2,259	0.0151	0.50%	0.50%	11.3	11.3	301%	301%
19	2	438	0.0046	0.50%	0.50%	2.2	2.2	91%	91%
20	8	333	0.0240	0.50%	0.50%	1.7	1.7	480%	480%
21	2	279	0.0072	0.50%	0.50%	1.4	1.4	143%	143%
22	1	270	0.0037	0.50%	0.50%	1.4	1.4	74%	74%
23	2	219	0.0091	0.50%	0.50%	1.1	1.1	183%	183%
24	0	14	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
25	0	0	N/A	0.50%	0.50%	0	0	0%	0%
26	0	0	N/A	0.50%	0.50%	0	0	0%	0%
27	0	0	N/A	0.50%	0.50%	0	0	0%	0%
28	0	0	N/A	0.50%	0.50%	0	0	0%	0%
29	0	0	N/A	0.50%	0.50%	0	0	0%	0%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	387	28,204	0.0137			363.5	363.5	106%	106%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	387	28,204	0.0137			363.5	363.5	106%	106%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	53	848	0.0625	5.00%	5.00%	42.4	42.4	125%	125%
1	94	1,820	0.0516	4.00%	4.00%	72.8	72.8	129%	129%
2	61	2,078	0.0294	3.00%	3.00%	62.3	62.3	98%	98%
3	26	1,772	0.0147	2.00%	2.00%	35.4	35.4	73%	73%
4	31	1,596	0.0194	1.50%	1.50%	23.9	23.9	129%	129%
5	18	1,402	0.0128	1.00%	1.00%	14.0	14.0	128%	128%
6	21	1,400	0.0150	0.90%	0.90%	12.6	12.6	167%	167%
7	19	1,392	0.0136	0.80%	0.80%	11.1	11.1	171%	171%
8	8	1,393	0.0057	0.70%	0.70%	9.8	9.8	82%	82%
9	9	1,235	0.0073	0.60%	0.60%	7.4	7.4	121%	121%
10	9	1,053	0.0085	0.50%	0.50%	5.3	5.3	171%	171%
11	8	992	0.0081	0.50%	0.50%	5.0	5.0	161%	161%
12	7	1,103	0.0063	0.50%	0.50%	5.5	5.5	127%	127%
13	12	1,647	0.0073	0.50%	0.50%	8.2	8.2	146%	146%
14	14	1,814	0.0077	0.50%	0.50%	9.1	9.1	154%	154%
15	12	2,034	0.0059	0.50%	0.50%	10.2	10.2	118%	118%
16	15	2,654	0.0057	0.50%	0.50%	13.3	13.3	113%	113%
17	10	2,901	0.0034	0.50%	0.50%	14.5	14.5	69%	69%
18	30	3,209	0.0093	0.50%	0.50%	16.0	16.0	187%	187%
19	3	586	0.0051	0.50%	0.50%	2.9	2.9	102%	102%
20	5	349	0.0143	0.50%	0.50%	1.7	1.7	287%	287%
21	1	331	0.0030	0.50%	0.50%	1.7	1.7	60%	60%
22	2	307	0.0065	0.50%	0.50%	1.5	1.5	130%	130%
23	2	243	0.0082	0.50%	0.50%	1.2	1.2	165%	165%
24	0	19	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
25	0	0	N/A	0.50%	0.50%	0	0	0%	0%
26	0	0	N/A	0.50%	0.50%	0	0	0%	0%
27	0	0	N/A	0.50%	0.50%	0	0	0%	0%
28	0	0	N/A	0.50%	0.50%	0	0	0%	0%
29	0	0	N/A	0.50%	0.50%	0	0	0%	0%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Subtotal	470	34,178	0.0138			388.0	388.0	121%	121%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	470	34,178	0.0138			388.0	388.0	121%	121%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 3B**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	33	664	0.0497	5.00%	5.00%	33.2	33.2	99%	99%
1	57	1,469	0.0388	4.00%	4.00%	58.8	58.8	97%	97%
2	55	1,824	0.0302	3.00%	3.00%	54.7	54.7	101%	101%
3	26	1,746	0.0149	2.00%	2.00%	34.9	34.9	74%	74%
4	20	1,662	0.0120	1.50%	1.50%	24.9	24.9	80%	80%
5	14	1,522	0.0092	1.00%	1.00%	15.2	15.2	92%	92%
6	11	1,445	0.0076	0.90%	0.90%	13.0	13.0	85%	85%
7	25	1,465	0.0171	0.80%	0.80%	11.7	11.7	213%	213%
8	22	1,453	0.0151	0.70%	0.70%	10.2	10.2	216%	216%
9	16	1,309	0.0122	0.60%	0.60%	7.9	7.9	204%	204%
10	6	1,093	0.0055	0.50%	0.50%	5.5	5.5	110%	110%
11	8	964	0.0083	0.50%	0.50%	4.8	4.8	166%	166%
12	5	951	0.0053	0.50%	0.50%	4.8	4.8	105%	105%
13	9	1,307	0.0069	0.50%	0.50%	6.5	6.5	138%	138%
14	12	1,421	0.0084	0.50%	0.50%	7.1	7.1	169%	169%
15	10	1,452	0.0069	0.50%	0.50%	7.3	7.3	138%	138%
16	14	1,770	0.0079	0.50%	0.50%	8.9	8.9	158%	158%
17	12	1,895	0.0063	0.50%	0.50%	9.5	9.5	127%	127%
18	18	2,016	0.0089	0.50%	0.50%	10.1	10.1	179%	179%
19	3	324	0.0093	0.50%	0.50%	1.6	1.6	185%	185%
20	4	176	0.0227	0.50%	0.50%	0.9	0.9	455%	455%
21	2	149	0.0134	0.50%	0.50%	0.7	0.7	268%	268%
22	1	140	0.0071	0.50%	0.50%	0.7	0.7	143%	143%
23	0	115	0.0000	0.50%	0.50%	0.6	0.6	0%	0%
24	0	7	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
25	0	1	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
26	0	0	N/A	0.50%	0.50%	0	0	0%	0%
27	0	0	N/A	0.50%	0.50%	0	0	0%	0%
28	0	0	N/A	0.50%	0.50%	0	0	0%	0%
29	0	0	N/A	0.50%	0.50%	0	0	0%	0%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	383	28,340	0.0135			333.4	333.4	115%	115%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	383	28,340	0.0135			333.4	333.4	115%	115%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 3C

8-YEAR PERIOD ENDING 6/30/2011

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	86	1,512	0.0569	5.00%	5.00%	75.6	75.6	114%	114%
1	151	3,289	0.0459	4.00%	4.00%	131.6	131.6	115%	115%
2	116	3,902	0.0297	3.00%	3.00%	117.1	117.1	99%	99%
3	52	3,518	0.0148	2.00%	2.00%	70.4	70.4	74%	74%
4	51	3,258	0.0157	1.50%	1.50%	48.9	48.9	104%	104%
5	32	2,924	0.0109	1.00%	1.00%	29.2	29.2	109%	109%
6	32	2,845	0.0112	0.90%	0.90%	25.6	25.6	125%	125%
7	44	2,857	0.0154	0.80%	0.80%	22.9	22.9	193%	193%
8	30	2,846	0.0105	0.70%	0.70%	19.9	19.9	151%	151%
9	25	2,544	0.0098	0.60%	0.60%	15.3	15.3	164%	164%
10	15	2,146	0.0070	0.50%	0.50%	10.7	10.7	140%	140%
11	16	1,956	0.0082	0.50%	0.50%	9.8	9.8	164%	164%
12	12	2,054	0.0058	0.50%	0.50%	10.3	10.3	117%	117%
13	21	2,954	0.0071	0.50%	0.50%	14.8	14.8	142%	142%
14	26	3,235	0.0080	0.50%	0.50%	16.2	16.2	161%	161%
15	22	3,486	0.0063	0.50%	0.50%	17.4	17.4	126%	126%
16	29	4,424	0.0066	0.50%	0.50%	22.1	22.1	131%	131%
17	22	4,796	0.0046	0.50%	0.50%	24.0	24.0	92%	92%
18	48	5,225	0.0092	0.50%	0.50%	26.1	26.1	184%	184%
19	6	910	0.0066	0.50%	0.50%	4.6	4.6	132%	132%
20	9	525	0.0171	0.50%	0.50%	2.6	2.6	343%	343%
21	3	480	0.0063	0.50%	0.50%	2.4	2.4	125%	125%
22	3	447	0.0067	0.50%	0.50%	2.2	2.2	134%	134%
23	2	358	0.0056	0.50%	0.50%	1.8	1.8	112%	112%
24	0	26	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
25	0	1	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
26	0	0	N/A	0.50%	0.50%	0	0	0%	0%
27	0	0	N/A	0.50%	0.50%	0	0	0%	0%
28	0	0	N/A	0.50%	0.50%	0	0	0%	0%
29	0	0	N/A	0.50%	0.50%	0	0	0%	0%
30	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	853	62,518	0.0136			721.5	721.5	118%	118%
31 or more	0	0	N/A	0.50%	0.50%	0	0	0%	0%
Total	853	62,518	0.0136			721.5	721.5	118%	118%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 3D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals (3)	Expected Withdrawals (4)	Actual / Expected (5)	Withdrawal Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	9,339	103	100.2	103%	1.10%	1.07%
2005	8,786	119	97.7	122%	1.35%	1.11%
2006	8,386	122	100.0	122%	1.45%	1.19%
2007	7,803	122	104.0	117%	1.56%	1.33%
2008	7,720	131	112.6	116%	1.70%	1.46%
2009	7,319	109	107.8	101%	1.49%	1.47%
2010	6,760	69	103.8	66%	1.02%	1.54%
2011	6,405	78	87.0	90%	1.22%	1.36%
2012	6,287	21	76.2	28%	0.33%	1.21%
2013	6,469	150	81.3	185%	2.32%	1.26%
Total	75,274	1,024	970.7	105%	1.36%	1.29%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 4A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	9	31	0.2903	65.81%	55.81%	20.4	17.3	44%	52%
41	30	96	0.3125	67.40%	57.40%	64.7	55.1	46%	54%
42	41	132	0.3106	66.59%	56.59%	87.9	74.7	47%	55%
43	59	163	0.3620	67.06%	57.06%	109.3	93.0	54%	63%
44	49	160	0.3063	67.31%	57.31%	107.7	91.7	45%	53%
45	67	169	0.3964	66.69%	56.69%	112.7	95.8	59%	70%
46	50	186	0.2688	65.32%	55.32%	121.5	102.9	41%	49%
47	42	146	0.2877	64.79%	54.79%	94.6	80.0	44%	53%
48	41	132	0.3106	65.30%	55.30%	86.2	73.0	48%	56%
49	47	137	0.3431	64.96%	54.96%	89.0	75.3	53%	62%
50	37	113	0.3274	64.60%	54.60%	73.0	61.7	51%	60%
51	37	111	0.3333	64.41%	54.41%	71.5	60.4	52%	61%
52	26	74	0.3514	65.00%	55.00%	48.1	40.7	54%	64%
53	22	67	0.3284	64.18%	54.18%	43.0	36.3	51%	61%
54	19	64	0.2969	64.38%	54.38%	41.2	34.8	46%	55%
55	11	43	0.2558	64.19%	54.19%	27.6	23.3	40%	47%
56	19	56	0.3393	66.07%	56.07%	37.0	31.4	51%	61%
57	15	33	0.4545	66.06%	56.06%	21.8	18.5	69%	81%
58	11	26	0.4231	64.62%	54.62%	16.8	14.2	65%	77%
59	8	28	0.2857	66.07%	56.07%	18.5	15.7	43%	51%
60	5	12	0.4167	65.83%	55.83%	7.9	6.7	63%	75%
61	2	5	0.4000	62.00%	52.00%	3.1	2.6	65%	77%
62	4	8	0.5000	61.25%	51.25%	4.9	4.1	82%	98%
63	1	2	0.5000	100.00%	50.00%	2.0	1.0	50%	100%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	9	0.0000	100.00%	50.00%	9.0	4.5	0%	0%
66	1	4	0.2500	100.00%	50.00%	4.0	2.0	25%	50%
67	0	2	0.0000	100.00%	50.00%	2.0	1.0	0%	0%
68	0	2	0.0000	100.00%	50.00%	2.0	1.0	0%	0%
69	0	1	0.0000	100.00%	50.00%	1.0	0.5	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	654	2,013				1,329.4	1,120.2	49%	58%
Other	0	8	0.0000	100.00%	100.00%	8.0	8.0	0%	0%
Total	654	2,021				1,337.4	1,128.2	49%	58%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	7	18	0.3889	70.00%	60.00%	12.6	10.8	56%	65%
41	22	71	0.3099	70.00%	60.00%	49.7	42.6	44%	52%
42	27	87	0.3103	70.00%	60.00%	60.9	52.2	44%	52%
43	40	115	0.3478	70.00%	60.00%	80.5	69.0	50%	58%
44	38	117	0.3248	70.00%	60.00%	81.9	70.2	46%	54%
45	50	113	0.4425	70.00%	60.00%	79.1	67.8	63%	74%
46	28	99	0.2828	70.00%	60.00%	69.3	59.4	40%	47%
47	19	70	0.2714	70.00%	60.00%	49.0	42.0	39%	45%
48	18	70	0.2571	70.00%	60.00%	49.0	42.0	37%	43%
49	23	68	0.3382	70.00%	60.00%	47.6	40.8	48%	56%
50	14	52	0.2692	70.00%	60.00%	36.4	31.2	38%	45%
51	20	49	0.4082	70.00%	60.00%	34.3	29.4	58%	68%
52	15	37	0.4054	70.00%	60.00%	25.9	22.2	58%	68%
53	7	28	0.2500	70.00%	60.00%	19.6	16.8	36%	42%
54	10	28	0.3571	70.00%	60.00%	19.6	16.8	51%	60%
55	5	18	0.2778	70.00%	60.00%	12.6	10.8	40%	46%
56	13	34	0.3824	70.00%	60.00%	23.8	20.4	55%	64%
57	11	20	0.5500	70.00%	60.00%	14.0	12.0	79%	92%
58	4	12	0.3333	70.00%	60.00%	8.4	7.2	48%	56%
59	8	17	0.4706	70.00%	60.00%	11.9	10.2	67%	78%
60	4	7	0.5714	70.00%	60.00%	4.9	4.2	82%	95%
61	0	1	0.0000	70.00%	60.00%	0.7	0.6	0%	0%
62	0	1	0.0000	70.00%	60.00%	0.7	0.6	0%	0%
63	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
64	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
65	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
66	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
67	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
68	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	383	1,132				792.4	679.2	48%	56%
Other	0	4	0.0000	100.00%	100.00%	4.0	4.0	0%	0%
Total	383	1,136				796.4	683.2	48%	56%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	2	13	0.1538	60.00%	50.00%	7.8	6.5	26%	31%
41	8	25	0.3200	60.00%	50.00%	15.0	12.5	53%	64%
42	14	45	0.3111	60.00%	50.00%	27.0	22.5	52%	62%
43	19	48	0.3958	60.00%	50.00%	28.8	24.0	66%	79%
44	11	43	0.2558	60.00%	50.00%	25.8	21.5	43%	51%
45	17	56	0.3036	60.00%	50.00%	33.6	28.0	51%	61%
46	22	87	0.2529	60.00%	50.00%	52.2	43.5	42%	51%
47	23	76	0.3026	60.00%	50.00%	45.6	38.0	50%	61%
48	23	62	0.3710	60.00%	50.00%	37.2	31.0	62%	74%
49	24	69	0.3478	60.00%	50.00%	41.4	34.5	58%	70%
50	23	61	0.3770	60.00%	50.00%	36.6	30.5	63%	75%
51	17	62	0.2742	60.00%	50.00%	37.2	31.0	46%	55%
52	11	37	0.2973	60.00%	50.00%	22.2	18.5	50%	59%
53	15	39	0.3846	60.00%	50.00%	23.4	19.5	64%	77%
54	9	36	0.2500	60.00%	50.00%	21.6	18.0	42%	50%
55	6	25	0.2400	60.00%	50.00%	15.0	12.5	40%	48%
56	6	22	0.2727	60.00%	50.00%	13.2	11.0	45%	55%
57	4	13	0.3077	60.00%	50.00%	7.8	6.5	51%	62%
58	7	14	0.5000	60.00%	50.00%	8.4	7.0	83%	100%
59	0	11	0.0000	60.00%	50.00%	6.6	5.5	0%	0%
60	1	5	0.2000	60.00%	50.00%	3.0	2.5	33%	40%
61	2	4	0.5000	60.00%	50.00%	2.4	2.0	83%	100%
62	4	7	0.5714	60.00%	50.00%	4.2	3.5	95%	114%
63	1	2	0.5000	100.00%	50.00%	2.0	1.0	50%	100%
64	0	0	N/A	100.00%	50.00%	0.0	0.0	0%	0%
65	0	9	0.0000	100.00%	50.00%	9.0	4.5	0%	0%
66	1	4	0.2500	100.00%	50.00%	4.0	2.0	25%	50%
67	0	2	0.0000	100.00%	50.00%	2.0	1.0	0%	0%
68	0	2	0.0000	100.00%	50.00%	2.0	1.0	0%	0%
69	0	1	0.0000	100.00%	50.00%	1.0	0.5	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	271	881				537.0	441.0	50%	61%
Other	0	4	0.0000	100.00%	100.00%	4.0	4.0	0%	0%
Total	271	885				541.0	445.0	50%	61%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 4A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	88	210	0.4190	66.57%	56.57%	139.8	118.8	63%	74%
41	189	427	0.4426	66.65%	56.65%	284.6	241.9	66%	78%
42	246	561	0.4385	66.45%	56.45%	372.8	316.7	66%	78%
43	273	600	0.4550	66.33%	56.33%	398.0	338.0	69%	81%
44	247	589	0.4194	66.62%	56.62%	392.4	333.5	63%	74%
45	235	542	0.4336	66.31%	56.31%	359.4	305.2	65%	77%
46	185	504	0.3671	65.91%	55.91%	332.2	281.8	56%	66%
47	181	447	0.4049	65.48%	55.48%	292.7	248.0	62%	73%
48	149	364	0.4093	65.69%	55.69%	239.1	202.7	62%	74%
49	155	371	0.4178	65.58%	55.58%	243.3	206.2	64%	75%
50	132	314	0.4204	64.90%	54.90%	203.8	172.4	65%	77%
51	118	276	0.4275	65.11%	55.11%	179.7	152.1	66%	78%
52	94	219	0.4292	65.30%	55.30%	143.0	121.1	66%	78%
53	74	163	0.4540	64.54%	54.54%	105.2	88.9	70%	83%
54	37	124	0.2984	65.32%	55.32%	81.0	68.6	46%	54%
55	31	85	0.3647	64.59%	54.59%	54.9	46.4	56%	67%
56	28	92	0.3043	66.74%	56.74%	61.4	52.2	46%	54%
57	30	66	0.4545	66.36%	56.36%	43.8	37.2	68%	81%
58	20	49	0.4082	64.90%	54.90%	31.8	26.9	63%	74%
59	11	39	0.2821	66.67%	56.67%	26.0	22.1	42%	50%
60	8	19	0.4211	66.32%	56.32%	12.6	10.7	63%	75%
61	5	9	0.5556	64.44%	54.44%	5.8	4.9	86%	102%
62	4	8	0.5000	61.25%	51.25%	4.9	4.1	82%	98%
63	1	3	0.3333	100.00%	53.33%	3.0	1.6	33%	63%
64	0	2	0.0000	100.00%	60.00%	2.0	1.2	0%	0%
65	0	10	0.0000	100.00%	50.00%	10.0	5.0	0%	0%
66	1	6	0.1667	100.00%	50.00%	6.0	3.0	17%	33%
67	1	4	0.2500	100.00%	50.00%	4.0	2.0	25%	50%
68	0	2	0.0000	100.00%	50.00%	2.0	1.0	0%	0%
69	0	1	0.0000	100.00%	50.00%	1.0	0.5	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	2,544	6,107				4,037.2	3,415.7	63%	74%
Other	30	69	0.4348	100.00%	100.00%	69.0	69.0	43%	43%
Total	2,574	6,176				4,106.2	3,484.7	63%	74%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	31	138	0.2246	70.00%	60.00%	96.6	82.8	32%	37%
41	73	284	0.2570	70.00%	60.00%	198.8	170.4	37%	43%
42	90	362	0.2486	70.00%	60.00%	253.4	217.2	36%	41%
43	97	380	0.2553	70.00%	60.00%	266.0	228.0	36%	43%
44	95	390	0.2436	70.00%	60.00%	273.0	234.0	35%	41%
45	98	342	0.2865	70.00%	60.00%	239.4	205.2	41%	48%
46	70	298	0.2349	70.00%	60.00%	208.6	178.8	34%	39%
47	51	245	0.2082	70.00%	60.00%	171.5	147.0	30%	35%
48	49	207	0.2367	70.00%	60.00%	144.9	124.2	34%	39%
49	52	207	0.2512	70.00%	60.00%	144.9	124.2	36%	42%
50	35	154	0.2273	70.00%	60.00%	107.8	92.4	32%	38%
51	44	141	0.3121	70.00%	60.00%	98.7	84.6	45%	52%
52	31	116	0.2672	70.00%	60.00%	81.2	69.6	38%	45%
53	24	74	0.3243	70.00%	60.00%	51.8	44.4	46%	54%
54	13	66	0.1970	70.00%	60.00%	46.2	39.6	28%	33%
55	12	39	0.3077	70.00%	60.00%	27.3	23.4	44%	51%
56	17	62	0.2742	70.00%	60.00%	43.4	37.2	39%	46%
57	16	42	0.3810	70.00%	60.00%	29.4	25.2	54%	63%
58	5	24	0.2083	70.00%	60.00%	16.8	14.4	30%	35%
59	10	26	0.3846	70.00%	60.00%	18.2	15.6	55%	64%
60	6	12	0.5000	70.00%	60.00%	8.4	7.2	71%	83%
61	2	4	0.5000	70.00%	60.00%	2.8	2.4	71%	83%
62	0	1	0.0000	70.00%	60.00%	0.7	0.6	0%	0%
63	0	1	0.0000	100.00%	60.00%	1.0	0.6	0%	0%
64	0	2	0.0000	100.00%	60.00%	2.0	1.2	0%	0%
65	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
66	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
67	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
68	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	60.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	921	3,617				2,532.8	2,170.2	36%	42%
Other	7	34	0.2059	100.00%	100.00%	34.0	34.0	21%	21%
Total	928	3,651				2,566.8	2,204.2	36%	42%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	57	72	0.7917	60.00%	50.00%	43.2	36.0	132%	158%
41	116	143	0.8112	60.00%	50.00%	85.8	71.5	135%	162%
42	156	199	0.7839	60.00%	50.00%	119.4	99.5	131%	157%
43	176	220	0.8000	60.00%	50.00%	132.0	110.0	133%	160%
44	152	199	0.7638	60.00%	50.00%	119.4	99.5	127%	153%
45	137	200	0.6850	60.00%	50.00%	120.0	100.0	114%	137%
46	115	206	0.5583	60.00%	50.00%	123.6	103.0	93%	112%
47	130	202	0.6436	60.00%	50.00%	121.2	101.0	107%	129%
48	100	157	0.6369	60.00%	50.00%	94.2	78.5	106%	127%
49	103	164	0.6280	60.00%	50.00%	98.4	82.0	105%	126%
50	97	160	0.6063	60.00%	50.00%	96.0	80.0	101%	121%
51	74	135	0.5481	60.00%	50.00%	81.0	67.5	91%	110%
52	63	103	0.6117	60.00%	50.00%	61.8	51.5	102%	122%
53	50	89	0.5618	60.00%	50.00%	53.4	44.5	94%	112%
54	24	58	0.4138	60.00%	50.00%	34.8	29.0	69%	83%
55	19	46	0.4130	60.00%	50.00%	27.6	23.0	69%	83%
56	11	30	0.3667	60.00%	50.00%	18.0	15.0	61%	73%
57	14	24	0.5833	60.00%	50.00%	14.4	12.0	97%	117%
58	15	25	0.6000	60.00%	50.00%	15.0	12.5	100%	120%
59	1	13	0.0769	60.00%	50.00%	7.8	6.5	13%	15%
60	2	7	0.2857	60.00%	50.00%	4.2	3.5	48%	57%
61	3	5	0.6000	60.00%	50.00%	3.0	2.5	100%	120%
62	4	7	0.5714	60.00%	50.00%	4.2	3.5	95%	114%
63	1	2	0.5000	100.00%	50.00%	2.0	1.0	50%	100%
64	0	0	N/A	100.00%	50.00%	0.0	0.0	0%	0%
65	0	10	0.0000	100.00%	50.00%	10.0	5.0	0%	0%
66	1	6	0.1667	100.00%	50.00%	6.0	3.0	17%	33%
67	1	4	0.2500	100.00%	50.00%	4.0	2.0	25%	50%
68	0	2	0.0000	100.00%	50.00%	2.0	1.0	0%	0%
69	0	1	0.0000	100.00%	50.00%	1.0	0.5	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	1,623	2,490				1,504.4	1,245.5	108%	130%
Other	23	35	0.6571	100.00%	100.00%	35.0	35.0	66%	66%
Total	1,646	2,525				1,539.4	1,280.5	107%	129%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 5A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	1	9	0.1111	20.00%	18.89%	1.8	1.7	56%	59%
41	0	35	0.0000	20.00%	18.43%	7.0	6.5	0%	0%
42	8	82	0.0976	20.00%	19.21%	16.4	15.8	49%	51%
43	15	124	0.1210	20.00%	18.95%	24.8	23.5	60%	64%
44	26	145	0.1793	20.00%	19.03%	29.0	27.6	90%	94%
45	19	139	0.1367	20.00%	18.67%	27.8	26.0	68%	73%
46	23	142	0.1620	20.00%	18.56%	28.4	26.4	81%	87%
47	27	149	0.1812	20.00%	18.12%	29.8	27.0	91%	100%
48	20	131	0.1527	20.00%	18.13%	26.2	23.8	76%	84%
49	26	100	0.2600	20.00%	18.35%	20.0	18.4	130%	142%
50	12	102	0.1176	20.00%	18.19%	20.4	18.6	59%	65%
51	20	83	0.2410	20.00%	18.07%	16.6	15.0	120%	133%
52	16	84	0.1905	20.00%	17.86%	16.8	15.0	95%	107%
53	15	62	0.2419	20.00%	18.06%	12.4	11.2	121%	134%
54	9	47	0.1915	20.00%	17.87%	9.4	8.4	96%	107%
55	5	51	0.0980	20.00%	17.65%	10.2	9.0	49%	56%
56	6	35	0.1714	20.00%	17.14%	7.0	6.0	86%	100%
57	6	38	0.1579	20.00%	18.29%	7.6	7.0	79%	86%
58	4	19	0.2105	20.00%	17.63%	3.8	3.4	105%	119%
59	5	15	0.3333	20.00%	18.33%	3.0	2.8	167%	182%
60	5	20	0.2500	20.00%	18.25%	4.0	3.7	125%	137%
61	2	9	0.2222	20.00%	18.89%	1.8	1.7	111%	118%
62	0	2	0.0000	20.00%	17.50%	0.4	0.4	0%	0%
63	1	2	0.5000	100.00%	17.50%	2.0	0.4	50%	286%
64	1	2	0.5000	100.00%	17.50%	2.0	0.4	50%	286%
65	0	2	0.0000	100.00%	20.00%	2.0	0.4	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	272	1,629				330.6	299.4	82%	91%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	272	1,629				330.6	299.4	82%	91%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	1	7	0.1429	20.00%	20.00%	1.4	1.4	71%	71%
41	0	24	0.0000	20.00%	20.00%	4.8	4.8	0%	0%
42	7	69	0.1014	20.00%	20.00%	13.8	13.8	51%	51%
43	13	98	0.1327	20.00%	20.00%	19.6	19.6	66%	66%
44	24	117	0.2051	20.00%	20.00%	23.4	23.4	103%	103%
45	16	102	0.1569	20.00%	20.00%	20.4	20.4	78%	78%
46	21	101	0.2079	20.00%	20.00%	20.2	20.2	104%	104%
47	21	93	0.2258	20.00%	20.00%	18.6	18.6	113%	113%
48	16	82	0.1951	20.00%	20.00%	16.4	16.4	98%	98%
49	17	67	0.2537	20.00%	20.00%	13.4	13.4	127%	127%
50	7	65	0.1077	20.00%	20.00%	13.0	13.0	54%	54%
51	14	51	0.2745	20.00%	20.00%	10.2	10.2	137%	137%
52	8	48	0.1667	20.00%	20.00%	9.6	9.6	83%	83%
53	13	38	0.3421	20.00%	20.00%	7.6	7.6	171%	171%
54	6	27	0.2222	20.00%	20.00%	5.4	5.4	111%	111%
55	4	27	0.1481	20.00%	20.00%	5.4	5.4	74%	74%
56	3	15	0.2000	20.00%	20.00%	3.0	3.0	100%	100%
57	3	25	0.1200	20.00%	20.00%	5.0	5.0	60%	60%
58	2	10	0.2000	20.00%	20.00%	2.0	2.0	100%	100%
59	4	10	0.4000	20.00%	20.00%	2.0	2.0	200%	200%
60	3	13	0.2308	20.00%	20.00%	2.6	2.6	115%	115%
61	2	7	0.2857	20.00%	20.00%	1.4	1.4	143%	143%
62	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
63	0	1	0.0000	100.00%	20.00%	1.0	0.2	0%	0%
64	0	1	0.0000	100.00%	20.00%	1.0	0.2	0%	0%
65	0	2	0.0000	100.00%	20.00%	2.0	0.4	0%	0%
66	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	205	1,101				223.4	220.2	92%	93%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	205	1,101				223.4	220.2	92%	93%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	2	0.0000	20.00%	15.00%	0.4	0.3	0%	0%
41	0	11	0.0000	20.00%	15.00%	2.2	1.7	0%	0%
42	1	13	0.0769	20.00%	15.00%	2.6	2.0	38%	51%
43	2	26	0.0769	20.00%	15.00%	5.2	3.9	38%	51%
44	2	28	0.0714	20.00%	15.00%	5.6	4.2	36%	48%
45	3	37	0.0811	20.00%	15.00%	7.4	5.6	41%	54%
46	2	41	0.0488	20.00%	15.00%	8.2	6.2	24%	33%
47	6	56	0.1071	20.00%	15.00%	11.2	8.4	54%	71%
48	4	49	0.0816	20.00%	15.00%	9.8	7.4	41%	54%
49	9	33	0.2727	20.00%	15.00%	6.6	5.0	136%	182%
50	5	37	0.1351	20.00%	15.00%	7.4	5.6	68%	90%
51	6	32	0.1875	20.00%	15.00%	6.4	4.8	94%	125%
52	8	36	0.2222	20.00%	15.00%	7.2	5.4	111%	148%
53	2	24	0.0833	20.00%	15.00%	4.8	3.6	42%	56%
54	3	20	0.1500	20.00%	15.00%	4.0	3.0	75%	100%
55	1	24	0.0417	20.00%	15.00%	4.8	3.6	21%	28%
56	3	20	0.1500	20.00%	15.00%	4.0	3.0	75%	100%
57	3	13	0.2308	20.00%	15.00%	2.6	2.0	115%	154%
58	2	9	0.2222	20.00%	15.00%	1.8	1.4	111%	148%
59	1	5	0.2000	20.00%	15.00%	1.0	0.8	100%	133%
60	2	7	0.2857	20.00%	15.00%	1.4	1.1	143%	190%
61	0	2	0.0000	20.00%	15.00%	0.4	0.3	0%	0%
62	0	1	0.0000	20.00%	15.00%	0.2	0.2	0%	0%
63	1	1	1.0000	100.00%	15.00%	1.0	0.2	100%	667%
64	1	1	1.0000	100.00%	15.00%	1.0	0.2	100%	667%
65	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
66	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
67	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
68	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	67	528				107.2	79.2	63%	85%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	67	528				107.2	79.2	63%	85%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 5A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	11	30	0.3667	20.00%	20.00%	6.0	6.0	183%	183%
41	42	128	0.3281	20.00%	19.10%	25.6	24.5	164%	172%
42	72	231	0.3117	20.00%	19.26%	46.2	44.5	156%	162%
43	91	304	0.2993	20.00%	19.29%	60.8	58.7	150%	155%
44	90	309	0.2913	20.00%	19.29%	61.8	59.6	146%	151%
45	99	319	0.3103	20.00%	19.11%	63.8	61.0	155%	162%
46	92	305	0.3016	20.00%	18.93%	61.0	57.8	151%	159%
47	80	301	0.2658	20.00%	18.64%	60.2	56.1	133%	143%
48	76	271	0.2804	20.00%	18.67%	54.2	50.6	140%	150%
49	78	219	0.3562	20.00%	18.63%	43.8	40.8	178%	191%
50	61	214	0.2850	20.00%	18.57%	42.8	39.8	143%	153%
51	55	172	0.3198	20.00%	18.40%	34.4	31.7	160%	174%
52	39	145	0.2690	20.00%	18.14%	29.0	26.3	134%	148%
53	41	121	0.3388	20.00%	18.72%	24.2	22.7	169%	181%
54	24	79	0.3038	20.00%	17.78%	15.8	14.1	152%	171%
55	13	80	0.1625	20.00%	18.31%	16.0	14.7	81%	89%
56	7	47	0.1489	20.00%	17.23%	9.4	8.1	74%	86%
57	13	56	0.2321	20.00%	18.57%	11.2	10.4	116%	125%
58	8	31	0.2581	20.00%	18.55%	6.2	5.8	129%	139%
59	7	24	0.2917	20.00%	18.75%	4.8	4.5	146%	156%
60	5	25	0.2000	20.00%	18.60%	5.0	4.7	100%	108%
61	2	11	0.1818	20.00%	18.64%	2.2	2.1	91%	98%
62	0	2	0.0000	20.00%	17.50%	0.4	0.4	0%	0%
63	1	2	0.5000	100.00%	17.50%	2.0	0.4	50%	286%
64	1	2	0.5000	100.00%	17.50%	2.0	0.4	50%	286%
65	0	2	0.0000	100.00%	20.00%	2.0	0.4	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	1,008	3,430				690.8	645.4	146%	156%
Other	2	3	0.6667	100.00%	100.00%	3.0	3.0	67%	67%
Total	1,010	3,433				693.8	648.4	146%	156%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	7	24	0.2917	20.00%	20.00%	4.8	4.8	146%	146%
41	33	105	0.3143	20.00%	20.00%	21.0	21.0	157%	157%
42	60	197	0.3046	20.00%	20.00%	39.4	39.4	152%	152%
43	78	261	0.2989	20.00%	20.00%	52.2	52.2	149%	149%
44	81	265	0.3057	20.00%	20.00%	53.0	53.0	153%	153%
45	86	262	0.3282	20.00%	20.00%	52.4	52.4	164%	164%
46	78	240	0.3250	20.00%	20.00%	48.0	48.0	163%	163%
47	65	219	0.2968	20.00%	20.00%	43.8	43.8	148%	148%
48	60	199	0.3015	20.00%	20.00%	39.8	39.8	151%	151%
49	53	159	0.3333	20.00%	20.00%	31.8	31.8	167%	167%
50	44	153	0.2876	20.00%	20.00%	30.6	30.6	144%	144%
51	40	117	0.3419	20.00%	20.00%	23.4	23.4	171%	171%
52	27	91	0.2967	20.00%	20.00%	18.2	18.2	148%	148%
53	37	90	0.4111	20.00%	20.00%	18.0	18.0	206%	206%
54	15	44	0.3409	20.00%	20.00%	8.8	8.8	170%	170%
55	11	53	0.2075	20.00%	20.00%	10.6	10.6	104%	104%
56	3	21	0.1429	20.00%	20.00%	4.2	4.2	71%	71%
57	9	40	0.2250	20.00%	20.00%	8.0	8.0	113%	113%
58	6	22	0.2727	20.00%	20.00%	4.4	4.4	136%	136%
59	5	18	0.2778	20.00%	20.00%	3.6	3.6	139%	139%
60	3	18	0.1667	20.00%	20.00%	3.6	3.6	83%	83%
61	2	8	0.2500	20.00%	20.00%	1.6	1.6	125%	125%
62	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
63	0	1	0.0000	100.00%	20.00%	1.0	0.2	0%	0%
64	0	1	0.0000	100.00%	20.00%	1.0	0.2	0%	0%
65	0	2	0.0000	100.00%	20.00%	2.0	0.4	0%	0%
66	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	803	2,611				525.4	522.2	153%	154%
Other	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Total	804	2,612				526.4	523.2	153%	154%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	4	6	0.6667	20.00%	20.00%	1.2	1.2	333%	333%
41	9	23	0.3913	20.00%	15.00%	4.6	3.5	196%	261%
42	12	34	0.3529	20.00%	15.00%	6.8	5.1	176%	235%
43	13	43	0.3023	20.00%	15.00%	8.6	6.5	151%	202%
44	9	44	0.2045	20.00%	15.00%	8.8	6.6	102%	136%
45	13	57	0.2281	20.00%	15.00%	11.4	8.6	114%	152%
46	14	65	0.2154	20.00%	15.00%	13.0	9.8	108%	144%
47	15	82	0.1829	20.00%	15.00%	16.4	12.3	91%	122%
48	16	72	0.2222	20.00%	15.00%	14.4	10.8	111%	148%
49	25	60	0.4167	20.00%	15.00%	12.0	9.0	208%	278%
50	17	61	0.2787	20.00%	15.00%	12.2	9.2	139%	186%
51	15	55	0.2727	20.00%	15.00%	11.0	8.3	136%	182%
52	12	54	0.2222	20.00%	15.00%	10.8	8.1	111%	148%
53	4	31	0.1290	20.00%	15.00%	6.2	4.7	65%	86%
54	9	35	0.2571	20.00%	15.00%	7.0	5.3	129%	171%
55	2	27	0.0741	20.00%	15.00%	5.4	4.1	37%	49%
56	4	26	0.1538	20.00%	15.00%	5.2	3.9	77%	103%
57	4	16	0.2500	20.00%	15.00%	3.2	2.4	125%	167%
58	2	9	0.2222	20.00%	15.00%	1.8	1.4	111%	148%
59	2	6	0.3333	20.00%	15.00%	1.2	0.9	167%	222%
60	2	7	0.2857	20.00%	15.00%	1.4	1.1	143%	190%
61	0	3	0.0000	20.00%	15.00%	0.6	0.5	0%	0%
62	0	1	0.0000	20.00%	15.00%	0.2	0.2	0%	0%
63	1	1	1.0000	100.00%	15.00%	1.0	0.2	100%	667%
64	1	1	1.0000	100.00%	15.00%	1.0	0.2	100%	667%
65	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
66	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
67	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
68	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	205	819				165.4	123.2	124%	166%
Other	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Total	206	821				167.4	125.2	123%	165%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	1	11	0.0909	20.00%	15.00%	2.2	1.7	45%	61%
42	7	65	0.1077	20.00%	15.00%	13.0	9.8	54%	72%
43	17	149	0.1141	20.00%	15.00%	29.8	22.4	57%	76%
44	31	244	0.1270	20.00%	15.00%	48.8	36.6	64%	85%
45	36	341	0.1056	20.00%	15.00%	68.2	51.2	53%	70%
46	51	429	0.1189	20.00%	15.00%	85.8	64.4	59%	79%
47	51	452	0.1128	20.00%	15.00%	90.4	67.8	56%	75%
48	44	447	0.0984	20.00%	15.00%	89.4	67.1	49%	66%
49	44	438	0.1005	20.00%	15.00%	87.6	65.7	50%	67%
50	49	378	0.1296	20.00%	15.00%	75.6	56.7	65%	86%
51	37	364	0.1016	20.00%	15.00%	72.8	54.6	51%	68%
52	44	330	0.1333	20.00%	15.00%	66.0	49.5	67%	89%
53	36	295	0.1220	20.00%	15.00%	59.0	44.3	61%	81%
54	32	237	0.1350	20.00%	15.00%	47.4	35.6	68%	90%
55	26	208	0.1250	20.00%	15.00%	41.6	31.2	63%	83%
56	19	192	0.0990	20.00%	15.00%	38.4	28.8	49%	66%
57	24	166	0.1446	20.00%	15.00%	33.2	24.9	72%	96%
58	18	138	0.1304	20.00%	15.00%	27.6	20.7	65%	87%
59	15	102	0.1471	20.00%	15.00%	20.4	15.3	74%	98%
60	12	70	0.1714	20.00%	15.00%	14.0	10.5	86%	114%
61	13	48	0.2708	20.00%	15.00%	9.6	7.2	135%	181%
62	11	36	0.3056	20.00%	15.00%	7.2	5.4	153%	204%
63	2	13	0.1538	100.00%	15.00%	13.0	2.0	15%	103%
64	1	10	0.1000	100.00%	15.00%	10.0	1.5	10%	67%
65	1	6	0.1667	100.00%	15.00%	6.0	0.9	17%	111%
66	1	5	0.2000	100.00%	15.00%	5.0	0.8	20%	133%
67	2	3	0.6667	100.00%	15.00%	3.0	0.5	67%	444%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	1	0.0000	100.00%	15.00%	1.0	0.2	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	626	5,179				1,067.0	777.7	59%	80%
Other	0	4	0.0000	100.00%	100.00%	4.0	4.0	0%	0%
Total	626	5,183				1,071.0	781.7	58%	80%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
41	1	9	0.1111	20.00%	15.00%	1.8	1.4	56%	74%
42	6	49	0.1224	20.00%	15.00%	9.8	7.4	61%	82%
43	17	129	0.1318	20.00%	15.00%	25.8	19.4	66%	88%
44	29	216	0.1343	20.00%	15.00%	43.2	32.4	67%	90%
45	34	308	0.1104	20.00%	15.00%	61.6	46.2	55%	74%
46	49	380	0.1289	20.00%	15.00%	76.0	57.0	64%	86%
47	46	386	0.1192	20.00%	15.00%	77.2	57.9	60%	79%
48	39	364	0.1071	20.00%	15.00%	72.8	54.6	54%	71%
49	38	350	0.1086	20.00%	15.00%	70.0	52.5	54%	72%
50	43	308	0.1396	20.00%	15.00%	61.6	46.2	70%	93%
51	33	291	0.1134	20.00%	15.00%	58.2	43.7	57%	76%
52	36	259	0.1390	20.00%	15.00%	51.8	38.9	69%	93%
53	32	230	0.1391	20.00%	15.00%	46.0	34.5	70%	93%
54	28	175	0.1600	20.00%	15.00%	35.0	26.3	80%	107%
55	22	153	0.1438	20.00%	15.00%	30.6	23.0	72%	96%
56	18	139	0.1295	20.00%	15.00%	27.8	20.9	65%	86%
57	19	116	0.1638	20.00%	15.00%	23.2	17.4	82%	109%
58	11	105	0.1048	20.00%	15.00%	21.0	15.8	52%	70%
59	12	79	0.1519	20.00%	15.00%	15.8	11.9	76%	101%
60	9	54	0.1667	20.00%	15.00%	10.8	8.1	83%	111%
61	11	38	0.2895	20.00%	15.00%	7.6	5.7	145%	193%
62	9	27	0.3333	20.00%	15.00%	5.4	4.1	167%	222%
63	2	10	0.2000	100.00%	15.00%	10.0	1.5	20%	133%
64	1	6	0.1667	100.00%	15.00%	6.0	0.9	17%	111%
65	1	4	0.2500	100.00%	15.00%	4.0	0.6	25%	167%
66	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
67	2	2	1.0000	100.00%	15.00%	2.0	0.3	100%	667%
68	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	548	4,189				857.0	628.4	64%	87%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	548	4,189				857.0	628.4	64%	87%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
41	0	2	0.0000	20.00%	15.00%	0.4	0.3	0%	0%
42	1	16	0.0625	20.00%	15.00%	3.2	2.4	31%	42%
43	0	20	0.0000	20.00%	15.00%	4.0	3.0	0%	0%
44	2	28	0.0714	20.00%	15.00%	5.6	4.2	36%	48%
45	2	33	0.0606	20.00%	15.00%	6.6	5.0	30%	40%
46	2	49	0.0408	20.00%	15.00%	9.8	7.4	20%	27%
47	5	66	0.0758	20.00%	15.00%	13.2	9.9	38%	51%
48	5	83	0.0602	20.00%	15.00%	16.6	12.5	30%	40%
49	6	88	0.0682	20.00%	15.00%	17.6	13.2	34%	45%
50	6	70	0.0857	20.00%	15.00%	14.0	10.5	43%	57%
51	4	73	0.0548	20.00%	15.00%	14.6	11.0	27%	37%
52	8	71	0.1127	20.00%	15.00%	14.2	10.7	56%	75%
53	4	65	0.0615	20.00%	15.00%	13.0	9.8	31%	41%
54	4	62	0.0645	20.00%	15.00%	12.4	9.3	32%	43%
55	4	55	0.0727	20.00%	15.00%	11.0	8.3	36%	48%
56	1	53	0.0189	20.00%	15.00%	10.6	8.0	9%	13%
57	5	50	0.1000	20.00%	15.00%	10.0	7.5	50%	67%
58	7	33	0.2121	20.00%	15.00%	6.6	5.0	106%	141%
59	3	23	0.1304	20.00%	15.00%	4.6	3.5	65%	87%
60	3	16	0.1875	20.00%	15.00%	3.2	2.4	94%	125%
61	2	10	0.2000	20.00%	15.00%	2.0	1.5	100%	133%
62	2	9	0.2222	20.00%	15.00%	1.8	1.4	111%	148%
63	0	3	0.0000	100.00%	15.00%	3.0	0.5	0%	0%
64	0	4	0.0000	100.00%	15.00%	4.0	0.6	0%	0%
65	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
66	1	3	0.3333	100.00%	15.00%	3.0	0.5	33%	222%
67	0	1	0.0000	100.00%	15.00%	1.0	0.2	0%	0%
68	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
69	0	1	0.0000	100.00%	15.00%	1.0	0.2	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	78	990				210.0	149.4	37%	52%
Other	0	4	0.0000	100.00%	100.00%	4.0	4.0	0%	0%
Total	78	994				214.0	153.4	36%	51%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	1	0.0000	20.00%	15.00%	0.2	0.2	0%	0%
41	2	22	0.0909	20.00%	15.00%	4.4	3.3	45%	61%
42	18	108	0.1667	20.00%	15.00%	21.6	16.2	83%	111%
43	35	229	0.1528	20.00%	15.00%	45.8	34.4	76%	102%
44	55	378	0.1455	20.00%	15.00%	75.6	56.7	73%	97%
45	60	509	0.1179	20.00%	15.00%	101.8	76.4	59%	79%
46	77	597	0.1290	20.00%	15.00%	119.4	89.6	64%	86%
47	80	616	0.1299	20.00%	15.00%	123.2	92.4	65%	87%
48	72	636	0.1132	20.00%	15.00%	127.2	95.4	57%	75%
49	79	634	0.1246	20.00%	15.00%	126.8	95.1	62%	83%
50	74	571	0.1296	20.00%	15.00%	114.2	85.7	65%	86%
51	68	559	0.1216	20.00%	15.00%	111.8	83.9	61%	81%
52	67	512	0.1309	20.00%	15.00%	102.4	76.8	65%	87%
53	56	446	0.1256	20.00%	15.00%	89.2	66.9	63%	84%
54	59	384	0.1536	20.00%	15.00%	76.8	57.6	77%	102%
55	37	307	0.1205	20.00%	15.00%	61.4	46.1	60%	80%
56	32	267	0.1199	20.00%	15.00%	53.4	40.1	60%	80%
57	35	215	0.1628	20.00%	15.00%	43.0	32.3	81%	109%
58	21	174	0.1207	20.00%	15.00%	34.8	26.1	60%	80%
59	18	129	0.1395	20.00%	15.00%	25.8	19.4	70%	93%
60	17	91	0.1868	20.00%	15.00%	18.2	13.7	93%	125%
61	15	61	0.2459	20.00%	15.00%	12.2	9.2	123%	164%
62	13	45	0.2889	20.00%	15.00%	9.0	6.8	144%	193%
63	3	20	0.1500	100.00%	15.00%	20.0	3.0	15%	100%
64	3	14	0.2143	100.00%	15.00%	14.0	2.1	21%	143%
65	1	8	0.1250	100.00%	15.00%	8.0	1.2	13%	83%
66	1	6	0.1667	100.00%	15.00%	6.0	0.9	17%	111%
67	2	4	0.5000	100.00%	15.00%	4.0	0.6	50%	333%
68	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
69	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
70	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Subtotal	1,001	7,549				1,556.2	1,134.1	64%	88%
Other	2	10	0.2000	100.00%	100.00%	10.0	10.0	20%	20%
Total	1,003	7,559				1,566.2	1,144.1	64%	88%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	20.00%	15.00%	0.0	0.0	0%	0%
41	2	19	0.1053	20.00%	15.00%	3.8	2.9	53%	70%
42	16	90	0.1778	20.00%	15.00%	18.0	13.5	89%	119%
43	32	198	0.1616	20.00%	15.00%	39.6	29.7	81%	108%
44	49	333	0.1471	20.00%	15.00%	66.6	50.0	74%	98%
45	49	449	0.1091	20.00%	15.00%	89.8	67.4	55%	73%
46	66	520	0.1269	20.00%	15.00%	104.0	78.0	63%	85%
47	71	521	0.1363	20.00%	15.00%	104.2	78.2	68%	91%
48	61	515	0.1184	20.00%	15.00%	103.0	77.3	59%	79%
49	61	502	0.1215	20.00%	15.00%	100.4	75.3	61%	81%
50	59	458	0.1288	20.00%	15.00%	91.6	68.7	64%	86%
51	53	444	0.1194	20.00%	15.00%	88.8	66.6	60%	80%
52	53	397	0.1335	20.00%	15.00%	79.4	59.6	67%	89%
53	44	338	0.1302	20.00%	15.00%	67.6	50.7	65%	87%
54	49	285	0.1719	20.00%	15.00%	57.0	42.8	86%	115%
55	28	216	0.1296	20.00%	15.00%	43.2	32.4	65%	86%
56	25	190	0.1316	20.00%	15.00%	38.0	28.5	66%	88%
57	24	143	0.1678	20.00%	15.00%	28.6	21.5	84%	112%
58	12	123	0.0976	20.00%	15.00%	24.6	18.5	49%	65%
59	13	94	0.1383	20.00%	15.00%	18.8	14.1	69%	92%
60	12	65	0.1846	20.00%	15.00%	13.0	9.8	92%	123%
61	11	45	0.2444	20.00%	15.00%	9.0	6.8	122%	163%
62	10	31	0.3226	20.00%	15.00%	6.2	4.7	161%	215%
63	2	12	0.1667	100.00%	15.00%	12.0	1.8	17%	111%
64	3	8	0.3750	100.00%	15.00%	8.0	1.2	38%	250%
65	1	4	0.2500	100.00%	15.00%	4.0	0.6	25%	167%
66	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
67	2	2	1.0000	100.00%	15.00%	2.0	0.3	100%	667%
68	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
69	0	0	N/A	100.00%	15.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	808	6,004				1,223.2	900.6	66%	90%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	808	6,004				1,223.2	900.6	66%	90%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	1	0.0000	20.00%	15.00%	0.2	0.2	0%	0%
41	0	3	0.0000	20.00%	15.00%	0.6	0.5	0%	0%
42	2	18	0.1111	20.00%	15.00%	3.6	2.7	56%	74%
43	3	31	0.0968	20.00%	15.00%	6.2	4.7	48%	65%
44	6	45	0.1333	20.00%	15.00%	9.0	6.8	67%	89%
45	11	60	0.1833	20.00%	15.00%	12.0	9.0	92%	122%
46	11	77	0.1429	20.00%	15.00%	15.4	11.6	71%	95%
47	9	95	0.0947	20.00%	15.00%	19.0	14.3	47%	63%
48	11	121	0.0909	20.00%	15.00%	24.2	18.2	45%	61%
49	18	132	0.1364	20.00%	15.00%	26.4	19.8	68%	91%
50	15	113	0.1327	20.00%	15.00%	22.6	17.0	66%	88%
51	15	115	0.1304	20.00%	15.00%	23.0	17.3	65%	87%
52	14	115	0.1217	20.00%	15.00%	23.0	17.3	61%	81%
53	12	108	0.1111	20.00%	15.00%	21.6	16.2	56%	74%
54	10	99	0.1010	20.00%	15.00%	19.8	14.9	51%	67%
55	9	91	0.0989	20.00%	15.00%	18.2	13.7	49%	66%
56	7	77	0.0909	20.00%	15.00%	15.4	11.6	45%	61%
57	11	72	0.1528	20.00%	15.00%	14.4	10.8	76%	102%
58	9	51	0.1765	20.00%	15.00%	10.2	7.7	88%	118%
59	5	35	0.1429	20.00%	15.00%	7.0	5.3	71%	95%
60	5	26	0.1923	20.00%	15.00%	5.2	3.9	96%	128%
61	4	16	0.2500	20.00%	15.00%	3.2	2.4	125%	167%
62	3	14	0.2143	20.00%	15.00%	2.8	2.1	107%	143%
63	1	8	0.1250	100.00%	15.00%	8.0	1.2	13%	83%
64	0	6	0.0000	100.00%	15.00%	6.0	0.9	0%	0%
65	0	4	0.0000	100.00%	15.00%	4.0	0.6	0%	0%
66	1	4	0.2500	100.00%	15.00%	4.0	0.6	25%	167%
67	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
68	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
69	0	2	0.0000	100.00%	15.00%	2.0	0.3	0%	0%
70	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Subtotal	193	1,545				333.0	233.5	58%	83%
Other	2	10	0.2000	100.00%	100.00%	10.0	10.0	20%	20%
Total	195	1,555				343.0	243.5	57%	80%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH UNREDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 6D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements (3)	Expected Retirements (4)	Actual / Expected (5)	Retirement Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	934	578	323.0	179%	61.88%	34.58%
2005	1,042	533	451.0	118%	51.15%	43.28%
2006	1,171	502	476.6	105%	42.87%	40.70%
2007	1,719	629	819.0	77%	36.59%	47.64%
2008	1,637	476	595.9	80%	29.08%	36.40%
2009	1,832	317	715.2	44%	17.30%	39.04%
2010	2,438	422	976.5	43%	17.31%	40.05%
2011	2,444	532	763.0	70%	21.77%	31.22%
2012	2,126	405	601.4	67%	19.05%	28.29%
2013	1,825	193	500.5	39%	10.58%	27.42%
Total	17,168	4,587	6,222.0	74%	26.72%	36.24%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	3	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
41	0	12	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	0	1	0.0000	2.00%	3.00%	0.0	0.0	0%	0%
56	0	1	0.0000	2.00%	3.00%	0.0	0.0	0%	0%
57	0	0	N/A	2.00%	3.00%	0.0	0.0	0%	0%
58	0	0	N/A	2.00%	3.00%	0.0	0.0	0%	0%
59	0	0	N/A	3.00%	4.00%	0.0	0.0	0%	0%
60	0	0	N/A	4.00%	5.00%	0.0	0.0	0%	0%
61	0	0	N/A	5.00%	6.00%	0.0	0.0	0%	0%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	0	17				0.0	0.1	0%	0%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	0	17				0.0	0.1	0%	0%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	22	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
41	1	65	0.0154	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	0	1	0.0000	2.00%	3.00%	0.0	0.0	0%	0%
56	0	1	0.0000	2.00%	3.00%	0.0	0.0	0%	0%
57	0	1	0.0000	2.00%	3.00%	0.0	0.0	0%	0%
58	0	1	0.0000	2.00%	3.00%	0.0	0.0	0%	0%
59	0	0	N/A	3.00%	4.00%	0.0	0.0	0%	0%
60	0	0	N/A	4.00%	5.00%	0.0	0.0	0%	0%
61	0	0	N/A	5.00%	6.00%	0.0	0.0	0%	0%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	1	91				0.1	0.1	1250%	833%
Other	0	4	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
Total	1	95				0.1	0.1	1250%	833%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	13	0	0.6	0%	0.00%	4.31%
2005	13	0	0.6	0%	0.00%	4.31%
2006	10	0	0.5	0%	0.00%	4.70%
2007	13	0	0.6	0%	0.00%	4.85%
2008	16	1	0.8	132%	6.25%	4.75%
2009	13	0	0.6	0%	0.00%	4.54%
2010	12	0	0.6	0%	0.00%	4.75%
2011	3	0	0.2	0%	0.00%	5.00%
2012	1	0	0.0	0%	0.00%	2.00%
2013	1	0	0.0	0%	0.00%	2.00%
Total	95	1	4.3	23%	1.05%	4.56%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 8A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.050%	0.050%	0	0	0%	0%
21	0	1	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
22	0	13	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
23	0	43	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
24	0	99	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
25	0	191	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
26	1	261	0.00383	0.050%	0.050%	0.1	0.1	766%	766%
27	0	325	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
28	0	380	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
29	0	414	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
30	1	420	0.00238	0.050%	0.050%	0.2	0.2	476%	476%
31	0	421	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
32	0	404	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
33	0	412	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
34	1	437	0.00229	0.050%	0.050%	0.2	0.2	458%	458%
35	1	470	0.00213	0.050%	0.050%	0.2	0.2	426%	426%
36	1	495	0.00202	0.060%	0.060%	0.3	0.3	337%	337%
37	0	509	0.00000	0.070%	0.070%	0.4	0.4	0%	0%
38	0	542	0.00000	0.080%	0.080%	0.4	0.4	0%	0%
39	1	570	0.00175	0.090%	0.090%	0.5	0.5	195%	195%
40	1	641	0.00156	0.100%	0.100%	0.6	0.6	156%	156%
41	0	708	0.00000	0.110%	0.110%	0.8	0.8	0%	0%
42	0	797	0.00000	0.120%	0.120%	1.0	1.0	0%	0%
43	1	873	0.00115	0.130%	0.130%	1.1	1.1	88%	88%
44	1	897	0.00111	0.140%	0.140%	1.3	1.3	80%	80%
45	0	935	0.00000	0.150%	0.150%	1.4	1.4	0%	0%
46	2	970	0.00206	0.160%	0.160%	1.6	1.6	129%	129%
47	1	907	0.00110	0.170%	0.170%	1.5	1.5	65%	65%
48	1	848	0.00118	0.180%	0.180%	1.5	1.5	66%	66%
49	1	778	0.00129	0.190%	0.190%	1.5	1.5	68%	68%
50	0	687	0.00000	0.200%	0.200%	1.4	1.4	0%	0%
51	0	608	0.00000	0.210%	0.210%	1.3	1.3	0%	0%
52	0	540	0.00000	0.220%	0.220%	1.2	1.2	0%	0%
53	0	457	0.00000	0.230%	0.230%	1.1	1.1	0%	0%
54	0	379	0.00000	0.240%	0.240%	0.9	0.9	0%	0%
55	1	319	0.00313	0.250%	0.250%	0.8	0.8	125%	125%
56	1	275	0.00364	0.260%	0.260%	0.7	0.7	140%	140%
57	0	229	0.00000	0.270%	0.270%	0.6	0.6	0%	0%
58	0	196	0.00000	0.280%	0.280%	0.5	0.5	0%	0%
59	1	164	0.00610	0.290%	0.290%	0.5	0.5	210%	210%
60	1	113	0.00885	0.300%	0.300%	0.3	0.3	295%	295%
61	0	72	0.00000	0.320%	0.320%	0.2	0.2	0%	0%
62	0	53	0.00000	0.340%	0.340%	0.2	0.2	0%	0%
63	1	0	N/A	0.360%	0.360%	0	0	0%	0%
64	0	0	N/A	0.380%	0.380%	0	0	0%	0%
65	0	0	N/A	0.400%	0.400%	0	0	0%	0%
66	0	0	N/A	0.440%	0.440%	0	0	0%	0%
67	0	0	N/A	0.480%	0.480%	0	0	0%	0%
68	0	0	N/A	0.520%	0.520%	0	0	0%	0%
69	0	0	N/A	0.560%	0.560%	0	0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	19	18,853				25.7	25.7	74%	74%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

TABLE 8B

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.030%	0.030%	0	0	0%	0%
21	0	1	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
22	0	7	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
23	0	31	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
24	0	80	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
25	0	158	0.00000	0.024%	0.024%	0.0	0.0	0%	0%
26	0	219	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
27	0	283	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
28	0	347	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
29	0	363	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
30	0	408	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
31	0	418	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
32	0	416	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
33	0	468	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
34	0	473	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
35	0	518	0.00000	0.030%	0.030%	0.2	0.2	0%	0%
36	0	529	0.00000	0.036%	0.036%	0.2	0.2	0%	0%
37	0	523	0.00000	0.042%	0.042%	0.2	0.2	0%	0%
38	0	533	0.00000	0.048%	0.048%	0.3	0.3	0%	0%
39	1	580	0.00172	0.054%	0.054%	0.3	0.3	319%	319%
40	1	652	0.00153	0.060%	0.060%	0.4	0.4	256%	256%
41	1	717	0.00139	0.066%	0.066%	0.5	0.5	211%	211%
42	0	739	0.00000	0.072%	0.072%	0.5	0.5	0%	0%
43	1	732	0.00137	0.078%	0.078%	0.6	0.6	175%	175%
44	0	754	0.00000	0.084%	0.084%	0.6	0.6	0%	0%
45	0	726	0.00000	0.090%	0.090%	0.7	0.7	0%	0%
46	0	725	0.00000	0.096%	0.096%	0.7	0.7	0%	0%
47	0	687	0.00000	0.102%	0.102%	0.7	0.7	0%	0%
48	1	635	0.00157	0.108%	0.108%	0.7	0.7	146%	146%
49	2	552	0.00362	0.114%	0.114%	0.6	0.6	318%	318%
50	1	455	0.00220	0.120%	0.120%	0.5	0.5	183%	183%
51	0	400	0.00000	0.128%	0.128%	0.5	0.5	0%	0%
52	0	339	0.00000	0.136%	0.136%	0.5	0.5	0%	0%
53	0	311	0.00000	0.144%	0.144%	0.4	0.4	0%	0%
54	0	251	0.00000	0.152%	0.152%	0.4	0.4	0%	0%
55	0	219	0.00000	0.160%	0.160%	0.4	0.4	0%	0%
56	0	176	0.00000	0.168%	0.168%	0.3	0.3	0%	0%
57	0	134	0.00000	0.176%	0.176%	0.2	0.2	0%	0%
58	0	85	0.00000	0.184%	0.184%	0.2	0.2	0%	0%
59	0	53	0.00000	0.192%	0.192%	0.1	0.1	0%	0%
60	0	45	0.00000	0.200%	0.200%	0.1	0.1	0%	0%
61	0	27	0.00000	0.210%	0.210%	0.1	0.1	0%	0%
62	0	19	0.00000	0.220%	0.220%	0.0	0.0	0%	0%
63	0	0	N/A	0.230%	0.230%	0	0	0%	0%
64	0	0	N/A	0.240%	0.240%	0	0	0%	0%
65	0	0	N/A	0.250%	0.250%	0	0	0%	0%
66	0	0	N/A	0.280%	0.280%	0	0	0%	0%
67	0	0	N/A	0.310%	0.310%	0	0	0%	0%
68	0	0	N/A	0.340%	0.340%	0	0	0%	0%
69	0	0	N/A	0.370%	0.370%	0	0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	8	15,788				11.9	11.9	67%	67%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 8C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.000%	0.000%	0	0	0%	0%
21	0	2	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	20	0.00000	0.043%	0.043%	0.0	0.0	0%	0%
23	0	74	0.00000	0.042%	0.042%	0.0	0.0	0%	0%
24	0	179	0.00000	0.041%	0.041%	0.1	0.1	0%	0%
25	0	349	0.00000	0.033%	0.033%	0.1	0.1	0%	0%
26	1	480	0.00208	0.041%	0.041%	0.2	0.2	510%	510%
27	0	608	0.00000	0.041%	0.041%	0.2	0.2	0%	0%
28	0	727	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
29	0	777	0.00000	0.041%	0.041%	0.3	0.3	0%	0%
30	1	828	0.00121	0.040%	0.040%	0.3	0.3	301%	301%
31	0	839	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
32	0	820	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
33	0	880	0.00000	0.039%	0.039%	0.3	0.3	0%	0%
34	1	910	0.00110	0.040%	0.040%	0.4	0.4	277%	277%
35	1	988	0.00101	0.040%	0.040%	0.4	0.4	256%	256%
36	1	1,024	0.00098	0.048%	0.048%	0.5	0.5	205%	205%
37	0	1,032	0.00000	0.056%	0.056%	0.6	0.6	0%	0%
38	0	1,075	0.00000	0.064%	0.064%	0.7	0.7	0%	0%
39	2	1,150	0.00174	0.072%	0.072%	0.8	0.8	242%	242%
40	2	1,293	0.00155	0.080%	0.080%	1.0	1.0	194%	194%
41	1	1,425	0.00070	0.088%	0.088%	1.3	1.3	80%	80%
42	0	1,536	0.00000	0.097%	0.097%	1.5	1.5	0%	0%
43	2	1,605	0.00125	0.106%	0.106%	1.7	1.7	117%	117%
44	1	1,651	0.00061	0.114%	0.114%	1.9	1.9	53%	53%
45	0	1,661	0.00000	0.124%	0.124%	2.1	2.1	0%	0%
46	2	1,695	0.00118	0.133%	0.133%	2.2	2.2	89%	89%
47	1	1,594	0.00063	0.141%	0.141%	2.2	2.2	45%	45%
48	2	1,483	0.00135	0.149%	0.149%	2.2	2.2	90%	90%
49	3	1,330	0.00226	0.158%	0.158%	2.1	2.1	142%	142%
50	1	1,142	0.00088	0.168%	0.168%	1.9	1.9	52%	52%
51	0	1,008	0.00000	0.177%	0.177%	1.8	1.8	0%	0%
52	0	879	0.00000	0.188%	0.188%	1.6	1.6	0%	0%
53	0	768	0.00000	0.195%	0.195%	1.5	1.5	0%	0%
54	0	630	0.00000	0.205%	0.205%	1.3	1.3	0%	0%
55	1	538	0.00186	0.213%	0.213%	1.1	1.1	87%	87%
56	1	451	0.00222	0.224%	0.224%	1.0	1.0	99%	99%
57	0	363	0.00000	0.235%	0.235%	0.9	0.9	0%	0%
58	0	281	0.00000	0.251%	0.251%	0.7	0.7	0%	0%
59	1	217	0.00461	0.266%	0.266%	0.6	0.6	173%	173%
60	1	158	0.00633	0.272%	0.272%	0.4	0.4	233%	233%
61	0	99	0.00000	0.290%	0.290%	0.3	0.3	0%	0%
62	0	72	0.00000	0.308%	0.308%	0.2	0.2	0%	0%
63	1	0	N/A	0.000%	0.000%	0	0	0%	0%
64	0	0	N/A	0.000%	0.000%	0	0	0%	0%
65	0	0	N/A	0.000%	0.000%	0	0	0%	0%
66	0	0	N/A	0.000%	0.000%	0	0	0%	0%
67	0	0	N/A	0.000%	0.000%	0	0	0%	0%
68	0	0	N/A	0.000%	0.000%	0	0	0%	0%
69	0	0	N/A	0.000%	0.000%	0	0	0%	0%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>27</b>	<b>34,641</b>				<b>37.6</b>	<b>37.6</b>	<b>72%</b>	<b>72%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	156	0.00000	0.050%	0.050%	0.1	0.1	0%	0%
25-29	1	1,571	0.00064	0.049%	0.049%	0.8	0.8	130%	130%
30-34	2	2,094	0.00096	0.050%	0.050%	1.0	1.0	191%	191%
35-39	3	2,586	0.00116	0.071%	0.071%	1.8	1.8	163%	163%
40-44	3	3,916	0.00077	0.122%	0.122%	4.8	4.8	63%	63%
45-49	5	4,438	0.00113	0.169%	0.169%	7.5	7.5	67%	67%
50-54	0	2,671	0.00000	0.217%	0.217%	5.8	5.8	0%	0%
55-59	3	1,183	0.00254	0.267%	0.267%	3.2	3.2	95%	95%
60-64	2	238	0.00840	0.315%	0.315%	0.7	0.7	267%	267%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>19</b>	<b>18,853</b>				<b>25.7</b>	<b>25.7</b>	<b>74%</b>	<b>74%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	119	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
25-29	0	1,370	0.00000	0.029%	0.029%	0.4	0.4	0%	0%
30-34	0	2,183	0.00000	0.030%	0.030%	0.7	0.7	0%	0%
35-39	1	2,683	0.00037	0.042%	0.042%	1.1	1.1	88%	88%
40-44	3	3,594	0.00083	0.072%	0.072%	2.6	2.6	115%	115%
45-49	3	3,325	0.00090	0.101%	0.101%	3.4	3.4	89%	89%
50-54	1	1,756	0.00057	0.134%	0.134%	2.3	2.3	43%	43%
55-59	0	667	0.00000	0.171%	0.171%	1.1	1.1	0%	0%
60-64	0	91	0.00000	0.207%	0.207%	0.2	0.2	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>8</b>	<b>15,788</b>				<b>11.9</b>	<b>11.9</b>	<b>67%</b>	<b>67%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	275	0.00000	0.041%	0.041%	0.1	0.1	0%	0%
25-29	1	2,941	0.00034	0.040%	0.040%	1.2	1.2	86%	86%
30-34	2	4,277	0.00047	0.040%	0.040%	1.7	1.7	118%	118%
35-39	4	5,269	0.00076	0.056%	0.056%	3.0	3.0	135%	135%
40-44	6	7,510	0.00080	0.098%	0.098%	7.4	7.4	81%	81%
45-49	8	7,763	0.00103	0.140%	0.140%	10.9	10.9	74%	74%
50-54	1	4,427	0.00023	0.184%	0.184%	8.1	8.1	12%	12%
55-59	3	1,850	0.00162	0.232%	0.232%	4.3	4.3	70%	70%
60-64	2	329	0.00608	0.285%	0.285%	0.9	0.9	213%	213%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>27</b>	<b>34,641</b>				<b>37.6</b>	<b>37.6</b>	<b>72%</b>	<b>72%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 8A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	2	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
21	0	8	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
22	0	43	0.00000	0.050%	0.050%	0.0	0.0	0%	0%
23	0	141	0.00000	0.050%	0.050%	0.1	0.1	0%	0%
24	0	243	0.00000	0.050%	0.050%	0.1	0.1	0%	0%
25	0	399	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
26	1	537	0.00186	0.050%	0.050%	0.3	0.3	372%	372%
27	0	648	0.00000	0.050%	0.050%	0.3	0.3	0%	0%
28	0	745	0.00000	0.050%	0.050%	0.4	0.4	0%	0%
29	0	850	0.00000	0.050%	0.050%	0.4	0.4	0%	0%
30	2	895	0.00223	0.050%	0.050%	0.4	0.4	447%	447%
31	0	955	0.00000	0.050%	0.050%	0.5	0.5	0%	0%
32	0	983	0.00000	0.050%	0.050%	0.5	0.5	0%	0%
33	0	1,059	0.00000	0.050%	0.050%	0.5	0.5	0%	0%
34	1	1,172	0.00085	0.050%	0.050%	0.6	0.6	171%	171%
35	1	1,294	0.00077	0.050%	0.050%	0.6	0.6	155%	155%
36	1	1,494	0.00067	0.060%	0.060%	0.9	0.9	112%	112%
37	0	1,718	0.00000	0.070%	0.070%	1.2	1.2	0%	0%
38	1	1,996	0.00050	0.080%	0.080%	1.6	1.6	63%	63%
39	4	2,295	0.00174	0.090%	0.090%	2.1	2.1	194%	194%
40	3	2,644	0.00113	0.100%	0.100%	2.6	2.6	113%	113%
41	3	2,839	0.00106	0.110%	0.110%	3.1	3.1	96%	96%
42	1	2,934	0.00034	0.120%	0.120%	3.5	3.5	28%	28%
43	1	2,914	0.00034	0.130%	0.130%	3.8	3.8	26%	26%
44	1	2,781	0.00036	0.140%	0.140%	3.9	3.9	26%	26%
45	2	2,628	0.00076	0.150%	0.150%	3.9	3.9	51%	51%
46	3	2,471	0.00121	0.160%	0.160%	4.0	4.0	76%	76%
47	1	2,289	0.00044	0.170%	0.170%	3.9	3.9	26%	26%
48	5	2,076	0.00241	0.180%	0.180%	3.7	3.7	134%	134%
49	1	1,826	0.00055	0.190%	0.190%	3.5	3.5	29%	29%
50	2	1,590	0.00126	0.200%	0.200%	3.2	3.2	63%	63%
51	1	1,367	0.00073	0.210%	0.210%	2.9	2.9	35%	35%
52	0	1,173	0.00000	0.220%	0.220%	2.6	2.6	0%	0%
53	0	957	0.00000	0.230%	0.230%	2.2	2.2	0%	0%
54	1	763	0.00131	0.240%	0.240%	1.8	1.8	55%	55%
55	2	624	0.00321	0.250%	0.250%	1.6	1.6	128%	128%
56	1	497	0.00201	0.260%	0.260%	1.3	1.3	77%	77%
57	1	400	0.00250	0.270%	0.270%	1.1	1.1	93%	93%
58	0	311	0.00000	0.280%	0.280%	0.9	0.9	0%	0%
59	1	236	0.00424	0.290%	0.290%	0.7	0.7	146%	146%
60	2	163	0.01227	0.300%	0.300%	0.5	0.5	409%	409%
61	0	102	0.00000	0.320%	0.320%	0.3	0.3	0%	0%
62	0	66	0.00000	0.340%	0.340%	0.2	0.2	0%	0%
63	1	0	N/A	0.360%	0.360%	0	0	0%	0%
64	0	0	N/A	0.380%	0.380%	0	0	0%	0%
65	0	0	N/A	0.400%	0.400%	0	0	0%	0%
66	0	0	N/A	0.440%	0.440%	0	0	0%	0%
67	0	0	N/A	0.480%	0.480%	0	0	0%	0%
68	0	0	N/A	0.520%	0.520%	0	0	0%	0%
69	0	0	N/A	0.560%	0.560%	0	0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	44	51,128				65.9	65.9	67%	67%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 8B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
21	0	5	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
22	0	28	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
23	0	110	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
24	0	255	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
25	1	405	0.00247	0.024%	0.024%	0.1	0.1	1029%	1029%
26	0	512	0.00000	0.030%	0.030%	0.2	0.2	0%	0%
27	0	661	0.00000	0.030%	0.030%	0.2	0.2	0%	0%
28	0	775	0.00000	0.030%	0.030%	0.2	0.2	0%	0%
29	0	866	0.00000	0.030%	0.030%	0.3	0.3	0%	0%
30	0	944	0.00000	0.030%	0.030%	0.3	0.3	0%	0%
31	0	1,014	0.00000	0.030%	0.030%	0.3	0.3	0%	0%
32	0	1,072	0.00000	0.030%	0.030%	0.3	0.3	0%	0%
33	0	1,184	0.00000	0.030%	0.030%	0.4	0.4	0%	0%
34	0	1,268	0.00000	0.030%	0.030%	0.4	0.4	0%	0%
35	0	1,388	0.00000	0.030%	0.030%	0.4	0.4	0%	0%
36	1	1,488	0.00067	0.036%	0.036%	0.5	0.5	187%	187%
37	0	1,617	0.00000	0.042%	0.042%	0.7	0.7	0%	0%
38	1	1,788	0.00056	0.048%	0.048%	0.9	0.9	117%	117%
39	2	1,906	0.00105	0.054%	0.054%	1.0	1.0	194%	194%
40	1	2,078	0.00048	0.060%	0.060%	1.2	1.2	80%	80%
41	1	2,194	0.00046	0.066%	0.066%	1.4	1.4	69%	69%
42	3	2,245	0.00134	0.072%	0.072%	1.6	1.6	186%	186%
43	1	2,159	0.00046	0.078%	0.078%	1.7	1.7	59%	59%
44	2	2,063	0.00097	0.084%	0.084%	1.7	1.7	115%	115%
45	1	1,889	0.00053	0.090%	0.090%	1.7	1.7	59%	59%
46	0	1,735	0.00000	0.096%	0.096%	1.7	1.7	0%	0%
47	0	1,568	0.00000	0.102%	0.102%	1.6	1.6	0%	0%
48	2	1,378	0.00145	0.108%	0.108%	1.5	1.5	134%	134%
49	3	1,222	0.00245	0.114%	0.114%	1.4	1.4	215%	215%
50	1	1,031	0.00097	0.120%	0.120%	1.2	1.2	81%	81%
51	0	892	0.00000	0.128%	0.128%	1.1	1.1	0%	0%
52	0	706	0.00000	0.136%	0.136%	1.0	1.0	0%	0%
53	1	584	0.00171	0.144%	0.144%	0.8	0.8	119%	119%
54	0	462	0.00000	0.152%	0.152%	0.7	0.7	0%	0%
55	1	360	0.00278	0.160%	0.160%	0.6	0.6	174%	174%
56	0	269	0.00000	0.168%	0.168%	0.5	0.5	0%	0%
57	0	193	0.00000	0.176%	0.176%	0.3	0.3	0%	0%
58	1	129	0.00775	0.184%	0.184%	0.2	0.2	421%	421%
59	0	82	0.00000	0.192%	0.192%	0.2	0.2	0%	0%
60	0	57	0.00000	0.200%	0.200%	0.1	0.1	0%	0%
61	0	33	0.00000	0.210%	0.210%	0.1	0.1	0%	0%
62	0	25	0.00000	0.220%	0.220%	0.1	0.1	0%	0%
63	0	0	N/A	0.230%	0.230%	0	0	0%	0%
64	0	0	N/A	0.240%	0.240%	0	0	0%	0%
65	0	0	N/A	0.250%	0.250%	0	0	0%	0%
66	0	0	N/A	0.280%	0.280%	0	0	0%	0%
67	0	0	N/A	0.310%	0.310%	0	0	0%	0%
68	0	0	N/A	0.340%	0.340%	0	0	0%	0%
69	0	0	N/A	0.370%	0.370%	0	0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	23	40,641				28.7	28.7	80%	80%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 8C

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	3	0.00000	0.043%	0.043%	0.0	0.0	0%	0%
21	0	13	0.00000	0.042%	0.042%	0.0	0.0	0%	0%
22	0	71	0.00000	0.042%	0.042%	0.0	0.0	0%	0%
23	0	251	0.00000	0.041%	0.041%	0.1	0.1	0%	0%
24	0	498	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
25	1	804	0.00124	0.032%	0.032%	0.3	0.3	389%	389%
26	1	1,049	0.00095	0.040%	0.040%	0.4	0.4	237%	237%
27	0	1,309	0.00000	0.040%	0.040%	0.5	0.5	0%	0%
28	0	1,520	0.00000	0.040%	0.040%	0.6	0.6	0%	0%
29	0	1,716	0.00000	0.040%	0.040%	0.7	0.7	0%	0%
30	2	1,839	0.00109	0.040%	0.040%	0.7	0.7	274%	274%
31	0	1,969	0.00000	0.040%	0.040%	0.8	0.8	0%	0%
32	0	2,055	0.00000	0.040%	0.040%	0.8	0.8	0%	0%
33	0	2,243	0.00000	0.039%	0.039%	0.9	0.9	0%	0%
34	1	2,440	0.00041	0.040%	0.040%	1.0	1.0	103%	103%
35	1	2,682	0.00037	0.040%	0.040%	1.1	1.1	94%	94%
36	2	2,982	0.00067	0.048%	0.048%	1.4	1.4	140%	140%
37	0	3,335	0.00000	0.056%	0.056%	1.9	1.9	0%	0%
38	2	3,784	0.00053	0.065%	0.065%	2.5	2.5	81%	81%
39	6	4,201	0.00143	0.074%	0.074%	3.1	3.1	194%	194%
40	4	4,722	0.00085	0.082%	0.082%	3.9	3.9	103%	103%
41	4	5,033	0.00079	0.091%	0.091%	4.6	4.6	88%	88%
42	4	5,179	0.00077	0.099%	0.099%	5.1	5.1	78%	78%
43	2	5,073	0.00039	0.108%	0.108%	5.5	5.5	37%	37%
44	3	4,844	0.00062	0.116%	0.116%	5.6	5.6	53%	53%
45	3	4,517	0.00066	0.125%	0.125%	5.6	5.6	53%	53%
46	3	4,206	0.00071	0.134%	0.134%	5.6	5.6	53%	53%
47	1	3,857	0.00026	0.142%	0.142%	5.5	5.5	18%	18%
48	7	3,454	0.00203	0.151%	0.151%	5.2	5.2	134%	134%
49	4	3,048	0.00131	0.160%	0.160%	4.9	4.9	82%	82%
50	3	2,621	0.00114	0.169%	0.169%	4.4	4.4	68%	68%
51	1	2,259	0.00044	0.178%	0.178%	4.0	4.0	25%	25%
52	0	1,879	0.00000	0.188%	0.188%	3.5	3.5	0%	0%
53	1	1,541	0.00065	0.197%	0.197%	3.0	3.0	33%	33%
54	1	1,225	0.00082	0.207%	0.207%	2.5	2.5	39%	39%
55	3	984	0.00305	0.217%	0.217%	2.1	2.1	140%	140%
56	1	766	0.00131	0.228%	0.228%	1.7	1.7	57%	57%
57	1	593	0.00169	0.239%	0.239%	1.4	1.4	70%	70%
58	1	440	0.00227	0.252%	0.252%	1.1	1.1	90%	90%
59	1	318	0.00314	0.265%	0.265%	0.8	0.8	119%	119%
60	2	220	0.00909	0.274%	0.274%	0.6	0.6	332%	332%
61	0	135	0.00000	0.293%	0.293%	0.4	0.4	0%	0%
62	0	91	0.00000	0.307%	0.307%	0.3	0.3	0%	0%
63	1	0	N/A	0.000%	0.000%	0	0	0%	0%
64	0	0	N/A	0.000%	0.000%	0	0	0%	0%
65	0	0	N/A	0.000%	0.000%	0	0	0%	0%
66	0	0	N/A	0.000%	0.000%	0	0	0%	0%
67	0	0	N/A	0.000%	0.000%	0	0	0%	0%
68	0	0	N/A	0.000%	0.000%	0	0	0%	0%
69	0	0	N/A	0.000%	0.000%	0	0	0%	0%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	67	91,769				94.5	94.5	71%	71%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 8A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	437	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
25-29	1	3,179	0.00031	0.049%	0.049%	1.5	1.5	65%	65%
30-34	3	5,064	0.00059	0.050%	0.050%	2.5	2.5	118%	118%
35-39	7	8,797	0.00080	0.073%	0.073%	6.4	6.4	109%	109%
40-44	9	14,112	0.00064	0.120%	0.120%	17.0	17.0	53%	53%
45-49	12	11,290	0.00106	0.168%	0.168%	19.0	19.0	63%	63%
50-54	4	5,850	0.00068	0.216%	0.216%	12.7	12.7	32%	32%
55-59	5	2,068	0.00242	0.265%	0.265%	5.5	5.5	91%	91%
60-64	3	331	0.00906	0.314%	0.314%	1.0	1.0	289%	289%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>44</b>	<b>51,128</b>				<b>65.9</b>	<b>65.9</b>	<b>67%</b>	<b>67%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	399	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
25-29	1	3,219	0.00031	0.029%	0.029%	0.9	0.9	106%	106%
30-34	0	5,482	0.00000	0.030%	0.030%	1.6	1.6	0%	0%
35-39	4	8,187	0.00049	0.043%	0.043%	3.5	3.5	114%	114%
40-44	8	10,739	0.00074	0.072%	0.072%	7.7	7.7	104%	104%
45-49	6	7,792	0.00077	0.101%	0.101%	7.8	7.8	76%	76%
50-54	2	3,675	0.00054	0.133%	0.133%	4.9	4.9	41%	41%
55-59	2	1,033	0.00194	0.171%	0.171%	1.8	1.8	113%	113%
60-64	0	115	0.00000	0.207%	0.207%	0.2	0.2	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>23</b>	<b>40,641</b>				<b>28.7</b>	<b>28.7</b>	<b>80%</b>	<b>80%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	836	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
25-29	2	6,398	0.00031	0.039%	0.039%	2.5	2.5	80%	80%
30-34	3	10,546	0.00028	0.040%	0.040%	4.2	4.2	72%	72%
35-39	11	16,984	0.00065	0.058%	0.058%	9.9	9.9	111%	111%
40-44	17	24,851	0.00068	0.099%	0.099%	24.7	24.7	69%	69%
45-49	18	19,082	0.00094	0.141%	0.141%	26.8	26.8	67%	67%
50-54	6	9,525	0.00063	0.184%	0.184%	17.5	17.5	34%	34%
55-59	7	3,101	0.00226	0.234%	0.234%	7.2	7.2	97%	97%
60-64	3	446	0.00673	0.287%	0.287%	1.3	1.3	235%	235%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>67</b>	<b>91,769</b>				<b>94.5</b>	<b>94.5</b>	<b>71%</b>	<b>71%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 8D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	10,080	12	9.8	122%	0.119%	0.097%
2005	9,682	6	9.7	62%	0.062%	0.100%
2006	9,464	6	9.7	62%	0.063%	0.103%
2007	9,444	1	9.8	10%	0.011%	0.104%
2008	9,327	5	9.7	51%	0.054%	0.104%
2009	9,131	10	9.7	103%	0.110%	0.106%
2010	9,183	9	9.9	91%	0.098%	0.108%
2011	8,823	11	9.8	112%	0.125%	0.111%
2012	8,378	6	9.5	63%	0.072%	0.113%
2013	8,257	1	9.4	11%	0.012%	0.114%
Total	91,769	67	97.1	69%	0.073%	0.106%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 9A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.010%	0.010%	0	0	0%	0%
21	0	0	N/A	0.010%	0.010%	0	0	0%	0%
22	0	13	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
23	0	63	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
24	0	149	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25	0	298	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
26	0	421	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
27	0	538	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
28	0	659	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
29	0	714	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
30	0	766	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
31	0	785	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
32	0	768	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
33	0	833	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
34	0	857	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
35	0	956	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
36	0	992	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
37	0	1,008	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
38	0	1,047	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
39	0	1,121	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
40	0	1,268	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
41	0	1,406	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
42	0	1,515	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
43	0	1,590	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
44	0	1,642	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
45	0	1,653	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
46	0	1,691	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
47	0	1,588	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
48	0	1,478	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
49	0	1,328	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
50	0	1,139	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
51	0	1,006	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
52	0	879	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
53	0	765	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
54	0	627	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
55	0	535	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
56	0	451	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
57	0	363	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
58	0	281	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
59	0	217	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
60	0	158	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
61	0	99	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
62	0	72	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
63	0	0	N/A	0.010%	0.010%	0	0	0%	0%
64	0	0	N/A	0.010%	0.010%	0	0	0%	0%
65	0	0	N/A	0.010%	0.010%	0	0	0%	0%
66	0	0	N/A	0.010%	0.010%	0	0	0%	0%
67	0	0	N/A	0.010%	0.010%	0	0	0%	0%
68	0	0	N/A	0.010%	0.010%	0	0	0%	0%
69	0	0	N/A	0.010%	0.010%	0	0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	0	33,739				3.4	3.4	0%	0%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	225	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25-29	0	2,630	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
30-34	0	4,009	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
35-39	0	5,124	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
40-44	0	7,421	0.00000	0.010%	0.010%	0.7	0.7	0%	0%
45-49	0	7,738	0.00000	0.010%	0.010%	0.8	0.8	0%	0%
50-54	0	4,416	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
55-59	0	1,847	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
60-64	0	329	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>0</b>	<b>33,739</b>				<b>3.4</b>	<b>3.4</b>	<b>0%</b>	<b>0%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 9A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.010%	0.010%	0	0	0%	0%
21	0	0	N/A	0.010%	0.010%	0	0	0%	0%
22	0	44	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
23	0	185	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
24	0	371	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25	0	638	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
26	0	863	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
27	0	1,099	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
28	0	1,330	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
29	0	1,521	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
30	0	1,653	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
31	0	1,801	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
32	0	1,908	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
33	0	2,100	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
34	0	2,320	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
35	0	2,574	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
36	0	2,875	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
37	0	3,244	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
38	0	3,697	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
39	0	4,124	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
40	0	4,656	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
41	0	4,977	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
42	0	5,131	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
43	0	5,037	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
44	0	4,817	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
45	0	4,497	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
46	0	4,190	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
47	0	3,839	0.00000	0.010%	0.010%	0.4	0.4	0%	0%
48	0	3,442	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
49	0	3,036	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
50	0	2,613	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
51	0	2,252	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
52	0	1,874	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
53	0	1,537	0.00000	0.010%	0.010%	0.2	0.2	0%	0%
54	0	1,221	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
55	0	980	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
56	0	765	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
57	0	592	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
58	0	439	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
59	0	318	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
60	0	220	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
61	0	135	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
62	0	91	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
63	0	0	N/A	0.010%	0.010%	0	0	0%	0%
64	0	0	N/A	0.010%	0.010%	0	0	0%	0%
65	0	0	N/A	0.010%	0.010%	0	0	0%	0%
66	0	0	N/A	0.010%	0.010%	0	0	0%	0%
67	0	0	N/A	0.010%	0.010%	0	0	0%	0%
68	0	0	N/A	0.010%	0.010%	0	0	0%	0%
69	0	0	N/A	0.010%	0.010%	0	0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0			0.000%	0	0	0%	0%
Total	0	89,006				8.9	8.9	0%	0%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	600	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
25-29	0	5,451	0.00000	0.010%	0.010%	0.5	0.5	0%	0%
30-34	0	9,782	0.00000	0.010%	0.010%	1.0	1.0	0%	0%
35-39	0	16,514	0.00000	0.010%	0.010%	1.7	1.7	0%	0%
40-44	0	24,618	0.00000	0.010%	0.010%	2.5	2.5	0%	0%
45-49	0	19,004	0.00000	0.010%	0.010%	1.9	1.9	0%	0%
50-54	0	9,497	0.00000	0.010%	0.010%	0.9	0.9	0%	0%
55-59	0	3,094	0.00000	0.010%	0.010%	0.3	0.3	0%	0%
60-64	0	446	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>0</b>	<b>89,006</b>				<b>8.9</b>	<b>8.9</b>	<b>0%</b>	<b>0%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 9B		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	9,738	0	0.9	0%	0.000%	0.009%
2005	9,342	0	0.9	0%	0.000%	0.009%
2006	9,141	0	0.9	0%	0.000%	0.009%
2007	9,186	0	0.9	0%	0.000%	0.009%
2008	9,012	0	0.9	0%	0.000%	0.009%
2009	8,848	0	0.8	0%	0.000%	0.009%
2010	8,887	0	0.8	0%	0.000%	0.009%
2011	8,551	0	0.8	0%	0.000%	0.010%
2012	8,167	0	0.8	0%	0.000%	0.010%
2013	8,134	0	0.8	0%	0.000%	0.009%
Total	89,006	0	8.4	0%	0.000%	0.009%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.10%	0	0	0%	0%
21	0	0	N/A	0.10%	0.10%	0	0	0%	0%
22	0	0	N/A	0.10%	0.10%	0	0	0%	0%
23	0	0	N/A	0.10%	0.10%	0	0	0%	0%
24	0	0	N/A	0.10%	0.10%	0	0	0%	0%
25	0	0	N/A	0.10%	0.10%	0	0	0%	0%
26	0	0	N/A	0.10%	0.10%	0	0	0%	0%
27	0	0	N/A	0.10%	0.10%	0	0	0%	0%
28	0	0	N/A	0.10%	0.10%	0	0	0%	0%
29	0	0	N/A	0.10%	0.10%	0	0	0%	0%
30	0	0	N/A	0.10%	0.10%	0	0	0%	0%
31	0	7	0.0000	0.12%	0.12%	0.0	0.0	0%	0%
32	0	20	0.0000	0.14%	0.14%	0.0	0.0	0%	0%
33	0	58	0.0000	0.16%	0.16%	0.1	0.1	0%	0%
34	1	102	0.0098	0.18%	0.18%	0.2	0.2	545%	545%
35	0	157	0.0000	0.20%	0.20%	0.3	0.3	0%	0%
36	0	195	0.0000	0.22%	0.22%	0.4	0.4	0%	0%
37	0	228	0.0000	0.24%	0.24%	0.5	0.5	0%	0%
38	0	301	0.0000	0.26%	0.26%	0.8	0.8	0%	0%
39	0	403	0.0000	0.28%	0.28%	1.1	1.1	0%	0%
40	1	563	0.0018	0.30%	0.30%	1.7	1.7	59%	59%
41	0	706	0.0000	0.32%	0.32%	2.3	2.3	0%	0%
42	1	806	0.0012	0.34%	0.34%	2.7	2.7	36%	36%
43	0	896	0.0000	0.36%	0.36%	3.2	3.2	0%	0%
44	0	932	0.0000	0.38%	0.38%	3.5	3.5	0%	0%
45	1	891	0.0011	0.40%	0.40%	3.6	3.6	28%	28%
46	0	840	0.0000	0.42%	0.42%	3.5	3.5	0%	0%
47	1	796	0.0013	0.44%	0.44%	3.5	3.5	29%	29%
48	1	715	0.0014	0.46%	0.46%	3.3	3.3	30%	30%
49	2	635	0.0031	0.48%	0.48%	3.0	3.0	66%	66%
50	0	568	0.0000	0.50%	0.50%	2.8	2.8	0%	0%
51	2	495	0.0040	0.52%	0.52%	2.6	2.6	78%	78%
52	3	418	0.0072	0.54%	0.54%	2.3	2.3	133%	133%
53	0	350	0.0000	0.56%	0.56%	2.0	2.0	0%	0%
54	1	314	0.0032	0.58%	0.58%	1.8	1.8	55%	55%
55	0	259	0.0000	0.60%	0.60%	1.6	1.6	0%	0%
56	0	224	0.0000	0.62%	0.62%	1.4	1.4	0%	0%
57	0	188	0.0000	0.64%	0.64%	1.2	1.2	0%	0%
58	0	129	0.0000	0.66%	0.66%	0.9	0.9	0%	0%
59	0	88	0.0000	0.68%	0.68%	0.6	0.6	0%	0%
60	0	61	0.0000	0.70%	0.70%	0.4	0.4	0%	0%
61	0	33	0.0000	0.72%	0.72%	0.2	0.2	0%	0%
62	0	21	0.0000	0.74%	0.74%	0.2	0.2	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>14</b>	<b>12,399</b>				<b>51.8</b>	<b>51.8</b>	<b>27%</b>	<b>27%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.10%	0	0	0%	0%
21	0	0	N/A	0.10%	0.10%	0	0	0%	0%
22	0	0	N/A	0.10%	0.10%	0	0	0%	0%
23	0	0	N/A	0.10%	0.10%	0	0	0%	0%
24	0	0	N/A	0.10%	0.10%	0	0	0%	0%
25	0	0	N/A	0.10%	0.10%	0	0	0%	0%
26	0	0	N/A	0.10%	0.10%	0	0	0%	0%
27	0	0	N/A	0.10%	0.10%	0	0	0%	0%
28	0	0	N/A	0.10%	0.10%	0	0	0%	0%
29	0	0	N/A	0.10%	0.10%	0	0	0%	0%
30	0	3	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
31	0	4	0.0000	0.12%	0.12%	0.0	0.0	0%	0%
32	0	39	0.0000	0.14%	0.14%	0.1	0.1	0%	0%
33	0	78	0.0000	0.16%	0.16%	0.1	0.1	0%	0%
34	0	108	0.0000	0.18%	0.18%	0.2	0.2	0%	0%
35	0	128	0.0000	0.20%	0.20%	0.3	0.3	0%	0%
36	1	179	0.0056	0.22%	0.22%	0.4	0.4	254%	254%
37	1	241	0.0041	0.24%	0.24%	0.6	0.6	173%	173%
38	1	327	0.0031	0.26%	0.26%	0.9	0.9	118%	118%
39	1	421	0.0024	0.28%	0.28%	1.2	1.2	85%	85%
40	1	511	0.0020	0.30%	0.30%	1.5	1.5	65%	65%
41	0	586	0.0000	0.32%	0.32%	1.9	1.9	0%	0%
42	1	657	0.0015	0.34%	0.34%	2.2	2.2	45%	45%
43	2	675	0.0030	0.36%	0.36%	2.4	2.4	82%	82%
44	5	731	0.0068	0.38%	0.38%	2.8	2.8	180%	180%
45	3	709	0.0042	0.40%	0.40%	2.8	2.8	106%	106%
46	2	656	0.0030	0.42%	0.42%	2.8	2.8	73%	73%
47	1	591	0.0017	0.44%	0.44%	2.6	2.6	38%	38%
48	2	516	0.0039	0.46%	0.46%	2.4	2.4	84%	84%
49	2	449	0.0045	0.48%	0.48%	2.2	2.2	93%	93%
50	1	384	0.0026	0.50%	0.50%	1.9	1.9	52%	52%
51	0	357	0.0000	0.52%	0.52%	1.9	1.9	0%	0%
52	2	294	0.0068	0.54%	0.54%	1.6	1.6	126%	126%
53	0	253	0.0000	0.56%	0.56%	1.4	1.4	0%	0%
54	0	203	0.0000	0.58%	0.58%	1.2	1.2	0%	0%
55	0	155	0.0000	0.60%	0.60%	0.9	0.9	0%	0%
56	1	124	0.0081	0.62%	0.62%	0.8	0.8	130%	130%
57	1	76	0.0132	0.64%	0.64%	0.5	0.5	206%	206%
58	1	57	0.0175	0.66%	0.66%	0.4	0.4	266%	266%
59	0	37	0.0000	0.68%	0.68%	0.3	0.3	0%	0%
60	0	27	0.0000	0.70%	0.70%	0.2	0.2	0%	0%
61	0	15	0.0000	0.72%	0.72%	0.1	0.1	0%	0%
62	0	7	0.0000	0.74%	0.74%	0.1	0.1	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>29</b>	<b>9,598</b>				<b>38.3</b>	<b>38.3</b>	<b>76%</b>	<b>76%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 10C**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	0	N/A	0.00%	0.00%	0	0	0%	0%
28	0	0	N/A	0.00%	0.00%	0	0	0%	0%
29	0	0	N/A	0.00%	0.00%	0	0	0%	0%
30	0	3	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
31	0	11	0.0000	0.12%	0.12%	0.0	0.0	0%	0%
32	0	59	0.0000	0.14%	0.14%	0.1	0.1	0%	0%
33	0	136	0.0000	0.16%	0.16%	0.2	0.2	0%	0%
34	1	210	0.0048	0.18%	0.18%	0.4	0.4	265%	265%
35	0	285	0.0000	0.20%	0.20%	0.6	0.6	0%	0%
36	1	374	0.0027	0.22%	0.22%	0.8	0.8	122%	122%
37	1	469	0.0021	0.24%	0.24%	1.1	1.1	89%	89%
38	1	628	0.0016	0.26%	0.26%	1.6	1.6	61%	61%
39	1	824	0.0012	0.28%	0.28%	2.3	2.3	43%	43%
40	2	1,074	0.0019	0.30%	0.30%	3.2	3.2	62%	62%
41	0	1,292	0.0000	0.32%	0.32%	4.1	4.1	0%	0%
42	2	1,463	0.0014	0.34%	0.34%	5.0	5.0	40%	40%
43	2	1,571	0.0013	0.36%	0.36%	5.7	5.7	35%	35%
44	5	1,663	0.0030	0.38%	0.38%	6.3	6.3	79%	79%
45	4	1,600	0.0025	0.40%	0.40%	6.4	6.4	63%	63%
46	2	1,496	0.0013	0.42%	0.42%	6.3	6.3	32%	32%
47	2	1,387	0.0014	0.44%	0.44%	6.1	6.1	33%	33%
48	3	1,231	0.0024	0.46%	0.46%	5.7	5.7	53%	53%
49	4	1,084	0.0037	0.48%	0.48%	5.2	5.2	77%	77%
50	1	952	0.0011	0.50%	0.50%	4.8	4.8	21%	21%
51	2	852	0.0023	0.52%	0.52%	4.4	4.4	45%	45%
52	5	712	0.0070	0.54%	0.54%	3.8	3.8	130%	130%
53	0	603	0.0000	0.56%	0.56%	3.4	3.4	0%	0%
54	1	517	0.0019	0.58%	0.58%	3.0	3.0	33%	33%
55	0	414	0.0000	0.60%	0.60%	2.5	2.5	0%	0%
56	1	348	0.0029	0.62%	0.62%	2.2	2.2	46%	46%
57	1	264	0.0038	0.64%	0.64%	1.7	1.7	59%	59%
58	1	186	0.0054	0.66%	0.66%	1.2	1.2	81%	81%
59	0	125	0.0000	0.68%	0.68%	0.9	0.9	0%	0%
60	0	88	0.0000	0.70%	0.70%	0.6	0.6	0%	0%
61	0	48	0.0000	0.72%	0.72%	0.3	0.3	0%	0%
62	0	28	0.0000	0.74%	0.74%	0.2	0.2	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	43	21,997				90.1	90.1	48%	48%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 10A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	1	187	0.0053	0.17%	0.17%	0.3	0.3	320%	320%
35-39	0	1,284	0.0000	0.25%	0.25%	3.2	3.2	0%	0%
40-44	2	3,903	0.0005	0.34%	0.34%	13.5	13.5	15%	15%
45-49	5	3,877	0.0013	0.44%	0.44%	16.9	16.9	30%	30%
50-54	6	2,145	0.0028	0.53%	0.53%	11.5	11.5	52%	52%
55-59	0	888	0.0000	0.63%	0.63%	5.6	5.6	0%	0%
60-64	0	115	0.0000	0.71%	0.71%	0.8	0.8	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>14</b>	<b>12,399</b>				<b>51.8</b>	<b>51.8</b>	<b>27%</b>	<b>27%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	0	232	0.0000	0.16%	0.16%	0.4	0.4	0%	0%
35-39	4	1,296	0.0031	0.25%	0.25%	3.3	3.3	123%	123%
40-44	9	3,160	0.0028	0.34%	0.34%	10.8	10.8	83%	83%
45-49	10	2,921	0.0034	0.44%	0.44%	12.7	12.7	79%	79%
50-54	3	1,491	0.0020	0.53%	0.53%	8.0	8.0	38%	38%
55-59	3	449	0.0067	0.63%	0.63%	2.8	2.8	107%	107%
60-64	0	49	0.0000	0.71%	0.71%	0.3	0.3	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
Total	29	9,598				38.3	38.3	76%	76%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	1	419	0.0024	0.17%	0.17%	0.7	0.7	144%	144%
35-39	4	2,580	0.0016	0.25%	0.25%	6.5	6.5	62%	62%
40-44	11	7,063	0.0016	0.34%	0.34%	24.3	24.3	45%	45%
45-49	15	6,798	0.0022	0.44%	0.44%	29.7	29.7	51%	51%
50-54	9	3,636	0.0025	0.53%	0.53%	19.4	19.4	46%	46%
55-59	3	1,337	0.0022	0.63%	0.63%	8.4	8.4	36%	36%
60-64	0	164	0.0000	0.71%	0.71%	1.2	1.2	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>43</b>	<b>21,997</b>				<b>90.1</b>	<b>90.1</b>	<b>48%</b>	<b>48%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

TABLE 10A				8-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.10%	0	0	0%	0%
21	0	0	N/A	0.10%	0.10%	0	0	0%	0%
22	0	0	N/A	0.10%	0.10%	0	0	0%	0%
23	0	0	N/A	0.10%	0.10%	0	0	0%	0%
24	0	0	N/A	0.10%	0.10%	0	0	0%	0%
25	0	0	N/A	0.10%	0.10%	0	0	0%	0%
26	0	0	N/A	0.10%	0.10%	0	0	0%	0%
27	0	0	N/A	0.10%	0.10%	0	0	0%	0%
28	0	0	N/A	0.10%	0.10%	0	0	0%	0%
29	0	1	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
30	0	5	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
31	0	20	0.0000	0.12%	0.12%	0.0	0.0	0%	0%
32	0	50	0.0000	0.14%	0.14%	0.1	0.1	0%	0%
33	0	120	0.0000	0.16%	0.16%	0.2	0.2	0%	0%
34	1	211	0.0047	0.18%	0.18%	0.4	0.4	263%	263%
35	0	366	0.0000	0.20%	0.20%	0.7	0.7	0%	0%
36	0	578	0.0000	0.22%	0.22%	1.3	1.3	0%	0%
37	1	820	0.0012	0.24%	0.24%	2.0	2.0	51%	51%
38	2	1,110	0.0018	0.26%	0.26%	2.9	2.9	69%	69%
39	1	1,441	0.0007	0.28%	0.28%	4.0	4.0	25%	25%
40	5	1,809	0.0028	0.30%	0.30%	5.4	5.4	92%	92%
41	2	2,028	0.0010	0.32%	0.32%	6.5	6.5	31%	31%
42	6	2,156	0.0028	0.34%	0.34%	7.3	7.3	82%	82%
43	3	2,154	0.0014	0.36%	0.36%	7.8	7.8	39%	39%
44	5	2,032	0.0025	0.38%	0.38%	7.7	7.7	65%	65%
45	3	1,895	0.0016	0.40%	0.40%	7.6	7.6	40%	40%
46	1	1,750	0.0006	0.42%	0.42%	7.4	7.4	14%	14%
47	4	1,599	0.0025	0.44%	0.44%	7.0	7.0	57%	57%
48	2	1,421	0.0014	0.46%	0.46%	6.5	6.5	31%	31%
49	2	1,262	0.0016	0.48%	0.48%	6.1	6.1	33%	33%
50	1	1,101	0.0009	0.50%	0.50%	5.5	5.5	18%	18%
51	3	934	0.0032	0.52%	0.52%	4.9	4.9	62%	62%
52	5	796	0.0063	0.54%	0.54%	4.3	4.3	116%	116%
53	1	653	0.0015	0.56%	0.56%	3.7	3.7	27%	27%
54	1	520	0.0019	0.58%	0.58%	3.0	3.0	33%	33%
55	0	406	0.0000	0.60%	0.60%	2.4	2.4	0%	0%
56	1	318	0.0031	0.62%	0.62%	2.0	2.0	51%	51%
57	0	254	0.0000	0.64%	0.64%	1.6	1.6	0%	0%
58	0	173	0.0000	0.66%	0.66%	1.1	1.1	0%	0%
59	1	116	0.0086	0.68%	0.68%	0.8	0.8	127%	127%
60	0	77	0.0000	0.70%	0.70%	0.5	0.5	0%	0%
61	0	39	0.0000	0.72%	0.72%	0.3	0.3	0%	0%
62	0	24	0.0000	0.74%	0.74%	0.2	0.2	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>51</b>	<b>28,239</b>				<b>111.1</b>	<b>111.1</b>	<b>46%</b>	<b>46%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.10%	0.10%	0	0	0%	0%
21	0	0	N/A	0.10%	0.10%	0	0	0%	0%
22	0	0	N/A	0.10%	0.10%	0	0	0%	0%
23	0	0	N/A	0.10%	0.10%	0	0	0%	0%
24	0	0	N/A	0.10%	0.10%	0	0	0%	0%
25	0	0	N/A	0.10%	0.10%	0	0	0%	0%
26	0	0	N/A	0.10%	0.10%	0	0	0%	0%
27	0	0	N/A	0.10%	0.10%	0	0	0%	0%
28	0	0	N/A	0.10%	0.10%	0	0	0%	0%
29	0	0	N/A	0.10%	0.10%	0	0	0%	0%
30	0	3	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
31	0	16	0.0000	0.12%	0.12%	0.0	0.0	0%	0%
32	0	62	0.0000	0.14%	0.14%	0.1	0.1	0%	0%
33	1	117	0.0085	0.16%	0.16%	0.2	0.2	534%	534%
34	0	205	0.0000	0.18%	0.18%	0.4	0.4	0%	0%
35	0	324	0.0000	0.20%	0.20%	0.6	0.6	0%	0%
36	3	503	0.0060	0.22%	0.22%	1.1	1.1	271%	271%
37	2	674	0.0030	0.24%	0.24%	1.6	1.6	124%	124%
38	5	887	0.0056	0.26%	0.26%	2.3	2.3	217%	217%
39	6	1,075	0.0056	0.28%	0.28%	3.0	3.0	199%	199%
40	6	1,295	0.0046	0.30%	0.30%	3.9	3.9	154%	154%
41	1	1,429	0.0007	0.32%	0.32%	4.6	4.6	22%	22%
42	4	1,513	0.0026	0.34%	0.34%	5.1	5.1	78%	78%
43	4	1,480	0.0027	0.36%	0.36%	5.3	5.3	75%	75%
44	7	1,453	0.0048	0.38%	0.38%	5.5	5.5	127%	127%
45	4	1,339	0.0030	0.40%	0.40%	5.4	5.4	75%	75%
46	8	1,193	0.0067	0.42%	0.42%	5.0	5.0	160%	160%
47	1	1,089	0.0009	0.44%	0.44%	4.8	4.8	21%	21%
48	3	938	0.0032	0.46%	0.46%	4.3	4.3	70%	70%
49	3	838	0.0036	0.48%	0.48%	4.0	4.0	75%	75%
50	1	726	0.0014	0.50%	0.50%	3.6	3.6	28%	28%
51	5	640	0.0078	0.52%	0.52%	3.3	3.3	150%	150%
52	3	512	0.0059	0.54%	0.54%	2.8	2.8	109%	109%
53	2	402	0.0050	0.56%	0.56%	2.3	2.3	89%	89%
54	1	305	0.0033	0.58%	0.58%	1.8	1.8	57%	57%
55	0	216	0.0000	0.60%	0.60%	1.3	1.3	0%	0%
56	1	167	0.0060	0.62%	0.62%	1.0	1.0	97%	97%
57	1	106	0.0094	0.64%	0.64%	0.7	0.7	147%	147%
58	1	68	0.0147	0.66%	0.66%	0.4	0.4	223%	223%
59	1	43	0.0233	0.68%	0.68%	0.3	0.3	342%	342%
60	0	32	0.0000	0.70%	0.70%	0.2	0.2	0%	0%
61	0	19	0.0000	0.72%	0.72%	0.1	0.1	0%	0%
62	0	10	0.0000	0.74%	0.74%	0.1	0.1	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>74</b>	<b>19,679</b>				<b>75.2</b>	<b>75.2</b>	<b>98%</b>	<b>98%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 10C**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	0	N/A	0.00%	0.00%	0	0	0%	0%
28	0	0	N/A	0.00%	0.00%	0	0	0%	0%
29	0	1	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
30	0	8	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
31	0	36	0.0000	0.12%	0.12%	0.0	0.0	0%	0%
32	0	112	0.0000	0.14%	0.14%	0.2	0.2	0%	0%
33	1	237	0.0042	0.16%	0.16%	0.4	0.4	264%	264%
34	1	416	0.0024	0.18%	0.18%	0.7	0.7	134%	134%
35	0	690	0.0000	0.20%	0.20%	1.4	1.4	0%	0%
36	3	1,081	0.0028	0.22%	0.22%	2.4	2.4	126%	126%
37	3	1,494	0.0020	0.24%	0.24%	3.6	3.6	84%	84%
38	7	1,997	0.0035	0.26%	0.26%	5.2	5.2	135%	135%
39	7	2,516	0.0028	0.28%	0.28%	7.0	7.0	99%	99%
40	11	3,104	0.0035	0.30%	0.30%	9.3	9.3	118%	118%
41	3	3,457	0.0009	0.32%	0.32%	11.1	11.1	27%	27%
42	10	3,669	0.0027	0.34%	0.34%	12.5	12.5	80%	80%
43	7	3,634	0.0019	0.36%	0.36%	13.1	13.1	54%	54%
44	12	3,485	0.0034	0.38%	0.38%	13.2	13.2	91%	91%
45	7	3,234	0.0022	0.40%	0.40%	12.9	12.9	54%	54%
46	9	2,943	0.0031	0.42%	0.42%	12.4	12.4	73%	73%
47	5	2,688	0.0019	0.44%	0.44%	11.8	11.8	42%	42%
48	5	2,359	0.0021	0.46%	0.46%	10.9	10.9	46%	46%
49	5	2,100	0.0024	0.48%	0.48%	10.1	10.1	50%	50%
50	2	1,827	0.0011	0.50%	0.50%	9.1	9.1	22%	22%
51	8	1,574	0.0051	0.52%	0.52%	8.2	8.2	98%	98%
52	8	1,308	0.0061	0.54%	0.54%	7.1	7.1	113%	113%
53	3	1,055	0.0028	0.56%	0.56%	5.9	5.9	51%	51%
54	2	825	0.0024	0.58%	0.58%	4.8	4.8	42%	42%
55	0	622	0.0000	0.60%	0.60%	3.7	3.7	0%	0%
56	2	485	0.0041	0.62%	0.62%	3.0	3.0	67%	67%
57	1	360	0.0028	0.64%	0.64%	2.3	2.3	43%	43%
58	1	241	0.0041	0.66%	0.66%	1.6	1.6	63%	63%
59	2	159	0.0126	0.68%	0.68%	1.1	1.1	185%	185%
60	0	109	0.0000	0.70%	0.70%	0.8	0.8	0%	0%
61	0	58	0.0000	0.72%	0.72%	0.4	0.4	0%	0%
62	0	34	0.0000	0.74%	0.74%	0.3	0.3	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>125</b>	<b>47,918</b>				<b>186.4</b>	<b>186.4</b>	<b>67%</b>	<b>67%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 10A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	1	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
30-34	1	406	0.0025	0.17%	0.17%	0.7	0.7	149%	149%
35-39	4	4,315	0.0009	0.25%	0.25%	10.9	10.9	37%	37%
40-44	21	10,179	0.0021	0.34%	0.34%	34.7	34.7	60%	60%
45-49	12	7,927	0.0015	0.44%	0.44%	34.6	34.6	35%	35%
50-54	11	4,004	0.0027	0.53%	0.53%	21.3	21.3	52%	52%
55-59	2	1,267	0.0016	0.63%	0.63%	8.0	8.0	25%	25%
60-64	0	140	0.0000	0.71%	0.71%	1.0	1.0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>51</b>	<b>28,239</b>				<b>111.1</b>	<b>111.1</b>	<b>46%</b>	<b>46%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	1	403	0.0025	0.17%	0.17%	0.7	0.7	150%	150%
35-39	16	3,463	0.0046	0.25%	0.25%	8.7	8.7	184%	184%
40-44	22	7,170	0.0031	0.34%	0.34%	24.5	24.5	90%	90%
45-49	19	5,397	0.0035	0.44%	0.44%	23.5	23.5	81%	81%
50-54	12	2,585	0.0046	0.53%	0.53%	13.7	13.7	87%	87%
55-59	4	600	0.0067	0.63%	0.63%	3.8	3.8	107%	107%
60-64	0	61	0.0000	0.71%	0.71%	0.4	0.4	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>74</b>	<b>19,679</b>				<b>75.2</b>	<b>75.2</b>	<b>98%</b>	<b>98%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	1	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
30-34	2	809	0.0025	0.17%	0.17%	1.3	1.3	150%	150%
35-39	20	7,778	0.0026	0.25%	0.25%	19.6	19.6	102%	102%
40-44	43	17,349	0.0025	0.34%	0.34%	59.2	59.2	73%	73%
45-49	31	13,324	0.0023	0.44%	0.44%	58.1	58.1	53%	53%
50-54	23	6,589	0.0035	0.53%	0.53%	35.1	35.1	66%	66%
55-59	6	1,867	0.0032	0.63%	0.63%	11.7	11.7	51%	51%
60-64	0	201	0.0000	0.71%	0.71%	1.4	1.4	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>125</b>	<b>47,918</b>				<b>186.4</b>	<b>186.4</b>	<b>67%</b>	<b>67%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 10D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	6,950	35	20.5	171%	0.50%	0.29%
2005	6,419	10	19.6	51%	0.16%	0.30%
2006	6,253	19	19.6	97%	0.30%	0.31%
2007	6,299	18	20.0	90%	0.29%	0.32%
2008	5,757	18	18.8	96%	0.31%	0.33%
2009	5,504	12	18.4	65%	0.22%	0.34%
2010	5,400	9	18.5	49%	0.17%	0.34%
2011	5,336	4	18.6	21%	0.07%	0.35%
2012	5,059	21	17.9	117%	0.42%	0.35%
2013	4,671	17	16.8	101%	0.36%	0.36%
Total	57,648	163	188.8	86%	0.28%	0.33%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

TABLE 11A				4-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.0000	0.20%	0.23%	0.0	0.0	0%	0%
21	0	4	0.0000	0.21%	0.24%	0.0	0.0	0%	0%
22	0	23	0.0000	0.22%	0.25%	0.1	0.1	0%	0%
23	0	99	0.0000	0.23%	0.26%	0.2	0.3	0%	0%
24	0	160	0.0000	0.24%	0.28%	0.4	0.4	0%	0%
25	0	230	0.0000	0.25%	0.29%	0.6	0.7	0%	0%
26	0	278	0.0000	0.26%	0.30%	0.7	0.8	0%	0%
27	0	301	0.0000	0.27%	0.31%	0.8	0.9	0%	0%
28	0	345	0.0000	0.28%	0.32%	1.0	1.1	0%	0%
29	0	374	0.0000	0.29%	0.33%	1.1	1.2	0%	0%
30	1	365	0.0027	0.30%	0.35%	1.1	1.3	91%	79%
31	0	374	0.0000	0.31%	0.36%	1.2	1.3	0%	0%
32	2	392	0.0051	0.32%	0.37%	1.3	1.4	159%	139%
33	0	420	0.0000	0.33%	0.38%	1.4	1.6	0%	0%
34	0	448	0.0000	0.34%	0.39%	1.5	1.8	0%	0%
35	2	482	0.0041	0.35%	0.40%	1.7	1.9	119%	103%
36	5	516	0.0097	0.36%	0.41%	1.9	2.1	269%	234%
37	1	540	0.0019	0.37%	0.43%	2.0	2.3	50%	44%
38	5	605	0.0083	0.38%	0.44%	2.3	2.6	217%	189%
39	4	699	0.0057	0.39%	0.45%	2.7	3.1	147%	128%
40	4	844	0.0047	0.40%	0.46%	3.4	3.9	118%	103%
41	5	975	0.0051	0.41%	0.47%	4.0	4.6	125%	109%
42	4	1,029	0.0039	0.42%	0.48%	4.3	5.0	93%	80%
43	7	1,106	0.0063	0.43%	0.49%	4.8	5.5	147%	128%
44	9	1,124	0.0080	0.44%	0.51%	4.9	5.7	182%	158%
45	4	1,056	0.0038	0.45%	0.52%	4.8	5.5	84%	73%
46	7	1,003	0.0070	0.46%	0.53%	4.6	5.3	152%	132%
47	7	935	0.0075	0.47%	0.54%	4.4	5.1	159%	139%
48	5	835	0.0060	0.48%	0.55%	4.0	4.6	125%	108%
49	8	736	0.0109	0.49%	0.56%	3.6	4.1	222%	193%
50	4	659	0.0061	0.50%	0.58%	3.3	3.8	121%	106%
51	3	573	0.0052	0.52%	0.60%	3.0	3.4	101%	88%
52	11	480	0.0229	0.54%	0.62%	2.6	3.0	424%	369%
53	0	399	0.0000	0.56%	0.64%	2.2	2.6	0%	0%
54	1	347	0.0029	0.58%	0.67%	2.0	2.3	50%	43%
55	3	285	0.0105	0.60%	0.69%	1.7	2.0	175%	153%
56	4	247	0.0162	0.62%	0.71%	1.5	1.8	261%	227%
57	3	212	0.0142	0.64%	0.74%	1.4	1.6	221%	192%
58	0	147	0.0000	0.66%	0.76%	1.0	1.1	0%	0%
59	2	105	0.0190	0.68%	0.78%	0.7	0.8	280%	244%
60	1	77	0.0130	0.70%	0.81%	0.5	0.6	186%	161%
61	1	46	0.0217	0.72%	0.83%	0.3	0.4	302%	263%
62	0	31	0.0000	0.74%	0.85%	0.2	0.3	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	113	19,907				85.1	97.8	133%	115%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.20%	0.20%	0	0	0%	0%
21	0	1	0.0000	0.21%	0.20%	0.0	0.0	0%	0%
22	0	15	0.0000	0.22%	0.20%	0.0	0.0	0%	0%
23	0	74	0.0000	0.23%	0.20%	0.2	0.1	0%	0%
24	0	149	0.0000	0.24%	0.20%	0.4	0.3	0%	0%
25	0	220	0.0000	0.25%	0.20%	0.6	0.4	0%	0%
26	0	252	0.0000	0.26%	0.20%	0.7	0.5	0%	0%
27	0	284	0.0000	0.27%	0.20%	0.8	0.6	0%	0%
28	0	338	0.0000	0.28%	0.20%	0.9	0.7	0%	0%
29	0	370	0.0000	0.29%	0.20%	1.1	0.7	0%	0%
30	0	369	0.0000	0.30%	0.20%	1.1	0.7	0%	0%
31	0	428	0.0000	0.31%	0.20%	1.3	0.9	0%	0%
32	0	438	0.0000	0.32%	0.20%	1.4	0.9	0%	0%
33	1	494	0.0020	0.33%	0.20%	1.6	1.0	61%	101%
34	0	504	0.0000	0.34%	0.20%	1.7	1.0	0%	0%
35	0	510	0.0000	0.35%	0.20%	1.8	1.0	0%	0%
36	0	513	0.0000	0.36%	0.20%	1.8	1.0	0%	0%
37	1	561	0.0018	0.37%	0.20%	2.1	1.1	48%	89%
38	2	639	0.0031	0.38%	0.20%	2.4	1.3	82%	156%
39	1	716	0.0014	0.39%	0.20%	2.8	1.4	36%	70%
40	2	786	0.0025	0.40%	0.20%	3.1	1.6	64%	127%
41	2	809	0.0025	0.41%	0.20%	3.3	1.6	60%	124%
42	1	850	0.0012	0.42%	0.20%	3.6	1.7	28%	59%
43	1	846	0.0012	0.43%	0.20%	3.6	1.7	27%	59%
44	0	874	0.0000	0.44%	0.20%	3.8	1.7	0%	0%
45	3	837	0.0036	0.45%	0.20%	3.8	1.7	80%	179%
46	0	769	0.0000	0.46%	0.20%	3.5	1.5	0%	0%
47	0	679	0.0000	0.47%	0.20%	3.2	1.4	0%	0%
48	3	579	0.0052	0.48%	0.20%	2.8	1.2	108%	259%
49	0	497	0.0000	0.49%	0.20%	2.4	1.0	0%	0%
50	0	423	0.0000	0.50%	0.20%	2.1	0.8	0%	0%
51	2	390	0.0051	0.52%	0.20%	2.0	0.8	99%	256%
52	0	316	0.0000	0.54%	0.20%	1.7	0.6	0%	0%
53	1	272	0.0037	0.56%	0.20%	1.5	0.5	66%	184%
54	1	213	0.0047	0.58%	0.20%	1.2	0.4	81%	235%
55	0	168	0.0000	0.60%	0.20%	1.0	0.3	0%	0%
56	0	133	0.0000	0.62%	0.20%	0.8	0.3	0%	0%
57	1	83	0.0120	0.64%	0.20%	0.5	0.2	188%	602%
58	1	64	0.0156	0.66%	0.20%	0.4	0.1	237%	781%
59	1	40	0.0250	0.68%	0.20%	0.3	0.1	368%	1250%
60	0	29	0.0000	0.70%	0.20%	0.2	0.1	0%	0%
61	0	18	0.0000	0.72%	0.20%	0.1	0.0	0%	0%
62	0	7	0.0000	0.74%	0.20%	0.1	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>24</b>	<b>16,557</b>				<b>67.9</b>	<b>33.1</b>	<b>35%</b>	<b>72%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11C

4-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.0000	0.20%	0.23%	0.0	0.0	0%	0%
21	0	5	0.0000	0.21%	0.23%	0.0	0.0	0%	0%
22	0	38	0.0000	0.22%	0.23%	0.1	0.1	0%	0%
23	0	173	0.0000	0.23%	0.24%	0.4	0.4	0%	0%
24	0	309	0.0000	0.24%	0.24%	0.7	0.7	0%	0%
25	0	450	0.0000	0.25%	0.24%	1.1	1.1	0%	0%
26	0	530	0.0000	0.26%	0.25%	1.4	1.3	0%	0%
27	0	585	0.0000	0.27%	0.26%	1.6	1.5	0%	0%
28	0	683	0.0000	0.28%	0.26%	1.9	1.8	0%	0%
29	0	744	0.0000	0.29%	0.27%	2.2	2.0	0%	0%
30	1	734	0.0014	0.30%	0.27%	2.2	2.0	45%	50%
31	0	802	0.0000	0.31%	0.27%	2.5	2.2	0%	0%
32	2	830	0.0024	0.32%	0.28%	2.7	2.3	75%	86%
33	1	914	0.0011	0.33%	0.28%	3.0	2.6	33%	39%
34	0	952	0.0000	0.34%	0.29%	3.2	2.8	0%	0%
35	2	992	0.0020	0.35%	0.30%	3.5	3.0	58%	68%
36	5	1,029	0.0049	0.36%	0.31%	3.7	3.2	135%	158%
37	2	1,101	0.0018	0.37%	0.31%	4.1	3.4	49%	58%
38	7	1,244	0.0056	0.38%	0.32%	4.7	3.9	148%	178%
39	5	1,415	0.0035	0.39%	0.32%	5.5	4.6	91%	109%
40	6	1,630	0.0037	0.40%	0.33%	6.5	5.5	92%	110%
41	7	1,784	0.0039	0.41%	0.35%	7.3	6.2	96%	113%
42	5	1,879	0.0027	0.42%	0.35%	7.9	6.7	63%	75%
43	8	1,952	0.0041	0.43%	0.37%	8.4	7.2	95%	112%
44	9	1,998	0.0045	0.44%	0.37%	8.8	7.4	102%	121%
45	7	1,893	0.0037	0.45%	0.38%	8.5	7.1	82%	98%
46	7	1,772	0.0040	0.46%	0.39%	8.2	6.8	86%	102%
47	7	1,614	0.0043	0.47%	0.40%	7.6	6.4	92%	109%
48	8	1,414	0.0057	0.48%	0.41%	6.8	5.8	118%	139%
49	8	1,233	0.0065	0.49%	0.42%	6.0	5.1	132%	156%
50	4	1,082	0.0037	0.50%	0.43%	5.4	4.6	74%	86%
51	5	963	0.0052	0.52%	0.44%	5.0	4.2	100%	119%
52	11	796	0.0138	0.54%	0.45%	4.3	3.6	256%	304%
53	1	671	0.0015	0.56%	0.46%	3.8	3.1	27%	32%
54	2	560	0.0036	0.58%	0.49%	3.2	2.7	62%	73%
55	3	453	0.0066	0.60%	0.51%	2.7	2.3	110%	130%
56	4	380	0.0105	0.62%	0.53%	2.4	2.0	170%	197%
57	4	295	0.0136	0.64%	0.59%	1.9	1.7	212%	232%
58	1	211	0.0047	0.66%	0.59%	1.4	1.2	72%	80%
59	3	145	0.0207	0.68%	0.62%	1.0	0.9	304%	333%
60	1	106	0.0094	0.70%	0.64%	0.7	0.7	135%	148%
61	1	64	0.0156	0.72%	0.65%	0.5	0.4	217%	240%
62	0	38	0.0000	0.74%	0.73%	0.3	0.3	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	137	36,464				153.0	131.0	90%	105%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 11A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	287	0.0000	0.23%	0.27%	0.7	0.8	0%	0%
25-29	0	1,528	0.0000	0.27%	0.31%	4.2	4.8	0%	0%
30-34	3	1,999	0.0015	0.32%	0.37%	6.4	7.4	47%	41%
35-39	17	2,842	0.0060	0.37%	0.43%	10.6	12.2	161%	140%
40-44	29	5,078	0.0057	0.42%	0.48%	21.4	24.6	136%	118%
45-49	31	4,565	0.0068	0.47%	0.54%	21.4	24.6	145%	126%
50-54	19	2,458	0.0077	0.53%	0.61%	13.1	15.1	145%	126%
55-59	12	996	0.0120	0.63%	0.73%	6.3	7.2	191%	166%
60-64	2	154	0.0130	0.71%	0.82%	1.1	1.3	182%	158%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>113</b>	<b>19,907</b>				<b>85.1</b>	<b>97.8</b>	<b>133%</b>	<b>115%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 11B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	239	0.0000	0.24%	0.20%	0.6	0.5	0%	0%
25-29	0	1,464	0.0000	0.27%	0.20%	4.0	2.9	0%	0%
30-34	1	2,233	0.0004	0.32%	0.20%	7.2	4.5	14%	22%
35-39	4	2,939	0.0014	0.37%	0.20%	10.9	5.9	37%	68%
40-44	6	4,165	0.0014	0.42%	0.20%	17.5	8.3	34%	72%
45-49	6	3,361	0.0018	0.47%	0.20%	15.7	6.7	38%	89%
50-54	4	1,614	0.0025	0.53%	0.20%	8.6	3.2	46%	124%
55-59	3	488	0.0061	0.63%	0.20%	3.1	1.0	98%	307%
60-64	0	54	0.0000	0.71%	0.20%	0.4	0.1	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
Total	24	16,557				67.9	33.1	35%	72%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 11C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	526	0.0000	0.23%	0.24%	1.2	1.3	0%	0%
25-29	0	2,992	0.0000	0.27%	0.26%	8.2	7.7	0%	0%
30-34	4	4,232	0.0009	0.32%	0.28%	13.6	11.8	29%	34%
35-39	21	5,781	0.0036	0.37%	0.31%	21.5	18.0	98%	116%
40-44	35	9,243	0.0038	0.42%	0.36%	38.9	32.9	90%	106%
45-49	37	7,926	0.0047	0.47%	0.39%	37.1	31.3	100%	118%
50-54	23	4,072	0.0056	0.53%	0.45%	21.7	18.3	106%	126%
55-59	15	1,484	0.0101	0.63%	0.55%	9.3	8.2	161%	183%
60-64	2	208	0.0096	0.71%	0.66%	1.5	1.4	135%	146%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>137</b>	<b>36,464</b>				<b>153.0</b>	<b>131.0</b>	<b>90%</b>	<b>105%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 11A**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	2	0.0000	0.20%	0.23%	0.0	0.0	0%	0%
21	0	8	0.0000	0.21%	0.24%	0.0	0.0	0%	0%
22	0	40	0.0000	0.22%	0.25%	0.1	0.1	0%	0%
23	0	131	0.0000	0.23%	0.26%	0.3	0.3	0%	0%
24	0	219	0.0000	0.24%	0.28%	0.5	0.6	0%	0%
25	0	337	0.0000	0.25%	0.29%	0.8	1.0	0%	0%
26	0	424	0.0000	0.26%	0.30%	1.1	1.3	0%	0%
27	0	479	0.0000	0.27%	0.31%	1.3	1.5	0%	0%
28	0	563	0.0000	0.28%	0.32%	1.6	1.8	0%	0%
29	0	642	0.0000	0.29%	0.33%	1.9	2.1	0%	0%
30	1	665	0.0015	0.30%	0.35%	2.0	2.3	50%	44%
31	1	732	0.0014	0.31%	0.36%	2.3	2.6	44%	38%
32	4	778	0.0051	0.32%	0.37%	2.5	2.9	161%	140%
33	3	845	0.0036	0.33%	0.38%	2.8	3.2	108%	94%
34	2	953	0.0021	0.34%	0.39%	3.2	3.7	62%	54%
35	3	1,073	0.0028	0.35%	0.40%	3.8	4.3	80%	69%
36	7	1,263	0.0055	0.36%	0.41%	4.5	5.2	154%	134%
37	5	1,467	0.0034	0.37%	0.43%	5.4	6.2	92%	80%
38	12	1,727	0.0069	0.38%	0.44%	6.6	7.5	183%	159%
39	9	2,031	0.0044	0.39%	0.45%	7.9	9.1	114%	99%
40	16	2,361	0.0068	0.40%	0.46%	9.4	10.9	169%	147%
41	9	2,534	0.0036	0.41%	0.47%	10.4	11.9	87%	75%
42	18	2,586	0.0070	0.42%	0.48%	10.9	12.5	166%	144%
43	17	2,544	0.0067	0.43%	0.49%	10.9	12.6	155%	135%
44	17	2,387	0.0071	0.44%	0.51%	10.5	12.1	162%	141%
45	8	2,203	0.0036	0.45%	0.52%	9.9	11.4	81%	70%
46	13	2,041	0.0064	0.46%	0.53%	9.4	10.8	138%	120%
47	9	1,851	0.0049	0.47%	0.54%	8.7	10.0	103%	90%
48	15	1,632	0.0092	0.48%	0.55%	7.8	9.0	191%	167%
49	11	1,438	0.0076	0.49%	0.56%	7.0	8.1	156%	136%
50	10	1,253	0.0080	0.50%	0.58%	6.3	7.2	160%	139%
51	5	1,053	0.0047	0.52%	0.60%	5.5	6.3	91%	79%
52	12	886	0.0135	0.54%	0.62%	4.8	5.5	251%	218%
53	1	723	0.0014	0.56%	0.64%	4.0	4.7	25%	21%
54	2	568	0.0035	0.58%	0.67%	3.3	3.8	61%	53%
55	4	446	0.0090	0.60%	0.69%	2.7	3.1	149%	130%
56	5	356	0.0140	0.62%	0.71%	2.2	2.5	227%	197%
57	3	292	0.0103	0.64%	0.74%	1.9	2.1	161%	140%
58	0	206	0.0000	0.66%	0.76%	1.4	1.6	0%	0%
59	2	143	0.0140	0.68%	0.78%	1.0	1.1	206%	179%
60	1	96	0.0104	0.70%	0.81%	0.7	0.8	149%	129%
61	1	53	0.0189	0.72%	0.83%	0.4	0.4	262%	228%
62	0	35	0.0000	0.74%	0.85%	0.3	0.3	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	226	42,066				177.9	204.6	127%	110%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 11B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.0000	0.20%	0.20%	0.0	0.0	0%	0%
21	0	4	0.0000	0.21%	0.20%	0.0	0.0	0%	0%
22	0	27	0.0000	0.22%	0.20%	0.1	0.1	0%	0%
23	0	106	0.0000	0.23%	0.20%	0.2	0.2	0%	0%
24	0	233	0.0000	0.24%	0.20%	0.6	0.5	0%	0%
25	0	347	0.0000	0.25%	0.20%	0.9	0.7	0%	0%
26	0	424	0.0000	0.26%	0.20%	1.1	0.8	0%	0%
27	0	531	0.0000	0.27%	0.20%	1.4	1.1	0%	0%
28	0	613	0.0000	0.28%	0.20%	1.7	1.2	0%	0%
29	0	687	0.0000	0.29%	0.20%	2.0	1.4	0%	0%
30	0	730	0.0000	0.30%	0.20%	2.2	1.5	0%	0%
31	0	810	0.0000	0.31%	0.20%	2.5	1.6	0%	0%
32	1	858	0.0012	0.32%	0.20%	2.7	1.7	36%	58%
33	1	956	0.0010	0.33%	0.20%	3.2	1.9	32%	52%
34	2	1,049	0.0019	0.34%	0.20%	3.6	2.1	56%	95%
35	0	1,137	0.0000	0.35%	0.20%	4.0	2.3	0%	0%
36	1	1,221	0.0008	0.36%	0.20%	4.4	2.4	23%	41%
37	2	1,342	0.0015	0.37%	0.20%	5.0	2.7	40%	75%
38	4	1,522	0.0026	0.38%	0.20%	5.8	3.0	69%	131%
39	2	1,650	0.0012	0.39%	0.20%	6.4	3.3	31%	61%
40	4	1,807	0.0022	0.40%	0.20%	7.2	3.6	55%	111%
41	2	1,867	0.0011	0.41%	0.20%	7.7	3.7	26%	54%
42	2	1,886	0.0011	0.42%	0.20%	7.9	3.8	25%	53%
43	4	1,809	0.0022	0.43%	0.20%	7.8	3.6	51%	111%
44	1	1,728	0.0006	0.44%	0.20%	7.6	3.5	13%	29%
45	4	1,573	0.0025	0.45%	0.20%	7.1	3.1	57%	127%
46	2	1,398	0.0014	0.46%	0.20%	6.4	2.8	31%	72%
47	4	1,247	0.0032	0.47%	0.20%	5.9	2.5	68%	160%
48	4	1,058	0.0038	0.48%	0.20%	5.1	2.1	79%	189%
49	2	930	0.0022	0.49%	0.20%	4.6	1.9	44%	108%
50	0	793	0.0000	0.50%	0.20%	4.0	1.6	0%	0%
51	3	693	0.0043	0.52%	0.20%	3.6	1.4	83%	216%
52	1	548	0.0018	0.54%	0.20%	3.0	1.1	34%	91%
53	1	432	0.0023	0.56%	0.20%	2.4	0.9	41%	116%
54	1	326	0.0031	0.58%	0.20%	1.9	0.7	53%	153%
55	0	237	0.0000	0.60%	0.20%	1.4	0.5	0%	0%
56	0	181	0.0000	0.62%	0.20%	1.1	0.4	0%	0%
57	1	116	0.0086	0.64%	0.20%	0.7	0.2	135%	431%
58	1	77	0.0130	0.66%	0.20%	0.5	0.2	197%	649%
59	1	47	0.0213	0.68%	0.20%	0.3	0.1	313%	1064%
60	0	35	0.0000	0.70%	0.20%	0.2	0.1	0%	0%
61	0	22	0.0000	0.72%	0.20%	0.2	0.0	0%	0%
62	0	10	0.0000	0.74%	0.20%	0.1	0.0	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>51</b>	<b>33,068</b>				<b>134.3</b>	<b>66.1</b>	<b>38%</b>	<b>77%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11C

8-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	3	0.0000	0.20%	0.22%	0.0	0.0	0%	0%
21	0	12	0.0000	0.21%	0.23%	0.0	0.0	0%	0%
22	0	67	0.0000	0.22%	0.23%	0.1	0.2	0%	0%
23	0	237	0.0000	0.23%	0.24%	0.5	0.6	0%	0%
24	0	452	0.0000	0.24%	0.24%	1.1	1.1	0%	0%
25	0	684	0.0000	0.25%	0.24%	1.7	1.7	0%	0%
26	0	848	0.0000	0.26%	0.25%	2.2	2.1	0%	0%
27	0	1,010	0.0000	0.27%	0.25%	2.7	2.5	0%	0%
28	0	1,176	0.0000	0.28%	0.26%	3.3	3.0	0%	0%
29	0	1,329	0.0000	0.29%	0.26%	3.9	3.5	0%	0%
30	1	1,395	0.0007	0.30%	0.27%	4.2	3.8	24%	27%
31	1	1,542	0.0006	0.31%	0.27%	4.8	4.2	21%	24%
32	5	1,636	0.0031	0.32%	0.28%	5.2	4.6	96%	109%
33	4	1,801	0.0022	0.33%	0.28%	5.9	5.1	67%	78%
34	4	2,002	0.0020	0.34%	0.29%	6.8	5.8	59%	69%
35	3	2,210	0.0014	0.35%	0.30%	7.7	6.6	39%	46%
36	8	2,484	0.0032	0.36%	0.31%	8.9	7.7	89%	104%
37	7	2,809	0.0025	0.37%	0.32%	10.4	8.9	67%	78%
38	16	3,249	0.0049	0.38%	0.33%	12.3	10.6	130%	151%
39	11	3,681	0.0030	0.39%	0.34%	14.4	12.4	77%	89%
40	20	4,168	0.0048	0.40%	0.35%	16.7	14.5	120%	138%
41	11	4,401	0.0025	0.41%	0.36%	18.0	15.7	61%	70%
42	20	4,472	0.0045	0.42%	0.36%	18.8	16.3	106%	123%
43	21	4,353	0.0048	0.43%	0.37%	18.7	16.2	112%	130%
44	18	4,115	0.0044	0.44%	0.38%	18.1	15.5	99%	116%
45	12	3,776	0.0032	0.45%	0.39%	17.0	14.5	71%	82%
46	15	3,439	0.0044	0.46%	0.40%	15.8	13.6	95%	110%
47	13	3,098	0.0042	0.47%	0.40%	14.6	12.5	89%	104%
48	19	2,690	0.0071	0.48%	0.41%	12.9	11.1	147%	171%
49	13	2,368	0.0055	0.49%	0.42%	11.6	10.0	112%	130%
50	10	2,046	0.0049	0.50%	0.43%	10.2	8.8	98%	114%
51	8	1,746	0.0046	0.52%	0.44%	9.1	7.7	88%	104%
52	13	1,434	0.0091	0.54%	0.46%	7.7	6.6	168%	197%
53	2	1,155	0.0017	0.56%	0.48%	6.5	5.5	31%	36%
54	3	894	0.0034	0.58%	0.50%	5.2	4.4	58%	68%
55	4	683	0.0059	0.60%	0.52%	4.1	3.6	98%	113%
56	5	537	0.0093	0.62%	0.54%	3.3	2.9	150%	172%
57	4	408	0.0098	0.64%	0.58%	2.6	2.4	153%	168%
58	1	283	0.0035	0.66%	0.61%	1.9	1.7	54%	58%
59	3	190	0.0158	0.68%	0.64%	1.3	1.2	232%	247%
60	1	131	0.0076	0.70%	0.64%	0.9	0.8	109%	119%
61	1	75	0.0133	0.72%	0.64%	0.5	0.5	185%	207%
62	0	45	0.0000	0.74%	0.71%	0.3	0.3	0%	0%
63	0	0	N/A	0.00%	0.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	277	75,134				312.2	270.7	89%	102%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 11A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	400	0.0000	0.23%	0.27%	0.9	1.1	0%	0%
25-29	0	2,445	0.0000	0.27%	0.31%	6.7	7.7	0%	0%
30-34	11	3,973	0.0028	0.32%	0.37%	12.8	14.7	86%	75%
35-39	36	7,561	0.0048	0.37%	0.43%	28.2	32.4	128%	111%
40-44	77	12,412	0.0062	0.42%	0.48%	52.1	60.0	148%	128%
45-49	56	9,165	0.0061	0.47%	0.54%	42.9	49.3	131%	114%
50-54	30	4,483	0.0067	0.53%	0.61%	23.9	27.4	126%	109%
55-59	14	1,443	0.0097	0.63%	0.72%	9.1	10.4	154%	134%
60-64	2	184	0.0109	0.71%	0.82%	1.3	1.5	152%	132%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>226</b>	<b>42,066</b>				<b>177.9</b>	<b>204.6</b>	<b>127%</b>	<b>110%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 11B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	371	0.0000	0.24%	0.20%	0.9	0.7	0%	0%
25-29	0	2,602	0.0000	0.27%	0.20%	7.1	5.2	0%	0%
30-34	4	4,403	0.0009	0.32%	0.20%	14.2	8.8	28%	45%
35-39	9	6,872	0.0013	0.37%	0.20%	25.6	13.7	35%	65%
40-44	13	9,097	0.0014	0.42%	0.20%	38.2	18.2	34%	71%
45-49	16	6,206	0.0026	0.47%	0.20%	29.0	12.4	55%	129%
50-54	6	2,792	0.0021	0.53%	0.20%	14.8	5.6	40%	107%
55-59	3	658	0.0046	0.63%	0.20%	4.1	1.3	73%	228%
60-64	0	67	0.0000	0.71%	0.20%	0.5	0.1	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>51</b>	<b>33,068</b>				<b>134.3</b>	<b>66.1</b>	<b>38%</b>	<b>77%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 11C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	771	0.0000	0.23%	0.24%	1.8	1.8	0%	0%
25-29	0	5,047	0.0000	0.27%	0.26%	13.8	12.9	0%	0%
30-34	15	8,376	0.0018	0.32%	0.28%	27.0	23.5	56%	64%
35-39	45	14,433	0.0031	0.37%	0.32%	53.8	46.2	84%	97%
40-44	90	21,509	0.0042	0.42%	0.36%	90.3	78.2	100%	115%
45-49	72	15,371	0.0047	0.47%	0.40%	71.9	61.7	100%	117%
50-54	36	7,275	0.0049	0.53%	0.45%	38.7	33.0	93%	109%
55-59	17	2,101	0.0081	0.63%	0.56%	13.2	11.8	129%	145%
60-64	2	251	0.0080	0.71%	0.65%	1.8	1.6	112%	122%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>277</b>	<b>75,134</b>				<b>312.2</b>	<b>270.7</b>	<b>89%</b>	<b>102%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 11D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	10,080	40	32.1	124%	0.40%	0.32%
2005	9,682	34	31.3	109%	0.35%	0.32%
2006	9,464	37	31.0	119%	0.39%	0.33%
2007	9,444	29	31.3	93%	0.31%	0.33%
2008	9,327	34	30.7	111%	0.36%	0.33%
2009	9,131	39	30.3	129%	0.43%	0.33%
2010	9,183	23	30.7	75%	0.25%	0.33%
2011	8,823	43	29.9	144%	0.49%	0.34%
2012	8,378	52	28.7	181%	0.62%	0.34%
2013	8,257	26	28.6	91%	0.31%	0.35%
Total	91,769	357	304.7	117%	0.39%	0.33%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 12A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	252	\$ 10,840,724	\$ 12,151,889	\$ 12,358,425	86%	12.09%	14.00%
1	1,263	54,727,324	62,488,215	61,841,876	109%	14.18%	13.00%
2	1,509	73,101,162	83,471,197	81,873,301	118%	14.19%	12.00%
3	1,859	101,486,472	112,938,648	112,649,984	103%	11.28%	11.00%
4	2,319	140,772,976	178,254,522	209,751,734	54%	26.63%	49.00%
5	2,055	154,640,238	181,161,643	161,135,128	408%	17.15%	4.20%
6	1,650	141,729,895	148,335,430	147,966,010	106%	4.66%	4.40%
7	1,532	133,832,399	138,739,767	139,988,689	80%	3.67%	4.60%
8	1,262	108,242,511	113,923,895	113,438,152	109%	5.25%	4.80%
9	1,141	98,228,980	104,467,171	104,319,177	102%	6.35%	6.20%
10	1,304	116,956,280	122,107,962	122,804,094	88%	4.40%	5.00%
11	1,134	104,686,006	108,438,116	109,815,620	73%	3.58%	4.90%
12	1,363	126,090,359	130,577,324	132,142,696	74%	3.56%	4.80%
13	1,374	128,938,131	134,158,832	134,998,223	86%	4.05%	4.70%
14	1,260	121,745,427	125,915,702	128,928,407	58%	3.43%	5.90%
15	1,120	111,031,869	114,224,720	116,028,303	64%	2.88%	4.50%
16	664	66,069,072	67,600,898	68,976,111	53%	2.32%	4.40%
17	415	40,119,129	41,666,451	41,844,252	90%	3.86%	4.30%
18	633	60,505,479	63,761,387	63,046,709	128%	5.38%	4.20%
19	1,221	117,684,809	124,206,806	124,039,789	103%	5.54%	5.40%
20	1,348	134,414,704	141,685,393	139,791,292	135%	5.41%	4.00%
21	1,329	137,977,558	142,455,805	143,358,683	83%	3.25%	3.90%
22	1,363	142,636,534	146,445,493	148,056,722	70%	2.67%	3.80%
23	978	104,305,583	107,692,492	108,164,890	88%	3.25%	3.70%
24	711	77,584,667	79,495,046	80,377,715	68%	2.46%	3.60%
25	441	48,948,199	49,899,985	50,661,386	56%	1.94%	3.50%
26	234	26,202,737	26,738,007	27,119,833	58%	2.04%	3.50%
27	151	17,096,948	17,476,797	17,695,341	63%	2.22%	3.50%
28	126	14,438,519	14,854,149	14,943,867	82%	2.88%	3.50%
29	91	10,585,999	10,905,999	10,956,509	86%	3.02%	3.50%
30+	73	8,524,423	8,741,858	8,822,778	73%	2.55%	3.50%
Total	32,175	2,734,145,113	2,914,981,599	2,937,895,697	89%	6.61%	7.45%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Proposed Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	252	\$ 10,840,724	\$ 12,151,889	\$ 12,358,425	86%	12.09%	14.00%
1	1,263	54,727,324	62,488,215	61,841,876	109%	14.18%	13.00%
2	1,509	73,101,162	83,471,197	81,873,301	118%	14.19%	12.00%
3	1,859	101,486,472	112,938,648	112,649,984	103%	11.28%	11.00%
4	2,319	140,772,976	178,254,522	209,751,734	54%	26.63%	49.00%
5	2,055	154,640,238	181,161,643	161,135,128	408%	17.15%	4.20%
6	1,650	141,729,895	148,335,430	147,966,010	106%	4.66%	4.40%
7	1,532	133,832,399	138,739,767	139,988,689	80%	3.67%	4.60%
8	1,262	108,242,511	113,923,895	113,438,152	109%	5.25%	4.80%
9	1,141	98,228,980	104,467,171	104,319,177	102%	6.35%	6.20%
10	1,304	116,956,280	122,107,962	122,804,094	88%	4.40%	5.00%
11	1,134	104,686,006	108,438,116	109,815,620	73%	3.58%	4.90%
12	1,363	126,090,359	130,577,324	132,142,696	74%	3.56%	4.80%
13	1,374	128,938,131	134,158,832	134,998,223	86%	4.05%	4.70%
14	1,260	121,745,427	125,915,702	128,928,407	58%	3.43%	5.90%
15	1,120	111,031,869	114,224,720	116,028,303	64%	2.88%	4.50%
16	664	66,069,072	67,600,898	68,976,111	53%	2.32%	4.40%
17	415	40,119,129	41,666,451	41,844,252	90%	3.86%	4.30%
18	633	60,505,479	63,761,387	63,046,709	128%	5.38%	4.20%
19	1,221	117,684,809	124,206,806	124,039,789	103%	5.54%	5.40%
20	1,348	134,414,704	141,685,393	139,791,292	135%	5.41%	4.00%
21	1,329	137,977,558	142,455,805	143,358,683	83%	3.25%	3.90%
22	1,363	142,636,534	146,445,493	148,056,722	70%	2.67%	3.80%
23	978	104,305,583	107,692,492	108,164,890	88%	3.25%	3.70%
24	711	77,584,667	79,495,046	80,377,715	68%	2.46%	3.60%
25	441	48,948,199	49,899,985	50,661,386	56%	1.94%	3.50%
26	234	26,202,737	26,738,007	27,119,833	58%	2.04%	3.50%
27	151	17,096,948	17,476,797	17,695,341	63%	2.22%	3.50%
28	126	14,438,519	14,854,149	14,943,867	82%	2.88%	3.50%
29	91	10,585,999	10,905,999	10,956,509	86%	3.02%	3.50%
30+	73	8,524,423	8,741,858	8,822,778	73%	2.55%	3.50%
Total	32,175	2,734,145,113	2,914,981,599	2,937,895,697	89%	6.61%	7.45%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Expected Merit Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	252	\$ 10,840,724	\$ 12,619,039	\$ 11,979,000	156%	16.40%	10.50%
1	1,263	54,727,324	58,038,559	59,926,420	64%	6.05%	9.50%
2	1,509	73,101,162	79,477,837	79,314,761	103%	8.72%	8.50%
3	1,859	101,486,472	108,683,213	109,097,957	95%	7.09%	7.50%
4	2,319	140,772,976	170,602,241	204,824,680	47%	21.19%	45.50%
5	2,055	154,640,238	174,695,815	155,722,720	1853%	12.97%	0.70%
6	1,650	141,729,895	144,799,328	143,005,464	241%	2.17%	0.90%
7	1,532	133,832,399	135,953,291	135,304,555	144%	1.58%	1.10%
8	1,262	108,242,511	109,295,513	109,649,664	75%	0.97%	1.30%
9	1,141	98,228,980	100,135,290	100,881,162	72%	1.94%	2.70%
10	1,304	116,956,280	118,645,272	118,710,624	96%	1.44%	1.50%
11	1,134	104,686,006	105,713,302	106,151,610	70%	0.98%	1.40%
12	1,363	126,090,359	127,139,047	127,729,534	64%	0.83%	1.30%
13	1,374	128,938,131	129,462,564	130,485,389	34%	0.41%	1.20%
14	1,260	121,745,427	123,217,596	124,667,317	50%	1.21%	2.40%
15	1,120	111,031,869	112,073,753	112,142,188	94%	0.94%	1.00%
16	664	66,069,072	66,608,865	66,663,694	91%	0.82%	0.90%
17	415	40,119,129	40,369,650	40,440,082	78%	0.62%	0.80%
18	633	60,505,479	61,089,155	60,929,017	138%	0.96%	0.70%
19	1,221	117,684,809	118,907,745	119,920,820	55%	1.04%	1.90%
20	1,348	134,414,704	135,397,549	135,086,778	146%	0.73%	0.50%
21	1,329	137,977,558	138,379,618	138,529,468	73%	0.29%	0.40%
22	1,363	142,636,534	142,549,609	143,064,444	-20%	-0.06%	0.30%
23	978	104,305,583	104,542,823	104,514,194	114%	0.23%	0.20%
24	711	77,584,667	77,777,972	77,662,252	249%	0.25%	0.10%
25	441	48,948,199	48,884,682	48,948,199		-0.13%	0.00%
26	234	26,202,737	26,111,091	26,202,737		-0.35%	0.00%
27	151	17,096,948	17,059,450	17,096,948		-0.22%	0.00%
28	126	14,438,519	14,436,392	14,438,519		-0.01%	0.00%
29	91	10,585,999	10,564,567	10,585,999		-0.20%	0.00%
30+	73	8,524,423	8,524,423	8,524,423		0.00%	0.00%
Total	32,175	2,734,145,113	2,821,755,250	2,842,200,618	81%	3.20%	3.95%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 1.71%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	252	\$ 10,840,724	\$ 12,619,039	\$ 11,979,000	156%	16.40%	10.50%
1	1,263	54,727,324	58,038,559	59,926,420	64%	6.05%	9.50%
2	1,509	73,101,162	79,477,837	79,314,761	103%	8.72%	8.50%
3	1,859	101,486,472	108,683,213	109,097,957	95%	7.09%	7.50%
4	2,319	140,772,976	170,602,241	194,266,707	56%	21.19%	38.00%
5	2,055	154,640,238	174,695,815	155,722,720	1853%	12.97%	0.70%
6	1,650	141,729,895	144,799,328	143,005,464	241%	2.17%	0.90%
7	1,532	133,832,399	135,953,291	135,304,555	144%	1.58%	1.10%
8	1,262	108,242,511	109,295,513	109,649,664	75%	0.97%	1.30%
9	1,141	98,228,980	100,135,290	100,390,018	88%	1.94%	2.20%
10	1,304	116,956,280	118,645,272	118,710,624	96%	1.44%	1.50%
11	1,134	104,686,006	105,713,302	105,732,866	98%	0.98%	1.00%
12	1,363	126,090,359	127,139,047	127,351,263	83%	0.83%	1.00%
13	1,374	128,938,131	129,462,564	130,227,512	41%	0.41%	1.00%
14	1,260	121,745,427	123,217,596	123,571,608	81%	1.21%	1.50%
15	1,120	111,031,869	112,073,753	112,142,188	94%	0.94%	1.00%
16	664	66,069,072	66,608,865	66,663,694	91%	0.82%	0.90%
17	415	40,119,129	40,369,650	40,440,082	78%	0.62%	0.80%
18	633	60,505,479	61,089,155	60,929,017	138%	0.96%	0.70%
19	1,221	117,684,809	118,907,745	119,920,820	55%	1.04%	1.90%
20	1,348	134,414,704	135,397,549	135,086,778	146%	0.73%	0.50%
21	1,329	137,977,558	138,379,618	138,529,468	73%	0.29%	0.40%
22	1,363	142,636,534	142,549,609	143,064,444	-20%	-0.06%	0.30%
23	978	104,305,583	104,542,823	104,514,194	114%	0.23%	0.20%
24	711	77,584,667	77,777,972	77,662,252	249%	0.25%	0.10%
25	441	48,948,199	48,884,682	48,948,199		-0.13%	0.00%
26	234	26,202,737	26,111,091	26,202,737		-0.35%	0.00%
27	151	17,096,948	17,059,450	17,096,948		-0.22%	0.00%
28	126	14,438,519	14,436,392	14,438,519		-0.01%	0.00%
29	91	10,585,999	10,564,567	10,585,999		-0.20%	0.00%
30+	73	8,524,423	8,524,423	8,524,423		0.00%	0.00%
Total	32,175	2,734,145,113	2,821,755,250	2,829,000,900	92%	3.20%	3.47%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Actual Salary EOY</u>	<u>Expected Salary EOY</u>	<u>Actual / Expected</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Expected %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,610	\$ 56,522,042	\$ 69,228,388	\$ 64,435,128	161%	22.48%	14.00%
1	3,713	151,831,831	170,247,948	171,569,969	93%	12.13%	13.00%
2	4,080	184,189,804	211,067,569	206,292,580	122%	14.59%	12.00%
3	4,240	215,927,002	240,452,933	239,678,972	103%	11.36%	11.00%
4	4,310	240,780,889	304,335,502	358,763,525	54%	26.40%	49.00%
5	3,786	257,982,775	300,622,014	268,818,052	394%	16.53%	4.20%
6	3,910	298,347,720	313,308,152	311,475,020	114%	5.01%	4.40%
7	3,855	299,391,116	313,925,703	313,163,107	106%	4.85%	4.60%
8	3,292	257,321,136	270,135,433	269,672,551	104%	4.98%	4.80%
9	2,877	229,520,970	242,994,921	243,751,270	95%	5.87%	6.20%
10	2,750	229,932,373	241,160,045	241,428,992	98%	4.88%	5.00%
11	2,569	219,696,790	229,115,291	230,461,933	87%	4.29%	4.90%
12	2,648	224,043,362	233,258,822	234,797,443	86%	4.11%	4.80%
13	3,373	273,813,191	286,013,937	286,682,411	95%	4.46%	4.70%
14	3,885	314,392,757	331,502,372	332,941,930	92%	5.44%	5.90%
15	4,341	358,937,284	375,617,761	375,089,462	103%	4.65%	4.50%
16	4,847	395,976,109	413,388,802	413,399,058	100%	4.40%	4.40%
17	4,826	398,470,623	419,395,898	415,604,860	122%	5.25%	4.30%
18	5,047	428,568,913	448,982,662	446,568,807	113%	4.76%	4.20%
19	3,714	331,654,039	350,089,060	349,563,357	103%	5.56%	5.40%
20	2,698	255,012,038	268,447,002	265,212,520	132%	5.27%	4.00%
21	2,325	229,855,627	238,840,868	238,819,996	100%	3.91%	3.90%
22	1,969	198,944,571	205,324,930	206,504,465	84%	3.21%	3.80%
23	1,423	146,429,235	152,026,903	151,847,117	103%	3.82%	3.70%
24	985	103,731,001	106,947,680	107,465,317	86%	3.10%	3.60%
25	625	67,072,684	68,869,042	69,420,228	77%	2.68%	3.50%
26	363	39,145,288	40,198,468	40,515,373	77%	2.69%	3.50%
27	253	27,092,860	27,860,401	28,041,110	81%	2.83%	3.50%
28	183	19,903,395	20,613,860	20,600,014	102%	3.57%	3.50%
29	128	14,029,916	14,493,720	14,520,963	94%	3.31%	3.50%
30+	109	11,642,398	12,005,571	12,049,882	89%	3.12%	3.50%
Total	84,734	6,480,159,739	6,920,471,658	6,929,155,410	98%	6.79%	6.93%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Actual Salary EOY</u>	<u>Proposed Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,610	\$ 56,522,042	\$ 69,228,388	\$ 64,717,738	155%	22.48%	14.50%
1	3,713	151,831,831	170,247,948	172,329,128	90%	12.13%	13.50%
2	4,080	184,189,804	211,067,569	207,213,530	117%	14.59%	12.50%
3	4,240	215,927,002	240,452,933	240,758,607	99%	11.36%	11.50%
4	4,310	240,780,889	304,335,502	341,908,862	63%	26.40%	42.00%
5	3,786	257,982,775	300,622,014	270,107,965	352%	16.53%	4.70%
6	3,910	298,347,720	313,308,152	312,966,758	102%	5.01%	4.90%
7	3,855	299,391,116	313,925,703	314,660,063	95%	4.85%	5.10%
8	3,292	257,321,136	270,135,433	270,959,156	94%	4.98%	5.30%
9	2,877	229,520,970	242,994,921	243,751,270	95%	5.87%	6.20%
10	2,750	229,932,373	241,160,045	242,578,654	89%	4.88%	5.50%
11	2,569	219,696,790	229,115,291	230,681,630	86%	4.29%	5.00%
12	2,648	224,043,362	233,258,822	235,245,530	82%	4.11%	5.00%
13	3,373	273,813,191	286,013,937	287,503,851	89%	4.46%	5.00%
14	3,885	314,392,757	331,502,372	331,684,359	99%	5.44%	5.50%
15	4,341	358,937,284	375,617,761	376,884,148	93%	4.65%	5.00%
16	4,847	395,976,109	413,388,802	415,378,938	90%	4.40%	4.90%
17	4,826	398,470,623	419,395,898	417,597,213	109%	5.25%	4.80%
18	5,047	428,568,913	448,982,662	448,711,652	101%	4.76%	4.70%
19	3,714	331,654,039	350,089,060	351,221,627	94%	5.56%	5.90%
20	2,698	255,012,038	268,447,002	266,487,580	117%	5.27%	4.50%
21	2,325	229,855,627	238,840,868	239,969,275	89%	3.91%	4.40%
22	1,969	198,944,571	205,324,930	207,499,188	75%	3.21%	4.30%
23	1,423	146,429,235	152,026,903	152,579,263	91%	3.82%	4.20%
24	985	103,731,001	106,947,680	107,983,972	76%	3.10%	4.10%
25	625	67,072,684	68,869,042	69,755,591	67%	2.68%	4.00%
26	363	39,145,288	40,198,468	40,711,100	67%	2.69%	4.00%
27	253	27,092,860	27,860,401	28,176,574	71%	2.83%	4.00%
28	183	19,903,395	20,613,860	20,699,531	89%	3.57%	4.00%
29	128	14,029,916	14,493,720	14,591,113	83%	3.31%	4.00%
30+	109	11,642,398	12,005,571	12,108,094	78%	3.12%	4.00%
Total	84,734	6,480,159,739	6,920,471,658	6,937,421,959	96%	6.79%	7.06%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1,610	\$ 56,522,042	\$ 65,793,930	\$ 62,456,856	156%	16.40%	10.50%
1	3,713	151,831,831	161,018,301	166,255,855	64%	6.05%	9.50%
2	4,080	184,189,804	200,256,833	199,845,937	103%	8.72%	8.50%
3	4,240	215,927,002	231,239,099	232,121,527	95%	7.09%	7.50%
4	4,310	240,780,889	291,801,455	350,336,193	47%	21.19%	45.50%
5	3,786	257,982,775	291,441,036	259,788,654	1853%	12.97%	0.70%
6	3,910	298,347,720	304,809,012	301,032,849	241%	2.17%	0.90%
7	3,855	299,391,116	304,135,679	302,684,418	144%	1.58%	1.10%
8	3,292	257,321,136	259,824,401	260,666,311	75%	0.97%	1.30%
9	2,877	229,520,970	233,975,237	235,718,036	72%	1.94%	2.70%
10	2,750	229,932,373	233,252,879	233,381,359	96%	1.44%	1.50%
11	2,569	219,696,790	221,852,699	222,772,545	70%	0.98%	1.40%
12	2,648	224,043,362	225,906,721	226,955,926	64%	0.83%	1.30%
13	3,373	273,813,191	274,926,877	277,098,949	34%	0.41%	1.20%
14	3,885	314,392,757	318,194,455	321,938,183	50%	1.21%	2.40%
15	4,341	358,937,284	362,305,424	362,526,657	94%	0.94%	1.00%
16	4,847	395,976,109	399,211,286	399,539,894	91%	0.82%	0.90%
17	4,826	398,470,623	400,958,845	401,658,388	78%	0.62%	0.80%
18	5,047	428,568,913	432,703,173	431,568,895	138%	0.96%	0.70%
19	3,714	331,654,039	335,100,463	337,955,466	55%	1.04%	1.90%
20	2,698	255,012,038	256,876,694	256,287,098	146%	0.73%	0.50%
21	2,325	229,855,627	230,525,415	230,775,050	73%	0.29%	0.40%
22	1,969	198,944,571	198,823,331	199,541,405	-20%	-0.06%	0.30%
23	1,423	146,429,235	146,762,284	146,722,093	114%	0.23%	0.20%
24	985	103,731,001	103,989,450	103,834,732	249%	0.25%	0.10%
25	625	67,072,684	66,985,648	67,072,684		-0.13%	0.00%
26	363	39,145,288	39,008,374	39,145,288		-0.35%	0.00%
27	253	27,092,860	27,033,439	27,092,860		-0.22%	0.00%
28	183	19,903,395	19,900,462	19,903,395		-0.01%	0.00%
29	128	14,029,916	14,001,511	14,029,916		-0.20%	0.00%
30+	109	11,642,398	11,642,398	11,642,398		0.00%	0.00%
Total	84,734	6,480,159,739	6,664,256,813	6,702,349,819	83%	2.84%	3.43%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Estimated Actual Merit Salary EOY</u>	<u>Proposed Merit Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,610	\$ 56,522,042	\$ 65,793,930	\$ 62,456,856	156%	16.40%	10.50%
1	3,713	151,831,831	161,018,301	166,255,855	64%	6.05%	9.50%
2	4,080	184,189,804	200,256,833	199,845,937	103%	8.72%	8.50%
3	4,240	215,927,002	231,239,099	232,121,527	95%	7.09%	7.50%
4	4,310	240,780,889	291,801,455	332,277,627	56%	21.19%	38.00%
5	3,786	257,982,775	291,441,036	259,788,654	1853%	12.97%	0.70%
6	3,910	298,347,720	304,809,012	301,032,849	241%	2.17%	0.90%
7	3,855	299,391,116	304,135,679	302,684,418	144%	1.58%	1.10%
8	3,292	257,321,136	259,824,401	260,666,311	75%	0.97%	1.30%
9	2,877	229,520,970	233,975,237	234,570,431	88%	1.94%	2.20%
10	2,750	229,932,373	233,252,879	233,381,359	96%	1.44%	1.50%
11	2,569	219,696,790	221,852,699	221,893,758	98%	0.98%	1.00%
12	2,648	224,043,362	225,906,721	226,283,796	83%	0.83%	1.00%
13	3,373	273,813,191	274,926,877	276,551,323	41%	0.41%	1.00%
14	3,885	314,392,757	318,194,455	319,108,648	81%	1.21%	1.50%
15	4,341	358,937,284	362,305,424	362,526,657	94%	0.94%	1.00%
16	4,847	395,976,109	399,211,286	399,539,894	91%	0.82%	0.90%
17	4,826	398,470,623	400,958,845	401,658,388	78%	0.62%	0.80%
18	5,047	428,568,913	432,703,173	431,568,895	138%	0.96%	0.70%
19	3,714	331,654,039	335,100,463	337,955,466	55%	1.04%	1.90%
20	2,698	255,012,038	256,876,694	256,287,098	146%	0.73%	0.50%
21	2,325	229,855,627	230,525,415	230,775,050	73%	0.29%	0.40%
22	1,969	198,944,571	198,823,331	199,541,405	-20%	-0.06%	0.30%
23	1,423	146,429,235	146,762,284	146,722,093	114%	0.23%	0.20%
24	985	103,731,001	103,989,450	103,834,732	249%	0.25%	0.10%
25	625	67,072,684	66,985,648	67,072,684		-0.13%	0.00%
26	363	39,145,288	39,008,374	39,145,288		-0.35%	0.00%
27	253	27,092,860	27,033,439	27,092,860		-0.22%	0.00%
28	183	19,903,395	19,900,462	19,903,395		-0.01%	0.00%
29	128	14,029,916	14,001,511	14,029,916		-0.20%	0.00%
30+	109	11,642,398	11,642,398	11,642,398		0.00%	0.00%
Total	84,734	6,480,159,739	6,664,256,813	6,678,215,569	93%	2.84%	3.06%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 12C Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	10-YEAR PERIOD ENDING 6/30/2013		
					Actual / Expected (5)	Actual (4) / (3)	Expected (5) / (3)
2004	9,292	\$ 613,260,158	\$ 647,260,226	\$ 652,491,406	87%	5.54%	6.40%
2005	8,969	608,088,623	670,226,657	647,269,365	159%	10.22%	6.44%
2006	8,648	627,061,449	655,282,873	669,675,469	66%	4.50%	6.80%
2007	8,552	618,942,911	662,637,551	659,685,175	107%	7.06%	6.58%
2008	8,585	634,148,613	675,552,927	671,234,330	112%	6.53%	5.85%
2009	8,621	654,138,066	704,642,605	700,866,042	108%	7.72%	7.14%
2010	8,616	676,542,044	732,447,410	731,775,475	101%	8.26%	8.16%
2011	8,143	676,270,590	749,398,794	724,355,196	152%	10.81%	7.11%
2012	7,807	701,151,324	725,076,734	750,545,103	48%	3.41%	7.04%
2013	7,725	692,976,246	721,167,241	744,462,842	55%	4.07%	7.43%
Total	84,958	6,502,580,024	6,943,693,018	6,952,360,405	98%	6.78%	6.92%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	252	\$ 9,855,204	\$ 596,746	\$ 985,520	61%	6.06%	10.00%
1	1,197	47,190,671	4,757,006	4,719,067	101%	10.08%	10.00%
2	1,540	67,536,762	7,938,564	6,753,676	118%	11.75%	10.00%
3	1,841	91,195,059	11,257,776	9,119,506	123%	12.34%	10.00%
4	2,320	127,631,157	16,738,509	12,763,116	131%	13.11%	10.00%
5	2,065	140,657,951	16,864,557	14,065,795	120%	11.99%	10.00%
6	1,684	131,276,215	18,003,266	13,127,622	137%	13.71%	10.00%
7	1,511	119,986,560	18,182,550	11,998,656	152%	15.15%	10.00%
8	1,244	97,006,693	14,066,356	9,700,669	145%	14.50%	10.00%
9	1,162	90,977,345	12,293,926	9,097,734	135%	13.51%	10.00%
10	1,300	105,860,571	15,425,851	10,586,057	146%	14.57%	10.00%
11	1,150	96,276,647	14,414,695	9,627,665	150%	14.97%	10.00%
12	1,326	111,587,840	16,111,898	11,158,784	144%	14.44%	10.00%
13	1,393	118,863,280	17,134,982	11,886,328	144%	14.42%	10.00%
14	1,281	112,356,938	16,223,146	11,235,694	144%	14.44%	10.00%
15	1,128	101,511,787	16,962,928	10,151,179	167%	16.71%	10.00%
16	662	59,419,656	10,654,496	6,536,162	163%	17.93%	11.00%
17	407	35,172,321	6,053,469	4,220,678	143%	17.21%	12.00%
18	609	51,481,635	7,998,843	6,692,612	120%	15.54%	13.00%
19	1,191	100,684,320	17,842,270	14,095,805	127%	17.72%	14.00%
20	1,372	118,831,754	21,317,538	17,824,763	120%	17.94%	15.00%
21	1,345	121,159,721	23,130,071	18,173,958	127%	19.09%	15.00%
22	1,363	124,159,803	25,281,007	18,623,970	136%	20.36%	15.00%
23	996	92,102,328	18,077,075	13,815,349	131%	19.63%	15.00%
24	710	67,508,209	13,355,291	10,126,231	132%	19.78%	15.00%
25	448	43,112,945	9,163,543	6,466,942	142%	21.25%	15.00%
26	232	22,597,800	4,712,432	3,389,670	139%	20.85%	15.00%
27	156	15,349,384	3,052,980	2,302,408	133%	19.89%	15.00%
28	126	12,555,234	2,333,721	1,883,285	124%	18.59%	15.00%
29	88	8,945,054	1,687,673	1,341,758	126%	18.87%	15.00%
30	75	7,588,565	1,447,996	1,138,285	127%	19.08%	15.00%
31	49	4,749,122	1,072,948	712,368	151%	22.59%	15.00%
32	23	2,281,834	467,289	342,275	137%	20.48%	15.00%
33	13	1,314,543	301,420	197,181	153%	22.93%	15.00%
34	4	384,583	92,632	57,688	161%	24.09%	15.00%
35	3	276,961	57,012	41,544	137%	20.58%	15.00%
36	3	275,297	99,163	41,294	240%	36.02%	15.00%
37	5	422,695	139,469	63,404	220%	33.00%	15.00%
38	4	372,621	112,778	55,893	202%	30.27%	15.00%
39	4	353,763	85,982	53,065	162%	24.30%	15.00%
40	3	262,062	52,586	39,309	134%	20.07%	15.00%
41	1	87,391	565	13,109	4%	0.65%	15.00%
42	1	87,387	2,771	13,108	21%	3.17%	15.00%
43	0	-	-	-	-	-	15.00%
44	0	-	-	-	-	-	15.00%
45	0	-	-	-	-	-	15.00%
<b>Total</b>	<b>32,287</b>	<b>2,461,307,666</b>	<b>385,565,776</b>	<b>285,239,184</b>	<b>135%</b>	<b>15.67%</b>	<b>11.59%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	252	\$ 9,855,204	\$ 596,746	\$ 1,281,176	47%	6.06%	13.00%
1	1,197	47,190,671	4,757,006	6,134,787	78%	10.08%	13.00%
2	1,540	67,536,762	7,938,564	8,779,779	90%	11.75%	13.00%
3	1,841	91,195,059	11,257,776	11,855,358	95%	12.34%	13.00%
4	2,320	127,631,157	16,738,509	16,592,050	101%	13.11%	13.00%
5	2,065	140,657,951	16,864,557	18,285,534	92%	11.99%	13.00%
6	1,684	131,276,215	18,003,266	17,065,908	105%	13.71%	13.00%
7	1,511	119,986,560	18,182,550	15,598,253	117%	15.15%	13.00%
8	1,244	97,006,693	14,066,356	12,610,870	112%	14.50%	13.00%
9	1,162	90,977,345	12,293,926	11,827,055	104%	13.51%	13.00%
10	1,300	105,860,571	15,425,851	13,761,874	112%	14.57%	13.00%
11	1,150	96,276,647	14,414,695	12,515,964	115%	14.97%	13.00%
12	1,326	111,587,840	16,111,898	14,506,419	111%	14.44%	13.00%
13	1,393	118,863,280	17,134,982	15,452,226	111%	14.42%	13.00%
14	1,281	112,356,938	16,223,146	14,606,402	111%	14.44%	13.00%
15	1,128	101,511,787	16,962,928	13,196,532	129%	16.71%	13.00%
16	662	59,419,656	10,654,496	7,724,555	138%	17.93%	13.00%
17	407	35,172,321	6,053,469	4,572,402	132%	17.21%	13.00%
18	609	51,481,635	7,998,843	6,692,612	120%	15.54%	13.00%
19	1,191	100,684,320	17,842,270	13,088,962	136%	17.72%	13.00%
20	1,372	118,831,754	21,317,538	15,448,128	138%	17.94%	13.00%
21	1,345	121,159,721	23,130,071	15,750,764	147%	19.09%	13.00%
22	1,363	124,159,803	25,281,007	16,140,774	157%	20.36%	13.00%
23	996	92,102,328	18,077,075	11,973,303	151%	19.63%	13.00%
24	710	67,508,209	13,355,291	8,776,067	152%	19.78%	13.00%
25	448	43,112,945	9,163,543	5,604,683	163%	21.25%	13.00%
26	232	22,597,800	4,712,432	2,937,714	160%	20.85%	13.00%
27	156	15,349,384	3,052,980	1,995,420	153%	19.89%	13.00%
28	126	12,555,234	2,333,721	1,632,180	143%	18.59%	13.00%
29	88	8,945,054	1,687,673	1,162,857	145%	18.87%	13.00%
30	75	7,588,565	1,447,996	986,513	147%	19.08%	13.00%
31	49	4,749,122	1,072,948	617,386	174%	22.59%	13.00%
32	23	2,281,834	467,289	296,638	158%	20.48%	13.00%
33	13	1,314,543	301,420	170,891	176%	22.93%	13.00%
34	4	384,583	92,632	49,996	185%	24.09%	13.00%
35	3	276,961	57,012	36,005	158%	20.58%	13.00%
36	3	275,297	99,163	35,789	277%	36.02%	13.00%
37	5	422,695	139,469	54,950	254%	33.00%	13.00%
38	4	372,621	112,778	48,441	233%	30.27%	13.00%
39	4	353,763	85,982	45,989	187%	24.30%	13.00%
40	3	262,062	52,586	34,068	154%	20.07%	13.00%
41	1	87,391	565	11,361	5%	0.65%	13.00%
42	1	87,387	2,771	11,360	24%	3.17%	13.00%
43	0	-	-	-	-	-	13.00%
44	0	-	-	-	-	-	13.00%
45	0	-	-	-	-	-	13.00%
Total	32,287	2,461,307,666	385,565,776	319,969,997	121%	15.67%	13.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT**  
**MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-		0.00%	10.00%
1	0	-	-	-		0.00%	10.00%
2	1	\$ 89,645	\$ 26,961	\$ 8,965	301%	30.08%	10.00%
3	0	-	-	-		0.00%	10.00%
4	1	59,543	1,818	5,954	31%	3.05%	10.00%
5	0	-	-	-		0.00%	10.00%
6	0	-	-	-		0.00%	10.00%
7	0	-	-	-		0.00%	10.00%
8	1	81,797	13,721	8,180	168%	16.77%	10.00%
9	0	-	-	-		0.00%	10.00%
10	2	178,477	31,959	17,848	179%	17.91%	10.00%
11	0	-	-	-		0.00%	10.00%
12	1	87,791	6,262	8,779	71%	7.13%	10.00%
13	0	-	-	-		0.00%	10.00%
14	0	-	-	-		0.00%	10.00%
15	0	-	-	-		0.00%	10.00%
16	2	177,441	23,970	19,518	123%	13.51%	11.00%
17	2	168,407	4,802	20,209	24%	2.85%	12.00%
18	4	358,037	2,236	46,545	5%	0.62%	13.00%
19	279	23,633,811	2,885,183	3,308,734	87%	12.21%	14.00%
20	366	31,338,537	4,546,052	4,700,780	97%	14.51%	15.00%
21	258	22,965,994	3,966,932	3,444,899	115%	17.27%	15.00%
22	200	18,221,029	3,302,479	2,733,154	121%	18.12%	15.00%
23	84	7,653,960	1,216,180	1,148,094	106%	15.89%	15.00%
24	122	11,554,710	1,898,400	1,733,206	110%	16.43%	15.00%
25	98	9,759,102	1,768,932	1,463,865	121%	18.13%	15.00%
26	49	5,008,398	763,652	751,260	102%	15.25%	15.00%
27	22	2,341,969	246,054	351,295	70%	10.51%	15.00%
28	14	1,305,063	281,878	195,759	144%	21.60%	15.00%
29	17	1,877,396	135,538	281,609	48%	7.22%	15.00%
30	10	1,125,210	116,447	168,782	69%	10.35%	15.00%
31	8	1,088,081	112,109	163,212	69%	10.30%	15.00%
32	3	301,074	98,866	45,161	219%	32.84%	15.00%
33	2	225,428	53,695	33,814	159%	23.82%	15.00%
34	1	92,237	630	13,836	5%	0.68%	15.00%
35	2	181,611	17,138	27,242	63%	9.44%	15.00%
36	2	160,671	28,562	24,101	119%	17.78%	15.00%
37	0	-	-	-		0.00%	15.00%
38	1	87,171	37,994	13,076	291%	43.59%	15.00%
39	0	-	-	-		0.00%	15.00%
40	0	-	-	-		0.00%	15.00%
41	0	-	-	-		0.00%	15.00%
42	0	-	-	-		0.00%	15.00%
43	0	-	-	-		0.00%	15.00%
44	0	-	-	-		0.00%	15.00%
45	0	-	-	-		0.00%	15.00%
Total	1,552	140,122,590	21,588,450	20,737,877	104%	15.41%	14.80%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT**  
**MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-		0.00%	14.00%
1	0	-	-	-		0.00%	14.00%
2	1	\$ 89,645	\$ 26,961	\$ 12,550	215%	30.08%	14.00%
3	0	-	-	-		0.00%	14.00%
4	1	59,543	1,818	8,336	22%	3.05%	14.00%
5	0	-	-	-		0.00%	14.00%
6	0	-	-	-		0.00%	14.00%
7	0	-	-	-		0.00%	14.00%
8	1	81,797	13,721	11,452	120%	16.77%	14.00%
9	0	-	-	-		0.00%	14.00%
10	2	178,477	31,959	24,987	128%	17.91%	14.00%
11	0	-	-	-		0.00%	14.00%
12	1	87,791	6,262	12,291	51%	7.13%	14.00%
13	0	-	-	-		0.00%	14.00%
14	0	-	-	-		0.00%	14.00%
15	0	-	-	-		0.00%	14.00%
16	2	177,441	23,970	24,842	96%	13.51%	14.00%
17	2	168,407	4,802	23,577	20%	2.85%	14.00%
18	4	358,037	2,236	50,125	4%	0.62%	14.00%
19	279	23,633,811	2,885,183	3,308,734	87%	12.21%	14.00%
20	366	31,338,537	4,546,052	4,387,395	104%	14.51%	14.00%
21	258	22,965,994	3,966,932	3,215,239	123%	17.27%	14.00%
22	200	18,221,029	3,302,479	2,550,944	129%	18.12%	14.00%
23	84	7,653,960	1,216,180	1,071,554	113%	15.89%	14.00%
24	122	11,554,710	1,898,400	1,617,659	117%	16.43%	14.00%
25	98	9,759,102	1,768,932	1,366,274	129%	18.13%	14.00%
26	49	5,008,398	763,652	701,176	109%	15.25%	14.00%
27	22	2,341,969	246,054	327,876	75%	10.51%	14.00%
28	14	1,305,063	281,878	182,709	154%	21.60%	14.00%
29	17	1,877,396	135,538	262,835	52%	7.22%	14.00%
30	10	1,125,210	116,447	157,529	74%	10.35%	14.00%
31	8	1,088,081	112,109	152,331	74%	10.30%	14.00%
32	3	301,074	98,866	42,150	235%	32.84%	14.00%
33	2	225,428	53,695	31,560	170%	23.82%	14.00%
34	1	92,237	630	12,913	5%	0.68%	14.00%
35	2	181,611	17,138	25,426	67%	9.44%	14.00%
36	2	160,671	28,562	22,494	127%	17.78%	14.00%
37	0	-	-	-		0.00%	14.00%
38	1	87,171	37,994	12,204	311%	43.59%	14.00%
39	0	-	-	-		0.00%	14.00%
40	0	-	-	-		0.00%	14.00%
41	0	-	-	-		0.00%	14.00%
42	0	-	-	-		0.00%	14.00%
43	0	-	-	-		0.00%	14.00%
44	0	-	-	-		0.00%	14.00%
45	0	-	-	-		0.00%	14.00%
<b>Total</b>	<b>1,552</b>	<b>140,122,590</b>	<b>21,588,450</b>	<b>19,617,163</b>	<b>110%</b>	<b>15.41%</b>	<b>14.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			10.00%
1	1	\$ 42,018	\$ 4,054	\$ 4,202	96%	9.65%	10.00%
2	1	42,196	1,935	4,220	46%	4.59%	10.00%
3	1	50,526	1,150	5,053	23%	2.28%	10.00%
4	2	114,340	6,715	11,434	59%	5.87%	10.00%
5	4	275,420	9,474	27,542	34%	3.44%	10.00%
6	5	389,501	7,579	38,950	19%	1.95%	10.00%
7	5	409,087	2,932	40,909	7%	0.72%	10.00%
8	9	723,645	56,350	72,365	78%	7.79%	10.00%
9	9	757,795	23,781	75,779	31%	3.14%	10.00%
10	8	699,390	64,111	69,939	92%	9.17%	10.00%
11	13	1,084,474	20,103	108,447	19%	1.85%	10.00%
12	12	1,004,931	53,011	100,493	53%	5.28%	10.00%
13	11	988,910	62,013	98,891	63%	6.27%	10.00%
14	12	1,091,095	92,204	109,109	85%	8.45%	10.00%
15	12	1,072,443	62,750	107,244	59%	5.85%	10.00%
16	6	543,923	35,922	59,832	60%	6.60%	11.00%
17	1	108,514	2,765	13,022	21%	2.55%	12.00%
18	1	79,888	-	10,385			13.00%
19	11	954,525	93,694	133,633	70%	9.82%	14.00%
20	16	1,483,686	184,860	222,553	83%	12.46%	15.00%
21	17	1,496,130	129,853	224,420	58%	8.68%	15.00%
22	14	1,285,141	83,214	192,771	43%	6.48%	15.00%
23	7	631,750	102,380	94,762	108%	16.21%	15.00%
24	3	252,271	18,187	37,841	48%	7.21%	15.00%
25	7	641,763	79,079	96,265	82%	12.32%	15.00%
26	2	179,261	29,392	26,889	109%	16.40%	15.00%
27	1	87,387	17,760	13,108	135%	20.32%	15.00%
28	2	200,350	32,724	30,052	109%	16.33%	15.00%
29	0	-	-	-			15.00%
30	0	-	-	-			15.00%
31	0	-	-	-			15.00%
32	1	87,075	41,571	13,061	318%	47.74%	15.00%
33	1	109,475	636	16,421	4%	0.58%	15.00%
34	0	-	-	-			15.00%
35	0	-	-	-			15.00%
36	0	-	-	-			15.00%
37	0	-	-	-			15.00%
38	0	-	-	-			15.00%
39	0	-	-	-			15.00%
40	0	-	-	-			15.00%
41	0	-	-	-			15.00%
42	0	-	-	-			15.00%
43	0	-	-	-			15.00%
44	0	-	-	-			15.00%
45	0	-	-	-			15.00%
Total	195	16,886,909	1,320,199	2,059,593	64%	7.82%	12.20%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT**  
**MEN AND WOMEN**

TABLE 13C

4-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			13.00%
1	1	\$ 42,018	\$ 4,054	\$ 5,462	74%	9.65%	13.00%
2	1	42,196	1,935	5,486	35%	4.59%	13.00%
3	1	50,526	1,150	6,568	18%	2.28%	13.00%
4	2	114,340	6,715	14,864	45%	5.87%	13.00%
5	4	275,420	9,474	35,805	26%	3.44%	13.00%
6	5	389,501	7,579	50,635	15%	1.95%	13.00%
7	5	409,087	2,932	53,181	6%	0.72%	13.00%
8	9	723,645	56,350	94,074	60%	7.79%	13.00%
9	9	757,795	23,781	98,513	24%	3.14%	13.00%
10	8	699,390	64,111	90,921	71%	9.17%	13.00%
11	13	1,084,474	20,103	140,982	14%	1.85%	13.00%
12	12	1,004,931	53,011	130,641	41%	5.28%	13.00%
13	11	988,910	62,013	128,558	48%	6.27%	13.00%
14	12	1,091,095	92,204	141,842	65%	8.45%	13.00%
15	12	1,072,443	62,750	139,418	45%	5.85%	13.00%
16	6	543,923	35,922	70,710	51%	6.60%	13.00%
17	1	108,514	2,765	14,107	20%	2.55%	13.00%
18	1	79,888	-	10,385			13.00%
19	11	954,525	93,694	124,088	76%	9.82%	13.00%
20	16	1,483,686	184,860	192,879	96%	12.46%	13.00%
21	17	1,496,130	129,853	194,497	67%	8.68%	13.00%
22	14	1,285,141	83,214	167,068	50%	6.48%	13.00%
23	7	631,750	102,380	82,127	125%	16.21%	13.00%
24	3	252,271	18,187	32,795	55%	7.21%	13.00%
25	7	641,763	79,079	83,429	95%	12.32%	13.00%
26	2	179,261	29,392	23,304	126%	16.40%	13.00%
27	1	87,387	17,760	11,360	156%	20.32%	13.00%
28	2	200,350	32,724	26,045	126%	16.33%	13.00%
29	0	-	-	-			13.00%
30	0	-	-	-			13.00%
31	0	-	-	-			13.00%
32	1	87,075	41,571	11,320	367%	47.74%	13.00%
33	1	109,475	636	14,232	4%	0.58%	13.00%
34	0	-	-	-			13.00%
35	0	-	-	-			13.00%
36	0	-	-	-			13.00%
37	0	-	-	-			13.00%
38	0	-	-	-			13.00%
39	0	-	-	-			13.00%
40	0	-	-	-			13.00%
41	0	-	-	-			13.00%
42	0	-	-	-			13.00%
43	0	-	-	-			13.00%
44	0	-	-	-			13.00%
45	0	-	-	-			13.00%
Total	195	16,886,909	1,320,199	2,195,298	60%	7.82%	13.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE FOR ALL YEARS**  
**MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1,625	\$ 51,816,726	\$ 1,402,146	\$ 5,181,673	27%	2.71%	10.00%
1	3,459	128,624,665	11,984,091	12,862,467	93%	9.32%	10.00%
2	4,103	167,536,632	19,034,710	16,753,663	114%	11.36%	10.00%
3	4,266	195,995,655	22,826,139	19,599,565	116%	11.65%	10.00%
4	4,339	219,346,600	25,970,103	21,934,660	118%	11.84%	10.00%
5	3,842	235,517,204	25,339,620	23,551,720	108%	10.76%	10.00%
6	3,907	270,108,927	31,831,340	27,010,893	118%	11.78%	10.00%
7	3,841	270,694,235	34,099,746	27,069,424	126%	12.60%	10.00%
8	3,325	235,534,938	28,015,641	23,553,494	119%	11.89%	10.00%
9	2,932	211,937,153	24,531,530	21,193,715	116%	11.57%	10.00%
10	2,775	210,290,883	27,292,587	21,029,088	130%	12.98%	10.00%
11	2,594	201,206,591	27,517,480	20,120,659	137%	13.68%	10.00%
12	2,625	202,128,796	26,460,248	20,212,880	131%	13.09%	10.00%
13	3,325	246,461,168	29,089,826	24,646,117	118%	11.80%	10.00%
14	3,860	284,274,416	32,959,784	28,427,442	116%	11.59%	10.00%
15	4,291	322,098,650	38,819,780	32,209,865	121%	12.05%	10.00%
16	4,782	351,589,559	41,121,198	38,674,851	106%	11.70%	11.00%
17	4,800	352,985,674	44,992,431	42,358,281	106%	12.75%	12.00%
18	5,037	377,351,637	50,473,146	49,055,713	103%	13.38%	13.00%
19	3,864	301,230,962	45,624,368	42,172,335	108%	15.15%	14.00%
20	2,811	229,983,985	38,871,555	34,497,598	113%	16.90%	15.00%
21	2,378	203,980,996	36,424,848	30,597,149	119%	17.86%	15.00%
22	2,002	175,568,303	32,488,142	26,335,246	123%	18.50%	15.00%
23	1,449	129,405,145	22,987,773	19,410,772	118%	17.76%	15.00%
24	998	91,366,470	16,571,123	13,704,970	121%	18.14%	15.00%
25	642	59,751,597	11,356,217	8,962,739	127%	19.01%	15.00%
26	368	34,454,963	6,289,754	5,168,245	122%	18.26%	15.00%
27	257	23,966,634	4,323,623	3,594,995	120%	18.04%	15.00%
28	184	17,355,758	3,097,390	2,603,364	119%	17.85%	15.00%
29	128	12,222,678	2,283,227	1,833,402	125%	18.68%	15.00%
30	110	10,143,012	1,852,690	1,521,452	122%	18.27%	15.00%
31	84	7,335,883	1,352,704	1,100,383	123%	18.44%	15.00%
32	46	4,198,234	697,112	629,735	111%	16.60%	15.00%
33	32	2,936,957	460,049	440,543	104%	15.66%	15.00%
34	16	1,350,217	257,375	202,532	127%	19.06%	15.00%
35	11	858,582	180,670	128,787	140%	21.04%	15.00%
36	8	633,394	179,349	95,009	189%	28.32%	15.00%
37	6	497,039	139,870	74,556	188%	28.14%	15.00%
38	5	450,248	113,196	67,537	168%	25.14%	15.00%
39	4	353,763	85,982	53,065	162%	24.30%	15.00%
40	3	262,062	52,586	39,309	134%	20.07%	15.00%
41	1	87,391	565	13,109	4%	0.65%	15.00%
42	2	150,294	2,771	22,544	12%	1.84%	15.00%
43	1	64,782	-	9,717			15.00%
44	2	134,053	304	20,108	2%	0.23%	15.00%
45	1	72,435	-	10,865			15.00%
<b>Total</b>	<b>85,141</b>	<b>5,844,315,947</b>	<b>769,454,789</b>	<b>668,756,235</b>	<b>115%</b>	<b>13.17%</b>	<b>11.44%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE FOR ALL YEARS**  
**MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1,625	\$ 51,816,726	\$ 1,402,146	\$ 6,736,174	21%	2.71%	13.00%
1	3,459	128,624,665	11,984,091	16,721,207	72%	9.32%	13.00%
2	4,103	167,536,632	19,034,710	21,779,762	87%	11.36%	13.00%
3	4,266	195,995,655	22,826,139	25,479,435	90%	11.65%	13.00%
4	4,339	219,346,600	25,970,103	28,515,058	91%	11.84%	13.00%
5	3,842	235,517,204	25,339,620	30,617,236	83%	10.76%	13.00%
6	3,907	270,108,927	31,831,340	35,114,161	91%	11.78%	13.00%
7	3,841	270,694,235	34,099,746	35,190,251	97%	12.60%	13.00%
8	3,325	235,534,938	28,015,641	30,619,542	91%	11.89%	13.00%
9	2,932	211,937,153	24,531,530	27,551,830	89%	11.57%	13.00%
10	2,775	210,290,883	27,292,587	27,337,815	100%	12.98%	13.00%
11	2,594	201,206,591	27,517,480	26,156,857	105%	13.68%	13.00%
12	2,625	202,128,796	26,460,248	26,276,744	101%	13.09%	13.00%
13	3,325	246,461,168	29,089,826	32,039,952	91%	11.80%	13.00%
14	3,860	284,274,416	32,959,784	36,955,674	89%	11.59%	13.00%
15	4,291	322,098,650	38,819,780	41,872,825	93%	12.05%	13.00%
16	4,782	351,589,559	41,121,198	45,706,643	90%	11.70%	13.00%
17	4,800	352,985,674	44,992,431	45,888,138	98%	12.75%	13.00%
18	5,037	377,351,637	50,473,146	49,055,713	103%	13.38%	13.00%
19	3,864	301,230,962	45,624,368	39,160,025	117%	15.15%	13.00%
20	2,811	229,983,985	38,871,555	29,897,918	130%	16.90%	13.00%
21	2,378	203,980,996	36,424,848	26,517,529	137%	17.86%	13.00%
22	2,002	175,568,303	32,488,142	22,823,879	142%	18.50%	13.00%
23	1,449	129,405,145	22,987,773	16,822,669	137%	17.76%	13.00%
24	998	91,366,470	16,571,123	11,877,641	140%	18.14%	13.00%
25	642	59,751,597	11,356,217	7,767,708	146%	19.01%	13.00%
26	368	34,454,963	6,289,754	4,479,145	140%	18.26%	13.00%
27	257	23,966,634	4,323,623	3,115,662	139%	18.04%	13.00%
28	184	17,355,758	3,097,390	2,256,249	137%	17.85%	13.00%
29	128	12,222,678	2,283,227	1,588,948	144%	18.68%	13.00%
30	110	10,143,012	1,852,690	1,318,592	141%	18.27%	13.00%
31	84	7,335,883	1,352,704	953,665	142%	18.44%	13.00%
32	46	4,198,234	697,112	545,770	128%	16.60%	13.00%
33	32	2,936,957	460,049	381,804	120%	15.66%	13.00%
34	16	1,350,217	257,375	175,528	147%	19.06%	13.00%
35	11	858,582	180,670	111,616	162%	21.04%	13.00%
36	8	633,394	179,349	82,341	218%	28.32%	13.00%
37	6	497,039	139,870	64,615	216%	28.14%	13.00%
38	5	450,248	113,196	58,532	193%	25.14%	13.00%
39	4	353,763	85,982	45,989	187%	24.30%	13.00%
40	3	262,062	52,586	34,068	154%	20.07%	13.00%
41	1	87,391	565	11,361	5%	0.65%	13.00%
42	2	150,294	2,771	19,538	14%	1.84%	13.00%
43	1	64,782	-	8,422			13.00%
44	2	134,053	304	17,427	2%	0.23%	13.00%
45	1	72,435	-	9,417			13.00%
<b>Total</b>	<b>85,141</b>	<b>5,844,315,947</b>	<b>769,454,789</b>	<b>759,761,073</b>	<b>101%</b>	<b>13.17%</b>	<b>13.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT**  
**MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1	\$ 72,644	\$ 4,204	\$ 7,264	58%	5.79%	10.00%
1	0	-	-	-			10.00%
2	1	89,645	26,961	8,965	301%	30.08%	10.00%
3	0	-	-	-			10.00%
4	1	59,543	1,818	5,954	31%	3.05%	10.00%
5	0	-	-	-			10.00%
6	0	-	-	-			10.00%
7	0	-	-	-			10.00%
8	1	81,797	13,721	8,180	168%	16.77%	10.00%
9	2	146,843	19,167	14,684	131%	13.05%	10.00%
10	2	178,477	31,959	17,848	179%	17.91%	10.00%
11	1	78,180	16,786	7,818	215%	21.47%	10.00%
12	1	87,791	6,262	8,779	71%	7.13%	10.00%
13	8	507,590	53,114	50,759	105%	10.46%	10.00%
14	15	976,804	113,846	97,680	117%	11.65%	10.00%
15	42	2,884,630	249,464	288,463	86%	8.65%	10.00%
16	132	9,228,714	770,633	1,015,158	76%	8.35%	11.00%
17	145	10,244,485	1,059,120	1,229,338	86%	10.34%	12.00%
18	201	14,163,884	1,314,313	1,841,305	71%	9.28%	13.00%
19	1,452	107,924,975	11,587,009	15,109,497	77%	10.74%	14.00%
20	1,150	89,288,695	11,192,790	13,393,304	84%	12.54%	15.00%
21	447	37,156,875	5,707,494	5,573,531	102%	15.36%	15.00%
22	267	23,395,757	3,951,787	3,509,363	113%	16.89%	15.00%
23	147	12,731,635	1,816,025	1,909,745	95%	14.26%	15.00%
24	203	18,246,970	2,539,526	2,737,046	93%	13.92%	15.00%
25	142	13,481,456	2,222,454	2,022,218	110%	16.49%	15.00%
26	78	7,655,934	991,571	1,148,390	86%	12.95%	15.00%
27	32	3,094,383	339,635	464,157	73%	10.98%	15.00%
28	23	2,045,137	374,487	306,771	122%	18.31%	15.00%
29	28	2,764,408	237,958	414,661	57%	8.61%	15.00%
30	18	1,755,682	171,880	263,352	65%	9.79%	15.00%
31	11	1,309,235	131,437	196,385	67%	10.04%	15.00%
32	15	1,246,457	200,327	186,969	107%	16.07%	15.00%
33	7	623,175	168,308	93,476	180%	27.01%	15.00%
34	7	747,777	24,442	112,167	22%	3.27%	15.00%
35	3	340,427	17,138	51,064	34%	5.03%	15.00%
36	2	160,671	28,562	24,101	119%	17.78%	15.00%
37	1	74,230	1,731	11,134	16%	2.33%	15.00%
38	1	87,171	37,994	13,076	291%	43.59%	15.00%
39	0	-	-	-			15.00%
40	0	-	-	-			15.00%
41	0	-	-	-			15.00%
42	0	-	-	-			15.00%
43	0	-	-	-			15.00%
44	0	-	-	-			15.00%
45	1	64,476	762	9,671	8%	1.18%	15.00%
Total	4,588	362,996,551	45,424,685	52,152,275	87%	12.51%	14.37%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT**  
**MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1	\$ 72,644	\$ 4,204	\$ 10,170	41%	5.79%	14.00%
1	0	-	-	-			14.00%
2	1	89,645	26,961	12,550	215%	30.08%	14.00%
3	0	-	-	-			14.00%
4	1	59,543	1,818	8,336	22%	3.05%	14.00%
5	0	-	-	-			14.00%
6	0	-	-	-			14.00%
7	0	-	-	-			14.00%
8	1	81,797	13,721	11,452	120%	16.77%	14.00%
9	2	146,843	19,167	20,558	93%	13.05%	14.00%
10	2	178,477	31,959	24,987	128%	17.91%	14.00%
11	1	78,180	16,786	10,945	153%	21.47%	14.00%
12	1	87,791	6,262	12,291	51%	7.13%	14.00%
13	8	507,590	53,114	71,063	75%	10.46%	14.00%
14	15	976,804	113,846	136,753	83%	11.65%	14.00%
15	42	2,884,630	249,464	403,848	62%	8.65%	14.00%
16	132	9,228,714	770,633	1,292,020	60%	8.35%	14.00%
17	145	10,244,485	1,059,120	1,434,228	74%	10.34%	14.00%
18	201	14,163,884	1,314,313	1,982,944	66%	9.28%	14.00%
19	1,452	107,924,975	11,587,009	15,109,497	77%	10.74%	14.00%
20	1,150	89,288,695	11,192,790	12,500,417	90%	12.54%	14.00%
21	447	37,156,875	5,707,494	5,201,962	110%	15.36%	14.00%
22	267	23,395,757	3,951,787	3,275,406	121%	16.89%	14.00%
23	147	12,731,635	1,816,025	1,782,429	102%	14.26%	14.00%
24	203	18,246,970	2,539,526	2,554,576	99%	13.92%	14.00%
25	142	13,481,456	2,222,454	1,887,404	118%	16.49%	14.00%
26	78	7,655,934	991,571	1,071,831	93%	12.95%	14.00%
27	32	3,094,383	339,635	433,214	78%	10.98%	14.00%
28	23	2,045,137	374,487	286,319	131%	18.31%	14.00%
29	28	2,764,408	237,958	387,017	61%	8.61%	14.00%
30	18	1,755,682	171,880	245,795	70%	9.79%	14.00%
31	11	1,309,235	131,437	183,293	72%	10.04%	14.00%
32	15	1,246,457	200,327	174,504	115%	16.07%	14.00%
33	7	623,175	168,308	87,244	193%	27.01%	14.00%
34	7	747,777	24,442	104,689	23%	3.27%	14.00%
35	3	340,427	17,138	47,660	36%	5.03%	14.00%
36	2	160,671	28,562	22,494	127%	17.78%	14.00%
37	1	74,230	1,731	10,392	17%	2.33%	14.00%
38	1	87,171	37,994	12,204	311%	43.59%	14.00%
39	0	-	-	-			14.00%
40	0	-	-	-			14.00%
41	0	-	-	-			14.00%
42	0	-	-	-			14.00%
43	0	-	-	-			14.00%
44	0	-	-	-			14.00%
45	1	64,476	762	9,027	8%	1.18%	14.00%
Total	4,588	362,996,551	45,424,685	50,819,517	89%	12.51%	14.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			10.00%
1	3	\$ 120,192	\$ 5,727	\$ 12,019	48%	4.76%	10.00%
2	3	157,474	3,842	15,747	24%	2.44%	10.00%
3	3	138,233	3,396	13,823	25%	2.46%	10.00%
4	5	267,676	7,916	26,768	30%	2.96%	10.00%
5	9	587,544	16,492	58,754	28%	2.81%	10.00%
6	9	666,082	14,979	66,608	22%	2.25%	10.00%
7	16	1,124,815	26,934	112,482	24%	2.39%	10.00%
8	19	1,417,449	71,500	141,745	50%	5.04%	10.00%
9	18	1,426,381	44,852	142,638	31%	3.14%	10.00%
10	26	1,958,398	105,162	195,840	54%	5.37%	10.00%
11	26	2,053,120	52,434	205,312	26%	2.55%	10.00%
12	25	1,894,639	77,564	189,464	41%	4.09%	10.00%
13	30	2,247,175	130,852	224,718	58%	5.82%	10.00%
14	34	2,542,469	132,012	254,247	52%	5.19%	10.00%
15	39	2,910,757	121,633	291,076	42%	4.18%	10.00%
16	44	3,182,651	146,443	350,092	42%	4.60%	11.00%
17	34	2,540,526	173,147	304,863	57%	6.82%	12.00%
18	28	2,120,489	138,228	275,664	50%	6.52%	13.00%
19	40	3,181,752	265,994	445,445	60%	8.36%	14.00%
20	30	2,583,029	285,532	387,454	74%	11.05%	15.00%
21	25	2,125,704	199,437	318,856	63%	9.38%	15.00%
22	17	1,548,603	118,605	232,290	51%	7.66%	15.00%
23	8	723,387	105,386	108,508	97%	14.57%	15.00%
24	6	483,068	48,939	72,460	68%	10.13%	15.00%
25	9	783,395	100,778	117,509	86%	12.86%	15.00%
26	2	179,261	29,392	26,889	109%	16.40%	15.00%
27	1	87,387	17,760	13,108	135%	20.32%	15.00%
28	2	200,350	32,724	30,052	109%	16.33%	15.00%
29	3	225,983	27,613	33,898	81%	12.22%	15.00%
30	1	61,362	217	9,204	2%	0.35%	15.00%
31	0	-	-	-			15.00%
32	2	161,590	41,571	24,239	172%	25.73%	15.00%
33	2	179,793	636	26,969	2%	0.35%	15.00%
34	1	72,177	-	10,826			15.00%
35	0	-	-	-			15.00%
36	0	-	-	-			15.00%
37	0	-	-	-			15.00%
38	0	-	-	-			15.00%
39	0	-	-	-			15.00%
40	0	-	-	-			15.00%
41	0	-	-	-			15.00%
42	0	-	-	-			15.00%
43	0	-	-	-			15.00%
44	0	-	-	-			15.00%
45	0	-	-	-			15.00%
Total	520	39,952,911	2,547,697	4,739,567	54%	6.38%	11.86%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS**  
**OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT**  
**MEN AND WOMEN**

TABLE 13C

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			13.00%
1	3	\$ 120,192	\$ 5,727	\$ 15,625	37%	4.76%	13.00%
2	3	157,474	3,842	20,472	19%	2.44%	13.00%
3	3	138,233	3,396	17,970	19%	2.46%	13.00%
4	5	267,676	7,916	34,798	23%	2.96%	13.00%
5	9	587,544	16,492	76,381	22%	2.81%	13.00%
6	9	666,082	14,979	86,591	17%	2.25%	13.00%
7	16	1,124,815	26,934	146,226	18%	2.39%	13.00%
8	19	1,417,449	71,500	184,268	39%	5.04%	13.00%
9	18	1,426,381	44,852	185,430	24%	3.14%	13.00%
10	26	1,958,398	105,162	254,592	41%	5.37%	13.00%
11	26	2,053,120	52,434	266,906	20%	2.55%	13.00%
12	25	1,894,639	77,564	246,303	31%	4.09%	13.00%
13	30	2,247,175	130,852	292,133	45%	5.82%	13.00%
14	34	2,542,469	132,012	330,521	40%	5.19%	13.00%
15	39	2,910,757	121,633	378,398	32%	4.18%	13.00%
16	44	3,182,651	146,443	413,745	35%	4.60%	13.00%
17	34	2,540,526	173,147	330,268	52%	6.82%	13.00%
18	28	2,120,489	138,228	275,664	50%	6.52%	13.00%
19	40	3,181,752	265,994	413,628	64%	8.36%	13.00%
20	30	2,583,029	285,532	335,794	85%	11.05%	13.00%
21	25	2,125,704	199,437	276,342	72%	9.38%	13.00%
22	17	1,548,603	118,605	201,318	59%	7.66%	13.00%
23	8	723,387	105,386	94,040	112%	14.57%	13.00%
24	6	483,068	48,939	62,799	78%	10.13%	13.00%
25	9	783,395	100,778	101,841	99%	12.86%	13.00%
26	2	179,261	29,392	23,304	126%	16.40%	13.00%
27	1	87,387	17,760	11,360	156%	20.32%	13.00%
28	2	200,350	32,724	26,045	126%	16.33%	13.00%
29	3	225,983	27,613	29,378	94%	12.22%	13.00%
30	1	61,362	217	7,977	3%	0.35%	13.00%
31	0	-	-	-			13.00%
32	2	161,590	41,571	21,007	198%	25.73%	13.00%
33	2	179,793	636	23,373	3%	0.35%	13.00%
34	1	72,177	-	9,383			13.00%
35	0	-	-	-			13.00%
36	0	-	-	-			13.00%
37	0	-	-	-			13.00%
38	0	-	-	-			13.00%
39	0	-	-	-			13.00%
40	0	-	-	-			13.00%
41	0	-	-	-			13.00%
42	0	-	-	-			13.00%
43	0	-	-	-			13.00%
44	0	-	-	-			13.00%
45	0	-	-	-			13.00%
Total	520	39,952,911	2,547,697	5,193,878	49%	6.38%	13.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - CORRECTIONS  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 13D				10-YEAR PERIOD ENDING 6/30/2013		
	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual (4) / (3) (7)	Expected (5) / (3) (8)
2004	9,293	\$ 553,215,410	\$ 40,755,736	\$ 60,075,026	68%	7.37%	10.86%
2005	8,970	547,694,140	56,928,113	60,422,061	94%	10.39%	11.03%
2006	8,772	569,951,778	51,643,273	64,087,853	81%	9.06%	11.24%
2007	8,552	555,403,943	58,704,467	63,538,968	92%	10.57%	11.44%
2008	8,648	571,715,746	83,991,282	66,457,526	126%	14.69%	11.62%
2009	8,621	585,179,599	91,866,142	68,958,467	133%	15.70%	11.78%
2010	8,616	605,200,242	84,880,168	71,341,802	119%	14.03%	11.79%
2011	8,143	605,608,064	81,791,573	70,662,526	116%	13.51%	11.67%
2012	7,807	628,860,410	97,632,265	72,290,914	135%	15.53%	11.50%
2013	7,725	621,980,997	121,261,770	70,995,249	171%	19.50%	11.41%
Total	85,147	5,844,810,329	769,454,789	668,830,392	115%	13.16%	11.44%

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Ratio of Actual to Proposed		
	Service Retiree Mortality						
1A	Men	83%	21	94%	97%	22	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
1B	Women	128%	3	99%	104%	2	
1C	Men & Women	86%	23	94%	97%	24	
1D	By Year						
	Disabled Retiree Mortality						
2A	Men	108%	5	85%	102%	4	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014. The following NYCERS groups were combined for this study: General, Transit, Sanitation, Corrections, and TBTA.
2B	Women	114%	1	74%	61%	0	
2C	Men & Women	108%	5	84%	97%	4	
2D	By Year						
	Active Member Withdrawals						
3A	Men	151%	19	161%	127%	21	Actual withdrawals are considerably outpacing the expectations. We recommend a higher assumption.
3B	Women	391%	13	301%	243%	11	
3C	Men & Women	203%	32	192%	152%	32	
3D	By Year						
	Active Member Service Retirements						
	In 1st Year of Eligibility						Very small data set, no credibility. Due to limited experience, we recommend using the General group's reduced retirement proposed assumption.
4A	Total	116%	16	74%	74%	9	
4B	Elected	145%	9	74%	74%	5	
4C	Mandated	91%	7	73%	73%	4	
	In 2nd Year of Eligibility						
5A	Total	74%	3	135%	135%	7	
5B	Elected	45%	1	126%	126%	3	
5C	Mandated	84%	3	142%	142%	4	
	After 2nd Year of Eligibility						
6A	Total	80%	15	99%	99%	17	
6B	Elected	127%	6	151%	151%	7	
6C	Mandated	66%	9	77%	77%	9	
6D	By Year						
	Reduced Service Retirements						
7A	Total	390%	14	406%	406%	13	
7B	By Year						

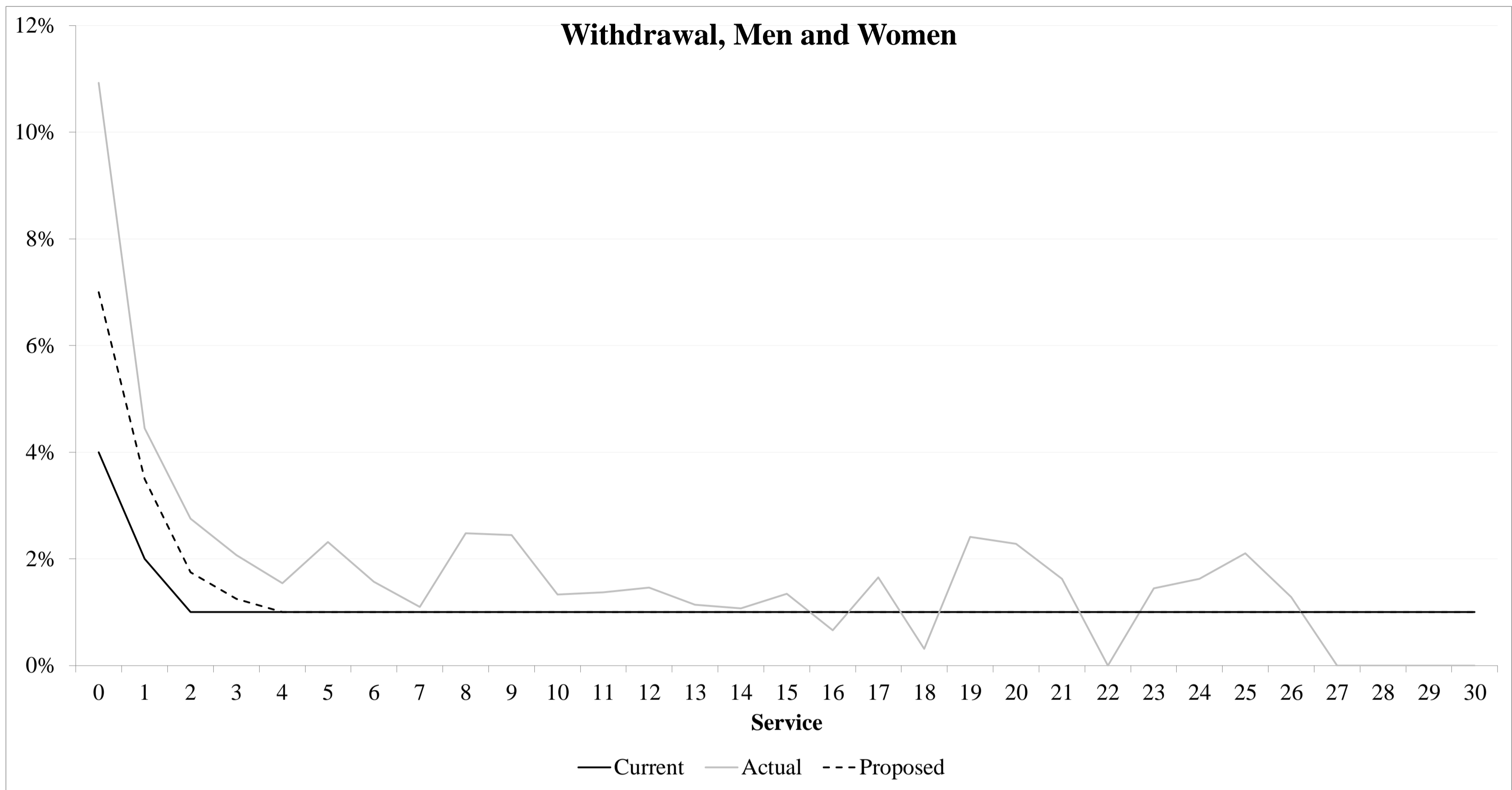
NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Proposed		
8A	Active Member Ordinary Mortality Men	60%	1	82%	82%	1	Very small data set, no credibility.
8B	Women	112%	0	94%	94%	0	
8C	Men & Women	66%	1	83%	83%	2	
8D	By Year						
9A	Active Member Accidental Mortality By Year	0%	0	0%	0%	0	Very small data set, no credibility.
10A	Active Member Ordinary Disability Men	85%	2	105%	105%	3	Very small data set, no credibility.
10B	Women	41%	0	117%	117%	1	
10C	Men & Women	76%	2	107%	107%	3	
10D	By Year						
11A	Active Member Accidental Disability Men	0%	0	40%	73%	0	Very small data set, no credibility.
11B	Women	342%	0	169%	169%	0	
11C	Men & Women	24%	0	49%	85%	1	
11D	By Year						
12A	Salary Increases** Total	<u>Expected</u> 4.70%	<u>Actual</u> 2.78%	<u>Expected</u> 5.23%	<u>Proposed</u> 5.07%	<u>Actual</u> 4.46%	Overall, expected general increases have slightly outpaced experience. Merit increases have been lower than expected.
12B	Merit Only	1.20%	0.72%	1.73%	1.32%	1.10%	
12C	General Increase over Inflation By Year	1.00%	-1.68%	1.00%	1.25%	1.28%	
13A	Overtime Pay** For All Years	<u>Expected</u> 20.00%	<u>Actual</u> 18.64%	<u>Expected</u> 20.00%	<u>Proposed</u> 20.00%	<u>Actual</u> 20.80%	Experience has been close to the Expected assumption. Members are working less Overtime before becoming disabled.
13B	In Year Before Service Retirement	20.00%	17.64%	20.00%	22.00%	27.08%	
13C	In Year Before Disability Retirement By Year	20.00%	12.45%	20.00%	20.00%	14.47%	

\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
 WITHDRAWAL ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

TABLE 1A				4-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.1597%	0.1800%	0	0	0%	0%
42	0	0	N/A	0.2033%	0.1964%	0	0	0%	0%
43	0	0	N/A	0.2442%	0.2140%	0	0	0%	0%
44	0	0	N/A	0.2825%	0.2329%	0	0	0%	0%
45	0	0	N/A	0.3182%	0.2531%	0	0	0%	0%
46	0	0	N/A	0.3473%	0.2744%	0	0	0%	0%
47	0	0	N/A	0.3729%	0.2968%	0	0	0%	0%
48	0	0	N/A	0.3954%	0.3206%	0	0	0%	0%
49	0	0	N/A	0.4146%	0.3455%	0	0	0%	0%
50	1	7	0.142857	0.4307%	0.3720%	0.0	0.0	3317%	3840%
51	0	22	0.000000	0.4875%	0.4006%	0.1	0.1	0%	0%
52	0	21	0.000000	0.5460%	0.4320%	0.1	0.1	0%	0%
53	0	34	0.000000	0.6110%	0.4669%	0.2	0.2	0%	0%
54	1	49	0.020408	0.6785%	0.5058%	0.3	0.2	301%	403%
55	0	61	0.000000	0.7545%	0.5494%	0.5	0.3	0%	0%
56	0	95	0.000000	0.8125%	0.5983%	0.8	0.6	0%	0%
57	3	115	0.026087	0.8712%	0.6533%	1.0	0.8	299%	399%
58	0	113	0.000000	0.9309%	0.7148%	1.1	0.8	0%	0%
59	1	141	0.007092	0.9834%	0.7836%	1.4	1.1	72%	91%
60	0	149	0.000000	1.0360%	0.8603%	1.5	1.3	0%	0%
61	1	160	0.006250	1.1527%	0.9456%	1.8	1.5	54%	66%
62	4	189	0.021164	1.2582%	1.0393%	2.4	2.0	168%	204%
63	2	189	0.010582	1.3720%	1.1423%	2.6	2.2	77%	93%
64	1	176	0.005682	1.4726%	1.2554%	2.6	2.2	39%	45%
65	3	153	0.019608	1.5702%	1.3799%	2.4	2.1	125%	142%
66	1	131	0.007634	1.7139%	1.5166%	2.2	2.0	45%	50%
67	3	130	0.023077	1.8447%	1.6669%	2.4	2.2	125%	138%
68	2	119	0.016807	1.9597%	1.8320%	2.3	2.2	86%	92%
69	2	108	0.018519	2.0894%	2.0136%	2.3	2.2	89%	92%
70	2	93	0.021505	2.2013%	2.2131%	2.0	2.1	98%	97%
71	1	72	0.013889	2.3984%	2.4324%	1.7	1.8	58%	57%
72	2	64	0.031250	2.5999%	2.6735%	1.7	1.7	120%	117%
73	5	62	0.080645	2.8053%	2.9384%	1.7	1.8	287%	274%
74	0	60	0.000000	3.0149%	3.2295%	1.8	1.9	0%	0%
75	3	65	0.046154	3.2551%	3.5496%	2.1	2.3	142%	130%
76	3	64	0.046875	3.7527%	3.9013%	2.4	2.5	125%	120%
77	0	68	0.000000	4.2954%	4.2879%	2.9	2.9	0%	0%
78	2	64	0.031250	4.8575%	4.7128%	3.1	3.0	64%	66%
79	2	61	0.032787	5.4395%	5.1798%	3.3	3.2	60%	63%
80	2	62	0.032258	6.0416%	5.6931%	3.7	3.5	53%	57%
81	2	58	0.034483	6.6973%	6.2572%	3.9	3.6	51%	55%
82	4	58	0.068966	7.3631%	6.8772%	4.3	4.0	94%	100%
83	2	53	0.037736	7.9745%	7.5587%	4.2	4.0	47%	50%
84	2	50	0.040000	8.6555%	8.3077%	4.3	4.2	46%	48%
85	4	51	0.078431	9.2719%	9.1310%	4.7	4.7	85%	86%
86	4	42	0.095238	10.4648%	10.0358%	4.4	4.2	91%	95%
87	5	38	0.131579	11.7953%	11.0303%	4.5	4.2	112%	119%
88	4	31	0.129032	13.1900%	12.1233%	4.1	3.8	98%	106%
89	3	17	0.176471	14.5331%	13.3246%	2.5	2.3	121%	132%
90	1	12	0.083333	16.0483%	14.6450%	1.9	1.8	52%	57%
91	0	11	0.000000	17.8244%	16.0962%	2.0	1.8	0%	0%
92	1	7	0.142857	19.7255%	17.6912%	1.4	1.2	72%	81%
93	1	8	0.125000	21.4517%	19.4443%	1.7	1.6	58%	64%
94	1	5	0.200000	23.1923%	21.3710%	1.2	1.1	86%	94%
95	2	2	1.000000	25.3168%	23.4887%	0.5	0.5	395%	426%
96	0	0	N/A	27.1711%	25.8163%	0	0	0%	0%
97	0	0	N/A	28.9556%	28.3745%	0	0	0%	0%
98	0	0	N/A	30.9964%	31.1862%	0	0	0%	0%
99	0	0	N/A	32.6018%	34.2765%	0	0	0%	0%
Subtotal	83	3,340				100.2	93.4	83%	89%
100 or more	0	0	N/A	37.1685%	45.5092%	0	0	0%	0%
Total	83	3,340				100.2	93.4	83%	89%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0783%	0.1485%	0	0	0%	0%
42	0	0	N/A	0.0868%	0.1594%	0	0	0%	0%
43	0	0	N/A	0.0975%	0.1702%	0	0	0%	0%
44	0	0	N/A	0.1105%	0.1810%	0	0	0%	0%
45	0	0	N/A	0.1251%	0.1918%	0	0	0%	0%
46	0	0	N/A	0.1417%	0.2024%	0	0	0%	0%
47	0	0	N/A	0.1603%	0.2130%	0	0	0%	0%
48	0	0	N/A	0.1817%	0.2231%	0	0	0%	0%
49	0	0	N/A	0.2048%	0.2329%	0	0	0%	0%
50	0	0	N/A	0.2307%	0.2471%	0	0	0%	0%
51	0	4	0.000000	0.2622%	0.2656%	0.0	0.0	0%	0%
52	0	4	0.000000	0.2990%	0.2885%	0.0	0.0	0%	0%
53	0	11	0.000000	0.3392%	0.3158%	0.0	0.0	0%	0%
54	0	11	0.000000	0.3835%	0.3474%	0.0	0.0	0%	0%
55	0	12	0.000000	0.4321%	0.3835%	0.1	0.0	0%	0%
56	0	10	0.000000	0.5051%	0.4239%	0.1	0.0	0%	0%
57	1	7	0.142857	0.5811%	0.4687%	0.0	0.0	2458%	3048%
58	0	7	0.000000	0.6577%	0.5178%	0.0	0.0	0%	0%
59	0	9	0.000000	0.7386%	0.5714%	0.1	0.1	0%	0%
60	0	12	0.000000	0.8236%	0.6294%	0.1	0.1	0%	0%
61	1	12	0.083333	0.9145%	0.6918%	0.1	0.1	911%	1205%
62	0	15	0.000000	0.9912%	0.7604%	0.1	0.1	0%	0%
63	0	21	0.000000	1.0664%	0.8357%	0.2	0.2	0%	0%
64	0	18	0.000000	1.1462%	0.9186%	0.2	0.2	0%	0%
65	0	20	0.000000	1.2310%	1.0096%	0.2	0.2	0%	0%
66	0	22	0.000000	1.3217%	1.1097%	0.3	0.2	0%	0%
67	1	23	0.043478	1.4235%	1.2197%	0.3	0.3	305%	356%
68	0	18	0.000000	1.5303%	1.3406%	0.3	0.2	0%	0%
69	0	12	0.000000	1.6051%	1.4735%	0.2	0.2	0%	0%
70	0	10	0.000000	1.6732%	1.6195%	0.2	0.2	0%	0%
71	0	8	0.000000	1.8431%	1.7800%	0.1	0.1	0%	0%
72	0	11	0.000000	2.0222%	1.9565%	0.2	0.2	0%	0%
73	0	12	0.000000	2.1798%	2.1504%	0.3	0.3	0%	0%
74	0	10	0.000000	2.3496%	2.3635%	0.2	0.2	0%	0%
75	1	7	0.142857	2.4953%	2.5978%	0.2	0.2	573%	550%
76	0	4	0.000000	2.8182%	2.8553%	0.1	0.1	0%	0%
77	0	3	0.000000	3.1667%	3.1383%	0.1	0.1	0%	0%
78	1	4	0.250000	3.4923%	3.4494%	0.1	0.1	716%	725%
79	0	3	0.000000	3.8179%	3.7913%	0.1	0.1	0%	0%
80	1	5	0.200000	4.1435%	4.1671%	0.2	0.2	483%	480%
81	0	4	0.000000	4.6586%	4.5802%	0.2	0.2	0%	0%
82	1	5	0.200000	5.1835%	5.0341%	0.3	0.3	386%	397%
83	0	3	0.000000	5.7181%	5.5331%	0.2	0.2	0%	0%
84	0	1	0.000000	6.2626%	6.0816%	0.1	0.1	0%	0%
85	0	1	0.000000	6.8720%	6.6844%	0.1	0.1	0%	0%
86	0	2	0.000000	7.9002%	7.3469%	0.2	0.1	0%	0%
87	1	2	0.500000	8.9443%	8.0752%	0.2	0.2	559%	619%
88	0	1	0.000000	9.9247%	8.8756%	0.1	0.1	0%	0%
89	0	1	0.000000	10.9930%	9.7553%	0.1	0.1	0%	0%
90	0	0	N/A	11.9814%	10.7223%	0	0	0%	0%
91	0	2	0.000000	13.6802%	11.7851%	0.3	0.2	0%	0%
92	0	3	0.000000	15.3234%	12.9532%	0.5	0.4	0%	0%
93	1	4	0.250000	17.0656%	14.2372%	0.7	0.6	146%	176%
94	0	3	0.000000	18.5767%	15.6484%	0.6	0.5	0%	0%
95	1	1	1.000000	20.0298%	17.1994%	0.2	0.2	499%	581%
96	0	0	N/A	21.1824%	18.9042%	0	0	0%	0%
97	0	0	N/A	22.3611%	20.7780%	0	0	0%	0%
98	0	0	N/A	23.0718%	22.8376%	0	0	0%	0%
99	0	0	N/A	23.4718%	25.1012%	0	0	0%	0%
Subtotal	10	358				7.8	7.0	128%	143%
100 or more	0	0	N/A	25.4498%	33.3297%	0	0	0%	0%
Total	10	358				7.8	7.0	128%	143%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

TABLE 1C

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
42	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
43	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
44	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
45	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
46	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
47	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
48	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
49	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
50	1	7	0.142857	0.4307%	0.3720%	0.0	0.0	3317%	3840%
51	0	26	0.000000	0.4528%	0.3798%	0.1	0.1	0%	0%
52	0	25	0.000000	0.5065%	0.4090%	0.1	0.1	0%	0%
53	0	45	0.000000	0.5446%	0.4300%	0.2	0.2	0%	0%
54	1	60	0.016667	0.6244%	0.4768%	0.4	0.3	267%	350%
55	0	73	0.000000	0.7015%	0.5221%	0.5	0.4	0%	0%
56	0	105	0.000000	0.7832%	0.5817%	0.8	0.6	0%	0%
57	4	122	0.032787	0.8546%	0.6427%	1.0	0.8	384%	510%
58	0	120	0.000000	0.9150%	0.7033%	1.1	0.8	0%	0%
59	1	150	0.006667	0.9687%	0.7709%	1.5	1.2	69%	86%
60	0	161	0.000000	1.0202%	0.8431%	1.6	1.4	0%	0%
61	2	172	0.011628	1.1361%	0.9279%	2.0	1.6	102%	125%
62	4	204	0.019608	1.2386%	1.0188%	2.5	2.1	158%	192%
63	2	210	0.009524	1.3414%	1.1116%	2.8	2.3	71%	86%
64	1	194	0.005155	1.4423%	1.2242%	2.8	2.4	36%	42%
65	3	173	0.017341	1.5310%	1.3371%	2.6	2.3	113%	130%
66	1	153	0.006536	1.6575%	1.4581%	2.5	2.2	39%	45%
67	4	153	0.026144	1.7814%	1.5996%	2.7	2.4	147%	163%
68	2	137	0.014599	1.9033%	1.7675%	2.6	2.4	77%	83%
69	2	120	0.016667	2.0410%	1.9596%	2.4	2.4	82%	85%
70	2	103	0.019417	2.1500%	2.1555%	2.2	2.2	90%	90%
71	1	80	0.012500	2.3429%	2.3672%	1.9	1.9	53%	53%
72	2	75	0.026667	2.5152%	2.5683%	1.9	1.9	106%	104%
73	5	74	0.067568	2.7039%	2.8106%	2.0	2.1	250%	240%
74	0	70	0.000000	2.9199%	3.1058%	2.0	2.2	0%	0%
75	4	72	0.055556	3.1812%	3.4570%	2.3	2.5	175%	161%
76	3	68	0.044118	3.6977%	3.8398%	2.5	2.6	119%	115%
77	0	71	0.000000	4.2477%	4.2393%	3.0	3.0	0%	0%
78	3	68	0.044118	4.7772%	4.6385%	3.2	3.2	92%	95%
79	2	64	0.031250	5.3635%	5.1147%	3.4	3.3	58%	61%
80	3	67	0.044776	5.9000%	5.5792%	4.0	3.7	76%	80%
81	2	62	0.032258	6.5658%	6.1490%	4.1	3.8	49%	52%
82	5	63	0.079365	7.1901%	6.7310%	4.5	4.2	110%	118%
83	2	56	0.035714	7.8536%	7.4502%	4.4	4.2	45%	48%
84	2	51	0.039216	8.6086%	8.2641%	4.4	4.2	46%	47%
85	4	52	0.076923	9.2257%	9.0839%	4.8	4.7	83%	85%
86	4	44	0.090909	10.3482%	9.9136%	4.6	4.4	88%	92%
87	6	40	0.150000	11.6528%	10.8825%	4.7	4.4	129%	138%
88	4	32	0.125000	13.0880%	12.0218%	4.2	3.8	96%	104%
89	3	18	0.166667	14.3364%	13.1263%	2.6	2.4	116%	127%
90	1	12	0.083333	16.0483%	14.6450%	1.9	1.8	52%	57%
91	0	13	0.000000	17.1868%	15.4329%	2.2	2.0	0%	0%
92	1	10	0.100000	18.4049%	16.2698%	1.8	1.6	54%	61%
93	2	12	0.166667	19.9897%	17.7086%	2.4	2.1	83%	94%
94	1	8	0.125000	21.4615%	19.2250%	1.7	1.5	58%	65%
95	3	3	1.000000	23.5545%	21.3923%	0.7	0.6	425%	467%
96	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
97	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	93	3,698				108.0	100.3	86%	93%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	93	3,698				108.0	100.3	86%	93%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	2	133	0.015038	0.5957%	0.4598%	0.8	0.6	252%	327%
55-59	4	525	0.007619	0.8900%	0.6795%	4.7	3.6	86%	112%
60-64	8	863	0.009270	1.2689%	1.0576%	11.0	9.1	73%	88%
65-69	11	641	0.017161	1.8150%	1.6567%	11.6	10.6	95%	104%
70-74	10	351	0.028490	2.5602%	2.6439%	9.0	9.3	111%	108%
75-79	10	322	0.031056	4.3060%	4.3154%	13.9	13.9	72%	72%
80-84	12	281	0.042705	7.2794%	6.8711%	20.5	19.3	59%	62%
85-89	20	179	0.111732	11.2657%	10.6630%	20.2	19.1	99%	105%
90-94	4	43	0.093023	18.9372%	17.1871%	8.1	7.4	49%	54%
95-99	2	2	1.000000	25.3168%	23.4887%	0.5	0.5	395%	426%
100+	0	0	N/A			0	0	0%	0%
Total	83	3,340				100.2	93.4	83%	89%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	30	0.000000	0.3398%	0.3171%	0.1	0.1	0%	0%
55-59	1	45	0.022222	0.5679%	0.4642%	0.3	0.2	391%	479%
60-64	1	78	0.012821	1.0096%	0.7865%	0.8	0.6	127%	163%
65-69	1	95	0.010526	1.4026%	1.2049%	1.3	1.1	75%	87%
70-74	0	51	0.000000	2.0270%	1.9882%	1.0	1.0	0%	0%
75-79	2	21	0.095238	3.0316%	3.0568%	0.6	0.6	314%	312%
80-84	2	18	0.111111	4.9270%	4.8338%	0.9	0.9	226%	230%
85-89	1	7	0.142857	8.7827%	8.0228%	0.6	0.6	163%	178%
90-94	1	12	0.083333	16.4436%	13.8603%	2.0	1.7	51%	60%
95-99	1	1	1.000000	20.0298%	17.1994%	0.2	0.2	499%	581%
100+	0	0	N/A			0	0	0%	0%
Total	10	358				7.8	7.0	128%	143%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	2	163	0.012270	0.5486%	0.4335%	0.9	0.7	224%	283%
55-59	5	570	0.008772	0.8646%	0.6625%	4.9	3.8	101%	132%
60-64	9	941	0.009564	1.2474%	1.0352%	11.7	9.7	77%	92%
65-69	12	736	0.016304	1.7618%	1.5984%	13.0	11.8	93%	102%
70-74	10	402	0.024876	2.4925%	2.5607%	10.0	10.3	100%	97%
75-79	12	343	0.034985	4.2280%	4.2384%	14.5	14.5	83%	83%
80-84	14	299	0.046823	7.1378%	6.7484%	21.3	20.2	66%	69%
85-89	21	186	0.112903	11.1723%	10.5636%	20.8	19.6	101%	107%
90-94	5	55	0.090909	18.3932%	16.4613%	10.1	9.1	49%	55%
95-99	3	3	1.000000	23.5545%	21.3923%	0.7	0.6	425%	467%
100+	0	0	N/A			0	0	0%	0%
Total	93	3,698				108.0	100.3	86%	93%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

TABLE 1A				10-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.1641%	0.1954%	0	0	0%	0%
42	0	0	N/A	0.2095%	0.2139%	0	0	0%	0%
43	0	0	N/A	0.2524%	0.2335%	0	0	0%	0%
44	0	0	N/A	0.2930%	0.2539%	0	0	0%	0%
45	0	0	N/A	0.3309%	0.2753%	0	0	0%	0%
46	0	0	N/A	0.3623%	0.2973%	0	0	0%	0%
47	0	0	N/A	0.3902%	0.3200%	0	0	0%	0%
48	0	1	0.000000	0.4150%	0.3435%	0.0	0.0	0%	0%
49	0	1	0.000000	0.4365%	0.3677%	0.0	0.0	0%	0%
50	1	22	0.045455	0.4548%	0.3928%	0.1	0.1	999%	1157%
51	0	78	0.000000	0.5164%	0.4194%	0.4	0.3	0%	0%
52	1	99	0.010101	0.5801%	0.4482%	0.6	0.4	174%	225%
53	0	143	0.000000	0.6492%	0.4800%	0.9	0.7	0%	0%
54	2	171	0.011696	0.7209%	0.5159%	1.2	0.9	162%	227%
55	0	214	0.000000	0.7992%	0.5571%	1.7	1.2	0%	0%
56	0	275	0.000000	0.8580%	0.6045%	2.4	1.7	0%	0%
57	6	308	0.019481	0.9171%	0.6597%	2.8	2.0	212%	295%
58	0	323	0.000000	0.9770%	0.7235%	3.2	2.3	0%	0%
59	2	338	0.005917	1.0322%	0.7969%	3.5	2.7	57%	74%
60	2	333	0.006006	1.0873%	0.8809%	3.6	2.9	55%	68%
61	2	338	0.005917	1.2062%	0.9757%	4.1	3.3	49%	61%
62	6	357	0.016807	1.3166%	1.0811%	4.7	3.9	128%	155%
63	4	339	0.011799	1.4312%	1.1973%	4.9	4.1	82%	99%
64	1	315	0.003175	1.5362%	1.3248%	4.8	4.2	21%	24%
65	5	294	0.017007	1.6380%	1.4644%	4.8	4.3	104%	116%
66	5	261	0.019157	1.7825%	1.6171%	4.7	4.2	107%	118%
67	7	235	0.029787	1.9185%	1.7845%	4.5	4.2	155%	167%
68	4	215	0.018605	2.0444%	1.9673%	4.4	4.2	91%	95%
69	4	211	0.018957	2.1797%	2.1683%	4.6	4.6	87%	87%
70	4	195	0.020513	2.3034%	2.3885%	4.5	4.7	89%	86%
71	5	179	0.027933	2.5097%	2.6303%	4.5	4.7	111%	106%
72	5	169	0.029586	2.7205%	2.8957%	4.6	4.9	109%	102%
73	9	171	0.052632	2.9354%	3.1869%	5.0	5.4	179%	165%
74	2	172	0.011628	3.1547%	3.5059%	5.4	6.0	37%	33%
75	5	176	0.028409	3.3958%	3.8549%	6.0	6.8	84%	74%
76	10	174	0.057471	3.9148%	4.2378%	6.8	7.4	147%	136%
77	5	168	0.029762	4.4674%	4.6563%	7.5	7.8	67%	64%
78	8	162	0.049383	5.0367%	5.1135%	8.2	8.3	98%	97%
79	7	162	0.043210	5.6231%	5.6144%	9.1	9.1	77%	77%
80	9	155	0.058065	6.2265%	6.1638%	9.7	9.6	93%	94%
81	4	141	0.028369	6.8815%	6.7655%	9.7	9.5	41%	42%
82	10	139	0.071942	7.5426%	7.4253%	10.5	10.3	95%	97%
83	6	128	0.046875	8.1690%	8.1494%	10.5	10.4	57%	58%
84	11	117	0.094017	8.8398%	8.9441%	10.3	10.5	106%	105%
85	10	106	0.094340	9.4694%	9.8162%	10.0	10.4	100%	96%
86	9	89	0.101124	10.6877%	10.7724%	9.5	9.6	95%	94%
87	14	78	0.179487	12.0102%	11.8205%	9.4	9.2	149%	152%
88	7	59	0.118644	13.3898%	12.9666%	7.9	7.7	89%	91%
89	9	42	0.214286	14.7533%	14.2195%	6.2	6.0	145%	151%
90	4	30	0.133333	16.2424%	15.5886%	4.9	4.7	82%	86%
91	5	24	0.208333	18.0401%	17.0845%	4.3	4.1	115%	122%
92	4	15	0.266667	19.9041%	18.7143%	3.0	2.8	134%	142%
93	1	10	0.100000	21.6460%	20.4852%	2.2	2.0	46%	49%
94	1	5	0.200000	23.4023%	22.4306%	1.2	1.1	85%	89%
95	2	2	1.000000	25.4693%	24.5733%	0.5	0.5	393%	407%
96	0	0	N/A	27.3348%	26.9426%	0	0	0%	0%
97	0	0	N/A	29.1300%	29.5404%	0	0	0%	0%
98	0	0	N/A	31.0896%	32.3888%	0	0	0%	0%
99	0	0	N/A	32.6998%	35.5155%	0	0	0%	0%
Subtotal	218	7,739				233.1	225.7	94%	97%
100 or more	0	0	N/A	37.1685%	47.0399%	0	0	0%	0%
Total	218	7,739				233.1	225.7	94%	97%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**WOMEN**

TABLE 1B

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0819%	0.1596%	0	0	0%	0%
42	0	0	N/A	0.0908%	0.1706%	0	0	0%	0%
43	0	0	N/A	0.1020%	0.1812%	0	0	0%	0%
44	0	0	N/A	0.1156%	0.1914%	0	0	0%	0%
45	0	0	N/A	0.1313%	0.2012%	0	0	0%	0%
46	0	0	N/A	0.1492%	0.2105%	0	0	0%	0%
47	0	0	N/A	0.1693%	0.2194%	0	0	0%	0%
48	0	1	0.000000	0.1919%	0.2277%	0.0	0.0	0%	0%
49	0	1	0.000000	0.2162%	0.2358%	0.0	0.0	0%	0%
50	0	1	0.000000	0.2429%	0.2488%	0.0	0.0	0%	0%
51	0	9	0.000000	0.2752%	0.2666%	0.0	0.0	0%	0%
52	0	10	0.000000	0.3119%	0.2895%	0.0	0.0	0%	0%
53	0	18	0.000000	0.3517%	0.3177%	0.1	0.1	0%	0%
54	0	18	0.000000	0.3952%	0.3513%	0.1	0.1	0%	0%
55	0	20	0.000000	0.4427%	0.3906%	0.1	0.1	0%	0%
56	0	20	0.000000	0.5143%	0.4353%	0.1	0.1	0%	0%
57	1	19	0.052632	0.5899%	0.4857%	0.1	0.1	892%	1084%
58	0	21	0.000000	0.6677%	0.5414%	0.1	0.1	0%	0%
59	0	25	0.000000	0.7498%	0.6025%	0.2	0.2	0%	0%
60	0	31	0.000000	0.8360%	0.6685%	0.3	0.2	0%	0%
61	1	34	0.029412	0.9283%	0.7392%	0.3	0.3	317%	398%
62	0	34	0.000000	1.0063%	0.8160%	0.3	0.3	0%	0%
63	0	41	0.000000	1.0825%	0.8998%	0.4	0.4	0%	0%
64	0	37	0.000000	1.1636%	0.9910%	0.4	0.4	0%	0%
65	0	37	0.000000	1.2496%	1.0901%	0.5	0.4	0%	0%
66	1	39	0.025641	1.3417%	1.1984%	0.5	0.5	191%	214%
67	1	36	0.027778	1.4451%	1.3166%	0.5	0.5	192%	211%
68	0	32	0.000000	1.5535%	1.4461%	0.5	0.5	0%	0%
69	0	26	0.000000	1.6294%	1.5881%	0.4	0.4	0%	0%
70	1	22	0.045455	1.6985%	1.7437%	0.4	0.4	268%	261%
71	0	16	0.000000	1.8767%	1.9146%	0.3	0.3	0%	0%
72	0	17	0.000000	2.0590%	2.1020%	0.4	0.4	0%	0%
73	0	17	0.000000	2.2263%	2.3080%	0.4	0.4	0%	0%
74	0	17	0.000000	2.3996%	2.5337%	0.4	0.4	0%	0%
75	1	14	0.071429	2.5562%	2.7819%	0.4	0.4	279%	257%
76	0	13	0.000000	2.8870%	3.0552%	0.4	0.4	0%	0%
77	0	12	0.000000	3.2341%	3.3563%	0.4	0.4	0%	0%
78	1	11	0.090909	3.5667%	3.6878%	0.4	0.4	255%	247%
79	0	9	0.000000	3.8992%	4.0546%	0.4	0.4	0%	0%
80	2	10	0.200000	4.2318%	4.4584%	0.4	0.4	473%	449%
81	0	8	0.000000	4.7578%	4.9043%	0.4	0.4	0%	0%
82	1	9	0.111111	5.2939%	5.3948%	0.5	0.5	210%	206%
83	0	7	0.000000	5.8399%	5.9362%	0.4	0.4	0%	0%
84	1	6	0.166667	6.3959%	6.5306%	0.4	0.4	261%	255%
85	1	7	0.142857	6.9972%	7.1838%	0.5	0.5	204%	199%
86	0	6	0.000000	8.0199%	7.8991%	0.5	0.5	0%	0%
87	2	7	0.285714	9.0525%	8.6794%	0.6	0.6	316%	329%
88	0	5	0.000000	10.0447%	9.5319%	0.5	0.5	0%	0%
89	0	5	0.000000	11.0925%	10.4649%	0.6	0.5	0%	0%
90	0	4	0.000000	12.0898%	11.4834%	0.5	0.5	0%	0%
91	0	4	0.000000	13.8041%	12.5946%	0.6	0.5	0%	0%
92	0	4	0.000000	15.4621%	13.8048%	0.6	0.6	0%	0%
93	1	4	0.250000	17.1684%	15.1237%	0.7	0.6	146%	165%
94	0	4	0.000000	18.6886%	16.5652%	0.7	0.7	0%	0%
95	1	2	0.500000	20.1504%	18.1442%	0.4	0.4	248%	276%
96	1	1	1.000000	21.3100%	19.8879%	0.2	0.2	469%	503%
97	0	0	N/A	22.4283%	21.7949%	0	0	0%	0%
98	0	0	N/A	23.1412%	23.8896%	0	0	0%	0%
99	0	0	N/A	23.5424%	26.1831%	0	0	0%	0%
Subtotal	17	751				17.2	16.3	99%	104%
100 or more	0	0	N/A	25.4498%	34.6676%	0	0	0%	0%
Total	17	751				17.2	16.3	99%	104%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
42	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
43	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
44	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
45	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
46	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
47	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
48	0	2	0.000000	0.3035%	0.2856%	0.0	0.0	0%	0%
49	0	2	0.000000	0.3264%	0.3018%	0.0	0.0	0%	0%
50	1	23	0.043478	0.4456%	0.3865%	0.1	0.1	976%	1125%
51	0	87	0.000000	0.4914%	0.4036%	0.4	0.4	0%	0%
52	1	109	0.009174	0.5555%	0.4336%	0.6	0.5	165%	212%
53	0	161	0.000000	0.6159%	0.4619%	1.0	0.7	0%	0%
54	2	189	0.010582	0.6899%	0.5002%	1.3	0.9	153%	212%
55	0	234	0.000000	0.7687%	0.5428%	1.8	1.3	0%	0%
56	0	295	0.000000	0.8347%	0.5930%	2.5	1.7	0%	0%
57	7	327	0.021407	0.8981%	0.6496%	2.9	2.1	238%	330%
58	0	344	0.000000	0.9581%	0.7124%	3.3	2.5	0%	0%
59	2	363	0.005510	1.0128%	0.7835%	3.7	2.8	54%	70%
60	2	364	0.005495	1.0659%	0.8628%	3.9	3.1	52%	64%
61	3	372	0.008065	1.1808%	0.9541%	4.4	3.5	68%	85%
62	6	391	0.015345	1.2896%	1.0580%	5.0	4.1	119%	145%
63	4	380	0.010526	1.3936%	1.1652%	5.3	4.4	76%	90%
64	1	352	0.002841	1.4970%	1.2897%	5.3	4.5	19%	22%
65	5	331	0.015106	1.5946%	1.4226%	5.3	4.7	95%	106%
66	6	300	0.020000	1.7252%	1.5627%	5.2	4.7	116%	128%
67	8	271	0.029520	1.8556%	1.7223%	5.0	4.7	159%	171%
68	4	247	0.016194	1.9808%	1.8998%	4.9	4.7	82%	85%
69	4	237	0.016878	2.1193%	2.1046%	5.0	5.0	80%	80%
70	5	217	0.023041	2.2421%	2.3231%	4.9	5.0	103%	99%
71	5	195	0.025641	2.4578%	2.5716%	4.8	5.0	104%	100%
72	5	186	0.026882	2.6600%	2.8231%	4.9	5.3	101%	95%
73	9	188	0.047872	2.8713%	3.1074%	5.4	5.8	167%	154%
74	2	189	0.010582	3.0868%	3.4185%	5.8	6.5	34%	31%
75	6	190	0.031579	3.3339%	3.7759%	6.3	7.2	95%	84%
76	10	187	0.053476	3.8433%	4.1556%	7.2	7.8	139%	129%
77	5	180	0.027778	4.3852%	4.5696%	7.9	8.2	63%	61%
78	9	173	0.052023	4.9432%	5.0228%	8.6	8.7	105%	104%
79	7	171	0.040936	5.5324%	5.5323%	9.5	9.5	74%	74%
80	11	165	0.066667	6.1056%	6.0604%	10.1	10.0	109%	110%
81	4	149	0.026846	6.7675%	6.6656%	10.1	9.9	40%	40%
82	11	148	0.074324	7.4059%	7.3018%	11.0	10.8	100%	102%
83	6	135	0.044444	8.0482%	8.0346%	10.9	10.8	55%	55%
84	12	123	0.097561	8.7206%	8.8263%	10.7	10.9	112%	111%
85	11	113	0.097345	9.3163%	9.6532%	10.5	10.9	104%	101%
86	9	95	0.094737	10.5192%	10.5909%	10.0	10.1	90%	89%
87	16	85	0.188235	11.7666%	11.5618%	10.0	9.8	160%	163%
88	7	64	0.109375	13.1285%	12.6983%	8.4	8.1	83%	86%
89	9	47	0.191489	14.3639%	13.8200%	6.8	6.5	133%	139%
90	4	34	0.117647	15.7539%	15.1057%	5.4	5.1	75%	78%
91	5	28	0.178571	17.4350%	16.4431%	4.9	4.6	102%	109%
92	4	19	0.210526	18.9689%	17.6808%	3.6	3.4	111%	119%
93	2	14	0.142857	20.3667%	18.9533%	2.9	2.7	70%	75%
94	1	9	0.111111	21.3073%	19.8237%	1.9	1.8	52%	56%
95	3	4	0.750000	22.8099%	21.3587%	0.9	0.9	329%	351%
96	1	1	1.000000	21.3100%	19.8879%	0.2	0.2	469%	503%
97	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	235	8,490				250.3	242.0	94%	97%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	235	8,490				250.3	242.0	94%	97%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	2	0.000000	0.4258%	0.3556%	0.0	0.0	0%	0%
50-54	4	513	0.007797	0.6312%	0.4729%	3.2	2.4	124%	165%
55-59	8	1,458	0.005487	0.9286%	0.6802%	13.5	9.9	59%	81%
60-64	15	1,682	0.008918	1.3132%	1.0893%	22.1	18.3	68%	82%
65-69	25	1,216	0.020559	1.8891%	1.7701%	23.0	21.5	109%	116%
70-74	25	886	0.028217	2.7119%	2.9051%	24.0	25.7	104%	97%
75-79	35	842	0.041568	4.4611%	4.6746%	37.6	39.4	93%	89%
80-84	40	680	0.058824	7.4466%	7.3985%	50.6	50.3	79%	80%
85-89	49	374	0.131016	11.5011%	11.4532%	43.0	42.8	114%	114%
90-94	15	84	0.178571	18.4794%	17.5644%	15.5	14.8	97%	102%
95-99	2	2	1.000000	25.4693%	24.5733%	0.5	0.5	393%	407%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>218</b>	<b>7,739</b>				<b>233.1</b>	<b>225.7</b>	<b>94%</b>	<b>97%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Rate</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	2	0.000000	0.2041%	0.2318%	0.0	0.0	0%	0%
50-54	0	56	0.000000	0.3443%	0.3140%	0.2	0.2	0%	0%
55-59	1	105	0.009524	0.6011%	0.4969%	0.6	0.5	158%	192%
60-64	1	177	0.005650	1.0120%	0.8314%	1.8	1.5	56%	68%
65-69	2	170	0.011765	1.4274%	1.3061%	2.4	2.2	82%	90%
70-74	1	89	0.011236	2.0341%	2.1015%	1.8	1.9	55%	53%
75-79	2	59	0.033898	3.1602%	3.3220%	1.9	2.0	107%	102%
80-84	4	40	0.100000	5.1820%	5.3277%	2.1	2.1	193%	188%
85-89	3	30	0.100000	8.8718%	8.6141%	2.7	2.6	113%	116%
90-94	1	20	0.050000	15.4426%	13.9143%	3.1	2.8	32%	36%
95-99	2	3	0.666667	20.5369%	18.7254%	0.6	0.6	325%	356%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>17</b>	<b>751</b>				<b>17.2</b>	<b>16.3</b>	<b>99%</b>	<b>104%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Rate</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	4	0.000000	0.3149%	0.2937%	0.0	0.0	0%	0%
50-54	4	569	0.007030	0.6030%	0.4573%	3.4	2.6	117%	154%
55-59	9	1,563	0.005758	0.9066%	0.6679%	14.2	10.4	64%	86%
60-64	16	1,859	0.008607	1.2846%	1.0648%	23.9	19.8	67%	81%
65-69	27	1,386	0.019481	1.8325%	1.7132%	25.4	23.7	106%	114%
70-74	26	975	0.026667	2.6500%	2.8318%	25.8	27.6	101%	94%
75-79	37	901	0.041065	4.3759%	4.5860%	39.4	41.3	94%	90%
80-84	44	720	0.061111	7.3208%	7.2835%	52.7	52.4	83%	84%
85-89	52	404	0.128713	11.3058%	11.2424%	45.7	45.4	114%	114%
90-94	16	104	0.153846	17.8954%	16.8624%	18.6	17.5	86%	91%
95-99	4	5	0.800000	22.5099%	21.0646%	1.1	1.1	355%	380%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>235</b>	<b>8,490</b>				<b>250.3</b>	<b>242.0</b>	<b>94%</b>	<b>97%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2002	724	26	17.7	147%	3.5912%	2.4380%
2003	767	25	18.5	135%	3.2595%	2.4100%
2004	775	21	18.9	111%	2.7097%	2.4429%
2005	823	27	20.1	134%	3.2807%	2.4452%
2006	840	24	20.8	115%	2.8571%	2.4797%
2007	863	19	21.4	89%	2.2016%	2.4813%
2008	881	25	22.2	113%	2.8377%	2.5186%
2009	902	18	22.8	79%	1.9956%	2.5268%
2010	938	24	24.1	99%	2.5586%	2.5730%
2011	977	26	25.7	101%	2.6612%	2.6341%
Total	8,490	235	212.3	111%	2.7680%	2.5004%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

Age (1)	TABLE 2A			4-YEAR PERIOD ENDING 6/30/2013					
	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	1.4444%	0.4277%	0	0	0%	0%
42	0	2	0.000000	1.4841%	0.5537%	0.0	0.0	0%	0%
43	0	2	0.000000	1.5246%	0.6796%	0.0	0.0	0%	0%
44	0	3	0.000000	1.5660%	0.8055%	0.0	0.0	0%	0%
45	0	4	0.000000	1.6079%	0.9315%	0.1	0.0	0%	0%
46	0	4	0.000000	1.6532%	1.0574%	0.1	0.0	0%	0%
47	0	6	0.000000	1.6979%	1.1833%	0.1	0.1	0%	0%
48	0	7	0.000000	1.7687%	1.2873%	0.1	0.1	0%	0%
49	0	9	0.000000	1.8401%	1.3912%	0.2	0.1	0%	0%
50	0	13	0.000000	1.9120%	1.4952%	0.2	0.2	0%	0%
51	0	12	0.000000	2.0266%	1.5992%	0.2	0.2	0%	0%
52	2	15	0.133333	2.1447%	1.7031%	0.3	0.3	622%	783%
53	0	10	0.000000	2.2867%	1.7916%	0.2	0.2	0%	0%
54	0	8	0.000000	2.4343%	1.8801%	0.2	0.2	0%	0%
55	0	13	0.000000	2.6085%	1.9686%	0.3	0.3	0%	0%
56	1	12	0.083333	2.6895%	2.0571%	0.3	0.2	310%	405%
57	0	15	0.000000	2.7715%	2.1456%	0.4	0.3	0%	0%
58	2	16	0.125000	2.8551%	2.2383%	0.5	0.4	438%	558%
59	1	17	0.058824	2.9164%	2.3309%	0.5	0.4	202%	252%
60	0	24	0.000000	2.9783%	2.4235%	0.7	0.6	0%	0%
61	0	28	0.000000	3.1350%	2.5162%	0.9	0.7	0%	0%
62	2	34	0.058824	3.2734%	2.6088%	1.1	0.9	180%	225%
63	1	30	0.033333	3.4465%	2.7383%	1.0	0.8	97%	122%
64	1	27	0.037037	3.6008%	2.8677%	1.0	0.8	103%	129%
65	1	20	0.050000	3.7650%	2.9972%	0.8	0.6	133%	167%
66	0	16	0.000000	3.8492%	3.1266%	0.6	0.5	0%	0%
67	1	16	0.062500	3.9079%	3.2560%	0.6	0.5	160%	192%
68	0	12	0.000000	3.9758%	3.4680%	0.5	0.4	0%	0%
69	0	11	0.000000	4.0089%	3.6800%	0.4	0.4	0%	0%
70	0	9	0.000000	4.0789%	3.8920%	0.4	0.4	0%	0%
71	1	9	0.111111	4.2824%	4.1040%	0.4	0.4	259%	271%
72	0	7	0.000000	4.5348%	4.3160%	0.3	0.3	0%	0%
73	0	7	0.000000	4.8103%	4.6694%	0.3	0.3	0%	0%
74	0	5	0.000000	5.1099%	5.0227%	0.3	0.3	0%	0%
75	0	5	0.000000	5.4793%	5.3761%	0.3	0.3	0%	0%
76	0	4	0.000000	5.9251%	5.7294%	0.2	0.2	0%	0%
77	1	2	0.500000	6.4623%	6.0828%	0.1	0.1	774%	822%
78	0	3	0.000000	7.0498%	6.6494%	0.2	0.2	0%	0%
79	0	3	0.000000	7.6912%	7.2161%	0.2	0.2	0%	0%
80	1	5	0.200000	8.3900%	7.7827%	0.4	0.4	238%	257%
81	2	4	0.500000	9.1500%	8.3493%	0.4	0.3	546%	599%
82	0	3	0.000000	9.9739%	8.9159%	0.3	0.3	0%	0%
83	1	3	0.333333	10.7832%	9.7808%	0.3	0.3	309%	341%
84	0	1	0.000000	11.7507%	10.6456%	0.1	0.1	0%	0%
85	0	2	0.000000	12.7010%	11.5105%	0.3	0.2	0%	0%
86	0	2	0.000000	13.4167%	12.3753%	0.3	0.2	0%	0%
87	0	2	0.000000	14.0240%	13.2402%	0.3	0.3	0%	0%
88	0	1	0.000000	14.7914%	14.5013%	0.1	0.1	0%	0%
89	0	0	N/A	15.4730%	15.7625%	0	0	0%	0%
90	0	0	N/A	16.3129%	17.0236%	0	0	0%	0%
91	0	0	N/A	18.1428%	18.2847%	0	0	0%	0%
92	0	0	N/A	20.3472%	19.5459%	0	0	0%	0%
93	0	0	N/A	22.3332%	21.3144%	0	0	0%	0%
94	0	0	N/A	24.2739%	23.0829%	0	0	0%	0%
95	0	0	N/A	26.4093%	24.8515%	0	0	0%	0%
96	0	0	N/A	28.2045%	26.6200%	0	0	0%	0%
97	0	0	N/A	29.8596%	28.3885%	0	0	0%	0%
98	0	0	N/A	31.6972%	30.7886%	0	0	0%	0%
99	0	0	N/A	33.0026%	33.1888%	0	0	0%	0%
Subtotal	18	463				16.7	14.1	108%	128%
100 or more	0	0	N/A	37.1685%	40.3891%	0	0	0%	0%
Total	18	463				16.7	14.1	108%	128%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	1	0.000000	1.4837%	0.9226%	0.0	0.0	0%	0%
42	0	0	N/A	1.5121%	1.0619%	0	0	0%	0%
43	0	0	N/A	1.5409%	1.2013%	0	0	0%	0%
44	0	0	N/A	1.5630%	1.3407%	0	0	0%	0%
45	0	0	N/A	1.6061%	1.4800%	0	0	0%	0%
46	0	0	N/A	1.6501%	1.6194%	0	0	0%	0%
47	0	0	N/A	1.6950%	1.7588%	0	0	0%	0%
48	0	0	N/A	1.7177%	1.8672%	0	0	0%	0%
49	0	2	0.000000	1.7429%	1.9756%	0.0	0.0	0%	0%
50	0	3	0.000000	1.7433%	2.0840%	0.1	0.1	0%	0%
51	0	5	0.000000	1.7687%	2.1925%	0.1	0.1	0%	0%
52	0	5	0.000000	1.7686%	2.3009%	0.1	0.1	0%	0%
53	0	4	0.000000	1.7665%	2.3794%	0.1	0.1	0%	0%
54	0	3	0.000000	1.7997%	2.4580%	0.1	0.1	0%	0%
55	0	2	0.000000	1.8308%	2.5365%	0.0	0.1	0%	0%
56	0	3	0.000000	1.9016%	2.6151%	0.1	0.1	0%	0%
57	0	4	0.000000	1.9980%	2.6936%	0.1	0.1	0%	0%
58	1	5	0.200000	2.1697%	2.7573%	0.1	0.1	922%	725%
59	0	3	0.000000	2.2668%	2.8209%	0.1	0.1	0%	0%
60	0	3	0.000000	2.3670%	2.8846%	0.1	0.1	0%	0%
61	0	4	0.000000	2.4709%	2.9483%	0.1	0.1	0%	0%
62	0	2	0.000000	2.5239%	3.0119%	0.1	0.1	0%	0%
63	0	2	0.000000	2.5775%	3.0896%	0.1	0.1	0%	0%
64	1	2	0.500000	2.7492%	3.1674%	0.1	0.1	1819%	1579%
65	0	1	0.000000	2.8706%	3.2451%	0.0	0.0	0%	0%
66	0	2	0.000000	3.0625%	3.3228%	0.1	0.1	0%	0%
67	0	3	0.000000	3.1997%	3.4005%	0.1	0.1	0%	0%
68	0	4	0.000000	3.3456%	3.5351%	0.1	0.1	0%	0%
69	0	3	0.000000	3.4266%	3.6698%	0.1	0.1	0%	0%
70	0	3	0.000000	3.5100%	3.8044%	0.1	0.1	0%	0%
71	0	2	0.000000	3.5716%	3.9390%	0.1	0.1	0%	0%
72	0	1	0.000000	3.6091%	4.0737%	0.0	0.0	0%	0%
73	0	1	0.000000	3.6726%	4.3220%	0.0	0.0	0%	0%
74	0	0	N/A	3.8549%	4.5704%	0	0	0%	0%
75	0	0	N/A	4.1360%	4.8187%	0	0	0%	0%
76	0	0	N/A	4.3872%	5.0671%	0	0	0%	0%
77	0	0	N/A	4.5998%	5.3154%	0	0	0%	0%
78	0	0	N/A	4.9979%	5.7482%	0	0	0%	0%
79	0	0	N/A	5.4045%	6.1810%	0	0	0%	0%
80	0	0	N/A	5.9727%	6.6138%	0	0	0%	0%
81	0	0	N/A	6.6020%	7.0467%	0	0	0%	0%
82	0	0	N/A	7.2980%	7.4795%	0	0	0%	0%
83	0	0	N/A	8.0664%	8.1814%	0	0	0%	0%
84	0	0	N/A	8.9133%	8.8833%	0	0	0%	0%
85	0	0	N/A	9.7162%	9.5853%	0	0	0%	0%
86	0	0	N/A	10.3681%	10.2872%	0	0	0%	0%
87	0	0	N/A	11.2988%	10.9891%	0	0	0%	0%
88	0	0	N/A	12.2125%	12.0588%	0	0	0%	0%
89	0	0	N/A	13.6802%	13.1284%	0	0	0%	0%
90	0	0	N/A	15.3234%	14.1981%	0	0	0%	0%
91	0	0	N/A	17.2895%	15.2677%	0	0	0%	0%
92	0	0	N/A	18.8204%	16.3374%	0	0	0%	0%
93	0	0	N/A	20.0298%	17.8873%	0	0	0%	0%
94	0	0	N/A	21.1824%	19.4373%	0	0	0%	0%
95	0	0	N/A	22.6541%	20.9872%	0	0	0%	0%
96	0	0	N/A	23.3742%	22.5371%	0	0	0%	0%
97	0	0	N/A	23.4718%	24.0870%	0	0	0%	0%
98	0	0	N/A	23.4917%	26.2437%	0	0	0%	0%
99	0	0	N/A	24.8039%	28.4003%	0	0	0%	0%
Subtotal	2	73				1.8	2.1	114%	96%
100 or more	0	0	N/A	25.4498%	34.8703%	0	0	0%	0%
Total	2	73				1.8	2.1	114%	96%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

TABLE 2C

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
41	0	1	0.000000	1.4837%	0.9226%	0.0	0.0	0%	0%
42	0	2	0.000000	1.4841%	0.5537%	0.0	0.0	0%	0%
43	0	2	0.000000	1.5246%	0.6796%	0.0	0.0	0%	0%
44	0	3	0.000000	1.5660%	0.8055%	0.0	0.0	0%	0%
45	0	4	0.000000	1.6079%	0.9315%	0.1	0.0	0%	0%
46	0	4	0.000000	1.6532%	1.0574%	0.1	0.0	0%	0%
47	0	6	0.000000	1.6979%	1.1833%	0.1	0.1	0%	0%
48	0	7	0.000000	1.7687%	1.2873%	0.1	0.1	0%	0%
49	0	11	0.000000	1.8224%	1.4975%	0.2	0.2	0%	0%
50	0	16	0.000000	1.8804%	1.6056%	0.3	0.3	0%	0%
51	0	17	0.000000	1.9507%	1.7737%	0.3	0.3	0%	0%
52	2	20	0.100000	2.0507%	1.8526%	0.4	0.4	488%	540%
53	0	14	0.000000	2.1381%	1.9596%	0.3	0.3	0%	0%
54	0	11	0.000000	2.2612%	2.0377%	0.2	0.2	0%	0%
55	0	15	0.000000	2.5048%	2.0443%	0.4	0.3	0%	0%
56	1	15	0.066667	2.5319%	2.1687%	0.4	0.3	263%	307%
57	0	19	0.000000	2.6087%	2.2610%	0.5	0.4	0%	0%
58	3	21	0.142857	2.6919%	2.3618%	0.6	0.5	531%	605%
59	1	20	0.050000	2.8190%	2.4044%	0.6	0.5	177%	208%
60	0	27	0.000000	2.9104%	2.4748%	0.8	0.7	0%	0%
61	0	32	0.000000	3.0520%	2.5702%	1.0	0.8	0%	0%
62	2	36	0.055556	3.2318%	2.6312%	1.2	0.9	172%	211%
63	1	32	0.031250	3.3922%	2.7602%	1.1	0.9	92%	113%
64	2	29	0.068966	3.5421%	2.8884%	1.0	0.8	195%	239%
65	1	21	0.047619	3.7224%	3.0090%	0.8	0.6	128%	158%
66	0	18	0.000000	3.7618%	3.1484%	0.7	0.6	0%	0%
67	1	19	0.052632	3.7961%	3.2788%	0.7	0.6	139%	161%
68	0	16	0.000000	3.8183%	3.4848%	0.6	0.6	0%	0%
69	0	14	0.000000	3.8841%	3.6778%	0.5	0.5	0%	0%
70	0	12	0.000000	3.9367%	3.8701%	0.5	0.5	0%	0%
71	1	11	0.090909	4.1532%	4.0740%	0.5	0.4	219%	223%
72	0	8	0.000000	4.4191%	4.2857%	0.4	0.3	0%	0%
73	0	8	0.000000	4.6681%	4.6259%	0.4	0.4	0%	0%
74	0	5	0.000000	5.1099%	5.0227%	0.3	0.3	0%	0%
75	0	5	0.000000	5.4793%	5.3761%	0.3	0.3	0%	0%
76	0	4	0.000000	5.9251%	5.7294%	0.2	0.2	0%	0%
77	1	2	0.500000	6.4623%	6.0828%	0.1	0.1	774%	822%
78	0	3	0.000000	7.0498%	6.6494%	0.2	0.2	0%	0%
79	0	3	0.000000	7.6912%	7.2161%	0.2	0.2	0%	0%
80	1	5	0.200000	8.3900%	7.7827%	0.4	0.4	238%	257%
81	2	4	0.500000	9.1500%	8.3493%	0.4	0.3	546%	599%
82	0	3	0.000000	9.9739%	8.9159%	0.3	0.3	0%	0%
83	1	3	0.333333	10.7832%	9.7808%	0.3	0.3	309%	341%
84	0	1	0.000000	11.7507%	10.6456%	0.1	0.1	0%	0%
85	0	2	0.000000	12.7010%	11.5105%	0.3	0.2	0%	0%
86	0	2	0.000000	13.4167%	12.3753%	0.3	0.2	0%	0%
87	0	2	0.000000	14.0240%	13.2402%	0.3	0.3	0%	0%
88	0	1	0.000000	14.7914%	14.5013%	0.1	0.1	0%	0%
89	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
90	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
91	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
92	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
93	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
94	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
95	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
96	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
97	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	20	536				18.5	16.2	108%	124%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	20	536				18.5	16.2	108%	124%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	7	0.00000	0.015308	0.6976%	10.7154%	0.0	0%	0%
45-49	0	30	0.00000	0.017391	1.2196%	52.1736%	0.4	0%	0%
50-54	2	58	0.03448	0.021325	1.6747%	123.6871%	1.0	162%	206%
55-59	4	73	0.05479	0.027811	2.1630%	203.0174%	1.6	197%	253%
60-64	4	143	0.02797	0.032949	2.6356%	471.1714%	3.8	85%	106%
65-69	2	75	0.02667	0.038829	3.2555%	291.2211%	2.4	69%	82%
70-74	1	37	0.02703	0.044923	4.3237%	166.2169%	1.6	60%	63%
75-79	1	17	0.05882	0.063673	6.0918%	108.2445%	1.0	92%	97%
80-84	4	16	0.25000	0.095358	8.6904%	152.5720%	1.4	262%	288%
85-89	0	7	0.00000	0.135821	12.6791%	95.0748%	0.9	0%	0%
90-94	0	0	N/A			0.0000%	0	0%	0%
95-99	0	0	N/A			0.0000%	0	0%	0%
100+	0	0	N/A			0.0000%	0	0%	0%
Total	18	463				16.7	14.1	108%	128%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	1	0.000000	1.4837%	0.9226%	0.0	0.0	0%	0%
45-49	0	2	0.000000	1.7429%	1.9756%	0.0	0.0	0%	0%
50-54	0	20	0.000000	1.7691%	2.2805%	0.4	0.5	0%	0%
55-59	1	17	0.058824	2.0593%	2.7025%	0.4	0.5	286%	218%
60-64	1	13	0.076923	2.5143%	2.9988%	0.3	0.4	306%	257%
65-69	0	13	0.000000	3.2505%	3.4801%	0.4	0.5	0%	0%
70-74	0	7	0.000000	3.5650%	3.9553%	0.2	0.3	0%	0%
75-79	0	0	N/A			0	0	0%	0%
80-84	0	0	N/A			0	0	0%	0%
85-89	0	0	N/A			0	0	0%	0%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2</b>	<b>73</b>				<b>1.8</b>	<b>2.1</b>	<b>114%</b>	<b>96%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	8	0.000000	1.5249%	0.7257%	0.1	0.1	0%	0%
45-49	0	32	0.000000	1.7394%	1.2668%	0.6	0.4	0%	0%
50-54	2	78	0.025641	2.0393%	1.8300%	1.6	1.4	126%	140%
55-59	5	90	0.055556	2.6447%	2.2649%	2.4	2.0	210%	245%
60-64	5	156	0.032051	3.2299%	2.6659%	5.0	4.2	99%	120%
65-69	2	88	0.022727	3.7895%	3.2887%	3.3	2.9	60%	69%
70-74	1	44	0.022727	4.3448%	4.2651%	1.9	1.9	52%	53%
75-79	1	17	0.058824	6.3673%	6.0918%	1.1	1.0	92%	97%
80-84	4	16	0.250000	9.5358%	8.6904%	1.5	1.4	262%	288%
85-89	0	7	0.000000	13.5821%	12.6791%	1.0	0.9	0%	0%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	20	536				18.5	16.2	108%	124%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN**

TABLE 2A

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	6	0.000000	1.4841%	0.4643%	0.1	0.0	0%	0%
42	0	8	0.000000	1.5295%	0.6030%	0.1	0.0	0%	0%
43	0	11	0.000000	1.5760%	0.7413%	0.2	0.1	0%	0%
44	0	14	0.000000	1.6237%	0.8782%	0.2	0.1	0%	0%
45	0	16	0.000000	1.6723%	1.0132%	0.3	0.2	0%	0%
46	0	19	0.000000	1.7246%	1.1457%	0.3	0.2	0%	0%
47	0	22	0.000000	1.7766%	1.2757%	0.4	0.3	0%	0%
48	0	22	0.000000	1.8563%	1.3794%	0.4	0.3	0%	0%
49	0	28	0.000000	1.9372%	1.4804%	0.5	0.4	0%	0%
50	0	31	0.000000	2.0191%	1.5788%	0.6	0.5	0%	0%
51	1	36	0.027778	2.1466%	1.6744%	0.8	0.6	129%	166%
52	3	40	0.075000	2.2787%	1.7670%	0.9	0.7	329%	424%
53	1	38	0.026316	2.4295%	1.8420%	0.9	0.7	108%	143%
54	1	42	0.023810	2.5864%	1.9177%	1.1	0.8	92%	124%
55	2	52	0.038462	2.7631%	1.9960%	1.4	1.0	139%	193%
56	2	58	0.034483	2.8401%	2.0785%	1.6	1.2	121%	166%
57	2	59	0.033898	2.9177%	2.1668%	1.7	1.3	116%	156%
58	3	62	0.048387	2.9966%	2.2656%	1.9	1.4	161%	214%
59	1	58	0.017241	3.0609%	2.3705%	1.8	1.4	56%	73%
60	0	61	0.000000	3.1259%	2.4814%	1.9	1.5	0%	0%
61	0	56	0.000000	3.2804%	2.5964%	1.8	1.5	0%	0%
62	2	56	0.035714	3.4252%	2.7138%	1.9	1.5	104%	132%
63	1	51	0.019608	3.5954%	2.8702%	1.8	1.5	55%	68%
64	1	44	0.022727	3.7564%	3.0262%	1.7	1.3	61%	75%
65	1	36	0.027778	3.9277%	3.1809%	1.4	1.1	71%	87%
66	0	30	0.000000	4.0033%	3.3338%	1.2	1.0	0%	0%
67	1	30	0.033333	4.0644%	3.4857%	1.2	1.0	82%	96%
68	0	23	0.000000	4.1476%	3.7241%	1.0	0.9	0%	0%
69	1	22	0.045455	4.1821%	3.9627%	0.9	0.9	109%	115%
70	1	19	0.052632	4.2681%	4.2004%	0.8	0.8	123%	125%
71	2	18	0.111111	4.4810%	4.4379%	0.8	0.8	248%	250%
72	1	16	0.062500	4.7452%	4.6748%	0.8	0.7	132%	134%
73	0	14	0.000000	5.0334%	5.0643%	0.7	0.7	0%	0%
74	0	15	0.000000	5.3469%	5.4526%	0.8	0.8	0%	0%
75	0	14	0.000000	5.7161%	5.8386%	0.8	0.8	0%	0%
76	1	13	0.076923	6.1811%	6.2236%	0.8	0.8	124%	124%
77	2	10	0.200000	6.7210%	6.6054%	0.7	0.7	298%	303%
78	0	9	0.000000	7.3098%	7.2148%	0.7	0.6	0%	0%
79	1	9	0.111111	7.9507%	7.8215%	0.7	0.7	140%	142%
80	1	8	0.125000	8.6468%	8.4262%	0.7	0.7	145%	148%
81	2	7	0.285714	9.4016%	9.0276%	0.7	0.6	304%	316%
82	0	5	0.000000	10.2172%	9.6264%	0.5	0.5	0%	0%
83	1	5	0.200000	11.0462%	10.5450%	0.6	0.5	181%	190%
84	0	2	0.000000	12.0010%	11.4610%	0.2	0.2	0%	0%
85	0	2	0.000000	12.9715%	12.3743%	0.3	0.2	0%	0%
86	0	2	0.000000	13.7025%	13.2837%	0.3	0.3	0%	0%
87	0	2	0.000000	14.2795%	14.1888%	0.3	0.3	0%	0%
88	0	1	0.000000	15.0155%	15.5101%	0.2	0.2	0%	0%
89	0	0	N/A	15.7075%	16.8210%	0	0	0%	0%
90	0	0	N/A	16.5102%	18.1205%	0	0	0%	0%
91	0	0	N/A	18.3623%	19.4074%	0	0	0%	0%
92	0	0	N/A	20.5314%	20.6763%	0	0	0%	0%
93	0	0	N/A	22.5354%	22.4555%	0	0	0%	0%
94	0	0	N/A	24.4937%	24.2273%	0	0	0%	0%
95	0	0	N/A	26.5684%	25.9989%	0	0	0%	0%
96	0	0	N/A	28.3744%	27.7814%	0	0	0%	0%
97	0	0	N/A	30.0395%	29.5550%	0	0	0%	0%
98	0	0	N/A	31.7925%	31.9759%	0	0	0%	0%
99	0	0	N/A	33.1018%	34.3885%	0	0	0%	0%
Subtotal	35	1,202				41.3	34.5	85%	102%
100 or more	0	0	N/A	37.1685%	41.8491%	0	0	0%	0%
Total	35	1,202				41.3	34.5	85%	102%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	1	0.000000	1.5525%	0.9910%	0.0	0.0	0%	0%
42	0	0	N/A	1.5823%	1.1369%	0	0	0%	0%
43	0	2	0.000000	1.6123%	1.2792%	0.0	0.0	0%	0%
44	0	3	0.000000	1.6355%	1.4176%	0.0	0.0	0%	0%
45	0	3	0.000000	1.6857%	1.5526%	0.1	0.0	0%	0%
46	0	4	0.000000	1.7372%	1.6837%	0.1	0.1	0%	0%
47	0	4	0.000000	1.7899%	1.8115%	0.1	0.1	0%	0%
48	0	5	0.000000	1.8139%	1.9058%	0.1	0.1	0%	0%
49	0	7	0.000000	1.8405%	2.0007%	0.1	0.1	0%	0%
50	0	8	0.000000	1.8353%	2.0987%	0.1	0.2	0%	0%
51	0	9	0.000000	1.8563%	2.2008%	0.2	0.2	0%	0%
52	0	11	0.000000	1.8450%	2.3092%	0.2	0.3	0%	0%
53	0	10	0.000000	1.8316%	2.3940%	0.2	0.2	0%	0%
54	0	8	0.000000	1.8548%	2.4855%	0.1	0.2	0%	0%
55	0	7	0.000000	1.8755%	2.5832%	0.1	0.2	0%	0%
56	0	7	0.000000	1.9362%	2.6856%	0.1	0.2	0%	0%
57	0	7	0.000000	2.0283%	2.7913%	0.1	0.2	0%	0%
58	1	6	0.166667	2.2025%	2.8828%	0.1	0.2	757%	578%
59	0	6	0.000000	2.3011%	2.9744%	0.1	0.2	0%	0%
60	0	7	0.000000	2.4029%	3.0636%	0.2	0.2	0%	0%
61	0	7	0.000000	2.5083%	3.1501%	0.2	0.2	0%	0%
62	0	5	0.000000	2.5622%	3.2323%	0.1	0.2	0%	0%
63	0	5	0.000000	2.6166%	3.3266%	0.1	0.2	0%	0%
64	1	6	0.166667	2.7909%	3.4169%	0.2	0.2	597%	488%
65	0	5	0.000000	2.9141%	3.5037%	0.1	0.2	0%	0%
66	0	5	0.000000	3.1089%	3.5883%	0.2	0.2	0%	0%
67	0	5	0.000000	3.2481%	3.6707%	0.2	0.2	0%	0%
68	0	5	0.000000	3.3962%	3.8133%	0.2	0.2	0%	0%
69	0	5	0.000000	3.4785%	3.9553%	0.2	0.2	0%	0%
70	0	4	0.000000	3.5632%	4.0962%	0.1	0.2	0%	0%
71	0	3	0.000000	3.6366%	4.2368%	0.1	0.1	0%	0%
72	0	2	0.000000	3.6748%	4.3767%	0.1	0.1	0%	0%
73	0	2	0.000000	3.7508%	4.6388%	0.1	0.1	0%	0%
74	1	1	1.000000	3.9370%	4.8993%	0.0	0.0	2540%	2041%
75	0	0	N/A	4.2369%	5.1602%	0	0	0%	0%
76	0	0	N/A	4.4942%	5.4218%	0	0	0%	0%
77	0	0	N/A	4.6978%	5.6846%	0	0	0%	0%
78	0	0	N/A	5.1043%	6.1456%	0	0	0%	0%
79	0	0	N/A	5.5196%	6.6103%	0	0	0%	0%
80	0	0	N/A	6.0999%	7.0761%	0	0	0%	0%
81	0	0	N/A	6.7426%	7.5453%	0	0	0%	0%
82	0	0	N/A	7.4535%	8.0153%	0	0	0%	0%
83	0	0	N/A	8.2382%	8.7774%	0	0	0%	0%
84	0	0	N/A	9.1031%	9.5393%	0	0	0%	0%
85	0	0	N/A	9.8932%	10.3015%	0	0	0%	0%
86	0	0	N/A	10.5252%	11.0604%	0	0	0%	0%
87	0	0	N/A	11.4355%	11.8114%	0	0	0%	0%
88	0	0	N/A	12.3603%	12.9505%	0	0	0%	0%
89	0	0	N/A	13.8041%	14.0834%	0	0	0%	0%
90	0	0	N/A	15.4621%	15.2059%	0	0	0%	0%
91	0	0	N/A	17.4460%	16.3164%	0	0	0%	0%
92	0	0	N/A	18.9908%	17.4115%	0	0	0%	0%
93	0	0	N/A	20.1504%	19.0011%	0	0	0%	0%
94	0	0	N/A	21.3100%	20.5761%	0	0	0%	0%
95	0	0	N/A	22.7906%	22.1400%	0	0	0%	0%
96	0	0	N/A	23.5150%	23.7098%	0	0	0%	0%
97	0	0	N/A	23.5424%	25.2658%	0	0	0%	0%
98	0	0	N/A	23.5623%	27.4526%	0	0	0%	0%
99	0	0	N/A	24.8785%	29.6244%	0	0	0%	0%
Subtotal	3	175				4.1	4.9	74%	61%
100 or more	0	0	N/A	25.4498%	36.3732%	0	0	0%	0%
Total	3	175				4.1	4.9	74%	61%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
				(5)	(6)	(7)	(8)	(9)	(10)
41	0	7	0.000000	1.4939%	0.5395%	0.1	0.0	0%	0%
42	0	8	0.000000	1.5295%	0.6030%	0.1	0.0	0%	0%
43	0	13	0.000000	1.5816%	0.8240%	0.2	0.1	0%	0%
44	0	17	0.000000	1.6258%	0.9734%	0.3	0.2	0%	0%
45	0	19	0.000000	1.6744%	1.0983%	0.3	0.2	0%	0%
46	0	23	0.000000	1.7268%	1.2392%	0.4	0.3	0%	0%
47	0	26	0.000000	1.7786%	1.3581%	0.5	0.4	0%	0%
48	0	27	0.000000	1.8484%	1.4769%	0.5	0.4	0%	0%
49	0	35	0.000000	1.9179%	1.5845%	0.7	0.6	0%	0%
50	0	39	0.000000	1.9814%	1.6854%	0.8	0.7	0%	0%
51	1	45	0.022222	2.0885%	1.7797%	0.9	0.8	106%	125%
52	3	51	0.058824	2.1852%	1.8840%	1.1	1.0	269%	312%
53	1	48	0.020833	2.3049%	1.9570%	1.1	0.9	90%	106%
54	1	50	0.020000	2.4693%	2.0085%	1.2	1.0	81%	100%
55	2	59	0.033898	2.6578%	2.0657%	1.6	1.2	128%	164%
56	2	65	0.030769	2.7428%	2.1439%	1.8	1.4	112%	144%
57	2	66	0.030303	2.8234%	2.2330%	1.9	1.5	107%	136%
58	4	68	0.058824	2.9265%	2.3200%	2.0	1.6	201%	254%
59	1	64	0.015625	2.9897%	2.4271%	1.9	1.6	52%	64%
60	0	68	0.000000	3.0515%	2.5413%	2.1	1.7	0%	0%
61	0	63	0.000000	3.1946%	2.6579%	2.0	1.7	0%	0%
62	2	61	0.032787	3.3545%	2.7563%	2.0	1.7	98%	119%
63	1	56	0.017857	3.5080%	2.9110%	2.0	1.6	51%	61%
64	2	50	0.040000	3.6405%	3.0731%	1.8	1.5	110%	130%
65	1	41	0.024390	3.8041%	3.2202%	1.6	1.3	64%	76%
66	0	35	0.000000	3.8755%	3.3702%	1.4	1.2	0%	0%
67	1	35	0.028571	3.9478%	3.5122%	1.4	1.2	72%	81%
68	0	28	0.000000	4.0134%	3.7400%	1.1	1.0	0%	0%
69	1	27	0.037037	4.0518%	3.9613%	1.1	1.1	91%	93%
70	1	23	0.043478	4.1455%	4.1823%	1.0	1.0	105%	104%
71	2	21	0.095238	4.3604%	4.4092%	0.9	0.9	218%	216%
72	1	18	0.055556	4.6263%	4.6417%	0.8	0.8	120%	120%
73	0	16	0.000000	4.8731%	5.0111%	0.8	0.8	0%	0%
74	1	16	0.062500	5.2588%	5.4180%	0.8	0.9	119%	115%
75	0	14	0.000000	5.7161%	5.8386%	0.8	0.8	0%	0%
76	1	13	0.076923	6.1811%	6.2236%	0.8	0.8	124%	124%
77	2	10	0.200000	6.7210%	6.6054%	0.7	0.7	298%	303%
78	0	9	0.000000	7.3098%	7.2148%	0.7	0.6	0%	0%
79	1	9	0.111111	7.9507%	7.8215%	0.7	0.7	140%	142%
80	1	8	0.125000	8.6468%	8.4262%	0.7	0.7	145%	148%
81	2	7	0.285714	9.4016%	9.0276%	0.7	0.6	304%	316%
82	0	5	0.000000	10.2172%	9.6264%	0.5	0.5	0%	0%
83	1	5	0.200000	11.0462%	10.5450%	0.6	0.5	181%	190%
84	0	2	0.000000	12.0010%	11.4610%	0.2	0.2	0%	0%
85	0	2	0.000000	12.9715%	12.3743%	0.3	0.2	0%	0%
86	0	2	0.000000	13.7025%	13.2837%	0.3	0.3	0%	0%
87	0	2	0.000000	14.2795%	14.1888%	0.3	0.3	0%	0%
88	0	1	0.000000	15.0155%	15.5101%	0.2	0.2	0%	0%
89	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
90	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
91	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
92	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
93	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
94	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
95	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
96	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
97	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	38	1,377				45.4	39.4	84%	97%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	38	1,377				45.4	39.4	84%	97%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	39	0.000000	1.5694%	0.7194%	0.6	0.3	0%	0%
45-49	0	107	0.000000	1.8102%	1.2882%	1.9	1.4	0%	0%
50-54	6	187	0.032086	2.3100%	1.7670%	4.3	3.3	139%	182%
55-59	10	289	0.034602	2.9200%	2.1804%	8.4	6.3	119%	159%
60-64	4	268	0.014925	3.4136%	2.7174%	9.1	7.3	44%	55%
65-69	3	141	0.021277	4.0484%	3.4889%	5.7	4.9	53%	61%
70-74	4	82	0.048780	4.7359%	4.7216%	3.9	3.9	103%	103%
75-79	4	55	0.072727	6.6352%	6.6187%	3.6	3.6	110%	110%
80-84	4	27	0.148148	9.8261%	9.4215%	2.7	2.5	151%	157%
85-89	0	7	0.000000	13.8461%	13.6005%	1.0	1.0	0%	0%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	35	1,202				41.3	34.5	85%	102%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

TABLE 2B GROUPED

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	6	0.000000	1.6139%	1.3004%	0.1	0.1	0%	0%
45-49	0	23	0.000000	1.7878%	1.8336%	0.4	0.4	0%	0%
50-54	0	46	0.000000	1.8443%	2.3005%	0.8	1.1	0%	0%
55-59	1	33	0.030303	2.0576%	2.7747%	0.7	0.9	147%	109%
60-64	1	30	0.033333	2.5673%	3.2264%	0.8	1.0	130%	103%
65-69	0	25	0.000000	3.2292%	3.7063%	0.8	0.9	0%	0%
70-74	1	12	0.083333	3.6626%	4.3355%	0.4	0.5	228%	192%
75-79	0	0	N/A			0	0	0%	0%
80-84	0	0	N/A			0	0	0%	0%
85-89	0	0	N/A			0	0	0%	0%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	3	175				4.1	4.9	74%	61%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	0	45	0.000000	1.5754%	0.7969%	0.7	0.4	0%	0%
45-49	0	130	0.000000	1.8062%	1.3847%	2.3	1.8	0%	0%
50-54	6	233	0.025751	2.2181%	1.8724%	5.2	4.4	116%	138%
55-59	11	322	0.034161	2.8316%	2.2413%	9.1	7.2	121%	152%
60-64	5	298	0.016779	3.3284%	2.7687%	9.9	8.3	50%	61%
65-69	3	166	0.018072	3.9250%	3.5216%	6.5	5.8	46%	51%
70-74	5	94	0.053191	4.5989%	4.6723%	4.3	4.4	116%	114%
75-79	4	55	0.072727	6.6352%	6.6187%	3.6	3.6	110%	110%
80-84	4	27	0.148148	9.8261%	9.4215%	2.7	2.5	151%	157%
85-89	0	7	0.000000	13.8461%	13.6005%	1.0	1.0	0%	0%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>38</b>	<b>1,377</b>				<b>45.4</b>	<b>39.4</b>	<b>84%</b>	<b>97%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2002	140	4	3.1	130%	2.8571%	2.1946%
2003	142	4	3.2	124%	2.8169%	2.2681%
2004	140	2	3.3	60%	1.4286%	2.3768%
2005	142	2	3.5	57%	1.4085%	2.4515%
2006	144	1	3.7	27%	0.6944%	2.5440%
2007	145	5	3.8	130%	3.4483%	2.6539%
2008	140	5	3.8	131%	3.5714%	2.7221%
2009	136	3	3.9	77%	2.2059%	2.8495%
2010	135	6	3.9	153%	4.4444%	2.9138%
2011	132	6	3.9	152%	4.5455%	2.9859%
Total	1,396	38	36.2	105%	2.7221%	2.5913%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	8	103	0.0777	4.00%	7.00%	4.1	7.2	194%	111%
1	14	220	0.0636	2.00%	3.50%	4.4	7.7	318%	182%
2	5	261	0.0192	1.00%	1.75%	2.6	4.6	192%	109%
3	7	342	0.0205	1.00%	1.25%	3.4	4.3	205%	164%
4	5	355	0.0141	1.00%	1.00%	3.6	3.6	141%	141%
5	5	392	0.0128	1.00%	1.00%	3.9	3.9	128%	128%
6	7	375	0.0187	1.00%	1.00%	3.8	3.8	187%	187%
7	3	374	0.0080	1.00%	1.00%	3.7	3.7	80%	80%
8	3	299	0.0100	1.00%	1.00%	3.0	3.0	100%	100%
9	4	223	0.0179	1.00%	1.00%	2.2	2.2	179%	179%
10	0	160	0.0000	1.00%	1.00%	1.6	1.6	0%	0%
11	0	74	0.0000	1.00%	1.00%	0.7	0.7	0%	0%
12	1	64	0.0156	1.00%	1.00%	0.6	0.6	156%	156%
13	0	67	0.0000	1.00%	1.00%	0.7	0.7	0%	0%
14	0	52	0.0000	1.00%	1.00%	0.5	0.5	0%	0%
15	0	66	0.0000	1.00%	1.00%	0.7	0.7	0%	0%
16	1	77	0.0130	1.00%	1.00%	0.8	0.8	130%	130%
17	1	123	0.0081	1.00%	1.00%	1.2	1.2	81%	81%
18	1	141	0.0071	1.00%	1.00%	1.4	1.4	71%	71%
19	2	117	0.0171	1.00%	1.00%	1.2	1.2	171%	171%
20	4	103	0.0388	1.00%	1.00%	1.0	1.0	388%	388%
21	1	63	0.0159	1.00%	1.00%	0.6	0.6	159%	159%
22	0	52	0.0000	1.00%	1.00%	0.5	0.5	0%	0%
23	0	49	0.0000	1.00%	1.00%	0.5	0.5	0%	0%
24	1	42	0.0238	1.00%	1.00%	0.4	0.4	238%	238%
25	1	53	0.0189	1.00%	1.00%	0.5	0.5	189%	189%
26	0	40	0.0000	1.00%	1.00%	0.4	0.4	0%	0%
27	0	33	0.0000	1.00%	1.00%	0.3	0.3	0%	0%
28	0	24	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
29	0	8	0.0000	1.00%	1.00%	0.1	0.1	0%	0%
30	0	6	0.0000	1.00%	1.00%	0.1	0.1	0%	0%
Subtotal	74	4,358	0.0170			48.9	58.1	151%	127%
31 or more	0	3	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
Total	74	4,361	0.0170			48.9	58.1	151%	127%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> <u>Withdrawals</u> (2)	<u>Total</u> <u>Exposed</u> (3)	<u>Actual Rate</u> <u>(2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> <u>(3) x (5)</u> (7)	<u>Proposed</u> <u>(3) x (6)</u> (8)	<u>Expected</u> <u>(2) / (7)</u> (9)	<u>Proposed</u> <u>(2) / (8)</u> (10)
0	2	18	0.1111	4.00%	7.00%	0.7	1.3	278%	159%
1	1	43	0.0233	2.00%	3.50%	0.9	1.5	116%	66%
2	7	53	0.1321	1.00%	1.75%	0.5	0.9	1321%	755%
3	2	64	0.0313	1.00%	1.25%	0.6	0.8	313%	250%
4	3	73	0.0411	1.00%	1.00%	0.7	0.7	411%	411%
5	5	120	0.0417	1.00%	1.00%	1.2	1.2	417%	417%
6	2	127	0.0157	1.00%	1.00%	1.3	1.3	157%	157%
7	3	140	0.0214	1.00%	1.00%	1.4	1.4	214%	214%
8	8	120	0.0667	1.00%	1.00%	1.2	1.2	667%	667%
9	2	80	0.0250	1.00%	1.00%	0.8	0.8	250%	250%
10	2	56	0.0357	1.00%	1.00%	0.6	0.6	357%	357%
11	2	29	0.0690	1.00%	1.00%	0.3	0.3	690%	690%
12	0	20	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
13	1	20	0.0500	1.00%	1.00%	0.2	0.2	500%	500%
14	1	20	0.0500	1.00%	1.00%	0.2	0.2	500%	500%
15	2	25	0.0800	1.00%	1.00%	0.3	0.3	800%	800%
16	0	30	0.0000	1.00%	1.00%	0.3	0.3	0%	0%
17	3	35	0.0857	1.00%	1.00%	0.4	0.4	857%	857%
18	0	33	0.0000	1.00%	1.00%	0.3	0.3	0%	0%
19	2	21	0.0952	1.00%	1.00%	0.2	0.2	952%	952%
20	0	15	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
21	1	17	0.0588	1.00%	1.00%	0.2	0.2	588%	588%
22	0	17	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
23	1	18	0.0556	1.00%	1.00%	0.2	0.2	556%	556%
24	1	13	0.0769	1.00%	1.00%	0.1	0.1	769%	769%
25	1	12	0.0833	1.00%	1.00%	0.1	0.1	833%	833%
26	0	4	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
27	0	2	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
28	0	4	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
29	0	2	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
30	0	1	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
Total	52	1,232	0.0422			13.3	15.0	391%	346%
31 or more	0	2	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
Total	52	1,234	0.0421			13.3	15.1	391%	345%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	10	121	0.0826	4.00%	7.00%	4.8	8.5	207%	118%
1	15	263	0.0570	2.00%	3.50%	5.3	9.2	285%	163%
2	12	314	0.0382	1.00%	1.75%	3.1	5.5	382%	218%
3	9	406	0.0222	1.00%	1.25%	4.1	5.1	222%	177%
4	8	428	0.0187	1.00%	1.00%	4.3	4.3	187%	187%
5	10	512	0.0195	1.00%	1.00%	5.1	5.1	195%	195%
6	9	502	0.0179	1.00%	1.00%	5.0	5.0	179%	179%
7	6	514	0.0117	1.00%	1.00%	5.1	5.1	117%	117%
8	11	419	0.0263	1.00%	1.00%	4.2	4.2	263%	263%
9	6	303	0.0198	1.00%	1.00%	3.0	3.0	198%	198%
10	2	216	0.0093	1.00%	1.00%	2.2	2.2	93%	93%
11	2	103	0.0194	1.00%	1.00%	1.0	1.0	194%	194%
12	1	84	0.0119	1.00%	1.00%	0.8	0.8	119%	119%
13	1	87	0.0115	1.00%	1.00%	0.9	0.9	115%	115%
14	1	72	0.0139	1.00%	1.00%	0.7	0.7	139%	139%
15	2	91	0.0220	1.00%	1.00%	0.9	0.9	220%	220%
16	1	107	0.0093	1.00%	1.00%	1.1	1.1	93%	93%
17	4	158	0.0253	1.00%	1.00%	1.6	1.6	253%	253%
18	1	174	0.0057	1.00%	1.00%	1.7	1.7	57%	57%
19	4	138	0.0290	1.00%	1.00%	1.4	1.4	290%	290%
20	4	118	0.0339	1.00%	1.00%	1.2	1.2	339%	339%
21	2	80	0.0250	1.00%	1.00%	0.8	0.8	250%	250%
22	0	69	0.0000	1.00%	1.00%	0.7	0.7	0%	0%
23	1	67	0.0149	1.00%	1.00%	0.7	0.7	149%	149%
24	2	55	0.0364	1.00%	1.00%	0.6	0.6	364%	364%
25	2	65	0.0308	1.00%	1.00%	0.7	0.7	308%	308%
26	0	44	0.0000	1.00%	1.00%	0.4	0.4	0%	0%
27	0	35	0.0000	1.00%	1.00%	0.4	0.4	0%	0%
28	0	28	0.0000	1.00%	1.00%	0.3	0.3	0%	0%
29	0	10	0.0000	1.00%	1.00%	0.1	0.1	0%	0%
30	0	7	0.0000	1.00%	1.00%	0.1	0.1	0%	0%
Total	126	5,590	0.0225			62.2	73.1	203%	172%
31 or more	0	5	0.0000	1.00%	1.00%	0.1	0.1	0%	0%
Total	126	5,595	0.0225			62.2	73.2	203%	172%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u>	<u>Actual</u> <u>Withdrawals</u>	<u>Total</u> <u>Exposed</u>	<u>Actual Rate</u> <u>(2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> <u>(3) x (5)</u>	<u>Proposed</u> <u>(3) x (6)</u>	<u>Expected</u> <u>(2) / (7)</u>	<u>Proposed</u> <u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
0	37	347	0.1066	4.00%	7.00%	13.9	24.3	267%	152%
1	30	681	0.0441	2.00%	3.50%	13.6	23.8	220%	126%
2	11	698	0.0158	1.00%	1.75%	7.0	12.2	158%	90%
3	16	775	0.0206	1.00%	1.25%	7.8	9.7	206%	165%
4	8	685	0.0117	1.00%	1.00%	6.9	6.9	117%	117%
5	11	646	0.0170	1.00%	1.00%	6.5	6.5	170%	170%
6	9	566	0.0159	1.00%	1.00%	5.7	5.7	159%	159%
7	4	462	0.0087	1.00%	1.00%	4.6	4.6	87%	87%
8	4	378	0.0106	1.00%	1.00%	3.8	3.8	106%	106%
9	7	307	0.0228	1.00%	1.00%	3.1	3.1	228%	228%
10	2	222	0.0090	1.00%	1.00%	2.2	2.2	90%	90%
11	1	158	0.0063	1.00%	1.00%	1.6	1.6	63%	63%
12	3	152	0.0197	1.00%	1.00%	1.5	1.5	197%	197%
13	2	202	0.0099	1.00%	1.00%	2.0	2.0	99%	99%
14	2	220	0.0091	1.00%	1.00%	2.2	2.2	91%	91%
15	1	234	0.0043	1.00%	1.00%	2.3	2.3	43%	43%
16	2	241	0.0083	1.00%	1.00%	2.4	2.4	83%	83%
17	2	241	0.0083	1.00%	1.00%	2.4	2.4	83%	83%
18	1	256	0.0039	1.00%	1.00%	2.6	2.6	39%	39%
19	4	205	0.0195	1.00%	1.00%	2.1	2.1	195%	195%
20	5	180	0.0278	1.00%	1.00%	1.8	1.8	278%	278%
21	1	153	0.0065	1.00%	1.00%	1.5	1.5	65%	65%
22	0	124	0.0000	1.00%	1.00%	1.2	1.2	0%	0%
23	1	113	0.0088	1.00%	1.00%	1.1	1.1	88%	88%
24	1	100	0.0100	1.00%	1.00%	1.0	1.0	100%	100%
25	1	75	0.0133	1.00%	1.00%	0.8	0.8	133%	133%
26	0	65	0.0000	1.00%	1.00%	0.7	0.7	0%	0%
27	0	44	0.0000	1.00%	1.00%	0.4	0.4	0%	0%
28	0	32	0.0000	1.00%	1.00%	0.3	0.3	0%	0%
29	0	13	0.0000	1.00%	1.00%	0.1	0.1	0%	0%
30	0	17	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
Subtotal	166	8,592	0.0193			103.1	130.9	161%	127%
31 or more	0	24	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
Total	166	8,616	0.0193			103.4	131.2	161%	127%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual Withdrawals</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected (3) x (5)</u> (7)	<u>Proposed (3) x (6)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
0	8	65	0.1231	4.00%	7.00%	2.6	4.6	308%	176%
1	9	195	0.0462	2.00%	3.50%	3.9	6.8	231%	132%
2	14	209	0.0670	1.00%	1.75%	2.1	3.7	670%	383%
3	5	239	0.0209	1.00%	1.25%	2.4	3.0	209%	167%
4	6	223	0.0269	1.00%	1.00%	2.2	2.2	269%	269%
5	9	218	0.0413	1.00%	1.00%	2.2	2.2	413%	413%
6	3	197	0.0152	1.00%	1.00%	2.0	2.0	152%	152%
7	3	175	0.0171	1.00%	1.00%	1.8	1.8	171%	171%
8	9	147	0.0612	1.00%	1.00%	1.5	1.5	612%	612%
9	3	102	0.0294	1.00%	1.00%	1.0	1.0	294%	294%
10	2	79	0.0253	1.00%	1.00%	0.8	0.8	253%	253%
11	2	61	0.0328	1.00%	1.00%	0.6	0.6	328%	328%
12	0	53	0.0000	1.00%	1.00%	0.5	0.5	0%	0%
13	1	62	0.0161	1.00%	1.00%	0.6	0.6	161%	161%
14	1	61	0.0164	1.00%	1.00%	0.6	0.6	164%	164%
15	3	63	0.0476	1.00%	1.00%	0.6	0.6	476%	476%
16	0	61	0.0000	1.00%	1.00%	0.6	0.6	0%	0%
17	3	62	0.0484	1.00%	1.00%	0.6	0.6	484%	484%
18	0	62	0.0000	1.00%	1.00%	0.6	0.6	0%	0%
19	2	44	0.0455	1.00%	1.00%	0.4	0.4	455%	455%
20	0	39	0.0000	1.00%	1.00%	0.4	0.4	0%	0%
21	2	32	0.0625	1.00%	1.00%	0.3	0.3	625%	625%
22	0	25	0.0000	1.00%	1.00%	0.3	0.3	0%	0%
23	1	25	0.0400	1.00%	1.00%	0.3	0.3	400%	400%
24	1	23	0.0435	1.00%	1.00%	0.2	0.2	435%	435%
25	1	20	0.0500	1.00%	1.00%	0.2	0.2	500%	500%
26	1	13	0.0769	1.00%	1.00%	0.1	0.1	769%	769%
27	0	5	0.0000	1.00%	1.00%	0.1	0.1	0%	0%
28	0	4	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
29	0	2	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
30	0	2	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
Total	89	2,568	0.0347			29.6	36.6	301%	243%
31 or more	0	2	0.0000	1.00%	1.00%	0.0	0.0	0%	0%
Total	89	2,570	0.0346			29.6	36.6	301%	243%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3C**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> <u>Withdrawals</u> (2)	<u>Total</u> <u>Exposed</u> (3)	<u>Actual Rate</u> <u>(2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> <u>(3) x (5)</u> (7)	<u>Proposed</u> <u>(3) x (6)</u> (8)	<u>Expected</u> <u>(2) / (7)</u> (9)	<u>Proposed</u> <u>(2) / (8)</u> (10)
0	45	412	0.1092	4.00%	7.00%	16.5	28.8	273%	156%
1	39	876	0.0445	2.00%	3.50%	17.5	30.7	223%	127%
2	25	907	0.0276	1.00%	1.75%	9.1	15.9	276%	158%
3	21	1,014	0.0207	1.00%	1.25%	10.1	12.7	207%	166%
4	14	908	0.0154	1.00%	1.00%	9.1	9.1	154%	154%
5	20	864	0.0231	1.00%	1.00%	8.6	8.6	231%	231%
6	12	763	0.0157	1.00%	1.00%	7.6	7.6	157%	157%
7	7	637	0.0110	1.00%	1.00%	6.4	6.4	110%	110%
8	13	525	0.0248	1.00%	1.00%	5.3	5.3	248%	248%
9	10	409	0.0244	1.00%	1.00%	4.1	4.1	244%	244%
10	4	301	0.0133	1.00%	1.00%	3.0	3.0	133%	133%
11	3	219	0.0137	1.00%	1.00%	2.2	2.2	137%	137%
12	3	205	0.0146	1.00%	1.00%	2.1	2.1	146%	146%
13	3	264	0.0114	1.00%	1.00%	2.6	2.6	114%	114%
14	3	281	0.0107	1.00%	1.00%	2.8	2.8	107%	107%
15	4	297	0.0135	1.00%	1.00%	3.0	3.0	135%	135%
16	2	302	0.0066	1.00%	1.00%	3.0	3.0	66%	66%
17	5	303	0.0165	1.00%	1.00%	3.0	3.0	165%	165%
18	1	318	0.0031	1.00%	1.00%	3.2	3.2	31%	31%
19	6	249	0.0241	1.00%	1.00%	2.5	2.5	241%	241%
20	5	219	0.0228	1.00%	1.00%	2.2	2.2	228%	228%
21	3	185	0.0162	1.00%	1.00%	1.9	1.9	162%	162%
22	0	149	0.0000	1.00%	1.00%	1.5	1.5	0%	0%
23	2	138	0.0145	1.00%	1.00%	1.4	1.4	145%	145%
24	2	123	0.0163	1.00%	1.00%	1.2	1.2	163%	163%
25	2	95	0.0211	1.00%	1.00%	1.0	1.0	211%	211%
26	1	78	0.0128	1.00%	1.00%	0.8	0.8	128%	128%
27	0	49	0.0000	1.00%	1.00%	0.5	0.5	0%	0%
28	0	36	0.0000	1.00%	1.00%	0.4	0.4	0%	0%
29	0	15	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
30	0	19	0.0000	1.00%	1.00%	0.2	0.2	0%	0%
Total	255	11,160	0.0228			132.7	167.6	192%	152%
31 or more	0	26	0.0000	1.00%	1.00%	0.3	0.3	0%	0%
Total	255	11,186	0.0228			133.0	167.8	192%	152%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 3D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals (3)	Expected Withdrawals (4)	Actual / Expected (5)	Withdrawal Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	1,325	36	20.6	175%	2.72%	1.55%
2005	1,405	37	22.5	165%	2.63%	1.60%
2006	1,428	29	21.1	138%	2.03%	1.47%
2007	1,434	27	19.9	136%	1.88%	1.39%
2008	1,413	36	19.3	187%	2.55%	1.37%
2009	1,431	19	20.3	94%	1.33%	1.42%
2010	1,391	25	18.9	132%	1.80%	1.36%
2011	1,359	46	17.5	264%	3.38%	1.28%
2012	1,291	7	15.9	44%	0.54%	1.23%
2013	1,242	50	15.1	331%	4.03%	1.22%
Total	13,719	312	190.9	163%	2.27%	1.39%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	19	36	0.5278	35.56%	35.56%	12.8	12.8	148%	148%
51	6	9	0.6667	37.78%	37.78%	3.4	3.4	176%	176%
52	7	8	0.8750	35.00%	35.00%	2.8	2.8	250%	250%
53	4	5	0.8000	36.00%	36.00%	1.8	1.8	222%	222%
54	1	2	0.5000	40.00%	40.00%	0.8	0.8	125%	125%
55	0	3	0.0000	40.00%	40.00%	1.2	1.2	0%	0%
56	2	3	0.6667	40.00%	40.00%	1.2	1.2	167%	167%
57	1	23	0.0435	20.87%	20.87%	4.8	4.8	21%	21%
58	0	5	0.0000	20.00%	20.00%	1.0	1.0	0%	0%
59	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
60	1	5	0.2000	36.00%	36.00%	1.8	1.8	56%	56%
61	1	3	0.3333	26.67%	26.67%	0.8	0.8	125%	125%
62	12	61	0.1967	30.98%	30.98%	18.9	18.9	63%	63%
63	9	10	0.9000	22.00%	22.00%	2.2	2.2	409%	409%
64	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	63	177				54.3	54.3	116%	116%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	63	177				54.3	54.3	116%	116%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	15	28	0.5357	40.00%	40.00%	11.2	11.2	134%	134%
51	5	8	0.6250	40.00%	40.00%	3.2	3.2	156%	156%
52	5	6	0.8333	40.00%	40.00%	2.4	2.4	208%	208%
53	3	4	0.7500	40.00%	40.00%	1.6	1.6	188%	188%
54	1	2	0.5000	40.00%	40.00%	0.8	0.8	125%	125%
55	0	3	0.0000	40.00%	40.00%	1.2	1.2	0%	0%
56	2	3	0.6667	40.00%	40.00%	1.2	1.2	167%	167%
57	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
58	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
59	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
60	1	4	0.2500	40.00%	40.00%	1.6	1.6	63%	63%
61	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
62	2	2	1.0000	60.00%	60.00%	1.2	1.2	167%	167%
63	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
64	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
65	0	0	N/A	60.00%	60.00%	0.0	0.0	0%	0%
66	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
67	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
68	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
69	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	37	63				25.6	25.6	145%	145%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	37	63				25.6	25.6	145%	145%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	4	8	0.5000	20.00%	20.00%	1.6	1.6	250%	250%
51	1	1	1.0000	20.00%	20.00%	0.2	0.2	500%	500%
52	2	2	1.0000	20.00%	20.00%	0.4	0.4	500%	500%
53	1	1	1.0000	20.00%	20.00%	0.2	0.2	500%	500%
54	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
55	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
56	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
57	0	22	0.0000	20.00%	20.00%	4.4	4.4	0%	0%
58	0	5	0.0000	20.00%	20.00%	1.0	1.0	0%	0%
59	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
60	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
61	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
62	10	59	0.1695	30.00%	30.00%	17.7	17.7	56%	56%
63	8	9	0.8889	20.00%	20.00%	1.8	1.8	444%	444%
64	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
65	0	0	N/A	30.00%	30.00%	0.0	0.0	0%	0%
66	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	26	114				28.7	28.7	91%	91%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	26	114				28.7	28.7	91%	91%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 4A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	34	103	0.3301	36.70%	36.70%	37.8	37.8	90%	90%
51	6	13	0.4615	38.46%	38.46%	5.0	5.0	120%	120%
52	11	20	0.5500	38.00%	38.00%	7.6	7.6	145%	145%
53	4	12	0.3333	36.67%	36.67%	4.4	4.4	91%	91%
54	1	9	0.1111	40.00%	40.00%	3.6	3.6	28%	28%
55	2	22	0.0909	29.09%	29.09%	6.4	6.4	31%	31%
56	3	9	0.3333	37.78%	37.78%	3.4	3.4	88%	88%
57	2	41	0.0488	22.93%	22.93%	9.4	9.4	21%	21%
58	0	9	0.0000	24.44%	24.44%	2.2	2.2	0%	0%
59	0	8	0.0000	25.00%	25.00%	2.0	2.0	0%	0%
60	1	8	0.1250	35.00%	35.00%	2.8	2.8	36%	36%
61	2	6	0.3333	23.33%	23.33%	1.4	1.4	143%	143%
62	17	111	0.1532	30.54%	30.54%	33.9	33.9	50%	50%
63	9	15	0.6000	21.33%	21.33%	3.2	3.2	281%	281%
64	0	3	0.0000	26.67%	26.67%	0.8	0.8	0%	0%
65	0	1	0.0000	30.00%	30.00%	0.3	0.3	0%	0%
66	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
67	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	92	392				124.6	124.6	74%	74%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	92	392				124.6	124.6	74%	74%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	26	86	0.3023	40.00%	40.00%	34.4	34.4	76%	76%
51	5	12	0.4167	40.00%	40.00%	4.8	4.8	104%	104%
52	9	18	0.5000	40.00%	40.00%	7.2	7.2	125%	125%
53	3	10	0.3000	40.00%	40.00%	4.0	4.0	75%	75%
54	1	9	0.1111	40.00%	40.00%	3.6	3.6	28%	28%
55	0	10	0.0000	40.00%	40.00%	4.0	4.0	0%	0%
56	2	8	0.2500	40.00%	40.00%	3.2	3.2	63%	63%
57	1	6	0.1667	40.00%	40.00%	2.4	2.4	42%	42%
58	0	2	0.0000	40.00%	40.00%	0.8	0.8	0%	0%
59	0	2	0.0000	40.00%	40.00%	0.8	0.8	0%	0%
60	1	6	0.1667	40.00%	40.00%	2.4	2.4	42%	42%
61	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
62	2	2	1.0000	60.00%	60.00%	1.2	1.2	167%	167%
63	1	1	1.0000	40.00%	40.00%	0.4	0.4	250%	250%
64	0	1	0.0000	40.00%	40.00%	0.4	0.4	0%	0%
65	0	0	N/A	60.00%	60.00%	0.0	0.0	0%	0%
66	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
67	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
68	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
69	0	0	N/A	40.00%	40.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	52	174				70.0	70.0	74%	74%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	52	174				70.0	70.0	74%	74%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	8	17	0.4706	20.00%	20.00%	3.4	3.4	235%	235%
51	1	1	1.0000	20.00%	20.00%	0.2	0.2	500%	500%
52	2	2	1.0000	20.00%	20.00%	0.4	0.4	500%	500%
53	1	2	0.5000	20.00%	20.00%	0.4	0.4	250%	250%
54	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
55	2	12	0.1667	20.00%	20.00%	2.4	2.4	83%	83%
56	1	1	1.0000	20.00%	20.00%	0.2	0.2	500%	500%
57	1	35	0.0286	20.00%	20.00%	7.0	7.0	14%	14%
58	0	7	0.0000	20.00%	20.00%	1.4	1.4	0%	0%
59	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
60	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
61	1	5	0.2000	20.00%	20.00%	1.0	1.0	100%	100%
62	15	109	0.1376	30.00%	30.00%	32.7	32.7	46%	46%
63	8	14	0.5714	20.00%	20.00%	2.8	2.8	286%	286%
64	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
65	0	1	0.0000	30.00%	30.00%	0.3	0.3	0%	0%
66	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
67	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	40	218				54.6	54.6	73%	73%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	40	218				54.6	54.6	73%	73%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 5A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	12	0.0000	18.75%	18.75%	2.3	2.3	0%	0%
52	1	2	0.5000	20.00%	20.00%	0.4	0.4	250%	250%
53	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
54	0	2	0.0000	17.50%	17.50%	0.4	0.4	0%	0%
55	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
56	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
57	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
58	1	18	0.0556	15.28%	15.28%	2.8	2.8	36%	36%
59	1	4	0.2500	15.00%	15.00%	0.6	0.6	167%	167%
60	0	4	0.0000	16.25%	16.25%	0.7	0.7	0%	0%
61	0	4	0.0000	18.75%	18.75%	0.8	0.8	0%	0%
62	0	2	0.0000	25.00%	25.00%	0.5	0.5	0%	0%
63	7	45	0.1556	15.00%	15.00%	6.8	6.8	104%	104%
64	3	5	0.6000	15.00%	15.00%	0.8	0.8	400%	400%
65	0	2	0.0000	25.00%	25.00%	0.5	0.5	0%	0%
66	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
67	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	13	107				17.6	17.6	74%	74%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	13	107				17.6	17.6	74%	74%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	9	0.0000	20.00%	20.00%	1.8	1.8	0%	0%
52	1	2	0.5000	20.00%	20.00%	0.4	0.4	250%	250%
53	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
54	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
55	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
56	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
57	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
58	1	1	1.0000	20.00%	20.00%	0.2	0.2	500%	500%
59	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
60	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
61	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
62	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
63	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
64	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
65	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
66	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	2	22				4.4	4.4	45%	45%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	2	22				4.4	4.4	45%	45%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	3	0.0000	15.00%	15.00%	0.5	0.5	0%	0%
52	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
54	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
55	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
56	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
57	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
58	0	17	0.0000	15.00%	15.00%	2.6	2.6	0%	0%
59	1	4	0.2500	15.00%	15.00%	0.6	0.6	167%	167%
60	0	3	0.0000	15.00%	15.00%	0.5	0.5	0%	0%
61	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
62	0	2	0.0000	25.00%	25.00%	0.5	0.5	0%	0%
63	7	45	0.1556	15.00%	15.00%	6.8	6.8	104%	104%
64	3	5	0.6000	15.00%	15.00%	0.8	0.8	400%	400%
65	0	2	0.0000	25.00%	25.00%	0.5	0.5	0%	0%
66	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
67	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
68	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
69	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	11	85				13.2	13.2	84%	84%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	11	85				13.2	13.2	84%	84%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 5A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	12	61	0.1967	19.18%	19.18%	11.7	11.7	103%	103%
52	6	11	0.5455	18.64%	18.64%	2.1	2.1	293%	293%
53	6	11	0.5455	19.09%	19.09%	2.1	2.1	286%	286%
54	3	8	0.3750	19.38%	19.38%	1.6	1.6	194%	194%
55	5	10	0.5000	19.50%	19.50%	2.0	2.0	256%	256%
56	6	22	0.2727	17.05%	17.05%	3.8	3.8	160%	160%
57	1	4	0.2500	18.75%	18.75%	0.8	0.8	133%	133%
58	6	34	0.1765	15.44%	15.44%	5.3	5.3	114%	114%
59	1	8	0.1250	16.25%	16.25%	1.3	1.3	77%	77%
60	1	10	0.1000	16.00%	16.00%	1.6	1.6	63%	63%
61	0	5	0.0000	18.00%	18.00%	0.9	0.9	0%	0%
62	0	4	0.0000	25.00%	25.00%	1.0	1.0	0%	0%
63	14	78	0.1795	15.00%	15.00%	11.7	11.7	120%	120%
64	3	9	0.3333	15.00%	15.00%	1.4	1.4	222%	222%
65	1	3	0.3333	25.00%	25.00%	0.8	0.8	133%	133%
66	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
67	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
68	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	65	282				48.3	48.3	135%	135%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	65	282				48.3	48.3	135%	135%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	9	51	0.1765	20.00%	20.00%	10.2	10.2	88%	88%
52	3	8	0.3750	20.00%	20.00%	1.6	1.6	188%	188%
53	4	9	0.4444	20.00%	20.00%	1.8	1.8	222%	222%
54	3	7	0.4286	20.00%	20.00%	1.4	1.4	214%	214%
55	4	9	0.4444	20.00%	20.00%	1.8	1.8	222%	222%
56	0	9	0.0000	20.00%	20.00%	1.8	1.8	0%	0%
57	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
58	3	3	1.0000	20.00%	20.00%	0.6	0.6	500%	500%
59	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
60	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
61	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
62	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
63	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
64	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
65	1	1	1.0000	25.00%	25.00%	0.3	0.3	400%	400%
66	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	27	107				21.5	21.5	126%	126%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	27	107				21.5	21.5	126%	126%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 5C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	3	10	0.3000	15.00%	15.00%	1.5	1.5	200%	200%
52	3	3	1.0000	15.00%	15.00%	0.5	0.5	667%	667%
53	2	2	1.0000	15.00%	15.00%	0.3	0.3	667%	667%
54	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
55	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
56	6	13	0.4615	15.00%	15.00%	2.0	2.0	308%	308%
57	1	1	1.0000	15.00%	15.00%	0.2	0.2	667%	667%
58	3	31	0.0968	15.00%	15.00%	4.7	4.7	65%	65%
59	1	6	0.1667	15.00%	15.00%	0.9	0.9	111%	111%
60	1	8	0.1250	15.00%	15.00%	1.2	1.2	83%	83%
61	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
62	0	4	0.0000	25.00%	25.00%	1.0	1.0	0%	0%
63	14	78	0.1795	15.00%	15.00%	11.7	11.7	120%	120%
64	3	9	0.3333	15.00%	15.00%	1.4	1.4	222%	222%
65	0	2	0.0000	25.00%	25.00%	0.5	0.5	0%	0%
66	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
67	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
68	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
69	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	38	175				26.9	26.9	142%	142%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	38	175				26.9	26.9	142%	142%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

**TABLE 6A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	12	0.0000	13.33%	13.33%	1.6	1.6	0%	0%
53	4	15	0.2667	13.67%	13.67%	2.1	2.1	195%	195%
54	2	14	0.1429	13.93%	13.93%	2.0	2.0	103%	103%
55	3	18	0.1667	13.89%	13.89%	2.5	2.5	120%	120%
56	2	12	0.1667	14.58%	14.58%	1.8	1.8	114%	114%
57	4	13	0.3077	13.46%	13.46%	1.8	1.8	229%	229%
58	2	11	0.1818	13.64%	13.64%	1.5	1.5	133%	133%
59	0	22	0.0000	11.59%	11.59%	2.6	2.6	0%	0%
60	3	30	0.1000	11.67%	11.67%	3.5	3.5	86%	86%
61	5	23	0.2174	15.00%	15.00%	3.5	3.5	145%	145%
62	3	20	0.1500	21.50%	21.50%	4.3	4.3	70%	70%
63	3	16	0.1875	15.31%	15.31%	2.5	2.5	122%	122%
64	6	37	0.1622	15.00%	15.00%	5.6	5.6	108%	108%
65	6	28	0.2143	20.00%	20.00%	5.6	5.6	107%	107%
66	4	25	0.1600	15.20%	15.20%	3.8	3.8	105%	105%
67	2	19	0.1053	15.26%	15.26%	2.9	2.9	69%	69%
68	4	16	0.2500	15.31%	15.31%	2.5	2.5	163%	163%
69	2	11	0.1818	15.45%	15.45%	1.7	1.7	118%	118%
70	1	6	0.1667	100.00%	100.00%	6.0	6.0	17%	17%
Subtotal	56	348				57.4	57.4	98%	98%
Other	3	16	0.1875	100.00%	100.00%	16.0	16.0	19%	19%
Total	59	364				73.4	73.4	80%	80%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	8	0.0000	15.00%	15.00%	1.2	1.2	0%	0%
53	3	11	0.2727	15.00%	15.00%	1.7	1.7	182%	182%
54	1	11	0.0909	15.00%	15.00%	1.7	1.7	61%	61%
55	2	14	0.1429	15.00%	15.00%	2.1	2.1	95%	95%
56	2	11	0.1818	15.00%	15.00%	1.7	1.7	121%	121%
57	3	9	0.3333	15.00%	15.00%	1.4	1.4	222%	222%
58	2	8	0.2500	15.00%	15.00%	1.2	1.2	167%	167%
59	0	7	0.0000	15.00%	15.00%	1.1	1.1	0%	0%
60	1	10	0.1000	15.00%	15.00%	1.5	1.5	67%	67%
61	4	10	0.4000	15.00%	15.00%	1.5	1.5	267%	267%
62	3	6	0.5000	25.00%	25.00%	1.5	1.5	200%	200%
63	1	1	1.0000	20.00%	20.00%	0.2	0.2	500%	500%
64	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
65	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
66	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
67	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
68	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
69	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	22	110				17.4	17.4	127%	127%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	22	110				17.4	17.4	127%	127%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	4	0.0000	10.00%	10.00%	0.4	0.4	0%	0%
53	1	4	0.2500	10.00%	10.00%	0.4	0.4	250%	250%
54	1	3	0.3333	10.00%	10.00%	0.3	0.3	333%	333%
55	1	4	0.2500	10.00%	10.00%	0.4	0.4	250%	250%
56	0	1	0.0000	10.00%	10.00%	0.1	0.1	0%	0%
57	1	4	0.2500	10.00%	10.00%	0.4	0.4	250%	250%
58	0	3	0.0000	10.00%	10.00%	0.3	0.3	0%	0%
59	0	15	0.0000	10.00%	10.00%	1.5	1.5	0%	0%
60	2	20	0.1000	10.00%	10.00%	2.0	2.0	100%	100%
61	1	13	0.0769	15.00%	15.00%	2.0	2.0	51%	51%
62	0	14	0.0000	20.00%	20.00%	2.8	2.8	0%	0%
63	2	15	0.1333	15.00%	15.00%	2.3	2.3	89%	89%
64	6	37	0.1622	15.00%	15.00%	5.6	5.6	108%	108%
65	6	28	0.2143	20.00%	20.00%	5.6	5.6	107%	107%
66	4	24	0.1667	15.00%	15.00%	3.6	3.6	111%	111%
67	2	18	0.1111	15.00%	15.00%	2.7	2.7	74%	74%
68	4	15	0.2667	15.00%	15.00%	2.3	2.3	178%	178%
69	2	10	0.2000	15.00%	15.00%	1.5	1.5	133%	133%
70	1	6	0.1667	100.00%	100.00%	6.0	6.0	17%	17%
Subtotal	34	238				40.0	40.0	85%	85%
Other	3	16	0.1875	100.00%	100.00%	16.0	16.0	19%	19%
Total	37	254				56.0	56.0	66%	66%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN AND WOMEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	9	51	0.1765	14.12%	14.12%	7.2	7.2	125%	125%
53	11	48	0.2292	14.48%	14.48%	7.0	7.0	158%	158%
54	13	45	0.2889	14.44%	14.44%	6.5	6.5	200%	200%
55	8	43	0.1860	14.19%	14.19%	6.1	6.1	131%	131%
56	10	38	0.2632	14.61%	14.61%	5.6	5.6	180%	180%
57	17	42	0.4048	13.81%	13.81%	5.8	5.8	293%	293%
58	11	31	0.3548	13.23%	13.23%	4.1	4.1	268%	268%
59	2	44	0.0455	11.36%	11.36%	5.0	5.0	40%	40%
60	6	45	0.1333	11.67%	11.67%	5.3	5.3	114%	114%
61	13	42	0.3095	15.00%	15.00%	6.3	6.3	206%	206%
62	6	33	0.1818	21.36%	21.36%	7.1	7.1	85%	85%
63	4	26	0.1538	15.58%	15.58%	4.1	4.1	99%	99%
64	11	70	0.1571	15.14%	15.14%	10.6	10.6	104%	104%
65	13	57	0.2281	20.18%	20.18%	11.5	11.5	113%	113%
66	7	44	0.1591	15.23%	15.23%	6.7	6.7	104%	104%
67	4	31	0.1290	15.16%	15.16%	4.7	4.7	85%	85%
68	6	26	0.2308	15.19%	15.19%	4.0	4.0	152%	152%
69	5	21	0.2381	15.24%	15.24%	3.2	3.2	156%	156%
70	2	14	0.1429	100.00%	100.00%	14.0	14.0	14%	14%
Subtotal	158	751				124.5	124.5	127%	127%
Other	8	44	0.1818	100.00%	100.00%	44.0	44.0	18%	18%
Total	166	795				168.5	168.5	99%	99%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	6	42	0.1429	15.00%	15.00%	6.3	6.3	95%	95%
53	9	43	0.2093	15.00%	15.00%	6.5	6.5	140%	140%
54	10	40	0.2500	15.00%	15.00%	6.0	6.0	167%	167%
55	4	36	0.1111	15.00%	15.00%	5.4	5.4	74%	74%
56	8	35	0.2286	15.00%	15.00%	5.3	5.3	152%	152%
57	12	32	0.3750	15.00%	15.00%	4.8	4.8	250%	250%
58	8	20	0.4000	15.00%	15.00%	3.0	3.0	267%	267%
59	1	12	0.0833	15.00%	15.00%	1.8	1.8	56%	56%
60	2	15	0.1333	15.00%	15.00%	2.3	2.3	89%	89%
61	7	15	0.4667	15.00%	15.00%	2.3	2.3	311%	311%
62	4	9	0.4444	25.00%	25.00%	2.3	2.3	178%	178%
63	1	3	0.3333	20.00%	20.00%	0.6	0.6	167%	167%
64	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
65	0	2	0.0000	25.00%	25.00%	0.5	0.5	0%	0%
66	1	2	0.5000	20.00%	20.00%	0.4	0.4	250%	250%
67	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
68	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
69	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	73	311				48.3	48.3	151%	151%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	73	311				48.3	48.3	151%	151%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	3	9	0.3333	10.00%	10.00%	0.9	0.9	333%	333%
53	2	5	0.4000	10.00%	10.00%	0.5	0.5	400%	400%
54	3	5	0.6000	10.00%	10.00%	0.5	0.5	600%	600%
55	4	7	0.5714	10.00%	10.00%	0.7	0.7	571%	571%
56	2	3	0.6667	10.00%	10.00%	0.3	0.3	667%	667%
57	5	10	0.5000	10.00%	10.00%	1.0	1.0	500%	500%
58	3	11	0.2727	10.00%	10.00%	1.1	1.1	273%	273%
59	1	32	0.0313	10.00%	10.00%	3.2	3.2	31%	31%
60	4	30	0.1333	10.00%	10.00%	3.0	3.0	133%	133%
61	6	27	0.2222	15.00%	15.00%	4.1	4.1	148%	148%
62	2	24	0.0833	20.00%	20.00%	4.8	4.8	42%	42%
63	3	23	0.1304	15.00%	15.00%	3.5	3.5	87%	87%
64	11	68	0.1618	15.00%	15.00%	10.2	10.2	108%	108%
65	13	55	0.2364	20.00%	20.00%	11.0	11.0	118%	118%
66	6	42	0.1429	15.00%	15.00%	6.3	6.3	95%	95%
67	4	30	0.1333	15.00%	15.00%	4.5	4.5	89%	89%
68	6	25	0.2400	15.00%	15.00%	3.8	3.8	160%	160%
69	5	20	0.2500	15.00%	15.00%	3.0	3.0	167%	167%
70	2	14	0.1429	100.00%	100.00%	14.0	14.0	14%	14%
Subtotal	85	440				76.3	76.3	111%	111%
Other	8	44	0.1818	100.00%	100.00%	44.0	44.0	18%	18%
Total	93	484				120.3	120.3	77%	77%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH UNREDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 6D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements (3)	Expected Retirements (4)	Actual / Expected (5)	Retirement Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	153	57	58.7	97%	37.25%	38.37%
2005	149	31	61.3	51%	20.81%	41.16%
2006	158	54	59.1	91%	34.18%	37.39%
2007	138	41	50.7	81%	29.71%	36.74%
2008	142	41	53.5	77%	28.87%	37.68%
2009	150	33	59.3	56%	22.00%	39.51%
2010	163	37	65.2	57%	22.70%	40.01%
2011	162	30	61.8	49%	18.52%	38.15%
2012	171	46	65.5	70%	26.90%	38.27%
2013	158	28	61.1	46%	17.72%	38.68%
Total	1,544	398	596.2	67%	25.78%	38.61%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
54	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
55	9	96	0.0938	2.00%	2.00%	1.9	1.9	469%	469%
56	4	82	0.0488	2.00%	2.00%	1.6	1.6	244%	244%
57	7	79	0.0886	2.00%	2.00%	1.6	1.6	443%	443%
58	13	74	0.1757	2.00%	2.00%	1.5	1.5	878%	878%
59	8	65	0.1231	3.00%	3.00%	2.0	2.0	410%	410%
60	8	65	0.1231	4.00%	4.00%	2.6	2.6	308%	308%
61	4	59	0.0678	5.00%	5.00%	3.0	3.0	136%	136%
62	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
63	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
64	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	55	522				14.1	14.1	390%	390%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	55	522				14.1	14.1	390%	390%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
48	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
49	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
50	11	11	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
51	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
52	2	2	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
53	3	3	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
54	5	5	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
55	19	221	0.0860	2.00%	2.00%	4.4	4.4	430%	430%
56	11	199	0.0553	2.00%	2.00%	4.0	4.0	276%	276%
57	15	188	0.0798	2.00%	2.00%	3.8	3.8	399%	399%
58	16	163	0.0982	2.00%	2.00%	3.3	3.3	491%	491%
59	12	146	0.0822	3.00%	3.00%	4.4	4.4	274%	274%
60	15	135	0.1111	4.00%	4.00%	5.4	5.4	278%	278%
61	9	121	0.0744	5.00%	5.00%	6.1	6.1	149%	149%
62	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
63	2	2	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
64	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
65	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
66	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
67	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
68	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
69	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	127	1,203				31.3	31.3	406%	406%
Other	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	127	1,203				31.3	31.3	406%	406%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	80	0	2.1	0%	0.00%	2.60%
2005	86	2	2.1	96%	2.33%	2.43%
2006	99	0	2.5	0%	0.00%	2.47%
2007	110	1	2.9	35%	0.91%	2.61%
2008	118	0	3.3	0%	0.00%	2.76%
2009	119	0	3.3	0%	0.00%	2.74%
2010	130	5	3.6	139%	3.85%	2.77%
2011	131	14	3.6	392%	10.69%	2.73%
2012	126	9	3.4	268%	7.14%	2.67%
2013	129	21	3.5	607%	16.28%	2.68%
Total	1,128	52	30.0	173%	4.61%	2.66%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.040%	0.040%	0	0	0%	0%
21	0	3	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	10	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	0	15	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
24	0	25	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
25	0	29	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
26	0	30	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
27	0	43	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
28	0	50	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
29	0	65	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
30	0	71	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
31	0	86	0.00000	0.042%	0.042%	0.0	0.0	0%	0%
32	0	92	0.00000	0.044%	0.044%	0.0	0.0	0%	0%
33	0	105	0.00000	0.046%	0.046%	0.0	0.0	0%	0%
34	0	116	0.00000	0.048%	0.048%	0.1	0.1	0%	0%
35	0	128	0.00000	0.050%	0.050%	0.1	0.1	0%	0%
36	0	151	0.00000	0.052%	0.052%	0.1	0.1	0%	0%
37	0	157	0.00000	0.054%	0.054%	0.1	0.1	0%	0%
38	1	169	0.00592	0.056%	0.056%	0.1	0.1	1057%	1057%
39	0	173	0.00000	0.058%	0.058%	0.1	0.1	0%	0%
40	0	171	0.00000	0.060%	0.060%	0.1	0.1	0%	0%
41	0	175	0.00000	0.070%	0.070%	0.1	0.1	0%	0%
42	0	173	0.00000	0.080%	0.080%	0.1	0.1	0%	0%
43	0	156	0.00000	0.090%	0.090%	0.1	0.1	0%	0%
44	0	143	0.00000	0.100%	0.100%	0.1	0.1	0%	0%
45	0	151	0.00000	0.110%	0.110%	0.2	0.2	0%	0%
46	0	164	0.00000	0.120%	0.120%	0.2	0.2	0%	0%
47	0	181	0.00000	0.130%	0.130%	0.2	0.2	0%	0%
48	0	185	0.00000	0.140%	0.140%	0.3	0.3	0%	0%
49	0	175	0.00000	0.150%	0.150%	0.3	0.3	0%	0%
50	0	183	0.00000	0.160%	0.160%	0.3	0.3	0%	0%
51	1	164	0.00610	0.170%	0.170%	0.3	0.3	359%	359%
52	0	176	0.00000	0.180%	0.180%	0.3	0.3	0%	0%
53	0	176	0.00000	0.190%	0.190%	0.3	0.3	0%	0%
54	0	153	0.00000	0.200%	0.200%	0.3	0.3	0%	0%
55	0	148	0.00000	0.210%	0.210%	0.3	0.3	0%	0%
56	0	121	0.00000	0.220%	0.220%	0.3	0.3	0%	0%
57	1	116	0.00862	0.230%	0.230%	0.3	0.3	375%	375%
58	1	110	0.00909	0.240%	0.240%	0.3	0.3	379%	379%
59	0	98	0.00000	0.250%	0.250%	0.2	0.2	0%	0%
60	0	93	0.00000	0.260%	0.260%	0.2	0.2	0%	0%
61	0	77	0.00000	0.270%	0.270%	0.2	0.2	0%	0%
62	0	68	0.00000	0.280%	0.280%	0.2	0.2	0%	0%
63	0	61	0.00000	0.290%	0.290%	0.2	0.2	0%	0%
64	0	40	0.00000	0.300%	0.300%	0.1	0.1	0%	0%
65	0	27	0.00000	0.320%	0.320%	0.1	0.1	0%	0%
66	0	21	0.00000	0.350%	0.350%	0.1	0.1	0%	0%
67	0	17	0.00000	0.390%	0.390%	0.1	0.1	0%	0%
68	0	13	0.00000	0.440%	0.440%	0.1	0.1	0%	0%
69	0	12	0.00000	0.500%	0.500%	0.1	0.1	0%	0%
70	0	3	0.00000	N/A	N/A	0	0	0%	0%
71	0	2	0.00000	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	4	5,071				6.7	6.7	60%	60%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.020%	0.020%	0	0	0%	0%
21	0	0	N/A	0.020%	0.020%	0	0	0%	0%
22	0	0	N/A	0.020%	0.020%	0	0	0%	0%
23	0	1	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
24	0	3	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25	0	6	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
26	0	7	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
27	0	6	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
28	0	7	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
29	0	11	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
30	0	14	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
31	0	17	0.00000	0.021%	0.021%	0.0	0.0	0%	0%
32	0	26	0.00000	0.022%	0.022%	0.0	0.0	0%	0%
33	0	25	0.00000	0.023%	0.023%	0.0	0.0	0%	0%
34	0	27	0.00000	0.024%	0.024%	0.0	0.0	0%	0%
35	0	30	0.00000	0.025%	0.025%	0.0	0.0	0%	0%
36	0	37	0.00000	0.026%	0.026%	0.0	0.0	0%	0%
37	0	42	0.00000	0.027%	0.027%	0.0	0.0	0%	0%
38	0	44	0.00000	0.028%	0.028%	0.0	0.0	0%	0%
39	0	45	0.00000	0.029%	0.029%	0.0	0.0	0%	0%
40	0	40	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
41	0	41	0.00000	0.035%	0.035%	0.0	0.0	0%	0%
42	0	52	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
43	0	57	0.00000	0.045%	0.045%	0.0	0.0	0%	0%
44	1	58	0.01724	0.050%	0.050%	0.0	0.0	3448%	3448%
45	0	67	0.00000	0.055%	0.055%	0.0	0.0	0%	0%
46	0	61	0.00000	0.060%	0.060%	0.0	0.0	0%	0%
47	0	56	0.00000	0.065%	0.065%	0.0	0.0	0%	0%
48	0	53	0.00000	0.070%	0.070%	0.0	0.0	0%	0%
49	0	63	0.00000	0.075%	0.075%	0.0	0.0	0%	0%
50	0	52	0.00000	0.080%	0.080%	0.0	0.0	0%	0%
51	0	46	0.00000	0.085%	0.085%	0.0	0.0	0%	0%
52	0	47	0.00000	0.090%	0.090%	0.0	0.0	0%	0%
53	0	29	0.00000	0.095%	0.095%	0.0	0.0	0%	0%
54	0	30	0.00000	0.100%	0.100%	0.0	0.0	0%	0%
55	0	26	0.00000	0.105%	0.105%	0.0	0.0	0%	0%
56	0	18	0.00000	0.110%	0.110%	0.0	0.0	0%	0%
57	0	22	0.00000	0.115%	0.115%	0.0	0.0	0%	0%
58	0	25	0.00000	0.120%	0.120%	0.0	0.0	0%	0%
59	0	23	0.00000	0.125%	0.125%	0.0	0.0	0%	0%
60	0	28	0.00000	0.130%	0.130%	0.0	0.0	0%	0%
61	0	28	0.00000	0.135%	0.135%	0.0	0.0	0%	0%
62	0	24	0.00000	0.140%	0.140%	0.0	0.0	0%	0%
63	0	19	0.00000	0.145%	0.145%	0.0	0.0	0%	0%
64	0	12	0.00000	0.150%	0.150%	0.0	0.0	0%	0%
65	0	7	0.00000	0.160%	0.160%	0.0	0.0	0%	0%
66	0	9	0.00000	0.175%	0.175%	0.0	0.0	0%	0%
67	0	4	0.00000	0.195%	0.195%	0.0	0.0	0%	0%
68	0	4	0.00000	0.220%	0.220%	0.0	0.0	0%	0%
69	0	1	0.00000	0.250%	0.250%	0.0	0.0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	1	1,350				0.9	0.9	112%	112%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.000%	0.000%	0	0	0%	0%
21	0	3	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	10	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	0	16	0.00000	0.039%	0.039%	0.0	0.0	0%	0%
24	0	28	0.00000	0.038%	0.038%	0.0	0.0	0%	0%
25	0	35	0.00000	0.037%	0.037%	0.0	0.0	0%	0%
26	0	37	0.00000	0.036%	0.036%	0.0	0.0	0%	0%
27	0	49	0.00000	0.038%	0.038%	0.0	0.0	0%	0%
28	0	57	0.00000	0.038%	0.038%	0.0	0.0	0%	0%
29	0	76	0.00000	0.037%	0.037%	0.0	0.0	0%	0%
30	0	85	0.00000	0.037%	0.037%	0.0	0.0	0%	0%
31	0	103	0.00000	0.039%	0.039%	0.0	0.0	0%	0%
32	0	118	0.00000	0.039%	0.039%	0.0	0.0	0%	0%
33	0	130	0.00000	0.042%	0.042%	0.1	0.1	0%	0%
34	0	143	0.00000	0.043%	0.043%	0.1	0.1	0%	0%
35	0	158	0.00000	0.045%	0.045%	0.1	0.1	0%	0%
36	0	188	0.00000	0.047%	0.047%	0.1	0.1	0%	0%
37	0	199	0.00000	0.048%	0.048%	0.1	0.1	0%	0%
38	1	213	0.00469	0.050%	0.050%	0.1	0.1	935%	935%
39	0	218	0.00000	0.052%	0.052%	0.1	0.1	0%	0%
40	0	211	0.00000	0.054%	0.054%	0.1	0.1	0%	0%
41	0	216	0.00000	0.063%	0.063%	0.1	0.1	0%	0%
42	0	225	0.00000	0.071%	0.071%	0.2	0.2	0%	0%
43	0	213	0.00000	0.078%	0.078%	0.2	0.2	0%	0%
44	1	201	0.00498	0.086%	0.086%	0.2	0.2	581%	581%
45	0	218	0.00000	0.093%	0.093%	0.2	0.2	0%	0%
46	0	225	0.00000	0.104%	0.104%	0.2	0.2	0%	0%
47	0	237	0.00000	0.115%	0.115%	0.3	0.3	0%	0%
48	0	238	0.00000	0.124%	0.124%	0.3	0.3	0%	0%
49	0	238	0.00000	0.130%	0.130%	0.3	0.3	0%	0%
50	0	235	0.00000	0.142%	0.142%	0.3	0.3	0%	0%
51	1	210	0.00476	0.151%	0.151%	0.3	0.3	315%	315%
52	0	223	0.00000	0.161%	0.161%	0.4	0.4	0%	0%
53	0	205	0.00000	0.177%	0.177%	0.4	0.4	0%	0%
54	0	183	0.00000	0.184%	0.184%	0.3	0.3	0%	0%
55	0	174	0.00000	0.194%	0.194%	0.3	0.3	0%	0%
56	0	139	0.00000	0.206%	0.206%	0.3	0.3	0%	0%
57	1	138	0.00725	0.212%	0.212%	0.3	0.3	342%	342%
58	1	135	0.00741	0.218%	0.218%	0.3	0.3	340%	340%
59	0	121	0.00000	0.226%	0.226%	0.3	0.3	0%	0%
60	0	121	0.00000	0.230%	0.230%	0.3	0.3	0%	0%
61	0	105	0.00000	0.234%	0.234%	0.2	0.2	0%	0%
62	0	92	0.00000	0.243%	0.243%	0.2	0.2	0%	0%
63	0	80	0.00000	0.256%	0.256%	0.2	0.2	0%	0%
64	0	52	0.00000	0.265%	0.265%	0.1	0.1	0%	0%
65	0	34	0.00000	0.287%	0.287%	0.1	0.1	0%	0%
66	0	30	0.00000	0.298%	0.298%	0.1	0.1	0%	0%
67	0	21	0.00000	0.353%	0.353%	0.1	0.1	0%	0%
68	0	17	0.00000	0.388%	0.388%	0.1	0.1	0%	0%
69	0	13	0.00000	0.481%	0.481%	0.1	0.1	0%	0%
70	0	3	0.00000	0.000%	0.000%	0	0	0%	0%
71	0	2	0.00000	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>5</b>	<b>6,421</b>				<b>7.6</b>	<b>7.6</b>	<b>66%</b>	<b>66%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	53	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
25-29	0	217	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
30-34	0	470	0.00000	0.044%	0.044%	0.2	0.2	0%	0%
35-39	1	778	0.00129	0.054%	0.054%	0.4	0.4	237%	237%
40-44	0	818	0.00000	0.079%	0.079%	0.6	0.6	0%	0%
45-49	0	856	0.00000	0.131%	0.131%	1.1	1.1	0%	0%
50-54	1	852	0.00117	0.179%	0.179%	1.5	1.5	65%	65%
55-59	2	593	0.00337	0.228%	0.228%	1.4	1.4	148%	148%
60-64	0	339	0.00000	0.276%	0.276%	0.9	0.9	0%	0%
65-69	0	90	0.00000	0.382%	0.382%	0.3	0.3	0%	0%
70-74	0	5	0.00000	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
Total	4	5,071				6.7	6.7	60%	60%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	4	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25-29	0	37	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
30-34	0	109	0.00000	0.022%	0.022%	0.0	0.0	0%	0%
35-39	0	198	0.00000	0.027%	0.027%	0.1	0.1	0%	0%
40-44	1	248	0.00403	0.041%	0.041%	0.1	0.1	982%	982%
45-49	0	300	0.00000	0.065%	0.065%	0.2	0.2	0%	0%
50-54	0	204	0.00000	0.089%	0.089%	0.2	0.2	0%	0%
55-59	0	114	0.00000	0.115%	0.115%	0.1	0.1	0%	0%
60-64	0	111	0.00000	0.138%	0.138%	0.2	0.2	0%	0%
65-69	0	25	0.00000	0.184%	0.184%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>1,350</b>				<b>0.9</b>	<b>0.9</b>	<b>112%</b>	<b>112%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	57	0.00000	0.039%	0.039%	0.0	0.0	0%	0%
25-29	0	254	0.00000	0.037%	0.037%	0.1	0.1	0%	0%
30-34	0	579	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
35-39	1	976	0.00102	0.049%	0.049%	0.5	0.5	210%	210%
40-44	1	1,066	0.00094	0.070%	0.070%	0.7	0.7	134%	134%
45-49	0	1,156	0.00000	0.114%	0.114%	1.3	1.3	0%	0%
50-54	1	1,056	0.00095	0.162%	0.162%	1.7	1.7	59%	59%
55-59	2	707	0.00283	0.210%	0.210%	1.5	1.5	135%	135%
60-64	0	450	0.00000	0.242%	0.242%	1.1	1.1	0%	0%
65-69	0	115	0.00000	0.339%	0.339%	0.4	0.4	0%	0%
70-74	0	5	0.00000	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>5</b>	<b>6,421</b>				<b>7.6</b>	<b>7.6</b>	<b>66%</b>	<b>66%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	2	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	13	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	23	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	0	44	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
24	0	66	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
25	0	89	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
26	0	112	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
27	0	138	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
28	0	147	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
29	0	185	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
30	0	223	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
31	0	257	0.00000	0.042%	0.042%	0.1	0.1	0%	0%
32	0	284	0.00000	0.044%	0.044%	0.1	0.1	0%	0%
33	1	307	0.00326	0.046%	0.046%	0.1	0.1	708%	708%
34	0	337	0.00000	0.048%	0.048%	0.2	0.2	0%	0%
35	0	353	0.00000	0.050%	0.050%	0.2	0.2	0%	0%
36	0	358	0.00000	0.052%	0.052%	0.2	0.2	0%	0%
37	0	367	0.00000	0.054%	0.054%	0.2	0.2	0%	0%
38	1	384	0.00260	0.056%	0.056%	0.2	0.2	465%	465%
39	1	384	0.00260	0.058%	0.058%	0.2	0.2	449%	449%
40	0	393	0.00000	0.060%	0.060%	0.2	0.2	0%	0%
41	0	409	0.00000	0.070%	0.070%	0.3	0.3	0%	0%
42	1	414	0.00242	0.080%	0.080%	0.3	0.3	302%	302%
43	0	402	0.00000	0.090%	0.090%	0.4	0.4	0%	0%
44	1	418	0.00239	0.100%	0.100%	0.4	0.4	239%	239%
45	0	421	0.00000	0.110%	0.110%	0.5	0.5	0%	0%
46	0	438	0.00000	0.120%	0.120%	0.5	0.5	0%	0%
47	0	455	0.00000	0.130%	0.130%	0.6	0.6	0%	0%
48	0	470	0.00000	0.140%	0.140%	0.7	0.7	0%	0%
49	0	474	0.00000	0.150%	0.150%	0.7	0.7	0%	0%
50	0	459	0.00000	0.160%	0.160%	0.7	0.7	0%	0%
51	1	421	0.00238	0.170%	0.170%	0.7	0.7	140%	140%
52	0	426	0.00000	0.180%	0.180%	0.8	0.8	0%	0%
53	2	405	0.00494	0.190%	0.190%	0.8	0.8	260%	260%
54	1	377	0.00265	0.200%	0.200%	0.8	0.8	133%	133%
55	0	361	0.00000	0.210%	0.210%	0.8	0.8	0%	0%
56	0	320	0.00000	0.220%	0.220%	0.7	0.7	0%	0%
57	1	284	0.00352	0.230%	0.230%	0.7	0.7	153%	153%
58	2	244	0.00820	0.240%	0.240%	0.6	0.6	342%	342%
59	0	207	0.00000	0.250%	0.250%	0.5	0.5	0%	0%
60	0	186	0.00000	0.260%	0.260%	0.5	0.5	0%	0%
61	0	161	0.00000	0.270%	0.270%	0.4	0.4	0%	0%
62	1	133	0.00752	0.280%	0.280%	0.4	0.4	269%	269%
63	0	105	0.00000	0.290%	0.290%	0.3	0.3	0%	0%
64	0	75	0.00000	0.300%	0.300%	0.2	0.2	0%	0%
65	0	55	0.00000	0.320%	0.320%	0.2	0.2	0%	0%
66	0	40	0.00000	0.350%	0.350%	0.1	0.1	0%	0%
67	0	30	0.00000	0.390%	0.390%	0.1	0.1	0%	0%
68	0	23	0.00000	0.440%	0.440%	0.1	0.1	0%	0%
69	0	20	0.00000	0.500%	0.500%	0.1	0.1	0%	0%
70	0	3	0.00000	N/A	N/A	0	0	0%	0%
71	0	2	0.00000	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>13</b>	<b>12,704</b>				<b>15.9</b>	<b>15.9</b>	<b>82%</b>	<b>82%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

TABLE 8B				10-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.020%	0.020%	0	0	0%	0%
21	0	1	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
22	0	1	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
23	0	5	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
24	0	10	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25	0	20	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
26	0	27	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
27	0	37	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
28	0	47	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
29	0	55	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
30	0	65	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
31	0	72	0.00000	0.021%	0.021%	0.0	0.0	0%	0%
32	0	78	0.00000	0.022%	0.022%	0.0	0.0	0%	0%
33	0	85	0.00000	0.023%	0.023%	0.0	0.0	0%	0%
34	0	96	0.00000	0.024%	0.024%	0.0	0.0	0%	0%
35	0	100	0.00000	0.025%	0.025%	0.0	0.0	0%	0%
36	0	109	0.00000	0.026%	0.026%	0.0	0.0	0%	0%
37	0	117	0.00000	0.027%	0.027%	0.0	0.0	0%	0%
38	0	135	0.00000	0.028%	0.028%	0.0	0.0	0%	0%
39	0	139	0.00000	0.029%	0.029%	0.0	0.0	0%	0%
40	0	142	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
41	0	139	0.00000	0.035%	0.035%	0.0	0.0	0%	0%
42	0	143	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
43	0	152	0.00000	0.045%	0.045%	0.1	0.1	0%	0%
44	1	145	0.00690	0.050%	0.050%	0.1	0.1	1379%	1379%
45	0	146	0.00000	0.055%	0.055%	0.1	0.1	0%	0%
46	0	141	0.00000	0.060%	0.060%	0.1	0.1	0%	0%
47	0	135	0.00000	0.065%	0.065%	0.1	0.1	0%	0%
48	0	126	0.00000	0.070%	0.070%	0.1	0.1	0%	0%
49	0	120	0.00000	0.075%	0.075%	0.1	0.1	0%	0%
50	0	105	0.00000	0.080%	0.080%	0.1	0.1	0%	0%
51	0	98	0.00000	0.085%	0.085%	0.1	0.1	0%	0%
52	0	91	0.00000	0.090%	0.090%	0.1	0.1	0%	0%
53	0	74	0.00000	0.095%	0.095%	0.1	0.1	0%	0%
54	0	80	0.00000	0.100%	0.100%	0.1	0.1	0%	0%
55	0	79	0.00000	0.105%	0.105%	0.1	0.1	0%	0%
56	1	68	0.01471	0.110%	0.110%	0.1	0.1	1337%	1337%
57	0	64	0.00000	0.115%	0.115%	0.1	0.1	0%	0%
58	0	62	0.00000	0.120%	0.120%	0.1	0.1	0%	0%
59	0	58	0.00000	0.125%	0.125%	0.1	0.1	0%	0%
60	0	54	0.00000	0.130%	0.130%	0.1	0.1	0%	0%
61	0	45	0.00000	0.135%	0.135%	0.1	0.1	0%	0%
62	0	38	0.00000	0.140%	0.140%	0.1	0.1	0%	0%
63	0	32	0.00000	0.145%	0.145%	0.0	0.0	0%	0%
64	0	20	0.00000	0.150%	0.150%	0.0	0.0	0%	0%
65	0	13	0.00000	0.160%	0.160%	0.0	0.0	0%	0%
66	0	12	0.00000	0.175%	0.175%	0.0	0.0	0%	0%
67	0	6	0.00000	0.195%	0.195%	0.0	0.0	0%	0%
68	0	6	0.00000	0.220%	0.220%	0.0	0.0	0%	0%
69	0	3	0.00000	0.250%	0.250%	0.0	0.0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	2	3,596				2.1	2.1	94%	94%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	2	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	14	0.00000	0.039%	0.039%	0.0	0.0	0%	0%
22	0	24	0.00000	0.039%	0.039%	0.0	0.0	0%	0%
23	0	49	0.00000	0.038%	0.038%	0.0	0.0	0%	0%
24	0	76	0.00000	0.037%	0.037%	0.0	0.0	0%	0%
25	0	109	0.00000	0.036%	0.036%	0.0	0.0	0%	0%
26	0	139	0.00000	0.036%	0.036%	0.1	0.1	0%	0%
27	0	175	0.00000	0.036%	0.036%	0.1	0.1	0%	0%
28	0	194	0.00000	0.035%	0.035%	0.1	0.1	0%	0%
29	0	240	0.00000	0.035%	0.035%	0.1	0.1	0%	0%
30	0	288	0.00000	0.035%	0.035%	0.1	0.1	0%	0%
31	0	329	0.00000	0.037%	0.037%	0.1	0.1	0%	0%
32	0	362	0.00000	0.039%	0.039%	0.1	0.1	0%	0%
33	1	392	0.00255	0.041%	0.041%	0.2	0.2	622%	622%
34	0	433	0.00000	0.043%	0.043%	0.2	0.2	0%	0%
35	0	453	0.00000	0.044%	0.044%	0.2	0.2	0%	0%
36	0	467	0.00000	0.046%	0.046%	0.2	0.2	0%	0%
37	0	484	0.00000	0.047%	0.047%	0.2	0.2	0%	0%
38	1	519	0.00193	0.049%	0.049%	0.3	0.3	396%	396%
39	1	523	0.00191	0.050%	0.050%	0.3	0.3	380%	380%
40	0	535	0.00000	0.052%	0.052%	0.3	0.3	0%	0%
41	0	548	0.00000	0.061%	0.061%	0.3	0.3	0%	0%
42	1	557	0.00180	0.070%	0.070%	0.4	0.4	257%	257%
43	0	554	0.00000	0.078%	0.078%	0.4	0.4	0%	0%
44	2	563	0.00355	0.087%	0.087%	0.5	0.5	408%	408%
45	0	567	0.00000	0.096%	0.096%	0.5	0.5	0%	0%
46	0	579	0.00000	0.105%	0.105%	0.6	0.6	0%	0%
47	0	590	0.00000	0.115%	0.115%	0.7	0.7	0%	0%
48	0	596	0.00000	0.125%	0.125%	0.7	0.7	0%	0%
49	0	594	0.00000	0.135%	0.135%	0.8	0.8	0%	0%
50	0	564	0.00000	0.145%	0.145%	0.8	0.8	0%	0%
51	1	519	0.00193	0.154%	0.154%	0.8	0.8	125%	125%
52	0	517	0.00000	0.164%	0.164%	0.8	0.8	0%	0%
53	2	479	0.00418	0.175%	0.175%	0.8	0.8	238%	238%
54	1	457	0.00219	0.182%	0.182%	0.8	0.8	120%	120%
55	0	440	0.00000	0.191%	0.191%	0.8	0.8	0%	0%
56	1	388	0.00258	0.201%	0.201%	0.8	0.8	128%	128%
57	1	348	0.00287	0.209%	0.209%	0.7	0.7	138%	138%
58	2	306	0.00654	0.216%	0.216%	0.7	0.7	303%	303%
59	0	265	0.00000	0.223%	0.223%	0.6	0.6	0%	0%
60	0	240	0.00000	0.231%	0.231%	0.6	0.6	0%	0%
61	0	206	0.00000	0.241%	0.241%	0.5	0.5	0%	0%
62	1	171	0.00585	0.249%	0.249%	0.4	0.4	235%	235%
63	0	137	0.00000	0.256%	0.256%	0.4	0.4	0%	0%
64	0	95	0.00000	0.268%	0.268%	0.3	0.3	0%	0%
65	0	68	0.00000	0.289%	0.289%	0.2	0.2	0%	0%
66	0	52	0.00000	0.310%	0.310%	0.2	0.2	0%	0%
67	0	36	0.00000	0.358%	0.358%	0.1	0.1	0%	0%
68	0	29	0.00000	0.394%	0.394%	0.1	0.1	0%	0%
69	0	23	0.00000	0.467%	0.467%	0.1	0.1	0%	0%
70	0	3	0.00000	0.000%	0.000%	0	0	0%	0%
71	0	2	0.00000	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
<b>Total</b>	<b>15</b>	<b>16,300</b>				<b>18.1</b>	<b>18.1</b>	<b>83%</b>	<b>83%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	148	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
25-29	0	671	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
30-34	1	1,408	0.00071	0.044%	0.044%	0.6	0.6	160%	160%
35-39	2	1,846	0.00108	0.054%	0.054%	1.0	1.0	200%	200%
40-44	2	2,036	0.00098	0.080%	0.080%	1.6	1.6	122%	122%
45-49	0	2,258	0.00000	0.131%	0.131%	2.9	2.9	0%	0%
50-54	4	2,088	0.00192	0.179%	0.179%	3.7	3.7	107%	107%
55-59	3	1,416	0.00212	0.227%	0.227%	3.2	3.2	93%	93%
60-64	1	660	0.00152	0.276%	0.276%	1.8	1.8	55%	55%
65-69	0	168	0.00000	0.378%	0.378%	0.6	0.6	0%	0%
70-74	0	5	0.00000	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>13</b>	<b>12,704</b>				<b>15.9</b>	<b>15.9</b>	<b>82%</b>	<b>82%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	17	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
25-29	0	186	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
30-34	0	396	0.00000	0.022%	0.022%	0.1	0.1	0%	0%
35-39	0	600	0.00000	0.027%	0.027%	0.2	0.2	0%	0%
40-44	1	721	0.00139	0.040%	0.040%	0.3	0.3	346%	346%
45-49	0	668	0.00000	0.064%	0.064%	0.4	0.4	0%	0%
50-54	0	448	0.00000	0.089%	0.089%	0.4	0.4	0%	0%
55-59	1	331	0.00302	0.114%	0.114%	0.4	0.4	264%	264%
60-64	0	189	0.00000	0.138%	0.138%	0.3	0.3	0%	0%
65-69	0	40	0.00000	0.186%	0.186%	0.1	0.1	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2</b>	<b>3,596</b>				<b>2.1</b>	<b>2.1</b>	<b>94%</b>	<b>94%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 8C GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	165	0.00000	0.038%	0.038%	0.1	0.1	0%	0%
25-29	0	857	0.00000	0.036%	0.036%	0.3	0.3	0%	0%
30-34	1	1,804	0.00055	0.040%	0.040%	0.7	0.7	140%	140%
35-39	2	2,446	0.00082	0.047%	0.047%	1.2	1.2	172%	172%
40-44	3	2,757	0.00109	0.070%	0.070%	1.9	1.9	156%	156%
45-49	0	2,926	0.00000	0.116%	0.116%	3.4	3.4	0%	0%
50-54	4	2,536	0.00158	0.163%	0.163%	4.1	4.1	97%	97%
55-59	4	1,747	0.00229	0.206%	0.206%	3.6	3.6	111%	111%
60-64	1	849	0.00118	0.245%	0.245%	2.1	2.1	48%	48%
65-69	0	208	0.00000	0.341%	0.341%	0.7	0.7	0%	0%
70-74	0	5	0.00000	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>15</b>	<b>16,300</b>				<b>18.1</b>	<b>18.1</b>	<b>83%</b>	<b>83%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 8D Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	1,543	2	5.4	37%	0.130%	0.353%
2005	1,633	3	5.5	54%	0.184%	0.339%
2006	1,675	1	5.9	17%	0.060%	0.352%
2007	1,672	1	6.0	17%	0.060%	0.360%
2008	1,664	3	6.1	49%	0.180%	0.369%
2009	1,692	0	6.4	0%	0.000%	0.377%
2010	1,676	1	6.7	15%	0.060%	0.398%
2011	1,647	1	6.8	15%	0.061%	0.413%
2012	1,578	2	6.8	29%	0.127%	0.430%
2013	1,520	1	6.7	15%	0.066%	0.444%
Total	16,300	15	62.4	24%	0.092%	0.383%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.010%	0.010%	0	0	0%	0%
21	0	0	N/A	0.010%	0.010%	0	0	0%	0%
22	0	0	N/A	0.010%	0.010%	0	0	0%	0%
23	0	1	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
24	0	3	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25	0	6	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
26	0	7	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
27	0	6	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
28	0	7	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
29	0	11	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
30	0	14	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
31	0	17	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
32	0	26	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
33	0	25	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
34	0	27	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
35	0	30	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
36	0	37	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
37	0	42	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
38	0	44	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
39	0	45	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
40	0	40	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
41	0	41	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
42	0	52	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
43	0	57	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
44	0	58	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
45	0	67	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
46	0	61	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
47	0	56	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
48	0	53	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
49	0	63	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
50	0	52	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
51	0	46	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
52	0	47	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
53	0	29	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
54	0	30	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
55	0	26	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
56	0	18	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
57	0	22	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
58	0	25	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
59	0	23	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
60	0	28	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
61	0	28	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
62	0	24	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
63	0	19	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
64	0	12	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65	0	7	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
66	0	9	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
67	0	4	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
68	0	4	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
69	0	1	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	0	1,350				0.1	0.1	0%	0%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	4	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25-29	0	37	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
30-34	0	109	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
35-39	0	198	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
40-44	0	248	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
45-49	0	300	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
50-54	0	204	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
55-59	0	114	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
60-64	0	111	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65-69	0	25	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
Total	0	1,350				0.1	0.1	0%	0%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.010%	0.010%	0	0	0%	0%
21	0	1	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
22	0	1	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
23	0	5	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
24	0	10	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25	0	20	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
26	0	27	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
27	0	37	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
28	0	47	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
29	0	55	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
30	0	65	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
31	0	73	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
32	0	79	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
33	0	85	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
34	0	96	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
35	0	100	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
36	0	109	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
37	0	117	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
38	0	135	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
39	0	139	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
40	0	142	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
41	0	139	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
42	0	143	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
43	0	152	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
44	0	145	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
45	0	146	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
46	0	141	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
47	0	135	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
48	0	126	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
49	0	120	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
50	0	105	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
51	0	98	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
52	0	91	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
53	0	74	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
54	0	80	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
55	0	79	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
56	0	68	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
57	0	64	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
58	0	62	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
59	0	58	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
60	0	54	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
61	0	45	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
62	0	38	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
63	0	32	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
64	0	20	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65	0	13	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
66	0	12	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
67	0	6	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
68	0	6	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
69	0	3	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0			0.000%	0	0	0%	0%
Total	0	3,598				0.4	0.4	0%	0%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	17	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
25-29	0	186	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
30-34	0	398	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
35-39	0	600	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
40-44	0	721	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
45-49	0	668	0.00000	0.010%	0.010%	0.1	0.1	0%	0%
50-54	0	448	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
55-59	0	331	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
60-64	0	189	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
65-69	0	40	0.00000	0.010%	0.010%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>0</b>	<b>3,598</b>				<b>0.4</b>	<b>0.4</b>	<b>0%</b>	<b>0%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 9B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	1,543	0	0.6	0%	0.000%	0.041%
2005	1,633	0	0.6	0%	0.000%	0.039%
2006	1,675	0	0.7	0%	0.000%	0.040%
2007	1,672	0	0.7	0%	0.000%	0.041%
2008	1,664	0	0.7	0%	0.000%	0.042%
2009	1,692	0	0.7	0%	0.000%	0.043%
2010	1,676	0	0.8	0%	0.000%	0.045%
2011	1,647	0	0.8	0%	0.000%	0.046%
2012	1,578	0	0.8	0%	0.000%	0.048%
2013	1,520	0	0.8	0%	0.000%	0.050%
Total	16,300	0	7.1	0%	0.000%	0.044%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.40%	0.40%	0	0	0%	0%
21	0	0	N/A	0.40%	0.40%	0	0	0%	0%
22	0	0	N/A	0.40%	0.40%	0	0	0%	0%
23	0	0	N/A	0.40%	0.40%	0	0	0%	0%
24	0	0	N/A	0.40%	0.40%	0	0	0%	0%
25	0	0	N/A	0.40%	0.40%	0	0	0%	0%
26	0	0	N/A	0.40%	0.40%	0	0	0%	0%
27	0	0	N/A	0.40%	0.40%	0	0	0%	0%
28	0	0	N/A	0.40%	0.40%	0	0	0%	0%
29	0	0	N/A	0.40%	0.40%	0	0	0%	0%
30	0	2	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
31	0	7	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
32	0	11	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
33	0	13	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
34	0	12	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
35	0	22	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
36	0	29	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
37	0	37	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
38	0	40	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
39	0	53	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
40	0	61	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
41	1	66	0.0152	0.40%	0.40%	0.3	0.3	379%	379%
42	0	75	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
43	0	80	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
44	0	80	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
45	1	91	0.0110	0.40%	0.40%	0.4	0.4	275%	275%
46	0	99	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
47	0	98	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
48	0	113	0.0000	0.40%	0.40%	0.5	0.5	0%	0%
49	0	116	0.0000	0.40%	0.40%	0.5	0.5	0%	0%
50	1	127	0.0079	0.40%	0.40%	0.5	0.5	197%	197%
51	1	124	0.0081	0.40%	0.40%	0.5	0.5	202%	202%
52	0	110	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
53	0	120	0.0000	0.40%	0.40%	0.5	0.5	0%	0%
54	0	101	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
55	0	99	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
56	0	89	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
57	1	75	0.0133	0.40%	0.40%	0.3	0.3	333%	333%
58	1	82	0.0122	0.40%	0.40%	0.3	0.3	305%	305%
59	0	64	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
60	0	64	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
61	0	55	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
62	1	39	0.0256	0.40%	0.40%	0.2	0.2	641%	641%
63	1	25	0.0400	0.40%	0.40%	0.1	0.1	1000%	1000%
64	0	20	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
65	0	15	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
66	0	13	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
67	0	7	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
68	0	10	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
69	0	5	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	8	2,349				9.4	9.4	85%	85%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.04%	0.04%	0	0	0%	0%
21	0	0	N/A	0.04%	0.04%	0	0	0%	0%
22	0	0	N/A	0.04%	0.04%	0	0	0%	0%
23	0	0	N/A	0.04%	0.04%	0	0	0%	0%
24	0	0	N/A	0.04%	0.04%	0	0	0%	0%
25	0	0	N/A	0.04%	0.04%	0	0	0%	0%
26	0	0	N/A	0.04%	0.04%	0	0	0%	0%
27	0	0	N/A	0.04%	0.04%	0	0	0%	0%
28	0	0	N/A	0.04%	0.04%	0	0	0%	0%
29	0	0	N/A	0.04%	0.04%	0	0	0%	0%
30	0	0	N/A	0.05%	0.05%	0	0	0%	0%
31	0	1	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
32	0	3	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
33	0	0	N/A	0.05%	0.05%	0	0	0%	0%
34	0	4	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
35	0	4	0.0000	0.06%	0.06%	0.0	0.0	0%	0%
36	0	5	0.0000	0.07%	0.07%	0.0	0.0	0%	0%
37	0	10	0.0000	0.09%	0.09%	0.0	0.0	0%	0%
38	0	10	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
39	0	12	0.0000	0.12%	0.12%	0.0	0.0	0%	0%
40	0	21	0.0000	0.14%	0.14%	0.0	0.0	0%	0%
41	0	28	0.0000	0.17%	0.17%	0.0	0.0	0%	0%
42	0	36	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
43	0	42	0.0000	0.23%	0.23%	0.1	0.1	0%	0%
44	0	39	0.0000	0.26%	0.26%	0.1	0.1	0%	0%
45	0	33	0.0000	0.30%	0.30%	0.1	0.1	0%	0%
46	0	25	0.0000	0.33%	0.33%	0.1	0.1	0%	0%
47	0	32	0.0000	0.36%	0.36%	0.1	0.1	0%	0%
48	0	27	0.0000	0.39%	0.39%	0.1	0.1	0%	0%
49	0	32	0.0000	0.42%	0.42%	0.1	0.1	0%	0%
50	0	37	0.0000	0.45%	0.45%	0.2	0.2	0%	0%
51	1	24	0.0417	0.46%	0.46%	0.1	0.1	906%	906%
52	0	23	0.0000	0.47%	0.47%	0.1	0.1	0%	0%
53	0	24	0.0000	0.49%	0.49%	0.1	0.1	0%	0%
54	0	15	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
55	0	17	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
56	0	15	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
57	0	17	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
58	0	23	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
59	0	24	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
60	0	23	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
61	0	24	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
62	0	15	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
63	0	7	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
64	0	8	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
65	0	6	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
66	0	5	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
67	0	3	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
68	0	0	N/A	0.50%	0.50%	0	0	0%	0%
69	0	0	N/A	0.50%	0.50%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	1	674				2.4	2.4	41%	41%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	0	N/A	0.00%	0.00%	0	0	0%	0%
28	0	0	N/A	0.00%	0.00%	0	0	0%	0%
29	0	0	N/A	0.00%	0.00%	0	0	0%	0%
30	0	2	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
31	0	8	0.0000	0.36%	0.36%	0.0	0.0	0%	0%
32	0	14	0.0000	0.33%	0.33%	0.0	0.0	0%	0%
33	0	13	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
34	0	16	0.0000	0.31%	0.31%	0.1	0.1	0%	0%
35	0	26	0.0000	0.35%	0.35%	0.1	0.1	0%	0%
36	0	34	0.0000	0.35%	0.35%	0.1	0.1	0%	0%
37	0	47	0.0000	0.33%	0.33%	0.2	0.2	0%	0%
38	0	50	0.0000	0.34%	0.34%	0.2	0.2	0%	0%
39	0	65	0.0000	0.35%	0.35%	0.2	0.2	0%	0%
40	0	82	0.0000	0.33%	0.33%	0.3	0.3	0%	0%
41	1	94	0.0106	0.33%	0.33%	0.3	0.3	321%	321%
42	0	111	0.0000	0.34%	0.34%	0.4	0.4	0%	0%
43	0	122	0.0000	0.34%	0.34%	0.4	0.4	0%	0%
44	0	119	0.0000	0.35%	0.35%	0.4	0.4	0%	0%
45	1	124	0.0081	0.37%	0.37%	0.5	0.5	216%	216%
46	0	124	0.0000	0.39%	0.39%	0.5	0.5	0%	0%
47	0	130	0.0000	0.39%	0.39%	0.5	0.5	0%	0%
48	0	140	0.0000	0.40%	0.40%	0.6	0.6	0%	0%
49	0	148	0.0000	0.40%	0.40%	0.6	0.6	0%	0%
50	1	164	0.0061	0.41%	0.41%	0.7	0.7	148%	148%
51	2	148	0.0135	0.41%	0.41%	0.6	0.6	330%	330%
52	0	133	0.0000	0.41%	0.41%	0.5	0.5	0%	0%
53	0	144	0.0000	0.42%	0.42%	0.6	0.6	0%	0%
54	0	116	0.0000	0.41%	0.41%	0.5	0.5	0%	0%
55	0	116	0.0000	0.41%	0.41%	0.5	0.5	0%	0%
56	0	104	0.0000	0.41%	0.41%	0.4	0.4	0%	0%
57	1	92	0.0109	0.42%	0.42%	0.4	0.4	260%	260%
58	1	105	0.0095	0.42%	0.42%	0.4	0.4	226%	226%
59	0	88	0.0000	0.43%	0.43%	0.4	0.4	0%	0%
60	0	87	0.0000	0.43%	0.43%	0.4	0.4	0%	0%
61	0	79	0.0000	0.43%	0.43%	0.3	0.3	0%	0%
62	1	54	0.0185	0.43%	0.43%	0.2	0.2	433%	433%
63	1	32	0.0313	0.42%	0.42%	0.1	0.1	741%	741%
64	0	28	0.0000	0.43%	0.43%	0.1	0.1	0%	0%
65	0	21	0.0000	0.43%	0.43%	0.1	0.1	0%	0%
66	0	18	0.0000	0.43%	0.43%	0.1	0.1	0%	0%
67	0	10	0.0000	0.43%	0.43%	0.0	0.0	0%	0%
68	0	10	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
69	0	5	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	9	3,023				11.8	11.8	76%	76%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	0	45	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
35-39	0	181	0.0000	0.40%	0.40%	0.7	0.7	0%	0%
40-44	1	362	0.0028	0.40%	0.40%	1.4	1.4	69%	69%
45-49	1	517	0.0019	0.40%	0.40%	2.1	2.1	48%	48%
50-54	2	582	0.0034	0.40%	0.40%	2.3	2.3	86%	86%
55-59	2	409	0.0049	0.40%	0.40%	1.6	1.6	122%	122%
60-64	2	203	0.0099	0.40%	0.40%	0.8	0.8	246%	246%
65-69	0	50	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>8</b>	<b>2,349</b>				<b>9.4</b>	<b>9.4</b>	<b>85%</b>	<b>85%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	0	8	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
35-39	0	41	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
40-44	0	166	0.0000	0.21%	0.21%	0.3	0.3	0%	0%
45-49	0	149	0.0000	0.36%	0.36%	0.5	0.5	0%	0%
50-54	1	123	0.0081	0.47%	0.47%	0.6	0.6	173%	173%
55-59	0	96	0.0000	0.50%	0.50%	0.5	0.5	0%	0%
60-64	0	77	0.0000	0.50%	0.50%	0.4	0.4	0%	0%
65-69	0	14	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>674</b>				<b>2.4</b>	<b>2.4</b>	<b>41%</b>	<b>41%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	0	53	0.0000	0.35%	0.35%	0.2	0.2	0%	0%
35-39	0	222	0.0000	0.34%	0.34%	0.8	0.8	0%	0%
40-44	1	528	0.0019	0.34%	0.34%	1.8	1.8	56%	56%
45-49	1	666	0.0015	0.39%	0.39%	2.6	2.6	38%	38%
50-54	3	705	0.0043	0.41%	0.41%	2.9	2.9	103%	103%
55-59	2	505	0.0040	0.42%	0.42%	2.1	2.1	95%	95%
60-64	2	280	0.0071	0.43%	0.43%	1.2	1.2	167%	167%
65-69	0	64	0.0000	0.42%	0.42%	0.3	0.3	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>9</b>	<b>3,023</b>				<b>11.8</b>	<b>11.8</b>	<b>76%</b>	<b>76%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.40%	0.40%	0	0	0%	0%
21	0	0	N/A	0.40%	0.40%	0	0	0%	0%
22	0	0	N/A	0.40%	0.40%	0	0	0%	0%
23	0	0	N/A	0.40%	0.40%	0	0	0%	0%
24	0	0	N/A	0.40%	0.40%	0	0	0%	0%
25	0	0	N/A	0.40%	0.40%	0	0	0%	0%
26	0	0	N/A	0.40%	0.40%	0	0	0%	0%
27	0	0	N/A	0.40%	0.40%	0	0	0%	0%
28	0	0	N/A	0.40%	0.40%	0	0	0%	0%
29	0	0	N/A	0.40%	0.40%	0	0	0%	0%
30	0	3	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
31	0	8	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
32	0	15	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
33	0	21	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
34	0	27	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
35	0	42	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
36	0	61	0.0000	0.40%	0.40%	0.2	0.2	0%	0%
37	0	79	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
38	0	91	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
39	0	118	0.0000	0.40%	0.40%	0.5	0.5	0%	0%
40	0	129	0.0000	0.40%	0.40%	0.5	0.5	0%	0%
41	2	153	0.0131	0.40%	0.40%	0.6	0.6	327%	327%
42	0	165	0.0000	0.40%	0.40%	0.7	0.7	0%	0%
43	0	169	0.0000	0.40%	0.40%	0.7	0.7	0%	0%
44	2	179	0.0112	0.40%	0.40%	0.7	0.7	279%	279%
45	1	188	0.0053	0.40%	0.40%	0.8	0.8	133%	133%
46	1	203	0.0049	0.40%	0.40%	0.8	0.8	123%	123%
47	1	214	0.0047	0.40%	0.40%	0.9	0.9	117%	117%
48	0	235	0.0000	0.40%	0.40%	0.9	0.9	0%	0%
49	0	252	0.0000	0.40%	0.40%	1.0	1.0	0%	0%
50	1	266	0.0038	0.40%	0.40%	1.1	1.1	94%	94%
51	2	252	0.0079	0.40%	0.40%	1.0	1.0	198%	198%
52	2	240	0.0083	0.40%	0.40%	1.0	1.0	208%	208%
53	1	229	0.0044	0.40%	0.40%	0.9	0.9	109%	109%
54	0	215	0.0000	0.40%	0.40%	0.9	0.9	0%	0%
55	0	204	0.0000	0.40%	0.40%	0.8	0.8	0%	0%
56	1	187	0.0053	0.40%	0.40%	0.7	0.7	134%	134%
57	2	162	0.0123	0.40%	0.40%	0.6	0.6	309%	309%
58	1	139	0.0072	0.40%	0.40%	0.6	0.6	180%	180%
59	0	106	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
60	0	94	0.0000	0.40%	0.40%	0.4	0.4	0%	0%
61	0	84	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
62	2	64	0.0313	0.40%	0.40%	0.3	0.3	781%	781%
63	1	45	0.0222	0.40%	0.40%	0.2	0.2	556%	556%
64	0	36	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
65	0	26	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
66	0	20	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
67	0	15	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
68	0	15	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
69	0	10	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>20</b>	<b>4,761</b>				<b>19.0</b>	<b>19.0</b>	<b>105%</b>	<b>105%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.04%	0.04%	0	0	0%	0%
21	0	0	N/A	0.04%	0.04%	0	0	0%	0%
22	0	0	N/A	0.04%	0.04%	0	0	0%	0%
23	0	0	N/A	0.04%	0.04%	0	0	0%	0%
24	0	0	N/A	0.04%	0.04%	0	0	0%	0%
25	0	0	N/A	0.04%	0.04%	0	0	0%	0%
26	0	0	N/A	0.04%	0.04%	0	0	0%	0%
27	0	0	N/A	0.04%	0.04%	0	0	0%	0%
28	0	0	N/A	0.04%	0.04%	0	0	0%	0%
29	0	0	N/A	0.04%	0.04%	0	0	0%	0%
30	0	0	N/A	0.05%	0.05%	0	0	0%	0%
31	0	1	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
32	0	3	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
33	0	0	N/A	0.05%	0.05%	0	0	0%	0%
34	0	5	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
35	0	8	0.0000	0.06%	0.06%	0.0	0.0	0%	0%
36	0	12	0.0000	0.07%	0.07%	0.0	0.0	0%	0%
37	0	28	0.0000	0.09%	0.09%	0.0	0.0	0%	0%
38	0	35	0.0000	0.10%	0.10%	0.0	0.0	0%	0%
39	0	43	0.0000	0.12%	0.12%	0.1	0.1	0%	0%
40	0	53	0.0000	0.14%	0.14%	0.1	0.1	0%	0%
41	0	53	0.0000	0.17%	0.17%	0.1	0.1	0%	0%
42	0	56	0.0000	0.20%	0.20%	0.1	0.1	0%	0%
43	0	64	0.0000	0.23%	0.23%	0.1	0.1	0%	0%
44	0	60	0.0000	0.26%	0.26%	0.2	0.2	0%	0%
45	1	54	0.0185	0.30%	0.30%	0.2	0.2	617%	617%
46	0	53	0.0000	0.33%	0.33%	0.2	0.2	0%	0%
47	0	59	0.0000	0.36%	0.36%	0.2	0.2	0%	0%
48	0	52	0.0000	0.39%	0.39%	0.2	0.2	0%	0%
49	1	58	0.0172	0.42%	0.42%	0.2	0.2	411%	411%
50	0	54	0.0000	0.45%	0.45%	0.2	0.2	0%	0%
51	1	39	0.0256	0.46%	0.46%	0.2	0.2	557%	557%
52	0	41	0.0000	0.47%	0.47%	0.2	0.2	0%	0%
53	0	44	0.0000	0.49%	0.49%	0.2	0.2	0%	0%
54	0	38	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
55	0	42	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
56	0	37	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
57	0	40	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
58	1	38	0.0263	0.50%	0.50%	0.2	0.2	526%	526%
59	0	33	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
60	0	30	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
61	0	30	0.0000	0.50%	0.50%	0.2	0.2	0%	0%
62	0	19	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
63	0	12	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
64	0	10	0.0000	0.50%	0.50%	0.1	0.1	0%	0%
65	1	8	0.1250	0.50%	0.50%	0.0	0.0	2500%	2500%
66	0	6	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
67	0	4	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
68	0	1	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
69	0	1	0.0000	0.50%	0.50%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	5	1,224				4.3	4.3	117%	117%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.00%	0.00%	0	0	0%	0%
21	0	0	N/A	0.00%	0.00%	0	0	0%	0%
22	0	0	N/A	0.00%	0.00%	0	0	0%	0%
23	0	0	N/A	0.00%	0.00%	0	0	0%	0%
24	0	0	N/A	0.00%	0.00%	0	0	0%	0%
25	0	0	N/A	0.00%	0.00%	0	0	0%	0%
26	0	0	N/A	0.00%	0.00%	0	0	0%	0%
27	0	0	N/A	0.00%	0.00%	0	0	0%	0%
28	0	0	N/A	0.00%	0.00%	0	0	0%	0%
29	0	0	N/A	0.00%	0.00%	0	0	0%	0%
30	0	3	0.0000	0.40%	0.40%	0.0	0.0	0%	0%
31	0	9	0.0000	0.36%	0.36%	0.0	0.0	0%	0%
32	0	18	0.0000	0.34%	0.34%	0.1	0.1	0%	0%
33	0	21	0.0000	0.40%	0.40%	0.1	0.1	0%	0%
34	0	32	0.0000	0.35%	0.35%	0.1	0.1	0%	0%
35	0	50	0.0000	0.35%	0.35%	0.2	0.2	0%	0%
36	0	73	0.0000	0.35%	0.35%	0.3	0.3	0%	0%
37	0	107	0.0000	0.32%	0.32%	0.3	0.3	0%	0%
38	0	126	0.0000	0.32%	0.32%	0.4	0.4	0%	0%
39	0	161	0.0000	0.33%	0.33%	0.5	0.5	0%	0%
40	0	182	0.0000	0.32%	0.32%	0.6	0.6	0%	0%
41	2	206	0.0097	0.34%	0.34%	0.7	0.7	285%	285%
42	0	221	0.0000	0.35%	0.35%	0.8	0.8	0%	0%
43	0	233	0.0000	0.35%	0.35%	0.8	0.8	0%	0%
44	2	239	0.0084	0.36%	0.36%	0.9	0.9	229%	229%
45	2	242	0.0083	0.38%	0.38%	0.9	0.9	219%	219%
46	1	256	0.0039	0.39%	0.39%	1.0	1.0	101%	101%
47	1	273	0.0037	0.39%	0.39%	1.1	1.1	94%	94%
48	0	287	0.0000	0.40%	0.40%	1.1	1.1	0%	0%
49	1	310	0.0032	0.40%	0.40%	1.3	1.3	80%	80%
50	1	320	0.0031	0.41%	0.41%	1.3	1.3	77%	77%
51	3	291	0.0103	0.41%	0.41%	1.2	1.2	253%	253%
52	2	281	0.0071	0.41%	0.41%	1.2	1.2	174%	174%
53	1	273	0.0037	0.41%	0.41%	1.1	1.1	88%	88%
54	0	253	0.0000	0.42%	0.42%	1.1	1.1	0%	0%
55	0	246	0.0000	0.42%	0.42%	1.0	1.0	0%	0%
56	1	224	0.0045	0.42%	0.42%	0.9	0.9	107%	107%
57	2	202	0.0099	0.42%	0.42%	0.8	0.8	236%	236%
58	2	177	0.0113	0.42%	0.42%	0.7	0.7	268%	268%
59	0	139	0.0000	0.42%	0.42%	0.6	0.6	0%	0%
60	0	124	0.0000	0.42%	0.42%	0.5	0.5	0%	0%
61	0	114	0.0000	0.43%	0.43%	0.5	0.5	0%	0%
62	2	83	0.0241	0.42%	0.42%	0.4	0.4	570%	570%
63	1	57	0.0175	0.42%	0.42%	0.2	0.2	417%	417%
64	0	46	0.0000	0.42%	0.42%	0.2	0.2	0%	0%
65	1	34	0.0294	0.42%	0.42%	0.1	0.1	694%	694%
66	0	26	0.0000	0.42%	0.42%	0.1	0.1	0%	0%
67	0	19	0.0000	0.42%	0.42%	0.1	0.1	0%	0%
68	0	16	0.0000	0.41%	0.41%	0.1	0.1	0%	0%
69	0	11	0.0000	0.41%	0.41%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	25	5,985				23.3	23.3	107%	107%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	0	74	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
35-39	0	391	0.0000	0.40%	0.40%	1.6	1.6	0%	0%
40-44	4	795	0.0050	0.40%	0.40%	3.2	3.2	126%	126%
45-49	3	1,092	0.0027	0.40%	0.40%	4.4	4.4	69%	69%
50-54	6	1,202	0.0050	0.40%	0.40%	4.8	4.8	125%	125%
55-59	4	798	0.0050	0.40%	0.40%	3.2	3.2	125%	125%
60-64	3	323	0.0093	0.40%	0.40%	1.3	1.3	232%	232%
65-69	0	86	0.0000	0.40%	0.40%	0.3	0.3	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
Total	20	4,761				19.0	19.0	105%	105%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	0	9	0.0000	0.05%	0.05%	0.0	0.0	0%	0%
35-39	0	126	0.0000	0.10%	0.10%	0.1	0.1	0%	0%
40-44	0	286	0.0000	0.20%	0.20%	0.6	0.6	0%	0%
45-49	2	276	0.0072	0.36%	0.36%	1.0	1.0	201%	201%
50-54	1	216	0.0046	0.47%	0.47%	1.0	1.0	98%	98%
55-59	1	190	0.0053	0.50%	0.50%	1.0	1.0	105%	105%
60-64	0	101	0.0000	0.50%	0.50%	0.5	0.5	0%	0%
65-69	1	20	0.0500	0.50%	0.50%	0.1	0.1	1000%	1000%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>5</b>	<b>1,224</b>				<b>4.3</b>	<b>4.3</b>	<b>117%</b>	<b>117%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 10C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	0	N/A			0	0	0%	0%
30-34	0	83	0.0000	0.36%	0.36%	0.3	0.3	0%	0%
35-39	0	517	0.0000	0.33%	0.33%	1.7	1.7	0%	0%
40-44	4	1,081	0.0037	0.35%	0.35%	3.8	3.8	106%	106%
45-49	5	1,368	0.0037	0.39%	0.39%	5.4	5.4	93%	93%
50-54	7	1,418	0.0049	0.41%	0.41%	5.8	5.8	120%	120%
55-59	5	988	0.0051	0.42%	0.42%	4.1	4.1	121%	121%
60-64	3	424	0.0071	0.42%	0.42%	1.8	1.8	167%	167%
65-69	1	106	0.0094	0.42%	0.42%	0.4	0.4	225%	225%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>25</b>	<b>5,985</b>				<b>23.3</b>	<b>23.3</b>	<b>107%</b>	<b>107%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 10D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	779	5	0.1	7346%	0.64%	0.01%
2005	751	2	0.1	3056%	0.27%	0.01%
2006	731	5	0.1	7849%	0.68%	0.01%
2007	701	4	0.1	6548%	0.57%	0.01%
2008	693	1	0.1	1655%	0.14%	0.01%
2009	686	0	0.1	0%	0.00%	0.01%
2010	791	2	0.1	2901%	0.25%	0.01%
2011	853	6	0.1	8065%	0.70%	0.01%
2012	936	1	0.1	1226%	0.11%	0.01%
2013	993	3	0.1	3464%	0.30%	0.01%
Total	7,914	29	0.7	4202%	0.37%	0.01%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
21	0	8	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
22	0	14	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
23	0	22	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
24	0	25	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
25	0	31	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
26	0	40	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
27	0	54	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
28	0	65	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
29	0	78	0.0000	0.03%	0.04%	0.0	0.0	0%	0%
30	0	84	0.0000	0.03%	0.04%	0.0	0.0	0%	0%
31	0	99	0.0000	0.03%	0.04%	0.0	0.0	0%	0%
32	0	111	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
33	0	122	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
34	0	145	0.0000	0.05%	0.04%	0.1	0.1	0%	0%
35	0	153	0.0000	0.05%	0.04%	0.1	0.1	0%	0%
36	0	164	0.0000	0.05%	0.04%	0.1	0.1	0%	0%
37	0	169	0.0000	0.06%	0.04%	0.1	0.1	0%	0%
38	0	162	0.0000	0.06%	0.04%	0.1	0.1	0%	0%
39	0	168	0.0000	0.07%	0.04%	0.1	0.1	0%	0%
40	0	167	0.0000	0.07%	0.04%	0.1	0.1	0%	0%
41	0	156	0.0000	0.07%	0.04%	0.1	0.1	0%	0%
42	0	142	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
43	0	147	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
44	0	167	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
45	0	181	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
46	0	185	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
47	0	179	0.0000	0.09%	0.04%	0.2	0.1	0%	0%
48	0	185	0.0000	0.09%	0.04%	0.2	0.1	0%	0%
49	0	185	0.0000	0.09%	0.04%	0.2	0.1	0%	0%
50	0	195	0.0000	0.09%	0.04%	0.2	0.1	0%	0%
51	0	190	0.0000	0.09%	0.04%	0.2	0.1	0%	0%
52	0	165	0.0000	0.09%	0.04%	0.1	0.1	0%	0%
53	0	160	0.0000	0.10%	0.04%	0.2	0.1	0%	0%
54	0	139	0.0000	0.10%	0.04%	0.1	0.1	0%	0%
55	0	141	0.0000	0.10%	0.04%	0.1	0.1	0%	0%
56	0	128	0.0000	0.10%	0.04%	0.1	0.1	0%	0%
57	0	113	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
58	0	111	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
59	0	91	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
60	0	84	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
61	0	74	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
62	0	61	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
63	0	47	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
64	0	33	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
65	0	25	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
66	0	19	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
67	0	13	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
68	0	12	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
69	0	6	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	0	5,216				3.9	2.1	0%	0%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.02%	0.02%	0	0	0%	0%
21	0	0	N/A	0.02%	0.02%	0	0	0%	0%
22	0	0	N/A	0.02%	0.02%	0	0	0%	0%
23	0	3	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
24	0	6	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25	0	5	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
26	0	5	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
27	0	9	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
28	0	13	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
29	0	17	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
30	0	27	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
31	0	28	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
32	0	29	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
33	0	31	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
34	0	38	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
35	0	45	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
36	0	45	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
37	1	49	0.0204	0.02%	0.02%	0.0	0.0	10204%	10204%
38	0	46	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
39	0	40	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
40	0	53	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
41	0	59	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
42	0	64	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
43	0	70	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
44	0	67	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
45	0	61	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
46	0	54	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
47	0	62	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
48	0	53	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
49	0	51	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
50	0	54	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
51	0	38	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
52	0	37	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
53	0	33	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
54	0	24	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
55	0	27	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
56	0	26	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
57	0	25	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
58	0	31	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
59	0	31	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
60	0	27	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
61	0	27	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
62	0	18	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
63	0	8	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
64	0	10	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
65	0	7	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
66	0	6	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
67	0	3	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
68	0	0	N/A	0.02%	0.02%	0	0	0%	0%
69	0	0	N/A	0.02%	0.02%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	1	1,462				0.3	0.3	342%	342%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
21	0	8	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
22	0	14	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
23	0	25	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
24	0	31	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
25	0	36	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
26	0	45	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
27	0	63	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
28	0	78	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
29	0	95	0.0000	0.03%	0.04%	0.0	0.0	0%	0%
30	0	111	0.0000	0.03%	0.04%	0.0	0.0	0%	0%
31	0	127	0.0000	0.03%	0.04%	0.0	0.0	0%	0%
32	0	140	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
33	0	153	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
34	0	183	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
35	0	198	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
36	0	209	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
37	1	218	0.0046	0.05%	0.04%	0.1	0.1	899%	1292%
38	0	208	0.0000	0.05%	0.04%	0.1	0.1	0%	0%
39	0	208	0.0000	0.06%	0.04%	0.1	0.1	0%	0%
40	0	220	0.0000	0.06%	0.04%	0.1	0.1	0%	0%
41	0	215	0.0000	0.06%	0.03%	0.1	0.1	0%	0%
42	0	206	0.0000	0.06%	0.03%	0.1	0.1	0%	0%
43	0	217	0.0000	0.06%	0.03%	0.1	0.1	0%	0%
44	0	234	0.0000	0.06%	0.03%	0.1	0.1	0%	0%
45	0	242	0.0000	0.06%	0.03%	0.2	0.1	0%	0%
46	0	239	0.0000	0.07%	0.04%	0.2	0.1	0%	0%
47	0	241	0.0000	0.07%	0.03%	0.2	0.1	0%	0%
48	0	238	0.0000	0.07%	0.04%	0.2	0.1	0%	0%
49	0	236	0.0000	0.07%	0.04%	0.2	0.1	0%	0%
50	0	249	0.0000	0.07%	0.04%	0.2	0.1	0%	0%
51	0	228	0.0000	0.08%	0.04%	0.2	0.1	0%	0%
52	0	202	0.0000	0.08%	0.04%	0.2	0.1	0%	0%
53	0	193	0.0000	0.09%	0.04%	0.2	0.1	0%	0%
54	0	163	0.0000	0.09%	0.04%	0.1	0.1	0%	0%
55	0	168	0.0000	0.09%	0.04%	0.1	0.1	0%	0%
56	0	154	0.0000	0.09%	0.04%	0.1	0.1	0%	0%
57	0	138	0.0000	0.09%	0.04%	0.1	0.1	0%	0%
58	0	142	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
59	0	122	0.0000	0.08%	0.03%	0.1	0.0	0%	0%
60	0	111	0.0000	0.08%	0.04%	0.1	0.0	0%	0%
61	0	101	0.0000	0.08%	0.03%	0.1	0.0	0%	0%
62	0	79	0.0000	0.08%	0.04%	0.1	0.0	0%	0%
63	0	55	0.0000	0.09%	0.04%	0.0	0.0	0%	0%
64	0	43	0.0000	0.08%	0.04%	0.0	0.0	0%	0%
65	0	32	0.0000	0.08%	0.04%	0.0	0.0	0%	0%
66	0	25	0.0000	0.08%	0.04%	0.0	0.0	0%	0%
67	0	16	0.0000	0.09%	0.04%	0.0	0.0	0%	0%
68	0	12	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
69	0	6	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	1	6,678				4.2	2.4	24%	42%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	70	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
25-29	0	268	0.0000	0.02%	0.04%	0.1	0.1	0%	0%
30-34	0	561	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
35-39	0	816	0.0000	0.06%	0.04%	0.5	0.3	0%	0%
40-44	0	779	0.0000	0.08%	0.04%	0.6	0.3	0%	0%
45-49	0	915	0.0000	0.09%	0.04%	0.8	0.4	0%	0%
50-54	0	849	0.0000	0.09%	0.04%	0.8	0.3	0%	0%
55-59	0	584	0.0000	0.10%	0.04%	0.6	0.2	0%	0%
60-64	0	299	0.0000	0.10%	0.04%	0.3	0.1	0%	0%
65-69	0	75	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>0</b>	<b>5,216</b>				<b>3.9</b>	<b>2.1</b>	<b>0%</b>	<b>0%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	9	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25-29	0	49	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
30-34	0	153	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
35-39	1	225	0.0044	0.02%	0.02%	0.0	0.0	2222%	2222%
40-44	0	313	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
45-49	0	281	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
50-54	0	186	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
55-59	0	140	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
60-64	0	90	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
65-69	0	16	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>1,462</b>				<b>0.3</b>	<b>0.3</b>	<b>342%</b>	<b>342%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	79	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
25-29	0	317	0.0000	0.02%	0.04%	0.1	0.1	0%	0%
30-34	0	714	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
35-39	1	1,041	0.0010	0.05%	0.04%	0.5	0.4	192%	269%
40-44	0	1,092	0.0000	0.06%	0.03%	0.7	0.4	0%	0%
45-49	0	1,196	0.0000	0.07%	0.04%	0.8	0.4	0%	0%
50-54	0	1,035	0.0000	0.08%	0.04%	0.8	0.4	0%	0%
55-59	0	724	0.0000	0.08%	0.04%	0.6	0.3	0%	0%
60-64	0	389	0.0000	0.08%	0.04%	0.3	0.1	0%	0%
65-69	0	91	0.0000	0.09%	0.04%	0.1	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>6,678</b>				<b>4.2</b>	<b>2.4</b>	<b>24%</b>	<b>42%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 11A**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	2	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
21	0	12	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
22	0	22	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
23	0	42	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
24	0	56	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
25	0	74	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
26	0	95	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
27	0	119	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
28	0	133	0.0000	0.02%	0.04%	0.0	0.1	0%	0%
29	0	157	0.0000	0.03%	0.04%	0.0	0.1	0%	0%
30	0	188	0.0000	0.03%	0.04%	0.1	0.1	0%	0%
31	0	218	0.0000	0.03%	0.04%	0.1	0.1	0%	0%
32	0	248	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
33	0	260	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
34	1	279	0.0036	0.05%	0.04%	0.1	0.1	717%	896%
35	0	295	0.0000	0.05%	0.04%	0.1	0.1	0%	0%
36	0	299	0.0000	0.05%	0.04%	0.1	0.1	0%	0%
37	0	297	0.0000	0.06%	0.04%	0.2	0.1	0%	0%
38	0	288	0.0000	0.06%	0.04%	0.2	0.1	0%	0%
39	0	297	0.0000	0.07%	0.04%	0.2	0.1	0%	0%
40	0	317	0.0000	0.07%	0.04%	0.2	0.1	0%	0%
41	0	323	0.0000	0.07%	0.04%	0.2	0.1	0%	0%
42	0	315	0.0000	0.08%	0.04%	0.3	0.1	0%	0%
43	0	311	0.0000	0.08%	0.04%	0.2	0.1	0%	0%
44	0	343	0.0000	0.08%	0.04%	0.3	0.1	0%	0%
45	0	353	0.0000	0.08%	0.04%	0.3	0.1	0%	0%
46	0	371	0.0000	0.08%	0.04%	0.3	0.1	0%	0%
47	0	375	0.0000	0.09%	0.04%	0.3	0.2	0%	0%
48	1	374	0.0027	0.09%	0.04%	0.3	0.1	297%	668%
49	0	376	0.0000	0.09%	0.04%	0.3	0.2	0%	0%
50	1	373	0.0027	0.09%	0.04%	0.3	0.1	298%	670%
51	0	357	0.0000	0.09%	0.04%	0.3	0.1	0%	0%
52	0	341	0.0000	0.09%	0.04%	0.3	0.1	0%	0%
53	0	314	0.0000	0.10%	0.04%	0.3	0.1	0%	0%
54	0	293	0.0000	0.10%	0.04%	0.3	0.1	0%	0%
55	0	281	0.0000	0.10%	0.04%	0.3	0.1	0%	0%
56	0	258	0.0000	0.10%	0.04%	0.3	0.1	0%	0%
57	0	226	0.0000	0.10%	0.04%	0.2	0.1	0%	0%
58	0	195	0.0000	0.10%	0.04%	0.2	0.1	0%	0%
59	0	157	0.0000	0.10%	0.04%	0.2	0.1	0%	0%
60	0	136	0.0000	0.10%	0.04%	0.1	0.1	0%	0%
61	0	122	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
62	0	98	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
63	0	74	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
64	0	55	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
65	0	40	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
66	0	29	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
67	0	22	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
68	0	18	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
69	0	12	0.0000	0.10%	0.04%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	3	10,240				7.6	4.1	40%	73%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> <b>(1)</b>	<u>Actual Disabilities</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> <b>(5)</b>	<u>Proposed</u> <b>(6)</b>	<u>Expected (3) x (5)</u> <b>(7)</b>	<u>Proposed (3) x (6)</u> <b>(8)</b>	<u>Expected (2) / (7)</u> <b>(9)</b>	<u>Proposed (2) / (8)</u> <b>(10)</b>
20	0	0	N/A	0.02%	0.02%	0	0	0%	0%
21	0	1	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
22	0	1	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
23	0	5	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
24	0	9	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25	0	17	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
26	0	24	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
27	0	35	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
28	0	44	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
29	0	51	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
30	0	61	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
31	0	65	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
32	0	69	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
33	0	76	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
34	0	81	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
35	0	86	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
36	0	97	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
37	1	103	0.0097	0.02%	0.02%	0.0	0.0	4854%	4854%
38	0	111	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
39	0	112	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
40	0	127	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
41	0	120	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
42	0	117	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
43	0	131	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
44	0	122	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
45	0	113	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
46	0	111	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
47	0	106	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
48	0	96	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
49	0	94	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
50	0	82	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
51	0	65	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
52	0	66	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
53	0	64	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
54	0	63	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
55	0	64	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
56	0	58	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
57	0	56	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
58	0	54	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
59	0	45	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
60	0	39	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
61	0	37	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
62	0	26	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
63	0	18	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
64	0	13	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
65	0	9	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
66	0	8	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
67	0	5	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
68	0	2	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
69	0	2	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>2,961</b>				<b>0.6</b>	<b>0.6</b>	<b>169%</b>	<b>169%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	2	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
21	0	13	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
22	0	23	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
23	0	47	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
24	0	65	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
25	0	91	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
26	0	119	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
27	0	154	0.0000	0.02%	0.04%	0.0	0.1	0%	0%
28	0	177	0.0000	0.02%	0.04%	0.0	0.1	0%	0%
29	0	208	0.0000	0.03%	0.04%	0.1	0.1	0%	0%
30	0	249	0.0000	0.03%	0.04%	0.1	0.1	0%	0%
31	0	283	0.0000	0.03%	0.04%	0.1	0.1	0%	0%
32	0	317	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
33	0	336	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
34	1	360	0.0028	0.04%	0.04%	0.2	0.1	642%	782%
35	0	381	0.0000	0.04%	0.04%	0.2	0.1	0%	0%
36	0	396	0.0000	0.04%	0.04%	0.2	0.1	0%	0%
37	1	400	0.0025	0.05%	0.03%	0.2	0.1	503%	717%
38	0	399	0.0000	0.05%	0.03%	0.2	0.1	0%	0%
39	0	409	0.0000	0.06%	0.03%	0.2	0.1	0%	0%
40	0	444	0.0000	0.06%	0.03%	0.2	0.2	0%	0%
41	0	443	0.0000	0.06%	0.03%	0.3	0.2	0%	0%
42	0	432	0.0000	0.06%	0.03%	0.3	0.1	0%	0%
43	0	442	0.0000	0.06%	0.03%	0.3	0.2	0%	0%
44	0	465	0.0000	0.06%	0.03%	0.3	0.2	0%	0%
45	0	466	0.0000	0.07%	0.04%	0.3	0.2	0%	0%
46	0	482	0.0000	0.07%	0.04%	0.3	0.2	0%	0%
47	0	481	0.0000	0.07%	0.04%	0.4	0.2	0%	0%
48	1	470	0.0021	0.08%	0.04%	0.4	0.2	281%	592%
49	0	470	0.0000	0.08%	0.04%	0.4	0.2	0%	0%
50	1	455	0.0022	0.08%	0.04%	0.4	0.2	284%	604%
51	0	422	0.0000	0.08%	0.04%	0.3	0.2	0%	0%
52	0	407	0.0000	0.08%	0.04%	0.3	0.1	0%	0%
53	0	378	0.0000	0.09%	0.04%	0.3	0.1	0%	0%
54	0	356	0.0000	0.09%	0.04%	0.3	0.1	0%	0%
55	0	345	0.0000	0.09%	0.04%	0.3	0.1	0%	0%
56	0	316	0.0000	0.09%	0.04%	0.3	0.1	0%	0%
57	0	282	0.0000	0.08%	0.04%	0.2	0.1	0%	0%
58	0	249	0.0000	0.08%	0.04%	0.2	0.1	0%	0%
59	0	202	0.0000	0.08%	0.04%	0.2	0.1	0%	0%
60	0	175	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
61	0	159	0.0000	0.08%	0.04%	0.1	0.1	0%	0%
62	0	124	0.0000	0.08%	0.04%	0.1	0.0	0%	0%
63	0	92	0.0000	0.08%	0.04%	0.1	0.0	0%	0%
64	0	68	0.0000	0.08%	0.04%	0.1	0.0	0%	0%
65	0	49	0.0000	0.09%	0.04%	0.0	0.0	0%	0%
66	0	37	0.0000	0.08%	0.04%	0.0	0.0	0%	0%
67	0	27	0.0000	0.09%	0.04%	0.0	0.0	0%	0%
68	0	20	0.0000	0.09%	0.04%	0.0	0.0	0%	0%
69	0	14	0.0000	0.09%	0.04%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>4</b>	<b>13,201</b>				<b>8.2</b>	<b>4.7</b>	<b>49%</b>	<b>85%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 11A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	134	0.0000	0.02%	0.04%	0.0	0.1	0%	0%
25-29	0	578	0.0000	0.02%	0.04%	0.1	0.2	0%	0%
30-34	1	1,193	0.0008	0.04%	0.04%	0.5	0.5	215%	210%
35-39	0	1,476	0.0000	0.06%	0.04%	0.9	0.6	0%	0%
40-44	0	1,609	0.0000	0.08%	0.04%	1.2	0.6	0%	0%
45-49	1	1,849	0.0005	0.09%	0.04%	1.6	0.7	63%	135%
50-54	1	1,678	0.0006	0.09%	0.04%	1.6	0.7	64%	149%
55-59	0	1,117	0.0000	0.10%	0.04%	1.1	0.4	0%	0%
60-64	0	485	0.0000	0.10%	0.04%	0.5	0.2	0%	0%
65-69	0	121	0.0000	0.10%	0.04%	0.1	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>3</b>	<b>10,240</b>				<b>7.6</b>	<b>4.1</b>	<b>40%</b>	<b>73%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 11B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	16	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25-29	0	171	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
30-34	0	352	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
35-39	1	509	0.0020	0.02%	0.02%	0.1	0.1	982%	982%
40-44	0	617	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
45-49	0	520	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
50-54	0	340	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
55-59	0	277	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
60-64	0	133	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
65-69	0	26	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>2,961</b>				<b>0.6</b>	<b>0.6</b>	<b>169%</b>	<b>169%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11C GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	150	0.0000	0.02%	0.04%	0.0	0.1	0%	0%
25-29	0	749	0.0000	0.02%	0.04%	0.2	0.3	0%	0%
30-34	1	1,545	0.0006	0.03%	0.04%	0.5	0.5	187%	183%
35-39	1	1,985	0.0005	0.05%	0.03%	1.0	0.7	104%	144%
40-44	0	2,226	0.0000	0.06%	0.03%	1.3	0.8	0%	0%
45-49	1	2,369	0.0004	0.07%	0.04%	1.7	0.8	59%	119%
50-54	1	2,018	0.0005	0.08%	0.04%	1.6	0.7	61%	135%
55-59	0	1,394	0.0000	0.08%	0.04%	1.2	0.5	0%	0%
60-64	0	618	0.0000	0.08%	0.04%	0.5	0.2	0%	0%
65-69	0	147	0.0000	0.09%	0.04%	0.1	0.1	0%	0%
70-74	0	0	N/A			0	0	0%	0%
Other	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>4</b>	<b>13,201</b>				<b>8.2</b>	<b>4.7</b>	<b>49%</b>	<b>85%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 11D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	1,543	1	0.1	1445%	0.06%	0.00%
2005	1,633	0	0.1	0%	0.00%	0.00%
2006	1,675	0	0.1	0%	0.00%	0.00%
2007	1,672	2	0.1	2675%	0.12%	0.00%
2008	1,664	1	0.1	1338%	0.06%	0.00%
2009	1,692	0	0.1	0%	0.00%	0.00%
2010	1,676	0	0.1	0%	0.00%	0.00%
2011	1,646	0	0.1	0%	0.00%	0.00%
2012	1,575	0	0.1	0%	0.00%	0.00%
2013	1,519	0	0.1	0%	0.00%	0.00%
Total	16,295	4	0.7	549%	0.02%	0.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 12A

4-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	67	\$ 3,563,841	\$ 3,834,690	\$ 3,955,864	69%	7.60%	11.00%
1	146	7,912,217	8,542,345	8,703,439	80%	7.96%	10.00%
2	189	11,207,004	11,958,891	12,215,634	75%	6.71%	9.00%
3	234	14,336,829	15,588,879	15,627,144	97%	8.73%	9.00%
4	269	17,700,329	18,981,790	19,116,355	90%	7.24%	8.00%
5	372	25,726,423	27,124,466	27,527,273	78%	5.43%	7.00%
6	404	29,265,727	30,618,238	31,021,671	77%	4.62%	6.00%
7	481	36,029,001	37,116,497	37,830,451	60%	3.02%	5.00%
8	498	37,784,366	38,823,912	39,295,741	69%	2.75%	4.00%
9	503	39,233,285	39,984,686	40,724,150	50%	1.92%	3.80%
10	398	31,202,478	32,282,841	32,325,767	96%	3.46%	3.60%
11	311	25,139,117	25,554,413	26,018,986	47%	1.65%	3.50%
12	238	19,554,546	19,785,606	20,238,955	34%	1.18%	3.50%
13	119	9,551,440	9,754,549	9,885,740	61%	2.13%	3.50%
14	109	8,838,939	9,020,788	9,148,302	59%	2.06%	3.50%
15	108	8,940,125	9,071,283	9,253,029	42%	1.47%	3.50%
16	94	7,820,271	7,986,177	8,093,980	61%	2.12%	3.50%
17	111	9,509,045	9,640,604	9,841,862	40%	1.38%	3.50%
18	118	10,090,152	10,124,127	10,443,307	10%	0.34%	3.50%
19	159	13,718,465	13,808,806	14,198,611	19%	0.66%	3.50%
20	161	14,105,332	14,168,756	14,599,019	13%	0.45%	3.50%
21	156	13,834,236	13,886,608	14,318,434	11%	0.38%	3.50%
22	143	12,711,975	12,803,555	13,156,894	21%	0.72%	3.50%
23	93	8,406,689	8,426,888	8,700,923	7%	0.24%	3.50%
24	78	7,057,757	7,038,102	7,304,778	-8%	-0.28%	3.50%
25	86	7,683,032	7,629,907	7,951,938	-20%	-0.69%	3.50%
26	62	5,501,181	5,521,183	5,693,722	10%	0.36%	3.50%
27	78	7,049,543	7,079,551	7,296,277	12%	0.43%	3.50%
28	60	5,568,734	5,635,907	5,763,640	34%	1.21%	3.50%
29	56	5,240,263	5,229,545	5,423,672	-6%	-0.20%	3.50%
30+	46	4,277,979	4,279,386	4,427,708	1%	0.03%	3.50%
Total	5,947	458,560,321	471,302,976	480,103,267	59%	2.78%	4.70%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Proposed Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	67	\$ 3,563,841	\$ 3,834,690	\$ 3,964,773	68%	7.60%	11.25%
1	146	7,912,217	8,542,345	8,564,975	97%	7.96%	8.25%
2	189	11,207,004	11,958,891	12,075,547	87%	6.71%	7.75%
3	234	14,336,829	15,588,879	15,447,933	113%	8.73%	7.75%
4	269	17,700,329	18,981,790	19,072,104	93%	7.24%	7.75%
5	372	25,726,423	27,124,466	27,462,957	81%	5.43%	6.75%
6	404	29,265,727	30,618,238	30,655,849	97%	4.62%	4.75%
7	481	36,029,001	37,116,497	37,740,379	64%	3.02%	4.75%
8	498	37,784,366	38,823,912	39,390,202	65%	2.75%	4.25%
9	503	39,233,285	39,984,686	40,822,233	47%	1.92%	4.05%
10	398	31,202,478	32,282,841	32,403,773	90%	3.46%	3.85%
11	311	25,139,117	25,554,413	26,081,834	44%	1.65%	3.75%
12	238	19,554,546	19,785,606	20,287,841	32%	1.18%	3.75%
13	119	9,551,440	9,754,549	9,909,619	57%	2.13%	3.75%
14	109	8,838,939	9,020,788	9,170,399	55%	2.06%	3.75%
15	108	8,940,125	9,071,283	9,275,380	39%	1.47%	3.75%
16	94	7,820,271	7,986,177	8,113,531	57%	2.12%	3.75%
17	111	9,509,045	9,640,604	9,865,634	37%	1.38%	3.75%
18	118	10,090,152	10,124,127	10,468,533	9%	0.34%	3.75%
19	159	13,718,465	13,808,806	14,232,907	18%	0.66%	3.75%
20	161	14,105,332	14,168,756	14,634,282	12%	0.45%	3.75%
21	156	13,834,236	13,886,608	14,353,020	10%	0.38%	3.75%
22	143	12,711,975	12,803,555	13,188,674	19%	0.72%	3.75%
23	93	8,406,689	8,426,888	8,721,940	6%	0.24%	3.75%
24	78	7,057,757	7,038,102	7,322,423	-7%	-0.28%	3.75%
25	86	7,683,032	7,629,907	7,971,146	-18%	-0.69%	3.75%
26	62	5,501,181	5,521,183	5,707,475	10%	0.36%	3.75%
27	78	7,049,543	7,079,551	7,313,901	11%	0.43%	3.75%
28	60	5,568,734	5,635,907	5,777,562	32%	1.21%	3.75%
29	56	5,240,263	5,229,545	5,436,773	-5%	-0.20%	3.75%
30+	46	4,277,979	4,279,386	4,438,403	1%	0.03%	3.75%
Total	5,947	458,560,321	471,302,976	479,872,001	60%	2.78%	4.65%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	67	\$ 3,563,841	\$ 3,783,078	\$ 3,831,129	82%	6.15%	7.50%
1	146	7,912,217	8,175,594	8,426,511	51%	3.33%	6.50%
2	189	11,207,004	11,617,100	11,823,389	67%	3.66%	5.50%
3	234	14,336,829	14,885,064	15,125,355	70%	3.82%	5.50%
4	269	17,700,329	18,372,313	18,496,844	84%	3.80%	4.50%
5	372	25,726,423	26,316,428	26,626,848	66%	2.29%	3.50%
6	404	29,265,727	29,518,702	29,997,370	35%	0.86%	2.50%
7	481	36,029,001	36,244,109	36,569,436	40%	0.60%	1.50%
8	498	37,784,366	37,872,243	37,973,288	47%	0.23%	0.50%
9	503	39,233,285	39,242,026	39,350,985	7%	0.02%	0.30%
10	398	31,202,478	31,242,125	31,233,680	127%	0.13%	0.10%
11	311	25,139,117	25,139,117	25,139,117		0.00%	0.00%
12	238	19,554,546	19,554,546	19,554,546		0.00%	0.00%
13	119	9,551,440	9,551,440	9,551,440		0.00%	0.00%
14	109	8,838,939	8,838,939	8,838,939		0.00%	0.00%
15	108	8,940,125	8,940,125	8,940,125		0.00%	0.00%
16	94	7,820,271	7,820,271	7,820,271		0.00%	0.00%
17	111	9,509,045	9,509,045	9,509,045		0.00%	0.00%
18	118	10,090,152	10,090,152	10,090,152		0.00%	0.00%
19	159	13,718,465	13,718,465	13,718,465		0.00%	0.00%
20	161	14,105,332	14,105,332	14,105,332		0.00%	0.00%
21	156	13,834,236	13,834,236	13,834,236		0.00%	0.00%
22	143	12,711,975	12,711,975	12,711,975		0.00%	0.00%
23	93	8,406,689	8,406,689	8,406,689		0.00%	0.00%
24	78	7,057,757	7,057,757	7,057,757		0.00%	0.00%
25	86	7,683,032	7,683,032	7,683,032		0.00%	0.00%
26	62	5,501,181	5,501,181	5,501,181		0.00%	0.00%
27	78	7,049,543	7,049,543	7,049,543		0.00%	0.00%
28	60	5,568,734	5,568,734	5,568,734		0.00%	0.00%
29	56	5,240,263	5,240,263	5,240,263		0.00%	0.00%
30+	46	4,277,979	4,277,979	4,277,979		0.00%	0.00%
Total	5,947	458,560,321	461,867,603	464,053,656	60%	0.72%	1.20%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 1.71%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	67	\$ 3,563,841	\$ 3,783,078	\$ 3,831,129	82%	6.15%	7.50%
1	146	7,912,217	8,175,594	8,268,267	74%	3.33%	4.50%
2	189	11,207,004	11,617,100	11,655,284	91%	3.66%	4.00%
3	234	14,336,829	14,885,064	14,910,302	96%	3.82%	4.00%
4	269	17,700,329	18,372,313	18,408,342	95%	3.80%	4.00%
5	372	25,726,423	26,316,428	26,498,216	76%	2.29%	3.00%
6	404	29,265,727	29,518,702	29,558,384	86%	0.86%	1.00%
7	481	36,029,001	36,244,109	36,389,291	60%	0.60%	1.00%
8	498	37,784,366	37,872,243	37,973,288	47%	0.23%	0.50%
9	503	39,233,285	39,242,026	39,350,985	7%	0.02%	0.30%
10	398	31,202,478	31,242,125	31,233,680	127%	0.13%	0.10%
11	311	25,139,117	25,139,117	25,139,117		0.00%	0.00%
12	238	19,554,546	19,554,546	19,554,546		0.00%	0.00%
13	119	9,551,440	9,551,440	9,551,440		0.00%	0.00%
14	109	8,838,939	8,838,939	8,838,939		0.00%	0.00%
15	108	8,940,125	8,940,125	8,940,125		0.00%	0.00%
16	94	7,820,271	7,820,271	7,820,271		0.00%	0.00%
17	111	9,509,045	9,509,045	9,509,045		0.00%	0.00%
18	118	10,090,152	10,090,152	10,090,152		0.00%	0.00%
19	159	13,718,465	13,718,465	13,718,465		0.00%	0.00%
20	161	14,105,332	14,105,332	14,105,332		0.00%	0.00%
21	156	13,834,236	13,834,236	13,834,236		0.00%	0.00%
22	143	12,711,975	12,711,975	12,711,975		0.00%	0.00%
23	93	8,406,689	8,406,689	8,406,689		0.00%	0.00%
24	78	7,057,757	7,057,757	7,057,757		0.00%	0.00%
25	86	7,683,032	7,683,032	7,683,032		0.00%	0.00%
26	62	5,501,181	5,501,181	5,501,181		0.00%	0.00%
27	78	7,049,543	7,049,543	7,049,543		0.00%	0.00%
28	60	5,568,734	5,568,734	5,568,734		0.00%	0.00%
29	56	5,240,263	5,240,263	5,240,263		0.00%	0.00%
30+	46	4,277,979	4,277,979	4,277,979		0.00%	0.00%
<b>Total</b>	<b>5,947</b>	<b>458,560,321</b>	<b>461,867,603</b>	<b>462,675,989</b>	<b>80%</b>	<b>0.72%</b>	<b>0.90%</b>

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	390	\$ 17,907,362	\$ 19,870,335	\$ 19,877,172	100%	10.96%	11.00%
1	862	42,876,994	46,131,100	47,164,693	76%	7.59%	10.00%
2	935	50,177,120	53,886,273	54,693,061	82%	7.39%	9.00%
3	1,075	61,376,774	66,047,348	66,900,684	85%	7.61%	9.00%
4	1,033	63,493,767	68,345,854	68,573,268	96%	7.64%	8.00%
5	1,017	66,434,239	70,744,503	71,084,636	93%	6.49%	7.00%
6	949	65,178,821	68,645,975	69,089,550	89%	5.32%	6.00%
7	887	63,899,440	66,405,186	67,094,412	78%	3.92%	5.00%
8	815	60,449,384	62,546,752	62,867,359	87%	3.47%	4.00%
9	715	53,821,344	55,198,409	55,866,555	67%	2.56%	3.80%
10	585	44,398,803	46,060,107	45,997,160	104%	3.74%	3.60%
11	510	39,505,433	40,641,789	40,888,123	82%	2.88%	3.50%
12	439	34,304,560	35,180,240	35,505,220	73%	2.55%	3.50%
13	392	29,349,981	30,012,873	30,377,230	65%	2.26%	3.50%
14	393	29,179,496	30,704,075	30,200,778	149%	5.22%	3.50%
15	389	29,713,476	30,690,827	30,753,448	94%	3.29%	3.50%
16	380	29,703,726	30,930,788	30,743,356	118%	4.13%	3.50%
17	386	30,839,446	31,520,906	31,918,827	63%	2.21%	3.50%
18	397	31,365,570	32,810,211	32,463,365	132%	4.61%	3.50%
19	397	32,096,071	33,136,197	33,219,433	93%	3.24%	3.50%
20	355	29,277,261	29,996,889	30,301,965	70%	2.46%	3.50%
21	363	29,917,538	30,666,184	30,964,652	71%	2.50%	3.50%
22	329	27,487,080	28,413,589	28,449,128	96%	3.37%	3.50%
23	267	22,529,589	22,984,350	23,318,125	58%	2.02%	3.50%
24	222	18,578,286	19,198,943	19,228,526	95%	3.34%	3.50%
25	193	16,500,563	16,372,331	17,078,083	-22%	-0.78%	3.50%
26	161	13,666,002	14,063,534	14,144,312	83%	2.91%	3.50%
27	138	11,865,648	12,002,467	12,280,946	33%	1.15%	3.50%
28	108	9,315,039	9,599,468	9,641,065	87%	3.05%	3.50%
29	81	7,246,143	7,373,844	7,499,758	50%	1.76%	3.50%
30+	69	6,526,792	6,501,448	6,755,230	-11%	-0.39%	3.50%
Total	15,232	1,068,981,748	1,116,682,795	1,124,940,120	85%	4.46%	5.23%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 12A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Actual Salary EOY</u>	<u>Proposed Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	390	\$ 17,907,362	\$ 19,870,335	\$ 19,921,940	97%	10.96%	11.25%
1	862	42,876,994	46,131,100	46,414,346	92%	7.59%	8.25%
2	935	50,177,120	53,886,273	54,065,847	95%	7.39%	7.75%
3	1,075	61,376,774	66,047,348	66,133,474	98%	7.61%	7.75%
4	1,033	63,493,767	68,345,854	68,414,534	99%	7.64%	7.75%
5	1,017	66,434,239	70,744,503	70,918,550	96%	6.49%	6.75%
6	949	65,178,821	68,645,975	68,274,815	112%	5.32%	4.75%
7	887	63,899,440	66,405,186	66,934,663	83%	3.92%	4.75%
8	815	60,449,384	62,546,752	63,018,483	82%	3.47%	4.25%
9	715	53,821,344	55,198,409	56,001,108	63%	2.56%	4.05%
10	585	44,398,803	46,060,107	46,108,157	97%	3.74%	3.85%
11	510	39,505,433	40,641,789	40,986,887	77%	2.88%	3.75%
12	439	34,304,560	35,180,240	35,590,981	68%	2.55%	3.75%
13	392	29,349,981	30,012,873	30,450,605	60%	2.26%	3.75%
14	393	29,179,496	30,704,075	30,273,727	139%	5.22%	3.75%
15	389	29,713,476	30,690,827	30,827,731	88%	3.29%	3.75%
16	380	29,703,726	30,930,788	30,817,616	110%	4.13%	3.75%
17	386	30,839,446	31,520,906	31,995,925	59%	2.21%	3.75%
18	397	31,365,570	32,810,211	32,541,779	123%	4.61%	3.75%
19	397	32,096,071	33,136,197	33,299,674	86%	3.24%	3.75%
20	355	29,277,261	29,996,889	30,375,158	66%	2.46%	3.75%
21	363	29,917,538	30,666,184	31,039,446	67%	2.50%	3.75%
22	329	27,487,080	28,413,589	28,517,846	90%	3.37%	3.75%
23	267	22,529,589	22,984,350	23,374,449	54%	2.02%	3.75%
24	222	18,578,286	19,198,943	19,274,972	89%	3.34%	3.75%
25	193	16,500,563	16,372,331	17,119,334	-21%	-0.78%	3.75%
26	161	13,666,002	14,063,534	14,178,477	78%	2.91%	3.75%
27	138	11,865,648	12,002,467	12,310,610	31%	1.15%	3.75%
28	108	9,315,039	9,599,468	9,664,353	81%	3.05%	3.75%
29	81	7,246,143	7,373,844	7,517,873	47%	1.76%	3.75%
30+	69	6,526,792	6,501,448	6,771,547	-10%	-0.39%	3.75%
Total	15,232	1,068,981,748	1,116,682,795	1,123,134,906	88%	4.46%	5.07%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Estimated Actual Merit Salary EOY</u>	<u>Expected Merit Salary EOY</u>	<u>Actual / Expected</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Expected %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	390	\$ 17,907,362	\$ 19,008,970	\$ 19,250,414	82%	6.15%	7.50%
1	862	42,876,994	44,304,256	45,663,999	51%	3.33%	6.50%
2	935	50,177,120	52,013,243	52,936,862	67%	3.66%	5.50%
3	1,075	61,376,774	63,723,798	64,752,497	70%	3.82%	5.50%
4	1,033	63,493,767	65,904,275	66,350,987	84%	3.80%	4.50%
5	1,017	66,434,239	67,957,830	68,759,437	66%	2.29%	3.50%
6	949	65,178,821	65,742,232	66,808,292	35%	0.86%	2.50%
7	887	63,899,440	64,280,946	64,857,932	40%	0.60%	1.50%
8	815	60,449,384	60,589,974	60,751,631	47%	0.23%	0.50%
9	715	53,821,344	53,833,335	53,982,808	7%	0.02%	0.30%
10	585	44,398,803	44,455,218	44,443,202	127%	0.13%	0.10%
11	510	39,505,433	39,505,433	39,505,433		0.00%	0.00%
12	439	34,304,560	34,304,560	34,304,560		0.00%	0.00%
13	392	29,349,981	29,349,981	29,349,981		0.00%	0.00%
14	393	29,179,496	29,179,496	29,179,496		0.00%	0.00%
15	389	29,713,476	29,713,476	29,713,476		0.00%	0.00%
16	380	29,703,726	29,703,726	29,703,726		0.00%	0.00%
17	386	30,839,446	30,839,446	30,839,446		0.00%	0.00%
18	397	31,365,570	31,365,570	31,365,570		0.00%	0.00%
19	397	32,096,071	32,096,071	32,096,071		0.00%	0.00%
20	355	29,277,261	29,277,261	29,277,261		0.00%	0.00%
21	363	29,917,538	29,917,538	29,917,538		0.00%	0.00%
22	329	27,487,080	27,487,080	27,487,080		0.00%	0.00%
23	267	22,529,589	22,529,589	22,529,589		0.00%	0.00%
24	222	18,578,286	18,578,286	18,578,286		0.00%	0.00%
25	193	16,500,563	16,500,563	16,500,563		0.00%	0.00%
26	161	13,666,002	13,666,002	13,666,002		0.00%	0.00%
27	138	11,865,648	11,865,648	11,865,648		0.00%	0.00%
28	108	9,315,039	9,315,039	9,315,039		0.00%	0.00%
29	81	7,246,143	7,246,143	7,246,143		0.00%	0.00%
30+	69	6,526,792	6,526,792	6,526,792		0.00%	0.00%
Total	15,232	1,068,981,748	1,080,781,777	1,087,525,759	64%	1.10%	1.73%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%. Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 12B**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Estimated Actual Merit Salary EOY</u>	<u>Proposed Merit Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	390	\$ 17,907,362	\$ 19,008,970	\$ 19,250,414	82%	6.15%	7.50%
1	862	42,876,994	44,304,256	44,806,459	74%	3.33%	4.50%
2	935	50,177,120	52,013,243	52,184,205	91%	3.66%	4.00%
3	1,075	61,376,774	63,723,798	63,831,845	96%	3.82%	4.00%
4	1,033	63,493,767	65,904,275	66,033,518	95%	3.80%	4.00%
5	1,017	66,434,239	67,957,830	68,427,266	76%	2.29%	3.00%
6	949	65,178,821	65,742,232	65,830,609	86%	0.86%	1.00%
7	887	63,899,440	64,280,946	64,538,434	60%	0.60%	1.00%
8	815	60,449,384	60,589,974	60,751,631	47%	0.23%	0.50%
9	715	53,821,344	53,833,335	53,982,808	7%	0.02%	0.30%
10	585	44,398,803	44,455,218	44,443,202	127%	0.13%	0.10%
11	510	39,505,433	39,505,433	39,505,433		0.00%	0.00%
12	439	34,304,560	34,304,560	34,304,560		0.00%	0.00%
13	392	29,349,981	29,349,981	29,349,981		0.00%	0.00%
14	393	29,179,496	29,179,496	29,179,496		0.00%	0.00%
15	389	29,713,476	29,713,476	29,713,476		0.00%	0.00%
16	380	29,703,726	29,703,726	29,703,726		0.00%	0.00%
17	386	30,839,446	30,839,446	30,839,446		0.00%	0.00%
18	397	31,365,570	31,365,570	31,365,570		0.00%	0.00%
19	397	32,096,071	32,096,071	32,096,071		0.00%	0.00%
20	355	29,277,261	29,277,261	29,277,261		0.00%	0.00%
21	363	29,917,538	29,917,538	29,917,538		0.00%	0.00%
22	329	27,487,080	27,487,080	27,487,080		0.00%	0.00%
23	267	22,529,589	22,529,589	22,529,589		0.00%	0.00%
24	222	18,578,286	18,578,286	18,578,286		0.00%	0.00%
25	193	16,500,563	16,500,563	16,500,563		0.00%	0.00%
26	161	13,666,002	13,666,002	13,666,002		0.00%	0.00%
27	138	11,865,648	11,865,648	11,865,648		0.00%	0.00%
28	108	9,315,039	9,315,039	9,315,039		0.00%	0.00%
29	81	7,246,143	7,246,143	7,246,143		0.00%	0.00%
30+	69	6,526,792	6,526,792	6,526,792		0.00%	0.00%
Total	15,232	1,068,981,748	1,080,781,777	1,083,048,091	84%	1.10%	1.32%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 12C Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013					
		Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
(1)	(2)	(3)	(4)	(5)	(5)	Actual (4) / (3)	Expected (5) / (3)
						(6)	(7)
2004	1,444	\$ 87,666,010	\$ 92,303,584	\$ 92,703,801	92%	5.29%	5.75%
2005	1,562	96,823,221	103,544,443	102,545,954	117%	6.94%	5.91%
2006	1,555	100,795,468	105,476,956	106,593,808	81%	4.64%	5.75%
2007	1,588	105,207,665	113,162,664	111,120,953	135%	7.56%	5.62%
2008	1,571	110,579,197	113,794,559	116,577,414	54%	2.91%	5.42%
2009	1,632	115,434,656	123,457,818	121,592,680	130%	6.95%	5.33%
2010	1,596	119,177,568	119,685,098	125,195,101	8%	0.43%	5.05%
2011	1,544	115,163,418	124,203,043	120,647,170	165%	7.85%	4.76%
2012	1,487	119,033,503	120,938,118	124,426,287	35%	1.60%	4.53%
2013	1,399	112,396,680	113,736,616	117,297,938	27%	1.19%	4.36%
Total	15,378	1,082,277,386	1,130,302,899	1,138,701,105	85%	4.44%	5.21%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	67	\$ 2,969,868	\$ 47,069	\$ 593,974	8%	1.58%	20.00%
1	142	6,428,820	959,582	1,285,764	75%	14.93%	20.00%
2	183	8,983,113	1,474,525	1,796,623	82%	16.41%	20.00%
3	238	12,218,737	2,174,715	2,443,747	89%	17.80%	20.00%
4	273	14,901,393	2,653,768	2,980,279	89%	17.81%	20.00%
5	357	20,511,629	4,077,630	4,102,326	99%	19.88%	20.00%
6	410	24,801,436	5,364,384	4,960,287	108%	21.63%	20.00%
7	480	29,952,046	6,622,768	5,990,409	111%	22.11%	20.00%
8	499	31,488,351	6,953,441	6,297,670	110%	22.08%	20.00%
9	500	32,397,491	7,676,836	6,479,498	118%	23.70%	20.00%
10	406	26,532,811	6,318,496	5,306,562	119%	23.81%	20.00%
11	313	21,125,150	4,217,642	4,225,030	100%	19.97%	20.00%
12	238	16,339,125	2,688,015	3,267,825	82%	16.45%	20.00%
13	122	8,128,603	1,038,882	1,625,721	64%	12.78%	20.00%
14	108	7,312,424	862,919	1,462,485	59%	11.80%	20.00%
15	107	7,363,359	957,251	1,472,672	65%	13.00%	20.00%
16	97	6,717,260	885,923	1,343,452	66%	13.19%	20.00%
17	105	7,482,746	844,392	1,496,549	56%	11.28%	20.00%
18	121	8,633,467	1,114,722	1,726,693	65%	12.91%	20.00%
19	155	11,155,479	1,959,966	2,231,096	88%	17.57%	20.00%
20	163	11,926,128	1,993,944	2,385,226	84%	16.72%	20.00%
21	160	11,791,244	1,620,754	2,358,249	69%	13.75%	20.00%
22	141	10,466,287	1,566,853	2,093,257	75%	14.97%	20.00%
23	92	6,891,094	1,299,560	1,378,219	94%	18.86%	20.00%
24	82	6,181,598	1,384,144	1,236,320	112%	22.39%	20.00%
25	82	6,125,608	1,299,643	1,225,122	106%	21.22%	20.00%
26	65	4,811,883	756,342	962,377	79%	15.72%	20.00%
27	79	5,923,973	904,576	1,184,795	76%	15.27%	20.00%
28	60	4,640,612	718,576	928,122	77%	15.48%	20.00%
29	54	4,237,710	632,756	847,542	75%	14.93%	20.00%
30	48	3,694,158	650,958	738,832	88%	17.62%	20.00%
31	23	1,604,392	235,931	320,878	74%	14.71%	20.00%
32	22	1,510,646	205,616	302,129	68%	13.61%	20.00%
33	13	962,508	37,542	192,502	20%	3.90%	20.00%
34	4	391,234	18,124	78,247	23%	4.63%	20.00%
35	3	307,294	14,113	61,459	23%	4.59%	20.00%
36	3	225,329	683	45,066	2%	0.30%	20.00%
37	3	225,329	1,320	45,066	3%	0.59%	20.00%
38	3	288,663	34,729	57,733	60%	12.03%	20.00%
39	3	289,120	31,515	57,824	55%	10.90%	20.00%
40	1	103,796	17,947	20,759	86%	17.29%	20.00%
41	1	100,730	14,815	20,146	74%	14.71%	20.00%
42	0	-	-	-	-	-	20.00%
43	0	-	-	-	-	-	20.00%
44	0	-	-	-	-	-	20.00%
45	0	-	-	-	-	-	20.00%
Total	6,026	388,142,641	72,333,367	77,628,528	93%	18.64%	20.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	67	\$ 2,969,868	\$ 47,069	\$ 593,974	8%	1.58%	20.00%
1	142	6,428,820	959,582	1,285,764	75%	14.93%	20.00%
2	183	8,983,113	1,474,525	1,796,623	82%	16.41%	20.00%
3	238	12,218,737	2,174,715	2,443,747	89%	17.80%	20.00%
4	273	14,901,393	2,653,768	2,980,279	89%	17.81%	20.00%
5	357	20,511,629	4,077,630	4,102,326	99%	19.88%	20.00%
6	410	24,801,436	5,364,384	4,960,287	108%	21.63%	20.00%
7	480	29,952,046	6,622,768	5,990,409	111%	22.11%	20.00%
8	499	31,488,351	6,953,441	6,297,670	110%	22.08%	20.00%
9	500	32,397,491	7,676,836	6,479,498	118%	23.70%	20.00%
10	406	26,532,811	6,318,496	5,306,562	119%	23.81%	20.00%
11	313	21,125,150	4,217,642	4,225,030	100%	19.97%	20.00%
12	238	16,339,125	2,688,015	3,267,825	82%	16.45%	20.00%
13	122	8,128,603	1,038,882	1,625,721	64%	12.78%	20.00%
14	108	7,312,424	862,919	1,462,485	59%	11.80%	20.00%
15	107	7,363,359	957,251	1,472,672	65%	13.00%	20.00%
16	97	6,717,260	885,923	1,343,452	66%	13.19%	20.00%
17	105	7,482,746	844,392	1,496,549	56%	11.28%	20.00%
18	121	8,633,467	1,114,722	1,726,693	65%	12.91%	20.00%
19	155	11,155,479	1,959,966	2,231,096	88%	17.57%	20.00%
20	163	11,926,128	1,993,944	2,385,226	84%	16.72%	20.00%
21	160	11,791,244	1,620,754	2,358,249	69%	13.75%	20.00%
22	141	10,466,287	1,566,853	2,093,257	75%	14.97%	20.00%
23	92	6,891,094	1,299,560	1,378,219	94%	18.86%	20.00%
24	82	6,181,598	1,384,144	1,236,320	112%	22.39%	20.00%
25	82	6,125,608	1,299,643	1,225,122	106%	21.22%	20.00%
26	65	4,811,883	756,342	962,377	79%	15.72%	20.00%
27	79	5,923,973	904,576	1,184,795	76%	15.27%	20.00%
28	60	4,640,612	718,576	928,122	77%	15.48%	20.00%
29	54	4,237,710	632,756	847,542	75%	14.93%	20.00%
30	48	3,694,158	650,958	738,832	88%	17.62%	20.00%
31	23	1,604,392	235,931	320,878	74%	14.71%	20.00%
32	22	1,510,646	205,616	302,129	68%	13.61%	20.00%
33	13	962,508	37,542	192,502	20%	3.90%	20.00%
34	4	391,234	18,124	78,247	23%	4.63%	20.00%
35	3	307,294	14,113	61,459	23%	4.59%	20.00%
36	3	225,329	683	45,066	2%	0.30%	20.00%
37	3	225,329	1,320	45,066	3%	0.59%	20.00%
38	3	288,663	34,729	57,733	60%	12.03%	20.00%
39	3	289,120	31,515	57,824	55%	10.90%	20.00%
40	1	103,796	17,947	20,759	86%	17.29%	20.00%
41	1	100,730	14,815	20,146	74%	14.71%	20.00%
42	0	-	-	-	-	-	20.00%
43	0	-	-	-	-	-	20.00%
44	0	-	-	-	-	-	20.00%
45	0	-	-	-	-	-	20.00%
<b>Total</b>	<b>6,026</b>	<b>388,142,641</b>	<b>72,333,367</b>	<b>77,628,528</b>	<b>93%</b>	<b>18.64%</b>	<b>20.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-		0.00%	20.00%
1	0	-	-	-		0.00%	20.00%
2	0	-	-	-		0.00%	20.00%
3	0	-	-	-		0.00%	20.00%
4	1	\$ 83,290	-	\$ 16,658		0.00%	20.00%
5	1	33,431	-	6,686		0.00%	20.00%
6	1	81,741	-	16,348		0.00%	20.00%
7	1	60,200	-	12,040		0.00%	20.00%
8	2	187,086	-	37,417		0.00%	20.00%
9	10	670,729	\$ 7,357	134,146	5%	1.10%	20.00%
10	8	516,773	19,267	103,355	19%	3.73%	20.00%
11	3	246,166	8,485	49,233	17%	3.45%	20.00%
12	6	444,600	49,452	88,920	56%	11.12%	20.00%
13	3	170,027	4,837	34,005	14%	2.84%	20.00%
14	8	498,489	34,765	99,698	35%	6.97%	20.00%
15	4	328,497	-	65,699		0.00%	20.00%
16	4	336,346	-	67,269		0.00%	20.00%
17	5	494,648	20,958	98,930	21%	4.24%	20.00%
18	7	490,908	87,347	98,182	89%	17.79%	20.00%
19	7	517,589	68,872	103,518	67%	13.31%	20.00%
20	14	947,998	270,682	189,600	143%	28.55%	20.00%
21	9	630,365	157,309	126,073	125%	24.96%	20.00%
22	6	431,441	81,935	86,288	95%	18.99%	20.00%
23	10	773,856	167,877	154,771	108%	21.69%	20.00%
24	12	901,076	334,567	180,215	186%	37.13%	20.00%
25	6	429,648	103,049	85,930	120%	23.98%	20.00%
26	11	744,511	240,657	148,902	162%	32.32%	20.00%
27	6	449,966	152,934	89,993	170%	33.99%	20.00%
28	11	853,722	211,751	170,744	124%	24.80%	20.00%
29	7	515,268	68,412	103,054	66%	13.28%	20.00%
30	10	722,823	118,075	144,565	82%	16.34%	20.00%
31	7	582,798	163,905	116,560	141%	28.12%	20.00%
32	3	211,238	17,782	42,248	42%	8.42%	20.00%
33	3	202,965	55,441	40,593	137%	27.32%	20.00%
34	3	242,642	-	48,528		0.00%	20.00%
35	0	-	-	-		0.00%	20.00%
36	0	-	-	-		0.00%	20.00%
37	0	-	-	-		0.00%	20.00%
38	0	-	-	-		0.00%	20.00%
39	0	-	-	-		0.00%	20.00%
40	0	-	-	-		0.00%	20.00%
41	0	-	-	-		0.00%	20.00%
42	0	-	-	-		0.00%	20.00%
43	0	-	-	-		0.00%	20.00%
44	0	-	-	-		0.00%	20.00%
45	1	65,859	50	13,172	0%	0.08%	20.00%
Total	190	13,866,692	2,445,766	2,773,338	88%	17.64%	20.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-		0.00%	22.00%
1	0	-	-	-		0.00%	22.00%
2	0	-	-	-		0.00%	22.00%
3	0	-	-	-		0.00%	22.00%
4	1	\$ 83,290	-	\$ 18,324		0.00%	22.00%
5	1	33,431	-	7,355		0.00%	22.00%
6	1	81,741	-	17,983		0.00%	22.00%
7	1	60,200	-	13,244		0.00%	22.00%
8	2	187,086	-	41,159		0.00%	22.00%
9	10	670,729	\$ 7,357	147,560	5%	1.10%	22.00%
10	8	516,773	19,267	113,690	17%	3.73%	22.00%
11	3	246,166	8,485	54,156	16%	3.45%	22.00%
12	6	444,600	49,452	97,812	51%	11.12%	22.00%
13	3	170,027	4,837	37,406	13%	2.84%	22.00%
14	8	498,489	34,765	109,668	32%	6.97%	22.00%
15	4	328,497	-	72,269		0.00%	22.00%
16	4	336,346	-	73,996		0.00%	22.00%
17	5	494,648	20,958	108,823	19%	4.24%	22.00%
18	7	490,908	87,347	108,000	81%	17.79%	22.00%
19	7	517,589	68,872	113,870	60%	13.31%	22.00%
20	14	947,998	270,682	208,560	130%	28.55%	22.00%
21	9	630,365	157,309	138,680	113%	24.96%	22.00%
22	6	431,441	81,935	94,917	86%	18.99%	22.00%
23	10	773,856	167,877	170,248	99%	21.69%	22.00%
24	12	901,076	334,567	198,237	169%	37.13%	22.00%
25	6	429,648	103,049	94,522	109%	23.98%	22.00%
26	11	744,511	240,657	163,792	147%	32.32%	22.00%
27	6	449,966	152,934	98,992	154%	33.99%	22.00%
28	11	853,722	211,751	187,819	113%	24.80%	22.00%
29	7	515,268	68,412	113,359	60%	13.28%	22.00%
30	10	722,823	118,075	159,021	74%	16.34%	22.00%
31	7	582,798	163,905	128,215	128%	28.12%	22.00%
32	3	211,238	17,782	46,472	38%	8.42%	22.00%
33	3	202,965	55,441	44,652	124%	27.32%	22.00%
34	3	242,642	-	53,381		0.00%	22.00%
35	0	-	-	-		0.00%	22.00%
36	0	-	-	-		0.00%	22.00%
37	0	-	-	-		0.00%	22.00%
38	0	-	-	-		0.00%	22.00%
39	0	-	-	-		0.00%	22.00%
40	0	-	-	-		0.00%	22.00%
41	0	-	-	-		0.00%	22.00%
42	0	-	-	-		0.00%	22.00%
43	0	-	-	-		0.00%	22.00%
44	0	-	-	-		0.00%	22.00%
45	1	65,859	50	14,489	0%	0.08%	22.00%
Total	190	13,866,692	2,445,766	3,050,672	80%	17.64%	22.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

TABLE 13C

4-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			20.00%
1	0	-	-	-			20.00%
2	0	-	-	-			20.00%
3	0	-	-	-			20.00%
4	1	\$ 48,362	\$ 12,576	\$ 9,672	130%	26.00%	20.00%
5	1	53,869	5,286	10,774	49%	9.81%	20.00%
6	0	-	-	-			20.00%
7	1	50,736	21,267	10,147	210%	41.92%	20.00%
8	1	73,744	-	14,749			20.00%
9	0	-	-	-			20.00%
10	1	60,691	12,599	12,138	104%	20.76%	20.00%
11	0	-	-	-			20.00%
12	0	-	-	-			20.00%
13	0	-	-	-			20.00%
14	0	-	-	-			20.00%
15	0	-	-	-			20.00%
16	1	46,847	-	9,369			20.00%
17	1	49,840	-	9,968			20.00%
18	0	-	-	-			20.00%
19	1	62,730	11,331	12,546	90%	18.06%	20.00%
20	1	58,542	-	11,708			20.00%
21	0	-	-	-			20.00%
22	0	-	-	-			20.00%
23	0	-	-	-			20.00%
24	1	77,681	15,039	15,536	97%	19.36%	20.00%
25	0	-	-	-			20.00%
26	1	61,012	8,868	12,202	73%	14.53%	20.00%
27	0	-	-	-			20.00%
28	1	54,683	-	10,937			20.00%
29	0	-	-	-			20.00%
30	0	-	-	-			20.00%
31	0	-	-	-			20.00%
32	0	-	-	-			20.00%
33	0	-	-	-			20.00%
34	0	-	-	-			20.00%
35	0	-	-	-			20.00%
36	0	-	-	-			20.00%
37	0	-	-	-			20.00%
38	0	-	-	-			20.00%
39	0	-	-	-			20.00%
40	0	-	-	-			20.00%
41	0	-	-	-			20.00%
42	0	-	-	-			20.00%
43	0	-	-	-			20.00%
44	0	-	-	-			20.00%
45	0	-	-	-			20.00%
Total	12	698,735	86,966	139,747	62%	12.45%	20.00%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			20.00%
1	0	-	-	-			20.00%
2	0	-	-	-			20.00%
3	0	-	-	-			20.00%
4	1	\$ 48,362	\$ 12,576	\$ 9,672	130%	26.00%	20.00%
5	1	53,869	5,286	10,774	49%	9.81%	20.00%
6	0	-	-	-			20.00%
7	1	50,736	21,267	10,147	210%	41.92%	20.00%
8	1	73,744	-	14,749			20.00%
9	0	-	-	-			20.00%
10	1	60,691	12,599	12,138	104%	20.76%	20.00%
11	0	-	-	-			20.00%
12	0	-	-	-			20.00%
13	0	-	-	-			20.00%
14	0	-	-	-			20.00%
15	0	-	-	-			20.00%
16	1	46,847	-	9,369			20.00%
17	1	49,840	-	9,968			20.00%
18	0	-	-	-			20.00%
19	1	62,730	11,331	12,546	90%	18.06%	20.00%
20	1	58,542	-	11,708			20.00%
21	0	-	-	-			20.00%
22	0	-	-	-			20.00%
23	0	-	-	-			20.00%
24	1	77,681	15,039	15,536	97%	19.36%	20.00%
25	0	-	-	-			20.00%
26	1	61,012	8,868	12,202	73%	14.53%	20.00%
27	0	-	-	-			20.00%
28	1	54,683	-	10,937			20.00%
29	0	-	-	-			20.00%
30	0	-	-	-			20.00%
31	0	-	-	-			20.00%
32	0	-	-	-			20.00%
33	0	-	-	-			20.00%
34	0	-	-	-			20.00%
35	0	-	-	-			20.00%
36	0	-	-	-			20.00%
37	0	-	-	-			20.00%
38	0	-	-	-			20.00%
39	0	-	-	-			20.00%
40	0	-	-	-			20.00%
41	0	-	-	-			20.00%
42	0	-	-	-			20.00%
43	0	-	-	-			20.00%
44	0	-	-	-			20.00%
45	0	-	-	-			20.00%
Total	12	698,735	86,966	139,747	62%	12.45%	20.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	393	\$ 14,976,751	\$ 367,236	\$ 2,995,350	12%	2.45%	20.00%
1	797	33,049,847	5,782,149	6,609,969	87%	17.50%	20.00%
2	937	41,679,002	8,955,247	8,335,800	107%	21.49%	20.00%
3	1,075	50,974,070	11,803,136	10,194,814	116%	23.16%	20.00%
4	1,039	52,806,088	12,316,148	10,561,218	117%	23.32%	20.00%
5	1,028	55,473,608	12,433,201	11,094,722	112%	22.41%	20.00%
6	962	55,058,327	12,598,261	11,011,665	114%	22.88%	20.00%
7	904	53,957,435	12,219,207	10,791,487	113%	22.65%	20.00%
8	824	50,746,298	11,039,585	10,149,260	109%	21.75%	20.00%
9	728	45,595,426	9,526,228	9,119,085	104%	20.89%	20.00%
10	598	37,865,870	7,553,184	7,573,174	100%	19.95%	20.00%
11	508	32,903,452	5,792,263	6,580,690	88%	17.60%	20.00%
12	443	28,832,179	4,601,001	5,766,436	80%	15.96%	20.00%
13	388	24,221,982	3,915,886	4,844,396	81%	16.17%	20.00%
14	389	24,123,663	4,417,717	4,824,733	92%	18.31%	20.00%
15	393	24,853,798	5,132,830	4,970,760	103%	20.65%	20.00%
16	381	24,719,438	5,376,496	4,943,888	109%	21.75%	20.00%
17	381	25,446,700	5,629,680	5,089,340	111%	22.12%	20.00%
18	401	26,470,122	6,142,487	5,294,024	116%	23.21%	20.00%
19	395	26,531,884	6,304,965	5,306,377	119%	23.76%	20.00%
20	365	25,062,225	5,532,855	5,012,445	110%	22.08%	20.00%
21	364	24,992,079	5,168,586	4,998,416	103%	20.68%	20.00%
22	331	22,966,812	5,058,595	4,593,362	110%	22.03%	20.00%
23	268	18,791,123	4,428,819	3,758,225	118%	23.57%	20.00%
24	227	15,869,168	3,849,185	3,173,834	121%	24.26%	20.00%
25	196	13,909,392	3,183,246	2,781,878	114%	22.89%	20.00%
26	164	11,561,473	2,297,107	2,312,295	99%	19.87%	20.00%
27	141	10,075,487	1,934,111	2,015,097	96%	19.20%	20.00%
28	108	7,762,078	1,617,211	1,552,416	104%	20.83%	20.00%
29	81	6,010,158	1,039,136	1,202,032	86%	17.29%	20.00%
30	71	5,555,409	795,887	1,111,082	72%	14.33%	20.00%
31	40	2,872,747	383,530	574,549	67%	13.35%	20.00%
32	37	2,738,662	332,233	547,732	61%	12.13%	20.00%
33	22	1,579,609	118,150	315,922	37%	7.48%	20.00%
34	12	1,035,349	106,816	207,070	52%	10.32%	20.00%
35	9	777,653	110,860	155,531	71%	14.26%	20.00%
36	5	380,769	67,991	76,154	89%	17.86%	20.00%
37	6	483,820	44,864	96,764	46%	9.27%	20.00%
38	3	288,663	34,729	57,733	60%	12.03%	20.00%
39	5	427,342	31,515	85,468	37%	7.37%	20.00%
40	3	246,164	17,947	49,233	36%	7.29%	20.00%
41	3	253,930	14,815	50,786	29%	5.83%	20.00%
42	1	57,379	-	11,476			20.00%
43	1	60,868	-	12,174			20.00%
44	1	54,863	-	10,973			20.00%
45	0	-	-	-			20.00%
<b>Total</b>	<b>15,428</b>	<b>904,099,158</b>	<b>188,075,095</b>	<b>180,819,832</b>	<b>104%</b>	<b>20.80%</b>	<b>20.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 13A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	393	\$ 14,976,751	\$ 367,236	\$ 2,995,350	12%	2.45%	20.00%
1	797	33,049,847	5,782,149	6,609,969	87%	17.50%	20.00%
2	937	41,679,002	8,955,247	8,335,800	107%	21.49%	20.00%
3	1,075	50,974,070	11,803,136	10,194,814	116%	23.16%	20.00%
4	1,039	52,806,088	12,316,148	10,561,218	117%	23.32%	20.00%
5	1,028	55,473,608	12,433,201	11,094,722	112%	22.41%	20.00%
6	962	55,058,327	12,598,261	11,011,665	114%	22.88%	20.00%
7	904	53,957,435	12,219,207	10,791,487	113%	22.65%	20.00%
8	824	50,746,298	11,039,585	10,149,260	109%	21.75%	20.00%
9	728	45,595,426	9,526,228	9,119,085	104%	20.89%	20.00%
10	598	37,865,870	7,553,184	7,573,174	100%	19.95%	20.00%
11	508	32,903,452	5,792,263	6,580,690	88%	17.60%	20.00%
12	443	28,832,179	4,601,001	5,766,436	80%	15.96%	20.00%
13	388	24,221,982	3,915,886	4,844,396	81%	16.17%	20.00%
14	389	24,123,663	4,417,717	4,824,733	92%	18.31%	20.00%
15	393	24,853,798	5,132,830	4,970,760	103%	20.65%	20.00%
16	381	24,719,438	5,376,496	4,943,888	109%	21.75%	20.00%
17	381	25,446,700	5,629,680	5,089,340	111%	22.12%	20.00%
18	401	26,470,122	6,142,487	5,294,024	116%	23.21%	20.00%
19	395	26,531,884	6,304,965	5,306,377	119%	23.76%	20.00%
20	365	25,062,225	5,532,855	5,012,445	110%	22.08%	20.00%
21	364	24,992,079	5,168,586	4,998,416	103%	20.68%	20.00%
22	331	22,966,812	5,058,595	4,593,362	110%	22.03%	20.00%
23	268	18,791,123	4,428,819	3,758,225	118%	23.57%	20.00%
24	227	15,869,168	3,849,185	3,173,834	121%	24.26%	20.00%
25	196	13,909,392	3,183,246	2,781,878	114%	22.89%	20.00%
26	164	11,561,473	2,297,107	2,312,295	99%	19.87%	20.00%
27	141	10,075,487	1,934,111	2,015,097	96%	19.20%	20.00%
28	108	7,762,078	1,617,211	1,552,416	104%	20.83%	20.00%
29	81	6,010,158	1,039,136	1,202,032	86%	17.29%	20.00%
30	71	5,555,409	795,887	1,111,082	72%	14.33%	20.00%
31	40	2,872,747	383,530	574,549	67%	13.35%	20.00%
32	37	2,738,662	332,233	547,732	61%	12.13%	20.00%
33	22	1,579,609	118,150	315,922	37%	7.48%	20.00%
34	12	1,035,349	106,816	207,070	52%	10.32%	20.00%
35	9	777,653	110,860	155,531	71%	14.26%	20.00%
36	5	380,769	67,991	76,154	89%	17.86%	20.00%
37	6	483,820	44,864	96,764	46%	9.27%	20.00%
38	3	288,663	34,729	57,733	60%	12.03%	20.00%
39	5	427,342	31,515	85,468	37%	7.37%	20.00%
40	3	246,164	17,947	49,233	36%	7.29%	20.00%
41	3	253,930	14,815	50,786	29%	5.83%	20.00%
42	1	57,379	-	11,476			20.00%
43	1	60,868	-	12,174			20.00%
44	1	54,863	-	10,973			20.00%
45	0	-	-	-			20.00%
<b>Total</b>	<b>15,428</b>	<b>904,099,158</b>	<b>188,075,095</b>	<b>180,819,832</b>	<b>104%</b>	<b>20.80%</b>	<b>20.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			20.00%
1	0	-	-	-			20.00%
2	1	\$ 87,557	-	\$ 17,511			20.00%
3	0	-	-	-			20.00%
4	3	147,803	\$ 1,440	29,561	5%	0.97%	20.00%
5	5	455,218	-	91,044			20.00%
6	3	221,834	-	44,367			20.00%
7	3	182,518	-	36,504			20.00%
8	3	257,128	-	51,426			20.00%
9	14	988,113	7,357	197,623	4%	0.74%	20.00%
10	13	837,613	39,169	167,523	23%	4.68%	20.00%
11	7	464,088	8,485	92,818	9%	1.83%	20.00%
12	8	586,094	49,452	117,219	42%	8.44%	20.00%
13	8	502,282	26,744	100,456	27%	5.32%	20.00%
14	12	731,257	87,687	146,251	60%	11.99%	20.00%
15	7	613,748	27,903	122,750	23%	4.55%	20.00%
16	8	547,900	72,400	109,580	66%	13.21%	20.00%
17	9	710,072	84,110	142,014	59%	11.85%	20.00%
18	15	948,307	361,633	189,661	191%	38.13%	20.00%
19	26	1,656,002	660,535	331,200	199%	39.89%	20.00%
20	48	3,019,070	1,203,211	603,814	199%	39.85%	20.00%
21	42	2,680,411	1,034,142	536,082	193%	38.58%	20.00%
22	24	1,571,300	652,925	314,260	208%	41.55%	20.00%
23	27	1,776,533	544,813	355,307	153%	30.67%	20.00%
24	29	2,073,198	707,624	414,640	171%	34.13%	20.00%
25	19	1,344,883	608,420	268,977	226%	45.24%	20.00%
26	27	1,743,447	697,184	348,689	200%	39.99%	20.00%
27	10	688,608	242,587	137,722	176%	35.23%	20.00%
28	14	1,043,023	226,926	208,605	109%	21.76%	20.00%
29	11	803,909	285,871	160,782	178%	35.56%	20.00%
30	17	1,202,358	286,727	240,472	119%	23.85%	20.00%
31	12	1,011,350	210,551	202,270	104%	20.82%	20.00%
32	5	322,987	19,127	64,597	30%	5.92%	20.00%
33	9	696,698	124,918	139,340	90%	17.93%	20.00%
34	4	295,281	14,539	59,056	25%	4.92%	20.00%
35	2	158,109	12,394	31,622	39%	7.84%	20.00%
36	2	158,499	24,028	31,700	76%	15.16%	20.00%
37	1	57,271	1,313	11,454	11%	2.29%	20.00%
38	0	-	-	-			20.00%
39	0	-	-	-			20.00%
40	0	-	-	-			20.00%
41	0	-	-	-			20.00%
42	1	83,750	-	16,750			20.00%
43	0	-	-	-			20.00%
44	0	-	-	-			20.00%
45	1	65,859	50	13,172	0%	0.08%	20.00%
Total	450	30,734,073	8,324,265	6,146,815	135%	27.08%	20.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 13B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			22.00%
1	0	-	-	-			22.00%
2	1	\$ 87,557	-	\$ 19,262			22.00%
3	0	-	-	-			22.00%
4	3	147,803	\$ 1,440	32,517	4%	0.97%	22.00%
5	5	455,218	-	100,148			22.00%
6	3	221,834	-	48,804			22.00%
7	3	182,518	-	40,154			22.00%
8	3	257,128	-	56,568			22.00%
9	14	988,113	7,357	217,385	3%	0.74%	22.00%
10	13	837,613	39,169	184,275	21%	4.68%	22.00%
11	7	464,088	8,485	102,099	8%	1.83%	22.00%
12	8	586,094	49,452	128,941	38%	8.44%	22.00%
13	8	502,282	26,744	110,502	24%	5.32%	22.00%
14	12	731,257	87,687	160,876	55%	11.99%	22.00%
15	7	613,748	27,903	135,024	21%	4.55%	22.00%
16	8	547,900	72,400	120,538	60%	13.21%	22.00%
17	9	710,072	84,110	156,216	54%	11.85%	22.00%
18	15	948,307	361,633	208,627	173%	38.13%	22.00%
19	26	1,656,002	660,535	364,320	181%	39.89%	22.00%
20	48	3,019,070	1,203,211	664,195	181%	39.85%	22.00%
21	42	2,680,411	1,034,142	589,690	175%	38.58%	22.00%
22	24	1,571,300	652,925	345,686	189%	41.55%	22.00%
23	27	1,776,533	544,813	390,837	139%	30.67%	22.00%
24	29	2,073,198	707,624	456,103	155%	34.13%	22.00%
25	19	1,344,883	608,420	295,874	206%	45.24%	22.00%
26	27	1,743,447	697,184	383,558	182%	39.99%	22.00%
27	10	688,608	242,587	151,494	160%	35.23%	22.00%
28	14	1,043,023	226,926	229,465	99%	21.76%	22.00%
29	11	803,909	285,871	176,860	162%	35.56%	22.00%
30	17	1,202,358	286,727	264,519	108%	23.85%	22.00%
31	12	1,011,350	210,551	222,497	95%	20.82%	22.00%
32	5	322,987	19,127	71,057	27%	5.92%	22.00%
33	9	696,698	124,918	153,274	81%	17.93%	22.00%
34	4	295,281	14,539	64,962	22%	4.92%	22.00%
35	2	158,109	12,394	34,784	36%	7.84%	22.00%
36	2	158,499	24,028	34,870	69%	15.16%	22.00%
37	1	57,271	1,313	12,600	10%	2.29%	22.00%
38	0	-	-	-			22.00%
39	0	-	-	-			22.00%
40	0	-	-	-			22.00%
41	0	-	-	-			22.00%
42	1	83,750	-	18,425			22.00%
43	0	-	-	-			22.00%
44	0	-	-	-			22.00%
45	1	65,859	50	14,489	0%	0.08%	22.00%
Total	450	30,734,073	8,324,265	6,761,496	123%	27.08%	22.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

TABLE 13C

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			20.00%
1	0	-	-	-			20.00%
2	0	-	-	-			20.00%
3	1	\$ 41,758	\$ 1,633	\$ 8,352	20%	3.91%	20.00%
4	3	126,829	20,670	25,366	81%	16.30%	20.00%
5	1	53,869	5,286	10,774	49%	9.81%	20.00%
6	0	-	-	-			20.00%
7	2	102,600	23,301	20,520	114%	22.71%	20.00%
8	1	73,744	-	14,749			20.00%
9	0	-	-	-			20.00%
10	3	164,682	31,041	32,936	94%	18.85%	20.00%
11	1	28,350	-	5,670			20.00%
12	0	-	-	-			20.00%
13	2	97,393	35,737	19,479	183%	36.69%	20.00%
14	2	103,238	18,636	20,648	90%	18.05%	20.00%
15	1	48,198	1,015	9,640	11%	2.11%	20.00%
16	2	104,482	3,981	20,896	19%	3.81%	20.00%
17	1	49,840	-	9,968			20.00%
18	2	116,194	22,062	23,239	95%	18.99%	20.00%
19	2	113,532	24,184	22,706	107%	21.30%	20.00%
20	3	212,344	7,302	42,469	17%	3.44%	20.00%
21	1	62,882	4,150	12,576	33%	6.60%	20.00%
22	2	114,253	38,636	22,851	169%	33.82%	20.00%
23	0	-	-	-			20.00%
24	1	77,681	15,039	15,536	97%	19.36%	20.00%
25	0	-	-	-			20.00%
26	1	61,012	8,868	12,202	73%	14.53%	20.00%
27	0	-	-	-			20.00%
28	1	54,683	-	10,937			20.00%
29	0	-	-	-			20.00%
30	0	-	-	-			20.00%
31	0	-	-	-			20.00%
32	0	-	-	-			20.00%
33	0	-	-	-			20.00%
34	0	-	-	-			20.00%
35	0	-	-	-			20.00%
36	0	-	-	-			20.00%
37	0	-	-	-			20.00%
38	0	-	-	-			20.00%
39	0	-	-	-			20.00%
40	0	-	-	-			20.00%
41	0	-	-	-			20.00%
42	0	-	-	-			20.00%
43	0	-	-	-			20.00%
44	0	-	-	-			20.00%
45	0	-	-	-			20.00%
Total	33	1,807,562	261,541	361,512	72%	14.47%	20.00%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 13C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			20.00%
1	0	-	-	-			20.00%
2	0	-	-	-			20.00%
3	1	\$ 41,758	\$ 1,633	\$ 8,352	20%	3.91%	20.00%
4	3	126,829	20,670	25,366	81%	16.30%	20.00%
5	1	53,869	5,286	10,774	49%	9.81%	20.00%
6	0	-	-	-			20.00%
7	2	102,600	23,301	20,520	114%	22.71%	20.00%
8	1	73,744	-	14,749			20.00%
9	0	-	-	-			20.00%
10	3	164,682	31,041	32,936	94%	18.85%	20.00%
11	1	28,350	-	5,670			20.00%
12	0	-	-	-			20.00%
13	2	97,393	35,737	19,479	183%	36.69%	20.00%
14	2	103,238	18,636	20,648	90%	18.05%	20.00%
15	1	48,198	1,015	9,640	11%	2.11%	20.00%
16	2	104,482	3,981	20,896	19%	3.81%	20.00%
17	1	49,840	-	9,968			20.00%
18	2	116,194	22,062	23,239	95%	18.99%	20.00%
19	2	113,532	24,184	22,706	107%	21.30%	20.00%
20	3	212,344	7,302	42,469	17%	3.44%	20.00%
21	1	62,882	4,150	12,576	33%	6.60%	20.00%
22	2	114,253	38,636	22,851	169%	33.82%	20.00%
23	0	-	-	-			20.00%
24	1	77,681	15,039	15,536	97%	19.36%	20.00%
25	0	-	-	-			20.00%
26	1	61,012	8,868	12,202	73%	14.53%	20.00%
27	0	-	-	-			20.00%
28	1	54,683	-	10,937			20.00%
29	0	-	-	-			20.00%
30	0	-	-	-			20.00%
31	0	-	-	-			20.00%
32	0	-	-	-			20.00%
33	0	-	-	-			20.00%
34	0	-	-	-			20.00%
35	0	-	-	-			20.00%
36	0	-	-	-			20.00%
37	0	-	-	-			20.00%
38	0	-	-	-			20.00%
39	0	-	-	-			20.00%
40	0	-	-	-			20.00%
41	0	-	-	-			20.00%
42	0	-	-	-			20.00%
43	0	-	-	-			20.00%
44	0	-	-	-			20.00%
45	0	-	-	-			20.00%
<b>Total</b>	<b>33</b>	<b>1,807,562</b>	<b>261,541</b>	<b>361,512</b>	<b>72%</b>	<b>14.47%</b>	<b>20.00%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - TBTA  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 13D			10-YEAR PERIOD ENDING 6/30/2013			
		Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %		
						Actual (4) / (3) (7)	Expected (5) / (3) (8)	
2004	1,444	\$ 73,055,008	\$ 19,386,490	\$ 14,611,002	133%	26.54%	20.00%	
2005	1,562	80,686,018	18,347,217	16,137,204	114%	22.74%	20.00%	
2006	1,590	85,483,912	17,640,300	17,096,782	103%	20.64%	20.00%	
2007	1,588	87,673,054	18,924,300	17,534,611	108%	21.59%	20.00%	
2008	1,586	92,862,979	20,268,015	18,572,596	109%	21.83%	20.00%	
2009	1,632	96,195,547	21,175,406	19,239,109	110%	22.01%	20.00%	
2010	1,596	99,314,640	22,208,889	19,862,928	112%	22.36%	20.00%	
2011	1,544	95,969,515	21,097,417	19,193,903	110%	21.98%	20.00%	
2012	1,487	99,194,586	14,258,327	19,838,917	72%	14.37%	20.00%	
2013	1,399	93,663,900	14,768,734	18,732,780	79%	15.77%	20.00%	
Total	15,428	904,099,158	188,075,095	180,819,832	104%	20.80%	20.00%	



NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
PRELIMINARY EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013		10-YEAR PERIOD ENDING 6/30/2013		Average Number of Decrements per Year	GRS' Ideal A/E Range	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to				
				Expected	Proposed			
	Service Retiree Mortality						98-103%	The proposed assumption is equivalent to the proposed assumption for the Police System.
1A	Men	102%	61	101%	106%	56		
1B	Women	283%	1	208%	124%	0		
1C	Men & Women	102%	61	102%	106%	56		
1D	By Year							
	Disabled Retiree Mortality						98-103%	The proposed assumption is equivalent to the proposed assumption for the Police System.
2A	Men	94%	28	95%	100%	26		
2B	Women	0%	0	56%	33%	0		
2C	Men & Women	93%	28	95%	99%	26		
2D	By Year							

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

TABLE 1A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current	Proposed	Current	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	0	N/A	0.1149%	0.0847%	0	0	0%	0%
42	0	0	N/A	0.1268%	0.0924%	0	0	0%	0%
43	0	0	N/A	0.1381%	0.1007%	0	0	0%	0%
44	0	0	N/A	0.1489%	0.1096%	0	0	0%	0%
45	0	0	N/A	0.1593%	0.1191%	0	0	0%	0%
46	0	0	N/A	0.1692%	0.1291%	0	0	0%	0%
47	0	0	N/A	0.1787%	0.1397%	0	0	0%	0%
48	0	0	N/A	0.1877%	0.1509%	0	0	0%	0%
49	0	0	N/A	0.1962%	0.1626%	0	0	0%	0%
50	0	0	N/A	0.2044%	0.1760%	0	0	0%	0%
51	0	0	N/A	0.2650%	0.1915%	0	0	0%	0%
52	0	0	N/A	0.3230%	0.2100%	0	0	0%	0%
53	0	0	N/A	0.3815%	0.2320%	0	0	0%	0%
54	0	0	N/A	0.4387%	0.2581%	0	0	0%	0%
55	0	0	N/A	0.4736%	0.2889%	0	0	0%	0%
56	0	19	0.000000	0.5260%	0.3252%	0.1	0.1	0%	0%
57	2	67	0.029851	0.5794%	0.3661%	0.4	0.2	515%	815%
58	0	88	0.000000	0.6335%	0.4120%	0.6	0.4	0%	0%
59	0	122	0.000000	0.6829%	0.4637%	0.8	0.6	0%	0%
60	0	148	0.000000	0.7324%	0.5220%	1.1	0.8	0%	0%
61	2	177	0.011299	0.8220%	0.5875%	1.5	1.0	137%	192%
62	1	187	0.005348	0.9088%	0.6613%	1.7	1.2	59%	81%
63	0	241	0.000000	1.0069%	0.7443%	2.4	1.8	0%	0%
64	4	231	0.017316	1.1009%	0.8378%	2.5	1.9	157%	207%
65	3	391	0.007673	1.1979%	0.9430%	4.7	3.7	64%	81%
66	10	567	0.017637	1.3088%	1.0614%	7.4	6.0	135%	166%
67	9	651	0.013825	1.4132%	1.1947%	9.2	7.8	98%	116%
68	15	689	0.021771	1.6088%	1.3447%	11.1	9.3	135%	162%
69	17	725	0.023448	1.8232%	1.5136%	13.2	11.0	129%	155%
70	10	592	0.016892	2.0284%	1.7036%	12.0	10.1	83%	99%
71	10	521	0.019194	2.2557%	1.9175%	11.8	10.0	85%	100%
72	10	482	0.020747	2.4904%	2.1583%	12.0	10.4	83%	96%
73	8	419	0.019093	2.7697%	2.4293%	11.6	10.2	69%	79%
74	8	339	0.023599	3.0577%	2.7344%	10.4	9.3	77%	86%
75	9	274	0.032847	3.3819%	3.0777%	9.3	8.4	97%	107%
76	10	207	0.048309	3.6897%	3.4642%	7.6	7.2	131%	139%
77	9	139	0.064748	4.0392%	3.8992%	5.6	5.4	160%	166%
78	3	139	0.021583	4.5878%	4.3888%	6.4	6.1	47%	49%
79	9	123	0.073171	5.1603%	4.9399%	6.3	6.1	142%	148%
80	8	110	0.072727	5.7574%	5.5602%	6.3	6.1	126%	131%
81	8	96	0.083333	6.2750%	6.2583%	6.0	6.0	133%	133%
82	6	95	0.063158	6.8004%	7.0442%	6.5	6.7	93%	90%
83	5	81	0.061728	7.6869%	7.9287%	6.2	6.4	80%	78%
84	6	80	0.075000	8.6426%	8.9243%	6.9	7.1	87%	84%
85	6	75	0.080000	9.5359%	10.0449%	7.2	7.5	84%	80%
86	11	81	0.135802	10.4293%	11.3062%	8.4	9.2	130%	120%
87	5	62	0.080645	11.4143%	12.7259%	7.1	7.9	71%	63%
88	10	50	0.200000	12.9703%	14.3239%	6.5	7.2	154%	140%
89	7	42	0.166667	14.4340%	16.1225%	6.1	6.8	115%	103%
90	9	35	0.257143	16.0257%	18.1469%	5.6	6.4	160%	142%
91	2	13	0.153846	17.7342%	20.4256%	2.3	2.7	87%	75%
92	2	21	0.095238	19.6122%	22.9904%	4.1	4.8	49%	41%
93	3	12	0.250000	21.3511%	25.8773%	2.6	3.1	117%	97%
94	2	7	0.285714	23.1317%	29.1266%	1.6	2.0	124%	98%
95	0	3	0.000000	25.1888%	32.7840%	0.8	1.0	0%	0%
96	1	3	0.333333	27.1021%	36.9006%	0.8	1.1	123%	90%
97	1	1	1.000000	28.9236%	41.5341%	0.3	0.4	346%	241%
98	0	3	0.000000	30.9850%	46.7494%	0.9	1.4	0%	0%
99	0	4	0.000000	32.6300%	50.0000%	1.3	2.0	0%	0%
Subtotal	241	8,412				237.2	224.6	102%	107%
100 or more	1	2	0.500000	37.1685%	50.0000%	0.7	1.0	135%	100%
Total	242	8,414				237.9	225.6	102%	107%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (5)	Proposed (6)	Current (3) x (5) (7)	Proposed (3) x (6) (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0652%	0.0891%	0	0	0%	0%
42	0	0	N/A	0.0724%	0.1482%	0	0	0%	0%
43	0	0	N/A	0.0813%	0.2073%	0	0	0%	0%
44	0	0	N/A	0.0921%	0.2663%	0	0	0%	0%
45	0	0	N/A	0.1042%	0.3254%	0	0	0%	0%
46	0	0	N/A	0.1182%	0.3844%	0	0	0%	0%
47	0	0	N/A	0.1336%	0.4435%	0	0	0%	0%
48	0	0	N/A	0.1515%	0.4658%	0	0	0%	0%
49	0	0	N/A	0.1706%	0.4882%	0	0	0%	0%
50	0	0	N/A	0.1835%	0.5105%	0	0	0%	0%
51	0	0	N/A	0.1877%	0.5328%	0	0	0%	0%
52	0	0	N/A	0.1886%	0.5551%	0	0	0%	0%
53	0	0	N/A	0.1888%	0.5775%	0	0	0%	0%
54	0	0	N/A	0.2353%	0.6000%	0	0	0%	0%
55	0	0	N/A	0.2757%	0.6224%	0	0	0%	0%
56	0	0	N/A	0.3173%	0.6448%	0	0	0%	0%
57	0	0	N/A	0.3601%	0.6672%	0	0	0%	0%
58	0	0	N/A	0.3940%	0.7265%	0	0	0%	0%
59	0	0	N/A	0.4434%	0.7858%	0	0	0%	0%
60	0	0	N/A	0.4948%	0.8451%	0	0	0%	0%
61	0	0	N/A	0.5483%	0.9044%	0	0	0%	0%
62	0	0	N/A	0.5910%	0.9637%	0	0	0%	0%
63	0	0	N/A	0.6339%	1.0967%	0	0	0%	0%
64	0	0	N/A	0.7209%	1.2297%	0	0	0%	0%
65	0	0	N/A	0.7970%	1.3628%	0	0	0%	0%
66	0	0	N/A	0.8947%	1.4958%	0	0	0%	0%
67	0	0	N/A	0.9782%	1.6288%	0	0	0%	0%
68	0	2	0.000000	1.0645%	1.8723%	0.0	0.0	0%	0%
69	0	4	0.000000	1.1784%	2.1159%	0.0	0.1	0%	0%
70	0	1	0.000000	1.2724%	2.3594%	0.0	0.0	0%	0%
71	0	4	0.000000	1.4484%	2.6030%	0.1	0.1	0%	0%
72	0	0	N/A	1.6414%	2.8465%	0	0	0%	0%
73	0	1	0.000000	1.8260%	3.2374%	0.0	0.0	0%	0%
74	0	0	N/A	2.0305%	3.6283%	0	0	0%	0%
75	0	0	N/A	2.2714%	4.0191%	0	0	0%	0%
76	0	2	0.000000	2.5261%	4.4100%	0.1	0.1	0%	0%
77	0	4	0.000000	2.7525%	4.8009%	0.1	0.2	0%	0%
78	0	0	N/A	3.0847%	5.3759%	0	0	0%	0%
79	0	2	0.000000	3.3655%	5.9510%	0.1	0.1	0%	0%
80	0	0	N/A	3.7332%	6.5260%	0	0	0%	0%
81	0	0	N/A	4.2964%	7.1011%	0	0	0%	0%
82	0	0	N/A	4.8965%	7.6761%	0	0	0%	0%
83	1	1	1.000000	5.5353%	8.4721%	0.1	0.1	1807%	1180%
84	0	0	N/A	6.1127%	9.2681%	0	0	0%	0%
85	0	0	N/A	6.6246%	10.0641%	0	0	0%	0%
86	0	0	N/A	7.3910%	10.8601%	0	0	0%	0%
87	0	1	0.000000	8.3102%	11.6561%	0.1	0.1	0%	0%
88	1	2	0.500000	9.1692%	12.7099%	0.2	0.3	545%	393%
89	0	0	N/A	9.8983%	13.7637%	0	0	0%	0%
90	0	0	N/A	10.9757%	14.8175%	0	0	0%	0%
91	0	0	N/A	12.6361%	15.8713%	0	0	0%	0%
92	0	0	N/A	14.0621%	16.9251%	0	0	0%	0%
93	0	0	N/A	15.6132%	18.2735%	0	0	0%	0%
94	0	0	N/A	17.2777%	19.6219%	0	0	0%	0%
95	0	0	N/A	19.0720%	20.9703%	0	0	0%	0%
96	0	0	N/A	20.3503%	22.3186%	0	0	0%	0%
97	0	0	N/A	21.6816%	23.6670%	0	0	0%	0%
98	0	0	N/A	22.5836%	25.3468%	0	0	0%	0%
99	0	0	N/A	23.2086%	27.0267%	0	0	0%	0%
Subtotal	2	24				0.7	1.1	283%	176%
100 or more	0	0	N/A	25.4498%	32.0661%	0	0	0%	0%
Total	2	24				0.7	1.1	283%	176%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

TABLE 1C

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (5)	Proposed (6)	Current (3) x (5) (7)	Proposed (3) x (6) (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0000%	0.0749%	0	0	0%	0%
42	0	0	N/A	0.0000%	0.0824%	0	0	0%	0%
43	0	0	N/A	0.0000%	0.0907%	0	0	0%	0%
44	0	0	N/A	0.0000%	0.0996%	0	0	0%	0%
45	0	0	N/A	0.0000%	0.1087%	0	0	0%	0%
46	0	0	N/A	0.0000%	0.1183%	0	0	0%	0%
47	0	0	N/A	0.0000%	0.1283%	0	0	0%	0%
48	0	0	N/A	0.0000%	0.1387%	0	0	0%	0%
49	0	0	N/A	0.0000%	0.1500%	0	0	0%	0%
50	0	0	N/A	0.0000%	0.1622%	0	0	0%	0%
51	0	0	N/A	0.0000%	0.1792%	0	0	0%	0%
52	0	0	N/A	0.0000%	0.1952%	0	0	0%	0%
53	0	0	N/A	0.0000%	0.2135%	0	0	0%	0%
54	0	0	N/A	0.0000%	0.2319%	0	0	0%	0%
55	0	0	N/A	0.0000%	0.2571%	0	0	0%	0%
56	0	19	0.000000	0.5260%	0.2892%	0.1	0.1	0%	0%
57	2	67	0.029851	0.5794%	0.3219%	0.4	0.2	515%	815%
58	0	88	0.000000	0.6335%	0.3591%	0.6	0.4	0%	0%
59	0	122	0.000000	0.6829%	0.4021%	0.8	0.6	0%	0%
60	0	148	0.000000	0.7324%	0.4526%	1.1	0.8	0%	0%
61	2	177	0.011299	0.8220%	0.5148%	1.5	1.0	137%	192%
62	1	187	0.005348	0.9088%	0.5829%	1.7	1.2	59%	81%
63	0	241	0.000000	1.0069%	0.6697%	2.4	1.8	0%	0%
64	4	231	0.017316	1.1009%	0.7547%	2.5	1.9	157%	207%
65	3	391	0.007673	1.1979%	0.8499%	4.7	3.7	64%	81%
66	10	567	0.017637	1.3088%	0.9592%	7.4	6.0	135%	166%
67	9	651	0.013825	1.4132%	1.0650%	9.2	7.8	98%	116%
68	15	691	0.021708	1.6072%	1.1773%	11.1	9.3	135%	161%
69	17	729	0.023320	1.8197%	1.3012%	13.3	11.1	128%	154%
70	10	593	0.016863	2.0271%	1.4660%	12.0	10.1	83%	99%
71	10	525	0.019048	2.2495%	1.6269%	11.8	10.1	85%	99%
72	10	482	0.020747	2.4904%	1.8095%	12.0	10.4	83%	96%
73	8	420	0.019048	2.7675%	2.0113%	11.6	10.2	69%	78%
74	8	339	0.023599	3.0577%	2.2292%	10.4	9.3	77%	86%
75	9	274	0.032847	3.3819%	2.4611%	9.3	8.4	97%	107%
76	10	209	0.047847	3.6786%	2.7115%	7.7	7.3	130%	138%
77	9	143	0.062937	4.0032%	2.9864%	5.7	5.6	157%	160%
78	3	139	0.021583	4.5878%	3.2920%	6.4	6.1	47%	49%
79	9	125	0.072000	5.1316%	3.6344%	6.4	6.2	140%	145%
80	8	110	0.072727	5.7574%	4.0174%	6.3	6.1	126%	131%
81	8	96	0.083333	6.2750%	4.4465%	6.0	6.0	133%	133%
82	6	95	0.063158	6.8004%	4.9293%	6.5	6.7	93%	90%
83	6	82	0.073171	7.6607%	5.4733%	6.3	6.5	96%	92%
84	6	80	0.075000	8.6426%	6.0872%	6.9	7.1	87%	84%
85	6	75	0.080000	9.5359%	6.7815%	7.2	7.5	84%	80%
86	11	81	0.135802	10.4293%	7.5634%	8.4	9.2	130%	120%
87	5	63	0.079365	11.3650%	8.4357%	7.2	8.0	70%	62%
88	11	52	0.211538	12.8241%	9.3959%	6.7	7.4	165%	148%
89	7	42	0.166667	14.4340%	10.4336%	6.1	6.8	115%	103%
90	9	35	0.257143	16.0257%	11.6597%	5.6	6.4	160%	142%
91	2	13	0.153846	17.7342%	12.9469%	2.3	2.7	87%	75%
92	2	21	0.095238	19.6122%	14.2697%	4.1	4.8	49%	41%
93	3	12	0.250000	21.3511%	15.6021%	2.6	3.1	117%	97%
94	2	7	0.285714	23.1317%	16.9206%	1.6	2.0	124%	98%
95	0	3	0.000000	25.1888%	18.2050%	0.8	1.0	0%	0%
96	1	3	0.333333	27.1021%	19.4361%	0.8	1.1	123%	90%
97	1	1	1.000000	28.9236%	20.5957%	0.3	0.4	346%	241%
98	0	3	0.000000	30.9850%	21.4288%	0.9	1.4	0%	0%
99	0	4	0.000000	32.6300%	22.3865%	1.3	2.0	0%	0%
Subtotal	243	8,436				237.9	225.8	102%	108%
100 or more	1	2	0.500000	37.1685%	24.8955%	0.7	1.0	135%	100%
Total	244	8,438				238.6	226.8	102%	108%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3) (5)	Proposed (8) / (3) (6)	Current (7)	Proposed (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	0	N/A			0	0	0%	0%
55-59	2	296	0.006757	0.6347%	0.4174%	1.9	1.2	106%	162%
60-64	7	984	0.007114	0.9358%	0.6888%	9.2	6.8	76%	103%
65-69	54	3,023	0.017863	1.5087%	1.2478%	45.6	37.7	118%	143%
70-74	46	2,353	0.019550	2.4537%	2.1219%	57.7	49.9	80%	92%
75-79	40	882	0.045351	3.9958%	3.7642%	35.2	33.2	113%	120%
80-84	33	462	0.071429	6.9173%	7.0082%	32.0	32.4	103%	102%
85-89	39	310	0.125806	11.3626%	12.4242%	35.2	38.5	111%	101%
90-94	18	88	0.204545	18.4254%	21.5669%	16.2	19.0	111%	95%
95-99	2	14	0.142857	29.2337%	42.2026%	4.1	5.9	49%	34%
100+	1	2	0.500000	37.1685%	50.0000%	0.7	1.0	135%	100%
Total	242	8,414				237.9	225.6	102%	107%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3) (5)	Proposed (8) / (3) (6)	Current (7)	Proposed (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	0	N/A			0	0	0%	0%
55-59	0	0	N/A			0	0	0%	0%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	6	0.000000	1.1404%	2.0347%	0.1	0.1	0%	0%
70-74	0	6	0.000000	1.4820%	2.6681%	0.1	0.2	0%	0%
75-79	0	8	0.000000	2.8492%	4.9907%	0.2	0.4	0%	0%
80-84	1	1	1.000000	5.5353%	8.4721%	0.1	0.1	1807%	1180%
85-89	1	3	0.333333	8.8829%	12.3587%	0.3	0.4	375%	270%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2</b>	<b>24</b>				<b>0.7</b>	<b>1.1</b>	<b>283%</b>	<b>176%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	0	N/A			0	0	0%	0%
55-59	2	296	0.006757	0.6347%	0.4174%	1.9	1.2	106%	162%
60-64	7	984	0.007114	0.9358%	0.6888%	9.2	6.8	76%	103%
65-69	54	3,029	0.017828	1.5080%	1.2494%	45.7	37.8	118%	143%
70-74	46	2,359	0.019500	2.4512%	2.1232%	57.8	50.1	80%	92%
75-79	40	890	0.044944	3.9855%	3.7752%	35.5	33.6	113%	119%
80-84	34	463	0.073434	6.9143%	7.0114%	32.0	32.5	106%	105%
85-89	40	313	0.127796	11.3388%	12.4236%	35.5	38.9	113%	103%
90-94	18	88	0.204545	18.4254%	21.5669%	16.2	19.0	111%	95%
95-99	2	14	0.142857	29.2337%	42.2026%	4.1	5.9	49%	34%
100+	1	2	0.500000	37.1685%	50.0000%	0.7	1.0	135%	100%
Total	244	8,438				238.6	226.8	102%	108%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Deaths</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate</u> <b>(2) / (3)</b> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Current</u> <b>(5)</b>	<u>Proposed</u> <b>(6)</b>	<u>Current</u> <b>(3) x (5)</b> <b>(7)</b>	<u>Proposed</u> <b>(3) x (6)</b> <b>(8)</b>	<u>Current</u> <b>(2) / (7)</b> <b>(9)</b>	<u>Proposed</u> <b>(2) / (8)</b> <b>(10)</b>
41	0	0	N/A	0.1181%	0.0919%	0	0	0%	0%
42	0	0	N/A	0.1307%	0.1007%	0	0	0%	0%
43	0	0	N/A	0.1428%	0.1099%	0	0	0%	0%
44	0	0	N/A	0.1544%	0.1195%	0	0	0%	0%
45	0	0	N/A	0.1657%	0.1295%	0	0	0%	0%
46	0	0	N/A	0.1766%	0.1399%	0	0	0%	0%
47	0	0	N/A	0.1870%	0.1506%	0	0	0%	0%
48	0	0	N/A	0.1970%	0.1616%	0	0	0%	0%
49	0	0	N/A	0.2066%	0.1730%	0	0	0%	0%
50	0	19	0.000000	0.2158%	0.1858%	0.0	0.0	0%	0%
51	1	50	0.020000	0.2807%	0.2005%	0.1	0.1	713%	997%
52	1	84	0.011905	0.3432%	0.2179%	0.3	0.2	347%	546%
53	1	122	0.008197	0.4054%	0.2385%	0.5	0.3	202%	344%
54	1	174	0.005747	0.4662%	0.2633%	0.8	0.5	123%	218%
55	1	216	0.004630	0.5017%	0.2930%	1.1	0.6	92%	158%
56	0	288	0.000000	0.5555%	0.3286%	1.6	0.9	0%	0%
57	7	363	0.019284	0.6099%	0.3697%	2.2	1.3	316%	522%
58	1	433	0.002309	0.6649%	0.4170%	2.9	1.8	35%	55%
59	3	605	0.004959	0.7167%	0.4716%	4.3	2.9	69%	105%
60	11	806	0.013648	0.7688%	0.5344%	6.2	4.3	178%	255%
61	11	983	0.011190	0.8602%	0.6062%	8.5	6.0	130%	185%
62	13	1,115	0.011659	0.9510%	0.6879%	10.6	7.7	123%	169%
63	17	1,273	0.013354	1.0504%	0.7802%	13.4	9.9	127%	171%
64	18	1,290	0.013953	1.1484%	0.8841%	14.8	11.4	122%	158%
65	15	1,406	0.010669	1.2497%	1.0008%	17.6	14.1	85%	107%
66	23	1,489	0.015447	1.3612%	1.1318%	20.3	16.9	113%	136%
67	21	1,484	0.014151	1.4697%	1.2790%	21.8	19.0	96%	111%
68	29	1,385	0.020939	1.6783%	1.4440%	23.2	20.0	125%	145%
69	24	1,303	0.018419	1.9020%	1.6298%	24.8	21.2	97%	113%
70	20	1,083	0.018467	2.1225%	1.8386%	23.0	19.9	87%	100%
71	20	930	0.021505	2.3603%	2.0735%	22.0	19.3	91%	104%
72	16	812	0.019704	2.6060%	2.3377%	21.2	19.0	76%	84%
73	18	689	0.026125	2.8981%	2.6348%	20.0	18.2	90%	99%
74	16	567	0.028219	3.1996%	2.9684%	18.1	16.8	88%	95%
75	23	475	0.048421	3.5280%	3.3425%	16.8	15.9	137%	145%
76	11	398	0.027638	3.8491%	3.7630%	15.3	15.0	72%	73%
77	21	337	0.062315	4.2010%	4.2342%	14.2	14.3	148%	147%
78	12	315	0.038095	4.7570%	4.7619%	15.0	15.0	80%	80%
79	19	294	0.064626	5.3344%	5.3544%	15.7	15.7	121%	121%
80	18	278	0.064748	5.9336%	6.0199%	16.5	16.7	109%	108%
81	16	251	0.063745	6.4475%	6.7668%	16.2	17.0	99%	94%
82	17	240	0.070833	6.9662%	7.6055%	16.7	18.3	102%	93%
83	14	210	0.066667	7.8743%	8.5482%	16.5	18.0	85%	78%
84	10	198	0.050505	8.8266%	9.6078%	17.5	19.0	57%	53%
85	18	174	0.103448	9.7390%	10.7988%	16.9	18.8	106%	96%
86	16	158	0.101266	10.6514%	12.1361%	16.8	19.2	95%	83%
87	11	128	0.085938	11.6222%	13.6376%	14.9	17.5	74%	63%
88	17	99	0.171717	13.1669%	15.3202%	13.0	15.2	130%	112%
89	12	75	0.160000	14.6527%	17.2052%	11.0	12.9	109%	93%
90	14	57	0.245614	16.2196%	19.3163%	9.2	11.0	151%	127%
91	3	27	0.111111	17.9487%	21.6797%	4.8	5.9	62%	51%
92	4	29	0.137931	19.7897%	24.3200%	5.7	7.1	70%	57%
93	4	18	0.222222	21.5444%	27.2626%	3.9	4.9	103%	82%
94	2	13	0.153846	23.3411%	30.5706%	3.0	4.0	66%	50%
95	1	8	0.125000	25.3405%	34.2977%	2.0	2.7	49%	36%
96	1	7	0.142857	27.2653%	38.5104%	1.9	2.7	52%	37%
97	2	4	0.500000	29.0978%	43.2408%	1.2	1.7	172%	116%
98	0	3	0.000000	31.0781%	48.5522%	0.9	1.5	0%	0%
99	0	4	0.000000	32.7280%	51.8074%	1.3	2.1	0%	0%
Subtotal	554	22,769				546.3	524.0	101%	106%
100 or more	1	2	0.500000	37.1685%	51.6818%	0.7	1.0	135%	97%
Total	555	22,771				547.0	525.1	101%	106%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u>	<u>Actual Deaths</u>	<u>Total Exposed</u>	<u>Actual Rate (2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Current</u>	<u>Proposed</u>	<u>Current (3) x (5)</u>	<u>Proposed (3) x (6)</u>	<u>Current (2) / (7)</u>	<u>Proposed (2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
41	0	0	N/A	0.0683%	0.0967%	0	0	0%	0%
42	0	0	N/A	0.0758%	0.1614%	0	0	0%	0%
43	0	0	N/A	0.0851%	0.2261%	0	0	0%	0%
44	0	0	N/A	0.0964%	0.2903%	0	0	0%	0%
45	0	0	N/A	0.1094%	0.3539%	0	0	0%	0%
46	0	0	N/A	0.1245%	0.4165%	0	0	0%	0%
47	0	0	N/A	0.1411%	0.4781%	0	0	0%	0%
48	0	0	N/A	0.1599%	0.4991%	0	0	0%	0%
49	0	0	N/A	0.1801%	0.5195%	0	0	0%	0%
50	0	0	N/A	0.1931%	0.5390%	0	0	0%	0%
51	0	0	N/A	0.1970%	0.5579%	0	0	0%	0%
52	0	0	N/A	0.1967%	0.5760%	0	0	0%	0%
53	0	0	N/A	0.1958%	0.5938%	0	0	0%	0%
54	0	0	N/A	0.2425%	0.6119%	0	0	0%	0%
55	0	0	N/A	0.2825%	0.6310%	0	0	0%	0%
56	0	0	N/A	0.3231%	0.6515%	0	0	0%	0%
57	0	0	N/A	0.3656%	0.6738%	0	0	0%	0%
58	0	0	N/A	0.3999%	0.7354%	0	0	0%	0%
59	0	0	N/A	0.4501%	0.7991%	0	0	0%	0%
60	0	0	N/A	0.5023%	0.8653%	0	0	0%	0%
61	0	0	N/A	0.5566%	0.9332%	0	0	0%	0%
62	0	2	0.000000	0.5999%	1.0025%	0.0	0.0	0%	0%
63	0	2	0.000000	0.6435%	1.1496%	0.0	0.0	0%	0%
64	0	3	0.000000	0.7318%	1.2977%	0.0	0.0	0%	0%
65	0	3	0.000000	0.8091%	1.4463%	0.0	0.0	0%	0%
66	0	3	0.000000	0.9083%	1.5949%	0.0	0.0	0%	0%
67	0	3	0.000000	0.9930%	1.7437%	0.0	0.1	0%	0%
68	0	3	0.000000	1.0806%	2.0106%	0.0	0.1	0%	0%
69	0	5	0.000000	1.1963%	2.2784%	0.1	0.1	0%	0%
70	0	3	0.000000	1.2916%	2.5464%	0.0	0.1	0%	0%
71	0	6	0.000000	1.4748%	2.8147%	0.1	0.2	0%	0%
72	0	2	0.000000	1.6713%	3.0831%	0.0	0.1	0%	0%
73	0	4	0.000000	1.8648%	3.5112%	0.1	0.1	0%	0%
74	0	3	0.000000	2.0738%	3.9388%	0.1	0.1	0%	0%
75	1	3	0.333333	2.3268%	4.3649%	0.1	0.1	1433%	764%
76	0	2	0.000000	2.5877%	4.7904%	0.1	0.1	0%	0%
77	0	5	0.000000	2.8111%	5.2134%	0.1	0.3	0%	0%
78	0	1	0.000000	3.1504%	5.8330%	0.0	0.1	0%	0%
79	0	3	0.000000	3.4372%	6.4503%	0.1	0.2	0%	0%
80	0	1	0.000000	3.8127%	7.0656%	0.0	0.1	0%	0%
81	0	2	0.000000	4.3879%	7.6779%	0.1	0.2	0%	0%
82	0	2	0.000000	5.0008%	8.2878%	0.1	0.2	0%	0%
83	1	2	0.500000	5.6532%	9.1341%	0.1	0.2	884%	547%
84	0	1	0.000000	6.2429%	9.9780%	0.1	0.1	0%	0%
85	0	1	0.000000	6.7453%	10.8194%	0.1	0.1	0%	0%
86	0	1	0.000000	7.5029%	11.6572%	0.1	0.1	0%	0%
87	0	1	0.000000	8.4107%	12.4912%	0.1	0.1	0%	0%
88	1	2	0.500000	9.2801%	13.5940%	0.2	0.3	539%	368%
89	0	0	N/A	9.9879%	14.6881%	0	0	0%	0%
90	0	0	N/A	11.0751%	15.7723%	0	0	0%	0%
91	0	0	N/A	12.7505%	16.8458%	0	0	0%	0%
92	0	0	N/A	14.1894%	17.9039%	0	0	0%	0%
93	0	0	N/A	15.7073%	19.2517%	0	0	0%	0%
94	0	0	N/A	17.3818%	20.5947%	0	0	0%	0%
95	1	1	1.000000	19.1869%	21.9385%	0.2	0.2	521%	456%
96	0	0	N/A	20.4729%	23.2924%	0	0	0%	0%
97	0	0	N/A	21.7468%	24.6395%	0	0	0%	0%
98	0	0	N/A	22.6515%	26.3243%	0	0	0%	0%
99	0	0	N/A	23.2784%	28.0036%	0	0	0%	0%
Subtotal	4	70				1.9	3.2	208%	124%
100 or more	0	0	N/A	25.4498%	33.2252%	0	0	0%	0%
Total	4	70				1.9	3.2	208%	124%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN AND WOMEN**

TABLE 1C

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Current	Proposed	Current	Proposed	Current	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
42	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
43	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
44	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
45	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
46	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
47	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
48	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
49	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
50	0	19	0.000000	0.2158%	0.1858%	0.0	0.0	0%	0%
51	1	50	0.020000	0.2807%	0.2005%	0.1	0.1	713%	997%
52	1	84	0.011905	0.3432%	0.2179%	0.3	0.2	347%	546%
53	1	122	0.008197	0.4054%	0.2385%	0.5	0.3	202%	344%
54	1	174	0.005747	0.4662%	0.2633%	0.8	0.5	123%	218%
55	1	216	0.004630	0.5017%	0.2930%	1.1	0.6	92%	158%
56	0	288	0.000000	0.5555%	0.3286%	1.6	0.9	0%	0%
57	7	363	0.019284	0.6099%	0.3697%	2.2	1.3	316%	522%
58	1	433	0.002309	0.6649%	0.4170%	2.9	1.8	35%	55%
59	3	605	0.004959	0.7167%	0.4716%	4.3	2.9	69%	105%
60	11	806	0.013648	0.7688%	0.5344%	6.2	4.3	178%	255%
61	11	983	0.011190	0.8602%	0.6062%	8.5	6.0	130%	185%
62	13	1,117	0.011638	0.9504%	0.6885%	10.6	7.7	122%	169%
63	17	1,275	0.013333	1.0498%	0.7808%	13.4	10.0	127%	171%
64	18	1,293	0.013921	1.1474%	0.8851%	14.8	11.4	121%	157%
65	15	1,409	0.010646	1.2488%	1.0017%	17.6	14.1	85%	106%
66	23	1,492	0.015416	1.3603%	1.1327%	20.3	16.9	113%	136%
67	21	1,487	0.014122	1.4687%	1.2799%	21.8	19.0	96%	110%
68	29	1,388	0.020893	1.6770%	1.4452%	23.3	20.1	125%	145%
69	24	1,308	0.018349	1.8993%	1.6323%	24.8	21.4	97%	112%
70	20	1,086	0.018416	2.1202%	1.8406%	23.0	20.0	87%	100%
71	20	936	0.021368	2.3546%	2.0783%	22.0	19.5	91%	103%
72	16	814	0.019656	2.6037%	2.3396%	21.2	19.0	75%	84%
73	18	693	0.025974	2.8921%	2.6398%	20.0	18.3	90%	98%
74	16	570	0.028070	3.1937%	2.9735%	18.2	16.9	88%	94%
75	24	478	0.050209	3.5205%	3.3489%	16.8	16.0	143%	150%
76	11	400	0.027500	3.8428%	3.7681%	15.4	15.1	72%	73%
77	21	342	0.061404	4.1807%	4.2485%	14.3	14.5	147%	145%
78	12	316	0.037975	4.7519%	4.7653%	15.0	15.1	80%	80%
79	19	297	0.063973	5.3152%	5.3654%	15.8	15.9	120%	119%
80	18	279	0.064516	5.9260%	6.0236%	16.5	16.8	109%	107%
81	16	253	0.063241	6.4312%	6.7740%	16.3	17.1	98%	93%
82	17	242	0.070248	6.9500%	7.6112%	16.8	18.4	101%	92%
83	15	212	0.070755	7.8533%	8.5538%	16.6	18.1	90%	83%
84	10	199	0.050251	8.8136%	9.6097%	17.5	19.1	57%	52%
85	18	175	0.102857	9.7219%	10.7989%	17.0	18.9	106%	95%
86	16	159	0.100629	10.6316%	12.1331%	16.9	19.3	95%	83%
87	11	129	0.085271	11.5973%	13.6287%	15.0	17.6	74%	63%
88	18	101	0.178218	13.0899%	15.2861%	13.2	15.4	136%	117%
89	12	75	0.160000	14.6527%	17.2052%	11.0	12.9	109%	93%
90	14	57	0.245614	16.2196%	19.3163%	9.2	11.0	151%	127%
91	3	27	0.111111	17.9487%	21.6797%	4.8	5.9	62%	51%
92	4	29	0.137931	19.7897%	24.3200%	5.7	7.1	70%	57%
93	4	18	0.222222	21.5444%	27.2626%	3.9	4.9	103%	82%
94	2	13	0.153846	23.3411%	30.5706%	3.0	4.0	66%	50%
95	2	9	0.222222	24.6568%	32.9244%	2.2	3.0	90%	67%
96	1	7	0.142857	27.2653%	38.5104%	1.9	2.7	52%	37%
97	2	4	0.500000	29.0978%	43.2408%	1.2	1.7	172%	116%
98	0	3	0.000000	31.0781%	48.5522%	0.9	1.5	0%	0%
99	0	4	0.000000	32.7280%	51.8074%	1.3	2.1	0%	0%
Subtotal	558	22,839				548.2	527.2	102%	106%
100 or more	1	2	0.500000	37.1685%	51.6818%	0.7	1.0	135%	97%
Total	559	22,841				549.0	528.3	102%	106%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3) (5)	Proposed (8) / (3) (6)	Current (7)	Proposed (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	4	449	0.008909	0.3954%	0.2378%	1.8	1.1	225%	375%
55-59	12	1,905	0.006299	0.6358%	0.3979%	12.1	7.6	99%	158%
60-64	70	5,467	0.012804	0.9775%	0.7184%	53.4	39.3	131%	178%
65-69	112	7,067	0.015848	1.5237%	1.2896%	107.7	91.1	104%	123%
70-74	90	4,081	0.022053	2.5535%	2.2828%	104.2	93.2	86%	97%
75-79	86	1,819	0.047279	4.2277%	4.1707%	76.9	75.9	112%	113%
80-84	75	1,177	0.063721	7.0867%	7.5572%	83.4	88.9	90%	84%
85-89	74	634	0.116719	11.4631%	13.1691%	72.7	83.5	102%	89%
90-94	27	144	0.187500	18.5713%	22.7764%	26.7	32.8	101%	82%
95-99	4	26	0.153846	28.2353%	41.1463%	7.3	10.7	54%	37%
100+	1	2	0.500000	37.1685%	51.6818%	0.7	1.0	135%	97%
Total	555	22,771				547.0	525.1	101%	106%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Rate		Expected Deaths		Actual/Expected	
				Current (7) / (3) (5)	Proposed (8) / (3) (6)	Current (7)	Proposed (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	0	N/A			0	0	0%	0%
55-59	0	0	N/A			0	0	0%	0%
60-64	0	7	0.000000	0.6689%	1.1710%	0.0	0.1	0%	0%
65-69	0	17	0.000000	1.0209%	1.8693%	0.2	0.3	0%	0%
70-74	0	18	0.000000	1.6526%	3.1419%	0.3	0.6	0%	0%
75-79	1	14	0.071429	2.8338%	5.2804%	0.4	0.7	252%	135%
80-84	1	8	0.125000	5.0174%	8.4054%	0.4	0.7	249%	149%
85-89	1	5	0.200000	8.2438%	12.4312%	0.4	0.6	243%	161%
90-94	0	0	N/A			0	0	0%	0%
95-99	1	1	1.000000	19.1869%	21.9385%	0.2	0.2	521%	456%
100+	0	0	N/A			0	0	0%	0%
Total	4	70				1.9	3.2	208%	124%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

**TABLE 1C GROUPED**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Rate		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Current (7) / (3) (5)	Proposed (8) / (3) (6)	Current (7)	Proposed (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	4	449	0.008909	0.3954%	0.2378%	1.8	1.1	225%	375%
55-59	12	1,905	0.006299	0.6358%	0.3979%	12.1	7.6	99%	158%
60-64	70	5,474	0.012788	0.9771%	0.7190%	53.5	39.4	131%	178%
65-69	112	7,084	0.015810	1.5225%	1.2910%	107.9	91.5	104%	122%
70-74	90	4,099	0.021957	2.5495%	2.2866%	104.5	93.7	86%	96%
75-79	87	1,833	0.047463	4.2171%	4.1791%	77.3	76.6	113%	114%
80-84	76	1,185	0.064135	7.0727%	7.5629%	83.8	89.6	91%	85%
85-89	75	639	0.117371	11.4379%	13.1633%	73.1	84.1	103%	89%
90-94	27	144	0.187500	18.5713%	22.7764%	26.7	32.8	101%	82%
95-99	5	27	0.185185	27.9002%	40.4349%	7.5	10.9	66%	46%
100+	1	2	0.500000	37.1685%	51.6818%	0.7	1.0	135%	97%
Total	559	22,841				549.0	528.3	102%	106%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1D Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	10-YEAR PERIOD ENDING 6/30/2013 Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	2,531	49	36.1	136%	1.9360%	1.4279%
2005	2,482	54	38.0	142%	2.1757%	1.5293%
2006	2,428	55	40.2	137%	2.2652%	1.6558%
2007	2,373	51	43.0	119%	2.1492%	1.8108%
2008	2,321	52	45.5	114%	2.2404%	1.9616%
2009	2,268	54	48.0	113%	2.3810%	2.1157%
2010	2,213	65	50.4	129%	2.9372%	2.2766%
2011	2,134	56	51.9	108%	2.6242%	2.4302%
2012	2,078	61	48.7	125%	2.9355%	2.3439%
2013	2,013	62	55.6	112%	3.0800%	2.7621%
Total	22,841	559	457.3	122%	2.4474%	2.0022%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

TABLE 2A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current	Proposed	Current	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	5	0.000000	0.1831%	0.0891%	0.0	0.0	0%	0%
42	0	9	0.000000	0.1997%	0.1482%	0.0	0.0	0%	0%
43	0	7	0.000000	0.2159%	0.2073%	0.0	0.0	0%	0%
44	0	9	0.000000	0.2319%	0.2663%	0.0	0.0	0%	0%
45	1	30	0.033333	0.2476%	0.3254%	0.1	0.1	1346%	1024%
46	0	45	0.000000	0.2543%	0.3844%	0.1	0.2	0%	0%
47	0	52	0.000000	0.2597%	0.4435%	0.1	0.2	0%	0%
48	1	46	0.021739	0.2639%	0.4658%	0.1	0.2	824%	467%
49	0	75	0.000000	0.3334%	0.4882%	0.3	0.4	0%	0%
50	0	72	0.000000	0.3956%	0.5105%	0.3	0.4	0%	0%
51	0	80	0.000000	0.4504%	0.5328%	0.4	0.4	0%	0%
52	0	78	0.000000	0.4983%	0.5551%	0.4	0.4	0%	0%
53	1	74	0.013514	0.5168%	0.5775%	0.4	0.4	261%	234%
54	0	72	0.000000	0.5434%	0.6000%	0.4	0.4	0%	0%
55	0	56	0.000000	0.5949%	0.6224%	0.3	0.3	0%	0%
56	1	78	0.012821	0.6505%	0.6448%	0.5	0.5	197%	199%
57	1	72	0.013889	0.6920%	0.6672%	0.5	0.5	201%	208%
58	1	103	0.009709	0.7324%	0.7265%	0.8	0.7	133%	134%
59	2	82	0.024390	0.8330%	0.7858%	0.7	0.6	293%	310%
60	0	105	0.000000	0.9209%	0.8451%	1.0	0.9	0%	0%
61	0	107	0.000000	1.0203%	0.9044%	1.1	1.0	0%	0%
62	1	137	0.007299	1.1155%	0.9637%	1.5	1.3	65%	76%
63	3	129	0.023256	1.1979%	1.0967%	1.5	1.4	194%	212%
64	4	145	0.027586	1.3262%	1.2297%	1.9	1.8	208%	224%
65	4	227	0.017621	1.4319%	1.3628%	3.3	3.1	123%	129%
66	5	290	0.017241	1.5878%	1.4958%	4.6	4.3	109%	115%
67	6	318	0.018868	1.7994%	1.6288%	5.7	5.2	105%	116%
68	6	331	0.018127	2.0018%	1.8723%	6.6	6.2	91%	97%
69	6	296	0.020270	2.2261%	2.1159%	6.6	6.3	91%	96%
70	5	262	0.019084	2.4904%	2.3594%	6.5	6.2	77%	81%
71	1	211	0.004739	2.7697%	2.6030%	5.8	5.5	17%	18%
72	6	191	0.031414	3.0577%	2.8465%	5.8	5.4	103%	110%
73	7	177	0.039548	3.4268%	3.2374%	6.1	5.7	115%	122%
74	4	160	0.025000	3.7387%	3.6283%	6.0	5.8	67%	69%
75	5	114	0.043860	4.0928%	4.0191%	4.7	4.6	107%	109%
76	2	79	0.025316	4.7102%	4.4100%	3.7	3.5	54%	57%
77	2	63	0.031746	5.2979%	4.8009%	3.3	3.0	60%	66%
78	3	51	0.058824	5.9107%	5.3759%	3.0	2.7	100%	109%
79	5	48	0.104167	6.4420%	5.9510%	3.1	2.9	162%	175%
80	2	44	0.045455	6.9811%	6.5260%	3.1	2.9	65%	70%
81	0	18	0.000000	7.7883%	7.1011%	1.4	1.3	0%	0%
82	4	44	0.090909	8.7565%	7.6761%	3.9	3.4	104%	118%
83	3	27	0.111111	9.6617%	8.4721%	2.6	2.3	115%	131%
84	2	33	0.060606	10.4293%	9.2681%	3.4	3.1	58%	65%
85	4	29	0.137931	11.5646%	10.0641%	3.4	2.9	119%	137%
86	4	21	0.190476	13.3141%	10.8601%	2.8	2.3	143%	175%
87	1	20	0.050000	14.6239%	11.6561%	2.9	2.3	34%	43%
88	2	10	0.200000	16.2364%	12.7099%	1.6	1.3	123%	157%
89	3	13	0.230769	17.9673%	13.7637%	2.3	1.8	128%	168%
90	1	2	0.500000	19.8697%	14.8175%	0.4	0.3	252%	337%
91	2	7	0.285714	21.6314%	15.8713%	1.5	1.1	132%	180%
92	0	2	0.000000	23.1317%	16.9251%	0.5	0.3	0%	0%
93	0	1	0.000000	25.5192%	18.2735%	0.3	0.2	0%	0%
94	1	4	0.250000	27.4576%	19.6219%	1.1	0.8	91%	127%
95	0	2	0.000000	28.9236%	20.9703%	0.6	0.4	0%	0%
96	0	1	0.000000	31.3910%	22.3186%	0.3	0.2	0%	0%
97	0	1	0.000000	33.0576%	23.6670%	0.3	0.2	0%	0%
98	0	0	N/A	34.0444%	25.3468%	0	0	0%	0%
99	0	0	N/A	36.3323%	27.0267%	0	0	0%	0%
Subtotal	112	4,765				119.6	109.8	94%	102%
100 or more	0	0	N/A	39.2003%	32.0661%	0	0	0%	0%
Total	112	4,765				119.6	109.8	94%	102%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (5)	Proposed (6)	Current (3) x (5) (7)	Proposed (3) x (6) (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0813%	0.0891%	0	0	0%	0%
42	0	1	0.000000	0.0921%	0.1482%	0.0	0.0	0%	0%
43	0	5	0.000000	0.1050%	0.2073%	0.0	0.0	0%	0%
44	0	8	0.000000	0.1201%	0.2663%	0.0	0.0	0%	0%
45	0	6	0.000000	0.1358%	0.3254%	0.0	0.0	0%	0%
46	0	6	0.000000	0.1527%	0.3844%	0.0	0.0	0%	0%
47	0	7	0.000000	0.1706%	0.4435%	0.0	0.0	0%	0%
48	0	12	0.000000	0.1906%	0.4658%	0.0	0.1	0%	0%
49	0	14	0.000000	0.2149%	0.4882%	0.0	0.1	0%	0%
50	0	12	0.000000	0.2431%	0.5105%	0.0	0.1	0%	0%
51	0	16	0.000000	0.2639%	0.5328%	0.0	0.1	0%	0%
52	0	14	0.000000	0.3093%	0.5551%	0.0	0.1	0%	0%
53	0	9	0.000000	0.3486%	0.5775%	0.0	0.1	0%	0%
54	0	16	0.000000	0.4000%	0.6000%	0.1	0.1	0%	0%
55	0	8	0.000000	0.4254%	0.6224%	0.0	0.0	0%	0%
56	0	6	0.000000	0.4297%	0.6448%	0.0	0.0	0%	0%
57	0	4	0.000000	0.4460%	0.6672%	0.0	0.0	0%	0%
58	0	3	0.000000	0.4948%	0.7265%	0.0	0.0	0%	0%
59	0	1	0.000000	0.5483%	0.7858%	0.0	0.0	0%	0%
60	0	3	0.000000	0.5910%	0.8451%	0.0	0.0	0%	0%
61	0	1	0.000000	0.6339%	0.9044%	0.0	0.0	0%	0%
62	0	3	0.000000	0.7209%	0.9637%	0.0	0.0	0%	0%
63	0	0	N/A	0.7970%	1.0967%	0	0	0%	0%
64	0	2	0.000000	0.8947%	1.2297%	0.0	0.0	0%	0%
65	0	4	0.000000	0.9782%	1.3628%	0.0	0.1	0%	0%
66	0	4	0.000000	1.0645%	1.4958%	0.0	0.1	0%	0%
67	0	3	0.000000	1.1784%	1.6288%	0.0	0.0	0%	0%
68	0	7	0.000000	1.2724%	1.8723%	0.1	0.1	0%	0%
69	0	2	0.000000	1.4296%	2.1159%	0.0	0.0	0%	0%
70	0	2	0.000000	1.6201%	2.3594%	0.0	0.0	0%	0%
71	0	1	0.000000	1.8022%	2.6030%	0.0	0.0	0%	0%
72	0	0	N/A	2.0041%	2.8465%	0	0	0%	0%
73	0	0	N/A	2.2419%	3.2374%	0	0	0%	0%
74	0	0	N/A	2.4932%	3.6283%	0	0	0%	0%
75	0	0	N/A	2.7888%	4.0191%	0	0	0%	0%
76	0	0	N/A	3.1254%	4.4100%	0	0	0%	0%
77	0	1	0.000000	3.3655%	4.8009%	0.0	0.0	0%	0%
78	0	2	0.000000	3.7332%	5.3759%	0.1	0.1	0%	0%
79	0	0	N/A	4.2964%	5.9510%	0	0	0%	0%
80	0	1	0.000000	4.8965%	6.5260%	0.0	0.1	0%	0%
81	0	0	N/A	5.5353%	7.1011%	0	0	0%	0%
82	0	0	N/A	6.1127%	7.6761%	0	0	0%	0%
83	0	0	N/A	6.7119%	8.4721%	0	0	0%	0%
84	0	0	N/A	7.5868%	9.2681%	0	0	0%	0%
85	0	0	N/A	8.5302%	10.0641%	0	0	0%	0%
86	0	0	N/A	9.2897%	10.8601%	0	0	0%	0%
87	0	0	N/A	10.0282%	11.6561%	0	0	0%	0%
88	0	0	N/A	11.1199%	12.7099%	0	0	0%	0%
89	0	0	N/A	12.6361%	13.7637%	0	0	0%	0%
90	0	0	N/A	14.0621%	14.8175%	0	0	0%	0%
91	0	0	N/A	15.8180%	15.8713%	0	0	0%	0%
92	0	0	N/A	17.0938%	16.9251%	0	0	0%	0%
93	0	0	N/A	18.4000%	18.2735%	0	0	0%	0%
94	0	0	N/A	19.6185%	19.6219%	0	0	0%	0%
95	0	0	N/A	20.7285%	20.9703%	0	0	0%	0%
96	0	0	N/A	21.7157%	22.3186%	0	0	0%	0%
97	0	0	N/A	22.7838%	23.6670%	0	0	0%	0%
98	0	0	N/A	23.3830%	25.3468%	0	0	0%	0%
99	0	0	N/A	23.7058%	27.0267%	0	0	0%	0%
Subtotal	0	184				0.9	1.5	0%	0%
100 or more	0	0	N/A	25.4498%	32.0661%	0	0	0%	0%
Total	0	184				0.9	1.5	0%	0%



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN AND WOMEN**

TABLE 2C

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (5)	Proposed (6)	Current (3) x (5) (7)	Proposed (3) x (6) (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	5	0.000000	0.1831%	0.0891%	0.0	0.0	0%	0%
42	0	10	0.000000	0.1889%	0.1482%	0.0	0.0	0%	0%
43	0	12	0.000000	0.1697%	0.2073%	0.0	0.0	0%	0%
44	0	17	0.000000	0.1793%	0.2663%	0.0	0.0	0%	0%
45	1	36	0.027778	0.2290%	0.3254%	0.1	0.1	1213%	854%
46	0	51	0.000000	0.2423%	0.3844%	0.1	0.2	0%	0%
47	0	59	0.000000	0.2491%	0.4435%	0.1	0.3	0%	0%
48	1	58	0.017241	0.2487%	0.4658%	0.1	0.3	693%	370%
49	0	89	0.000000	0.3148%	0.4882%	0.3	0.4	0%	0%
50	0	84	0.000000	0.3738%	0.5105%	0.3	0.4	0%	0%
51	0	96	0.000000	0.4193%	0.5328%	0.4	0.5	0%	0%
52	0	92	0.000000	0.4695%	0.5551%	0.4	0.5	0%	0%
53	1	83	0.012048	0.4986%	0.5775%	0.4	0.5	242%	209%
54	0	88	0.000000	0.5173%	0.6000%	0.5	0.5	0%	0%
55	0	64	0.000000	0.5737%	0.6224%	0.4	0.4	0%	0%
56	1	84	0.011905	0.6347%	0.6448%	0.5	0.5	188%	185%
57	1	76	0.013158	0.6791%	0.6672%	0.5	0.5	194%	197%
58	1	106	0.009434	0.7257%	0.7265%	0.8	0.8	130%	130%
59	2	83	0.024096	0.8296%	0.7858%	0.7	0.7	290%	307%
60	0	108	0.000000	0.9117%	0.8451%	1.0	0.9	0%	0%
61	0	108	0.000000	1.0167%	0.9044%	1.1	1.0	0%	0%
62	1	140	0.007143	1.1070%	0.9637%	1.5	1.3	65%	74%
63	3	129	0.023256	1.1979%	1.0967%	1.5	1.4	194%	212%
64	4	147	0.027211	1.3203%	1.2297%	1.9	1.8	206%	221%
65	4	231	0.017316	1.4240%	1.3628%	3.3	3.1	122%	127%
66	5	294	0.017007	1.5807%	1.4958%	4.6	4.4	108%	114%
67	6	321	0.018692	1.7936%	1.6288%	5.8	5.2	104%	115%
68	6	338	0.017751	1.9867%	1.8723%	6.7	6.3	89%	95%
69	6	298	0.020134	2.2208%	2.1159%	6.6	6.3	91%	95%
70	5	264	0.018939	2.4838%	2.3594%	6.6	6.2	76%	80%
71	1	212	0.004717	2.7651%	2.6030%	5.9	5.5	17%	18%
72	6	191	0.031414	3.0577%	2.8465%	5.8	5.4	103%	110%
73	7	177	0.039548	3.4268%	3.2374%	6.1	5.7	115%	122%
74	4	160	0.025000	3.7387%	3.6283%	6.0	5.8	67%	69%
75	5	114	0.043860	4.0928%	4.0191%	4.7	4.6	107%	109%
76	2	79	0.025316	4.7102%	4.4100%	3.7	3.5	54%	57%
77	2	64	0.031250	5.2677%	4.8009%	3.4	3.1	59%	65%
78	3	53	0.056604	5.8285%	5.3759%	3.1	2.8	97%	105%
79	5	48	0.104167	6.4420%	5.9510%	3.1	2.9	162%	175%
80	2	45	0.044444	6.9348%	6.5260%	3.1	2.9	64%	68%
81	0	18	0.000000	7.7883%	7.1011%	1.4	1.3	0%	0%
82	4	44	0.090909	8.7565%	7.6761%	3.9	3.4	104%	118%
83	3	27	0.111111	9.6617%	8.4721%	2.6	2.3	115%	131%
84	2	33	0.060606	10.4293%	9.2681%	3.4	3.1	58%	65%
85	4	29	0.137931	11.5646%	10.0641%	3.4	2.9	119%	137%
86	4	21	0.190476	13.3141%	10.8601%	2.8	2.3	143%	175%
87	1	20	0.050000	14.6239%	11.6561%	2.9	2.3	34%	43%
88	2	10	0.200000	16.2364%	12.7099%	1.6	1.3	123%	157%
89	3	13	0.230769	17.9673%	13.7637%	2.3	1.8	128%	168%
90	1	2	0.500000	19.8697%	14.8175%	0.4	0.3	252%	337%
91	2	7	0.285714	21.6314%	15.8713%	1.5	1.1	132%	180%
92	0	2	0.000000	23.1317%	16.9251%	0.5	0.3	0%	0%
93	0	1	0.000000	25.5192%	18.2735%	0.3	0.2	0%	0%
94	1	4	0.250000	27.4576%	19.6219%	1.1	0.8	91%	127%
95	0	2	0.000000	28.9236%	20.9703%	0.6	0.4	0%	0%
96	0	1	0.000000	31.3910%	22.3186%	0.3	0.2	0%	0%
97	0	1	0.000000	33.0576%	23.6670%	0.3	0.2	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	112	4,949				120.6	111.3	93%	101%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	112	4,949				120.6	111.3	93%	101%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Current</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Current</u> (7)	<u>Proposed</u> (8)	<u>Current</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	30	0.000000	0.2104%	0.1876%	0.1	0.1	0%	0%
45-49	2	248	0.008065	0.2803%	0.4361%	0.7	1.1	288%	185%
50-54	1	376	0.002660	0.4807%	0.5548%	1.8	2.1	55%	48%
55-59	5	391	0.012788	0.7100%	0.6968%	2.8	2.7	180%	184%
60-64	8	623	0.012841	1.1325%	1.0230%	7.1	6.4	113%	126%
65-69	27	1,462	0.018468	1.8326%	1.7149%	26.8	25.1	101%	108%
70-74	23	1,001	0.022977	3.0226%	2.8617%	30.3	28.6	76%	80%
75-79	17	355	0.047887	5.0229%	4.7010%	17.8	16.7	95%	102%
80-84	11	166	0.066265	8.6607%	7.7549%	14.4	12.9	77%	85%
85-89	14	93	0.150538	14.0149%	11.3879%	13.0	10.6	107%	132%
90-94	4	16	0.250000	23.2983%	16.9591%	3.7	2.7	107%	147%
95-99	0	4	0.000000	30.5740%	21.9815%	1.2	0.9	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>112</b>	<b>4,765</b>				<b>119.6</b>	<b>109.8</b>	<b>94%</b>	<b>102%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3) (5)	Proposed (8) / (3) (6)	Current (7)	Proposed (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	14	0.000000	0.1127%	0.2368%	0.0	0.0	0%	0%
45-49	0	45	0.000000	0.1827%	0.4397%	0.1	0.2	0%	0%
50-54	0	67	0.000000	0.3135%	0.5555%	0.2	0.4	0%	0%
55-59	0	22	0.000000	0.4454%	0.6583%	0.1	0.1	0%	0%
60-64	0	9	0.000000	0.7066%	0.9767%	0.1	0.1	0%	0%
65-69	0	20	0.000000	1.1736%	1.6829%	0.2	0.3	0%	0%
70-74	0	3	0.000000	1.6808%	2.4406%	0.1	0.1	0%	0%
75-79	0	3	0.000000	3.6106%	5.1843%	0.1	0.2	0%	0%
80-84	0	1	0.000000	4.8965%	6.5260%	0.0	0.1	0%	0%
85-89	0	0	N/A			0	0	0%	0%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	0	184				0.9	1.5	0%	0%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3) (5)	Proposed (8) / (3) (6)	Current (7)	Proposed (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	44	0.000000	0.1793%	0.2032%	0.1	0.1	0%	0%
45-49	2	293	0.006826	0.2653%	0.4367%	0.8	1.3	257%	156%
50-54	1	443	0.002257	0.4554%	0.5549%	2.0	2.5	50%	41%
55-59	5	413	0.012107	0.6959%	0.6947%	2.9	2.9	174%	174%
60-64	8	632	0.012658	1.1264%	1.0223%	7.1	6.5	112%	124%
65-69	27	1,482	0.018219	1.8237%	1.7144%	27.0	25.4	100%	106%
70-74	23	1,004	0.022908	3.0186%	2.8605%	30.3	28.7	76%	80%
75-79	17	358	0.047486	5.0110%	4.7050%	17.9	16.8	95%	101%
80-84	11	167	0.065868	8.6382%	7.7475%	14.4	12.9	76%	85%
85-89	14	93	0.150538	14.0149%	11.3879%	13.0	10.6	107%	132%
90-94	4	16	0.250000	23.2983%	16.9591%	3.7	2.7	107%	147%
95-99	0	4	0.000000	30.5740%	21.9815%	1.2	0.9	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	112	4,949				120.6	111.3	93%	101%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Current	Proposed	Current	Proposed	Current	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	56	0.000000	0.1881%	0.0967%	0.1	0.1	0%	0%
42	0	74	0.000000	0.2058%	0.1614%	0.2	0.1	0%	0%
43	0	94	0.000000	0.2232%	0.2261%	0.2	0.2	0%	0%
44	0	112	0.000000	0.2404%	0.2903%	0.3	0.3	0%	0%
45	1	139	0.007194	0.2576%	0.3539%	0.4	0.5	279%	203%
46	0	151	0.000000	0.2653%	0.4165%	0.4	0.6	0%	0%
47	0	175	0.000000	0.2718%	0.4781%	0.5	0.8	0%	0%
48	1	162	0.006173	0.2770%	0.4991%	0.4	0.8	223%	124%
49	2	190	0.010526	0.3510%	0.5195%	0.7	1.0	300%	203%
50	0	180	0.000000	0.4178%	0.5390%	0.8	1.0	0%	0%
51	1	199	0.005025	0.4771%	0.5579%	0.9	1.1	105%	90%
52	1	204	0.004902	0.5294%	0.5760%	1.1	1.2	93%	85%
53	1	204	0.004902	0.5490%	0.5938%	1.1	1.2	89%	83%
54	2	219	0.009132	0.5774%	0.6119%	1.3	1.3	158%	149%
55	0	220	0.000000	0.6301%	0.6310%	1.4	1.4	0%	0%
56	3	265	0.011321	0.6870%	0.6515%	1.8	1.7	165%	174%
57	1	257	0.003891	0.7285%	0.6738%	1.9	1.7	53%	58%
58	1	317	0.003155	0.7688%	0.7354%	2.4	2.3	41%	43%
59	4	363	0.011019	0.8743%	0.7991%	3.2	2.9	126%	138%
60	4	464	0.008621	0.9666%	0.8653%	4.5	4.0	89%	100%
61	3	517	0.005803	1.0676%	0.9332%	5.5	4.8	54%	62%
62	6	590	0.010169	1.1672%	1.0025%	6.9	5.9	87%	101%
63	7	624	0.011218	1.2497%	1.1496%	7.8	7.2	90%	98%
64	13	642	0.020249	1.3835%	1.2977%	8.9	8.3	146%	156%
65	8	677	0.011817	1.4938%	1.4463%	10.1	9.8	79%	82%
66	11	693	0.015873	1.6513%	1.5949%	11.4	11.1	96%	100%
67	17	680	0.025000	1.8714%	1.7437%	12.7	11.9	134%	143%
68	13	645	0.020155	2.0883%	2.0106%	13.5	13.0	97%	100%
69	12	555	0.021622	2.3223%	2.2784%	12.9	12.6	93%	95%
70	10	476	0.021008	2.6060%	2.5464%	12.4	12.1	81%	83%
71	9	395	0.022785	2.8981%	2.8147%	11.4	11.1	79%	81%
72	11	337	0.032641	3.1996%	3.0831%	10.8	10.4	102%	106%
73	12	293	0.040956	3.5857%	3.5112%	10.5	10.3	114%	117%
74	9	245	0.036735	3.9121%	3.9388%	9.6	9.6	94%	93%
75	6	191	0.031414	4.2697%	4.3649%	8.2	8.3	74%	72%
76	4	165	0.024242	4.9137%	4.7904%	8.1	7.9	49%	51%
77	12	146	0.082192	5.5100%	5.2134%	8.0	7.6	149%	158%
78	10	123	0.081301	6.1287%	5.8330%	7.5	7.2	133%	139%
79	6	105	0.057143	6.6593%	6.4503%	7.0	6.8	86%	89%
80	9	112	0.080357	7.1948%	7.0656%	8.1	7.9	112%	114%
81	4	79	0.050633	8.0024%	7.6779%	6.3	6.1	63%	66%
82	7	95	0.073684	8.9701%	8.2878%	8.5	7.9	82%	89%
83	6	71	0.084507	9.8973%	9.1341%	7.0	6.5	85%	93%
84	5	69	0.072464	10.6514%	9.9780%	7.3	6.9	68%	73%
85	9	58	0.155172	11.8109%	10.8194%	6.9	6.3	131%	143%
86	4	40	0.100000	13.5976%	11.6572%	5.4	4.7	74%	86%
87	4	37	0.108108	14.8903%	12.4912%	5.5	4.6	73%	87%
88	4	22	0.181818	16.4824%	13.5940%	3.6	3.0	110%	134%
89	5	21	0.238095	18.2395%	14.6881%	3.8	3.1	131%	162%
90	1	7	0.142857	20.1100%	15.7723%	1.4	1.1	71%	91%
91	3	10	0.300000	21.8931%	16.8458%	2.2	1.7	137%	178%
92	0	4	0.000000	23.3411%	17.9039%	0.9	0.7	0%	0%
93	0	2	0.000000	25.7503%	19.2517%	0.5	0.4	0%	0%
94	1	4	0.250000	27.7062%	20.5947%	1.1	0.8	90%	121%
95	0	2	0.000000	29.0978%	21.9385%	0.6	0.4	0%	0%
96	0	1	0.000000	31.5801%	23.2924%	0.3	0.2	0%	0%
97	0	1	0.000000	33.2567%	24.6395%	0.3	0.2	0%	0%
98	0	0	N/A	34.1468%	26.3243%	0	0	0%	0%
99	0	0	N/A	36.4415%	28.0036%	0	0	0%	0%
Subtotal	263	12,779				276.6	262.8	95%	100%
100 or more	0	0	N/A	39.2003%	33.2252%	0	0	0%	0%
Total	263	12,779				276.6	262.8	95%	100%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

TABLE 2B				10-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (5)	Proposed (6)	Current (3) x (5) (7)	Proposed (3) x (6) (8)	Current (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	11	0.000000	0.0851%	0.0967%	0.0	0.0	0%	0%
42	0	16	0.000000	0.0964%	0.1614%	0.0	0.0	0%	0%
43	0	20	0.000000	0.1099%	0.2261%	0.0	0.0	0%	0%
44	0	24	0.000000	0.1257%	0.2903%	0.0	0.1	0%	0%
45	0	27	0.000000	0.1425%	0.3539%	0.0	0.1	0%	0%
46	0	27	0.000000	0.1608%	0.4165%	0.0	0.1	0%	0%
47	0	29	0.000000	0.1801%	0.4781%	0.1	0.1	0%	0%
48	1	32	0.031250	0.2013%	0.4991%	0.1	0.2	1552%	626%
49	0	31	0.000000	0.2269%	0.5195%	0.1	0.2	0%	0%
50	0	26	0.000000	0.2559%	0.5390%	0.1	0.1	0%	0%
51	0	26	0.000000	0.2770%	0.5579%	0.1	0.1	0%	0%
52	0	23	0.000000	0.3227%	0.5760%	0.1	0.1	0%	0%
53	0	15	0.000000	0.3615%	0.5938%	0.1	0.1	0%	0%
54	0	19	0.000000	0.4122%	0.6119%	0.1	0.1	0%	0%
55	0	11	0.000000	0.4358%	0.6310%	0.0	0.1	0%	0%
56	0	9	0.000000	0.4376%	0.6515%	0.0	0.1	0%	0%
57	0	6	0.000000	0.4528%	0.6738%	0.0	0.0	0%	0%
58	0	6	0.000000	0.5023%	0.7354%	0.0	0.0	0%	0%
59	0	5	0.000000	0.5566%	0.7991%	0.0	0.0	0%	0%
60	0	7	0.000000	0.5999%	0.8653%	0.0	0.1	0%	0%
61	0	6	0.000000	0.6435%	0.9332%	0.0	0.1	0%	0%
62	0	9	0.000000	0.7318%	1.0025%	0.1	0.1	0%	0%
63	0	6	0.000000	0.8091%	1.1496%	0.0	0.1	0%	0%
64	0	7	0.000000	0.9083%	1.2977%	0.1	0.1	0%	0%
65	0	7	0.000000	0.9930%	1.4463%	0.1	0.1	0%	0%
66	0	7	0.000000	1.0806%	1.5949%	0.1	0.1	0%	0%
67	0	4	0.000000	1.1963%	1.7437%	0.0	0.1	0%	0%
68	0	7	0.000000	1.2916%	2.0106%	0.1	0.1	0%	0%
69	0	2	0.000000	1.4512%	2.2784%	0.0	0.0	0%	0%
70	0	2	0.000000	1.6447%	2.5464%	0.0	0.1	0%	0%
71	0	2	0.000000	1.8351%	2.8147%	0.0	0.1	0%	0%
72	0	1	0.000000	2.0406%	3.0831%	0.0	0.0	0%	0%
73	0	1	0.000000	2.2896%	3.5112%	0.0	0.0	0%	0%
74	0	1	0.000000	2.5463%	3.9388%	0.0	0.0	0%	0%
75	0	1	0.000000	2.8568%	4.3649%	0.0	0.0	0%	0%
76	0	1	0.000000	3.2016%	4.7904%	0.0	0.0	0%	0%
77	0	1	0.000000	3.4372%	5.2134%	0.0	0.1	0%	0%
78	0	2	0.000000	3.8127%	5.8330%	0.1	0.1	0%	0%
79	0	0	N/A	4.3879%	6.4503%	0	0	0%	0%
80	0	1	0.000000	5.0008%	7.0656%	0.1	0.1	0%	0%
81	0	0	N/A	5.6532%	7.6779%	0	0	0%	0%
82	0	0	N/A	6.2429%	8.2878%	0	0	0%	0%
83	0	0	N/A	6.8548%	9.1341%	0	0	0%	0%
84	0	0	N/A	7.7484%	9.9780%	0	0	0%	0%
85	0	0	N/A	8.6856%	10.8194%	0	0	0%	0%
86	0	0	N/A	9.4305%	11.6572%	0	0	0%	0%
87	0	0	N/A	10.1495%	12.4912%	0	0	0%	0%
88	0	0	N/A	11.2544%	13.5940%	0	0	0%	0%
89	0	0	N/A	12.7505%	14.6881%	0	0	0%	0%
90	0	0	N/A	14.1894%	15.7723%	0	0	0%	0%
91	0	0	N/A	15.9612%	16.8458%	0	0	0%	0%
92	0	0	N/A	17.2486%	17.9039%	0	0	0%	0%
93	0	0	N/A	18.5108%	19.2517%	0	0	0%	0%
94	0	0	N/A	19.7367%	20.5947%	0	0	0%	0%
95	0	0	N/A	20.8534%	21.9385%	0	0	0%	0%
96	0	0	N/A	21.8465%	23.2924%	0	0	0%	0%
97	0	0	N/A	22.8523%	24.6395%	0	0	0%	0%
98	0	0	N/A	23.4533%	26.3243%	0	0	0%	0%
99	0	0	N/A	23.7771%	28.0036%	0	0	0%	0%
Subtotal	1	438				1.8	3.1	56%	33%
100 or more	0	0	N/A	25.4498%	33.2252%	0	0	0%	0%
Total	1	438				1.8	3.1	56%	33%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

TABLE 2C

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Current	Proposed	Current	Proposed	Current	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	67	0.000000	0.1712%	0.0967%	0.1	0.1	0%	0%
42	0	90	0.000000	0.1864%	0.1614%	0.2	0.1	0%	0%
43	0	114	0.000000	0.2033%	0.2261%	0.2	0.3	0%	0%
44	0	136	0.000000	0.2202%	0.2903%	0.3	0.4	0%	0%
45	1	166	0.006024	0.2389%	0.3539%	0.4	0.6	252%	170%
46	0	178	0.000000	0.2494%	0.4165%	0.4	0.7	0%	0%
47	0	204	0.000000	0.2588%	0.4781%	0.5	1.0	0%	0%
48	2	194	0.010309	0.2645%	0.4991%	0.5	1.0	390%	207%
49	2	221	0.009050	0.3336%	0.5195%	0.7	1.1	271%	174%
50	0	206	0.000000	0.3974%	0.5390%	0.8	1.1	0%	0%
51	1	225	0.004444	0.4540%	0.5579%	1.0	1.3	98%	80%
52	1	227	0.004405	0.5085%	0.5760%	1.2	1.3	87%	76%
53	1	219	0.004566	0.5362%	0.5938%	1.2	1.3	85%	77%
54	2	238	0.008403	0.5642%	0.6119%	1.3	1.5	149%	137%
55	0	231	0.000000	0.6208%	0.6310%	1.4	1.5	0%	0%
56	3	274	0.010949	0.6788%	0.6515%	1.9	1.8	161%	168%
57	1	263	0.003802	0.7222%	0.6738%	1.9	1.8	53%	56%
58	1	323	0.003096	0.7638%	0.7354%	2.5	2.4	41%	42%
59	4	368	0.010870	0.8700%	0.7991%	3.2	2.9	125%	136%
60	4	471	0.008493	0.9612%	0.8653%	4.5	4.1	88%	98%
61	3	523	0.005736	1.0627%	0.9332%	5.6	4.9	54%	61%
62	6	599	0.010017	1.1607%	1.0025%	7.0	6.0	86%	100%
63	7	630	0.011111	1.2455%	1.1496%	7.8	7.2	89%	97%
64	13	649	0.020031	1.3784%	1.2977%	8.9	8.4	145%	154%
65	8	684	0.011696	1.4887%	1.4463%	10.2	9.9	79%	81%
66	11	700	0.015714	1.6456%	1.5949%	11.5	11.2	95%	99%
67	17	684	0.024854	1.8675%	1.7437%	12.8	11.9	133%	143%
68	13	652	0.019939	2.0797%	2.0106%	13.6	13.1	96%	99%
69	12	557	0.021544	2.3192%	2.2784%	12.9	12.7	93%	95%
70	10	478	0.020921	2.6020%	2.5464%	12.4	12.2	80%	82%
71	9	397	0.022670	2.8927%	2.8147%	11.5	11.2	78%	81%
72	11	338	0.032544	3.1962%	3.0831%	10.8	10.4	102%	106%
73	12	294	0.040816	3.5813%	3.5112%	10.5	10.3	114%	116%
74	9	246	0.036585	3.9065%	3.9388%	9.6	9.7	94%	93%
75	6	192	0.031250	4.2623%	4.3649%	8.2	8.4	73%	72%
76	4	166	0.024096	4.9034%	4.7904%	8.1	8.0	49%	50%
77	12	147	0.081633	5.4959%	5.2134%	8.1	7.7	149%	157%
78	10	125	0.080000	6.0916%	5.8330%	7.6	7.3	131%	137%
79	6	105	0.057143	6.6593%	6.4503%	7.0	6.8	86%	89%
80	9	113	0.079646	7.1754%	7.0656%	8.1	8.0	111%	113%
81	4	79	0.050633	8.0024%	7.6779%	6.3	6.1	63%	66%
82	7	95	0.073684	8.9701%	8.2878%	8.5	7.9	82%	89%
83	6	71	0.084507	9.8973%	9.1341%	7.0	6.5	85%	93%
84	5	69	0.072464	10.6514%	9.9780%	7.3	6.9	68%	73%
85	9	58	0.155172	11.8109%	10.8194%	6.9	6.3	131%	143%
86	4	40	0.100000	13.5976%	11.6572%	5.4	4.7	74%	86%
87	4	37	0.108108	14.8903%	12.4912%	5.5	4.6	73%	87%
88	4	22	0.181818	16.4824%	13.5940%	3.6	3.0	110%	134%
89	5	21	0.238095	18.2395%	14.6881%	3.8	3.1	131%	162%
90	1	7	0.142857	20.1100%	15.7723%	1.4	1.1	71%	91%
91	3	10	0.300000	21.8931%	16.8458%	2.2	1.7	137%	178%
92	0	4	0.000000	23.3411%	17.9039%	0.9	0.7	0%	0%
93	0	2	0.000000	25.7503%	19.2517%	0.5	0.4	0%	0%
94	1	4	0.250000	27.7062%	20.5947%	1.1	0.8	90%	121%
95	0	2	0.000000	29.0978%	21.9385%	0.6	0.4	0%	0%
96	0	1	0.000000	31.5801%	23.2924%	0.3	0.2	0%	0%
97	0	1	0.000000	33.2567%	24.6395%	0.3	0.2	0%	0%
98	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
99	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Subtotal	264	13,217				278.4	265.9	95%	99%
100 or more	0	0	N/A	0.0000%	0.0000%	0	0	0%	0%
Total	264	13,217				278.4	265.9	95%	99%

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Current</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Current</u> (7)	<u>Proposed</u> (8)	<u>Current</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	336	0.000000	0.2193%	0.2117%	0.7	0.7	0%	0%
45-49	4	817	0.004896	0.2876%	0.4594%	2.3	3.8	170%	107%
50-54	5	1,006	0.004970	0.5135%	0.5772%	5.2	5.8	97%	86%
55-59	9	1,422	0.006329	0.7517%	0.7087%	10.7	10.1	84%	89%
60-64	33	2,837	0.011632	1.1833%	1.0666%	33.6	30.3	98%	109%
65-69	61	3,250	0.018769	1.8659%	1.7943%	60.6	58.3	101%	105%
70-74	51	1,746	0.029210	3.1343%	3.0680%	54.7	53.6	93%	95%
75-79	38	730	0.052055	5.3203%	5.1781%	38.8	37.8	98%	101%
80-84	31	426	0.072770	8.7508%	8.2682%	37.3	35.2	83%	88%
85-89	26	178	0.146067	14.1883%	12.1545%	25.3	21.6	103%	120%
90-94	5	27	0.185185	22.7923%	17.4578%	6.2	4.7	81%	106%
95-99	0	4	0.000000	30.7581%	22.9522%	1.2	0.9	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>263</b>	<b>12,779</b>				<b>276.6</b>	<b>262.8</b>	<b>95%</b>	<b>100%</b>



**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Current (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Current</u> (7)	<u>Proposed</u> (8)	<u>Current (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	0	71	0.000000	0.1084%	0.2132%	0.1	0.2	0%	0%
45-49	1	146	0.006849	0.1842%	0.4571%	0.3	0.7	372%	150%
50-54	0	109	0.000000	0.3168%	0.5716%	0.3	0.6	0%	0%
55-59	0	37	0.000000	0.4661%	0.6826%	0.2	0.3	0%	0%
60-64	0	35	0.000000	0.7388%	1.0474%	0.3	0.4	0%	0%
65-69	0	27	0.000000	1.1572%	1.7368%	0.3	0.5	0%	0%
70-74	0	7	0.000000	1.9766%	3.0365%	0.1	0.2	0%	0%
75-79	0	5	0.000000	3.4242%	5.2069%	0.2	0.3	0%	0%
80-84	0	1	0.000000	5.0008%	7.0656%	0.1	0.1	0%	0%
85-89	0	0	N/A			0	0	0%	0%
90-94	0	0	N/A			0	0	0%	0%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1</b>	<b>438</b>				<b>1.8</b>	<b>3.1</b>	<b>56%</b>	<b>33%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

**TABLE 2C GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Current (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Current</u> (7)	<u>Proposed</u> (8)	<u>Current (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	0	407	0.000000	0.1999%	0.2119%	0.8	0.9	0%	0%
45-49	5	963	0.005192	0.2719%	0.4590%	2.6	4.4	191%	113%
50-54	5	1,115	0.004484	0.4943%	0.5767%	5.5	6.4	91%	78%
55-59	9	1,459	0.006169	0.7445%	0.7081%	10.9	10.3	83%	87%
60-64	33	2,872	0.011490	1.1779%	1.0663%	33.8	30.6	98%	108%
65-69	61	3,277	0.018615	1.8600%	1.7938%	61.0	58.8	100%	104%
70-74	51	1,753	0.029093	3.1297%	3.0678%	54.9	53.8	93%	95%
75-79	38	735	0.051701	5.3074%	5.1783%	39.0	38.1	97%	100%
80-84	31	427	0.072600	8.7420%	8.2654%	37.3	35.3	83%	88%
85-89	26	178	0.146067	14.1883%	12.1545%	25.3	21.6	103%	120%
90-94	5	27	0.185185	22.7923%	17.4578%	6.2	4.7	81%	106%
95-99	0	4	0.000000	30.7581%	22.9522%	1.2	0.9	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>264</b>	<b>13,217</b>				<b>278.4</b>	<b>265.9</b>	<b>95%</b>	<b>99%</b>

**NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2D Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	10-YEAR PERIOD ENDING 6/30/2013		
				Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	1,466	25	18.0	139%	1.7053%	1.2298%
2005	1,441	30	19.3	156%	2.0819%	1.3378%
2006	1,411	25	20.0	125%	1.7718%	1.4206%
2007	1,385	22	21.3	104%	1.5884%	1.5344%
2008	1,360	23	22.7	101%	1.6912%	1.6665%
2009	1,337	27	24.0	112%	2.0194%	1.7964%
2010	1,310	32	25.3	126%	2.4427%	1.9330%
2011	1,245	33	25.4	130%	2.6506%	2.0439%
2012	1,212	26	23.8	109%	2.1452%	1.9649%
2013	1,183	21	28.3	74%	1.7751%	2.3907%
Total	13,350	264	228.1	116%	1.9775%	1.7090%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
EXPERIENCE STUDY RESULTS  
OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
	Service Retiree Mortality						
1A	Men	82%	532	84%	98%	503	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
1B	Women	93%	1044	99%	101%	1037	
1C	By Year						
	Disabled Retiree Mortality						
2A	Men	76%	20	91%	92%	25	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
2B	Women	106%	68	105%	96%	68	
2C	By Year						
	Active Member Withdrawals						
3A	By Year	119%	4223	126%	112%	4537	Actual withdrawal experience appears to be higher than expected. The proposed assumption is based on actual experience.
	Active Member Service Retirements In 1st Year of Eligibility						Generally, members have been delaying retirements, consistent with national trends. Consider extending maximum retirement age from 70 to 75.
	Total						
4A	Men	67%	127	100%	86%	167	
4B	Women	60%	398	80%	68%	451	
	Elected						
4C	Men	92%	62	70%	66%	26	
4D	Women	84%	218	63%	65%	88	
	Mandated						
4E	Men	54%	65	109%	91%	141	
4F	Women	44%	180	86%	69%	363	
	In 2nd Year of Eligibility						
	Total						
5A	Men	134%	132	149%	84%	127	
5B	Women	118%	386	134%	74%	361	
	Elected						
5C	Men	124%	41	101%	96%	17	
5D	Women	114%	145	92%	88%	59	
	Mandated						
5E	Men	139%	92	161%	83%	110	
5F	Women	120%	241	147%	71%	302	

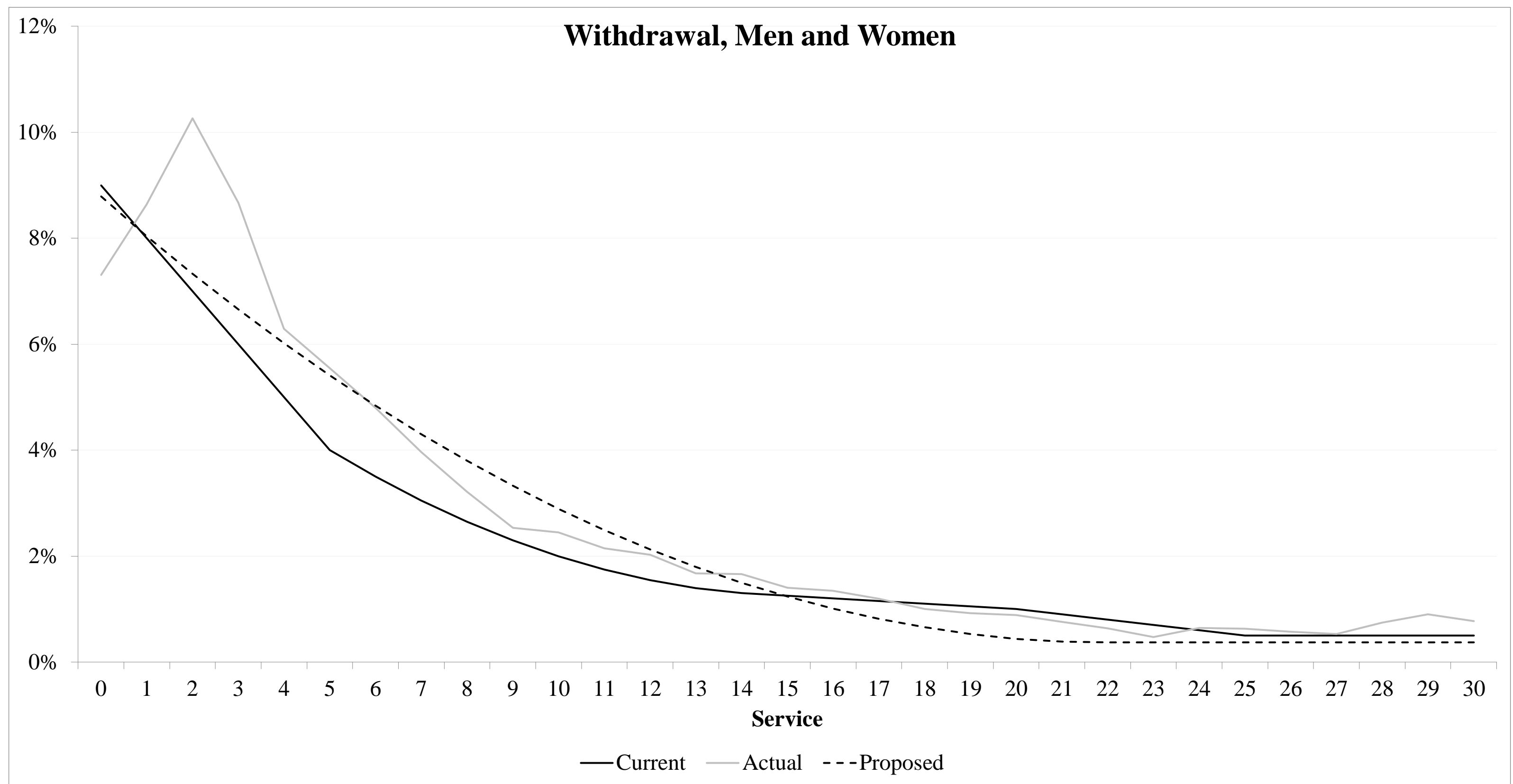
**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
EXPERIENCE STUDY RESULTS  
OVERVIEW**

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to			
				Expected	Proposed		
After 2nd Year of Eligibility							
Total							
6A	Men	64%	358	83%	76%	402	
6B	Women	76%	1270	83%	76%	1164	
Elected							
6C	Men	91%	59	84%	81%	24	
6D	Women	98%	246	90%	87%	100	
Mandated							
6E	Men	60%	299	83%	76%	378	
6F	Women	72%	1024	83%	75%	1064	
6G	By Year						
Reduced Service Retirements							
Total							
7A	Men	164%	122	205%	170%	136	Last 4 years has higher credibility based on maturation process. Recent experience resembles current assumption and is trending downward. The proposed assumption is 120% for males and 110% for females of the current assumption.
7B	Women	133%	388	164%	149%	424	
7C	By Year						
Active Member Ordinary Mortality							
8A	Men	93%	31	109%	109%	36	Recent experience is consistent with current assumption. There may be data issues in earlier years.
8B	Women	103%	59	136%	136%	74	
8C	By Year						
Active Member Ordinary Disability							
9A	Men	195%	29	207%	119%	30	Actual experience appears higher than current assumption. The proposed assumption is 175% for males and 155% for females of the current assumption.
9B	Women	145%	93	172%	111%	107	
9C	By Year						
Active Member Accidental Disability							
10A	Men	135%	8	163%	121%	9	Actual experience appears higher than current assumption. The proposed assumption is 135% of the current assumption for males and rates exponentially-fitted to actual data for females.
10B	Women	177%	30	181%	137%	30	
10C	By Year						
Salary Increases**							
11A	Total	Expected	Actual	Expected	Proposed	Actual	Merit component appears appropriate based on experience. Productivity component has been significantly lower than expected, but will need to be examined in comparison to new contracts which include retrospective increases.
11B	Merit Only	6.56%	2.94%	6.72%	6.72%	4.94%	
11C	General Increase over Inflation	3.56%	2.40%	3.72%	3.72%	0.41%	
11C	By Year	0.50%	-1.18%	0.50%	0.50%	2.54%	

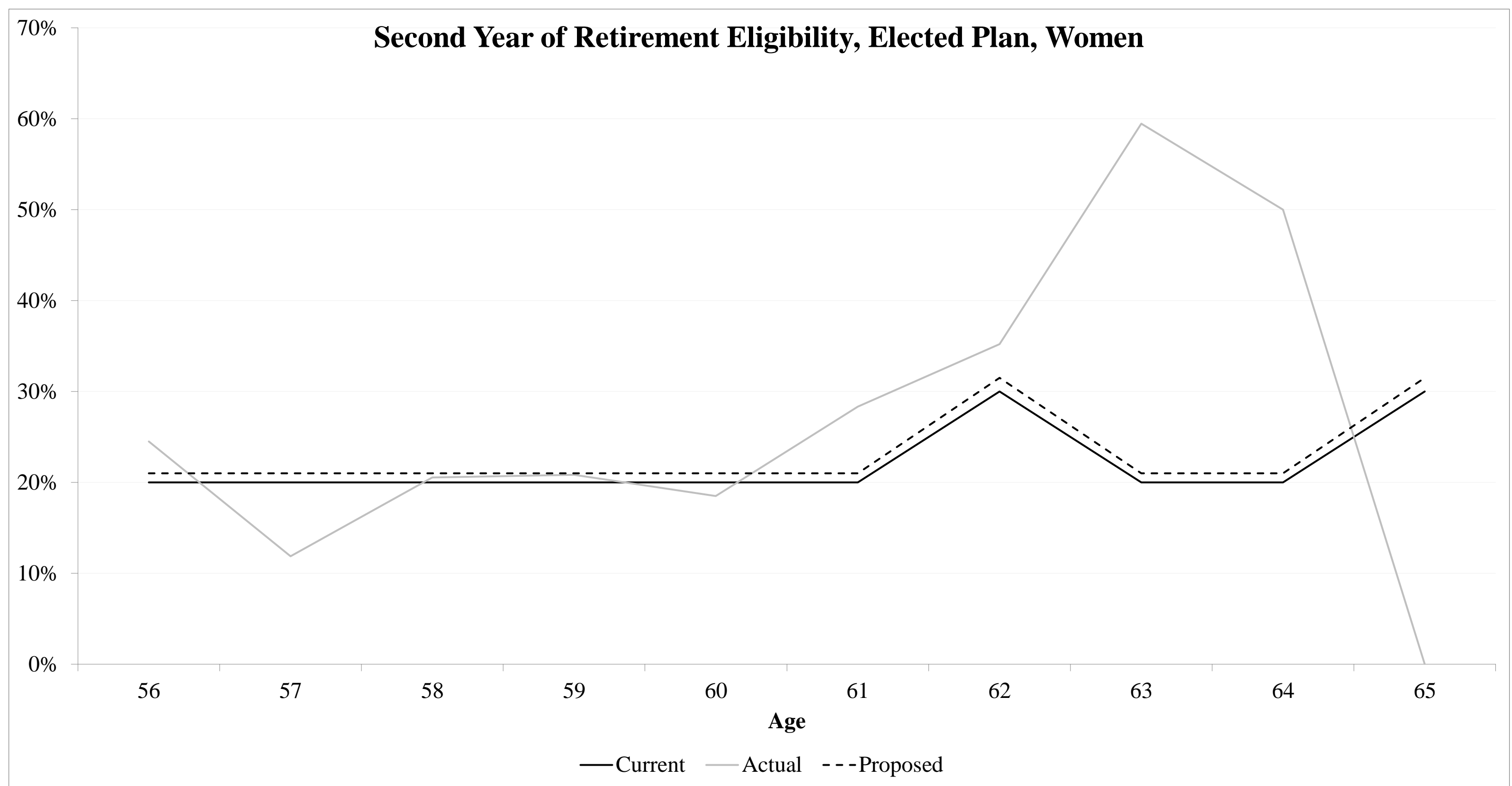
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown.

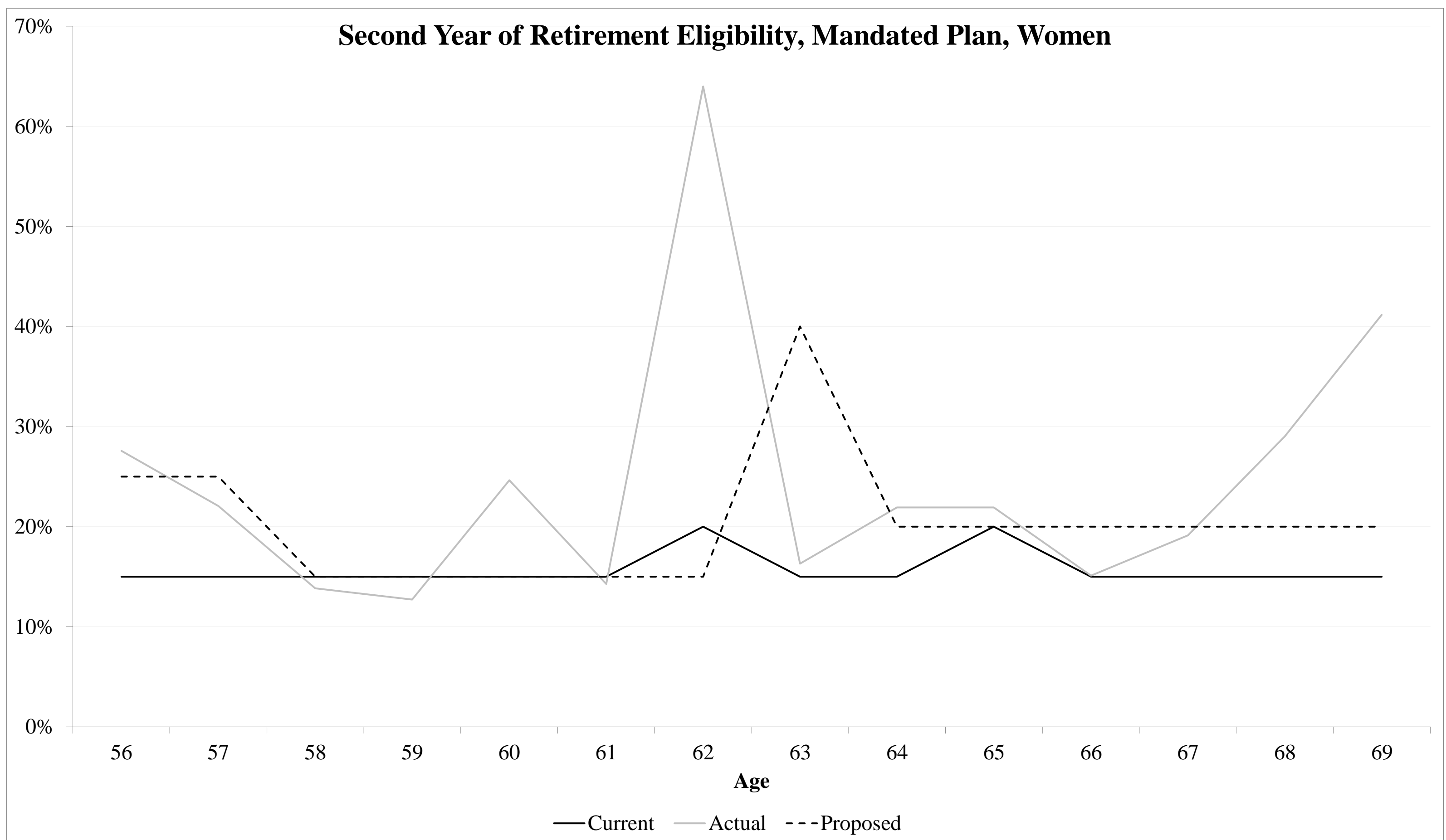
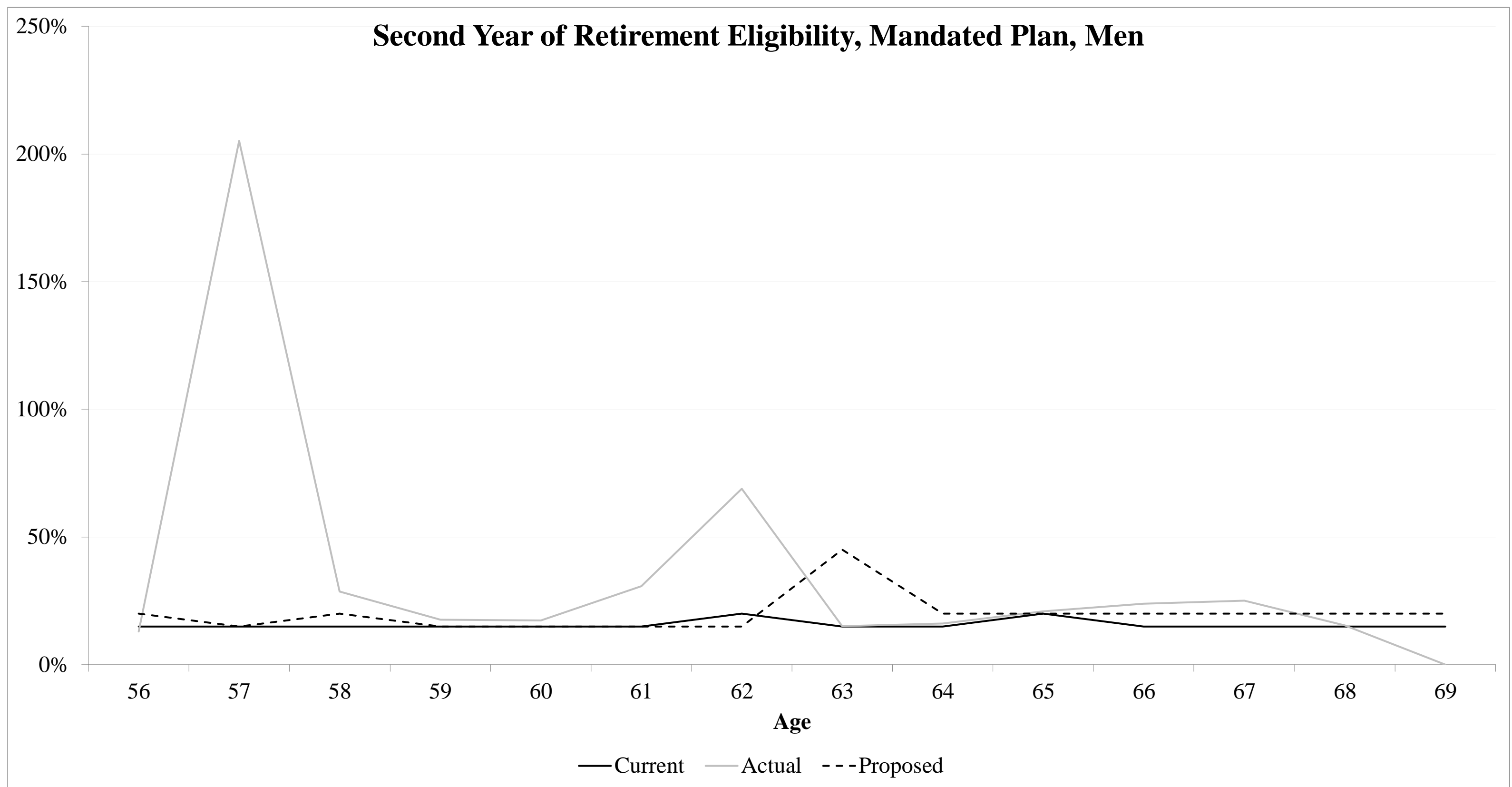
**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
 WITHDRAWAL ASSUMPTIONS AND EXPERIENCE  
 FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**

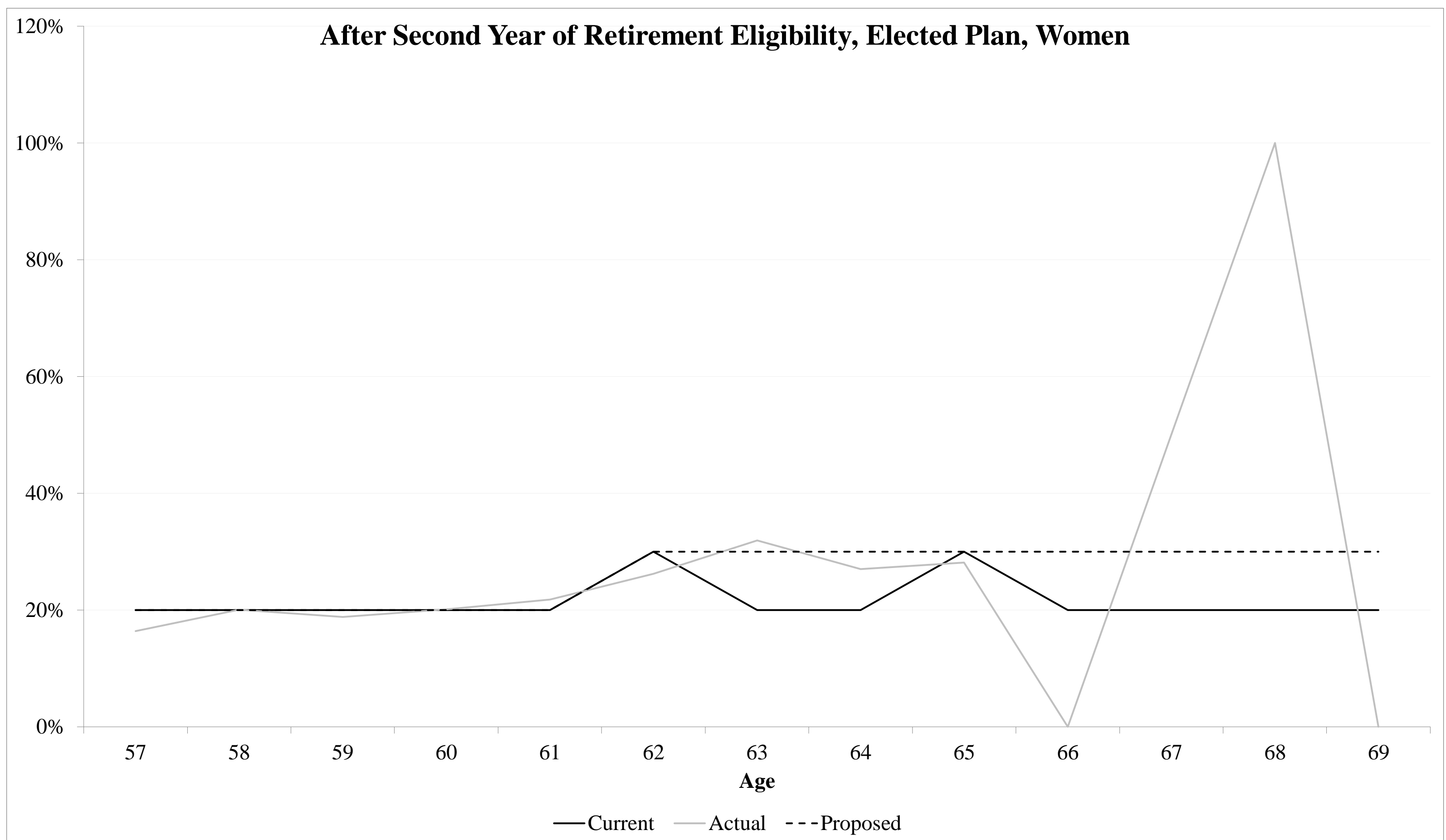
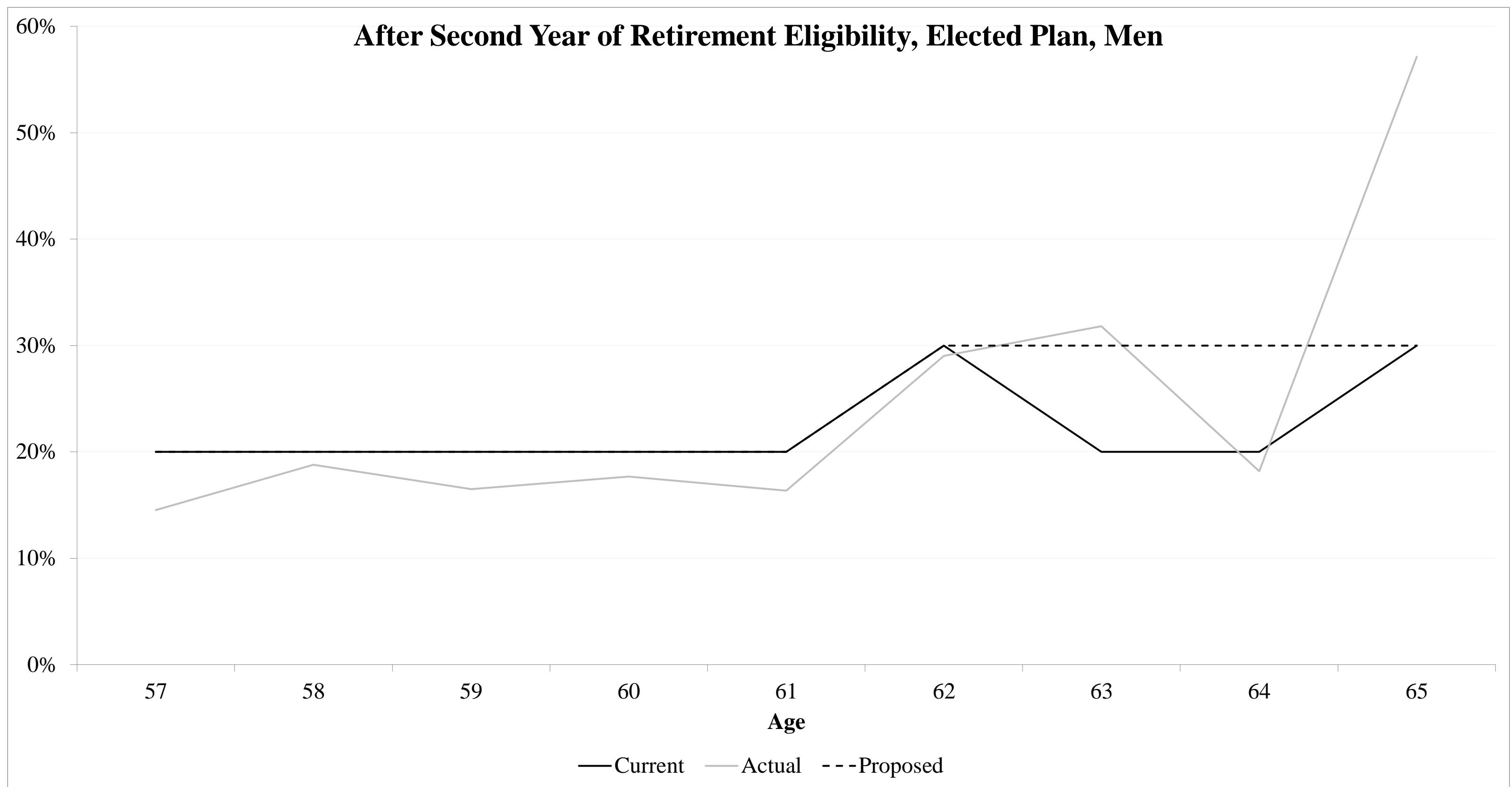


**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**

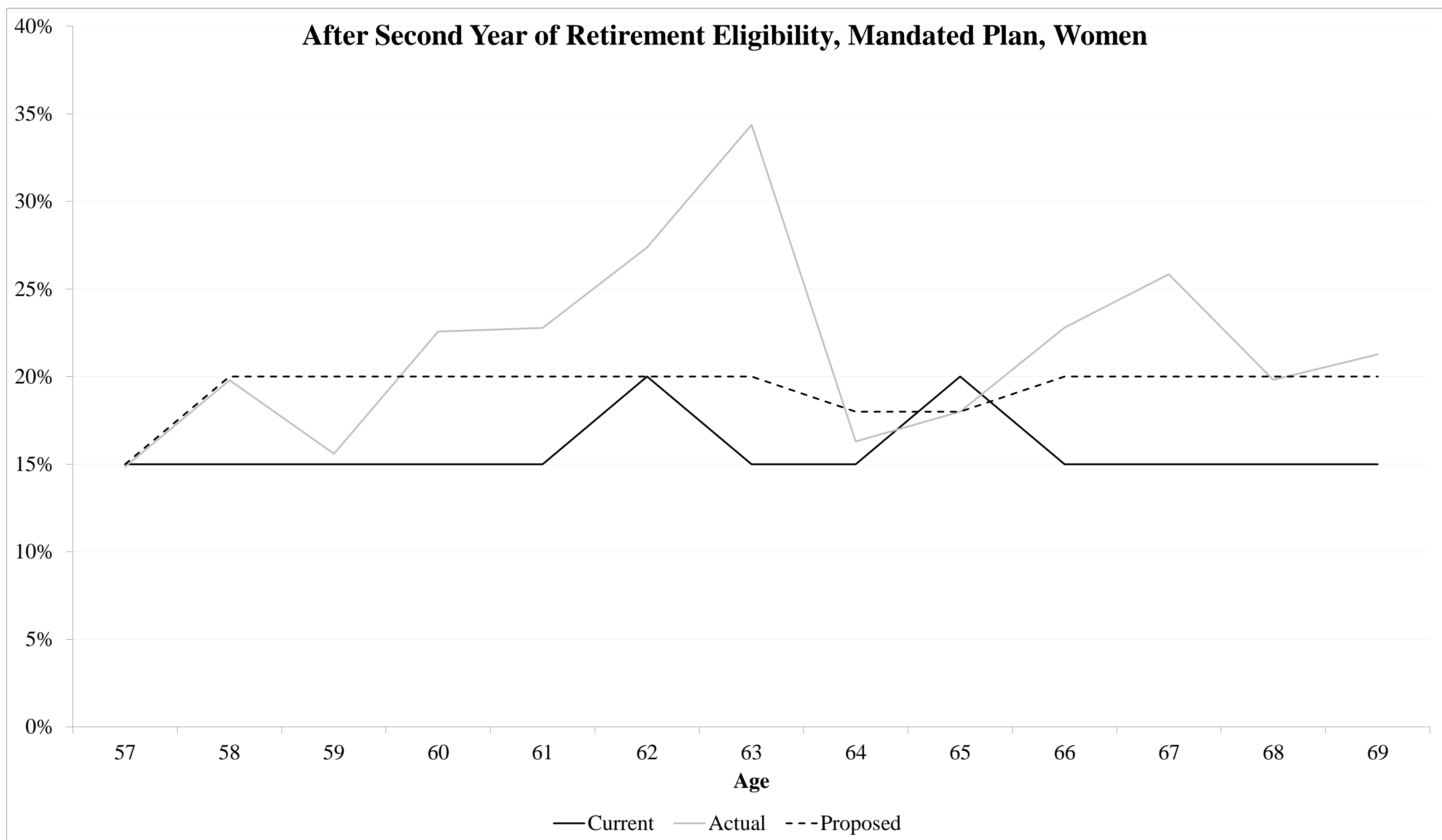
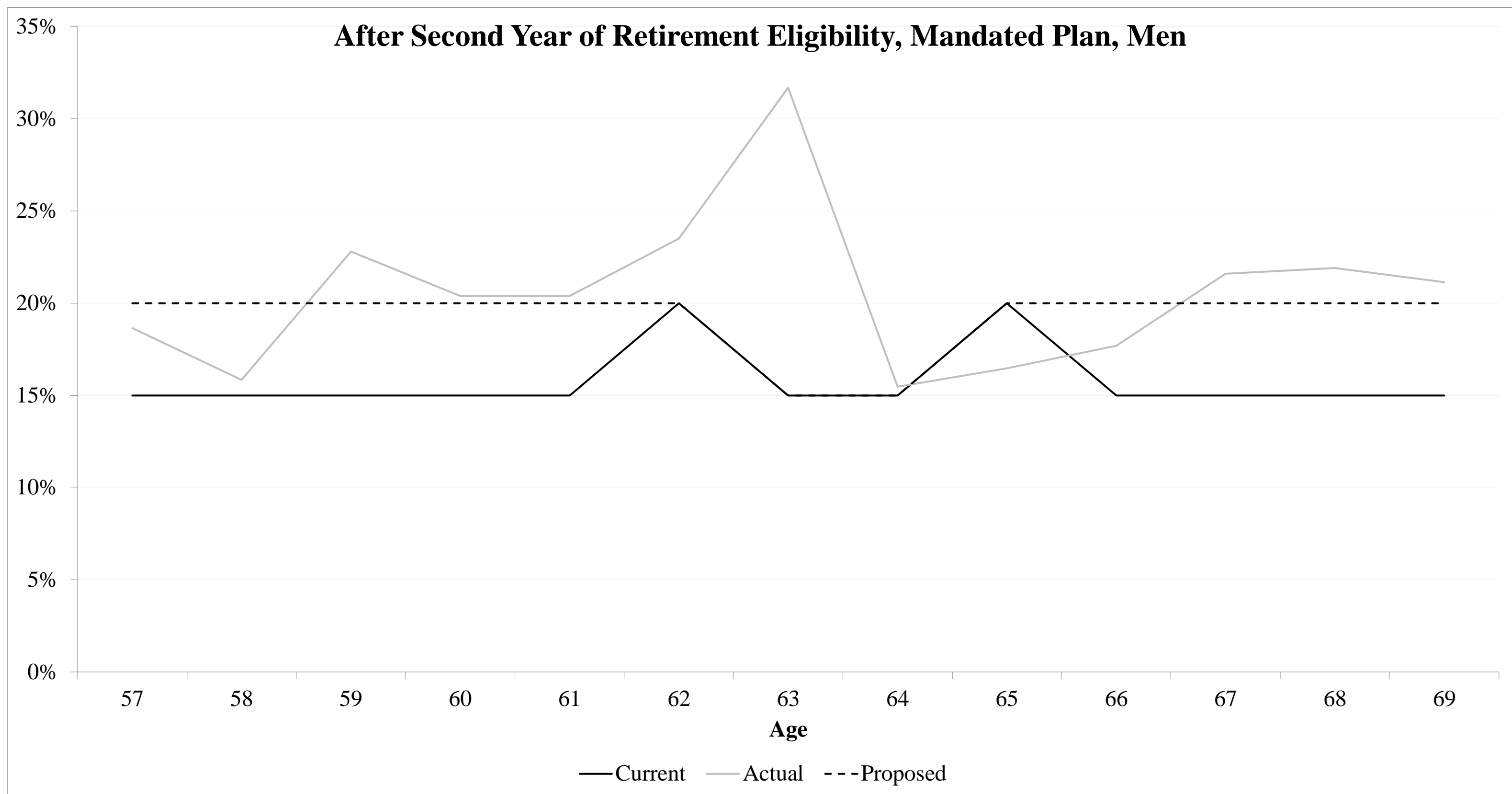




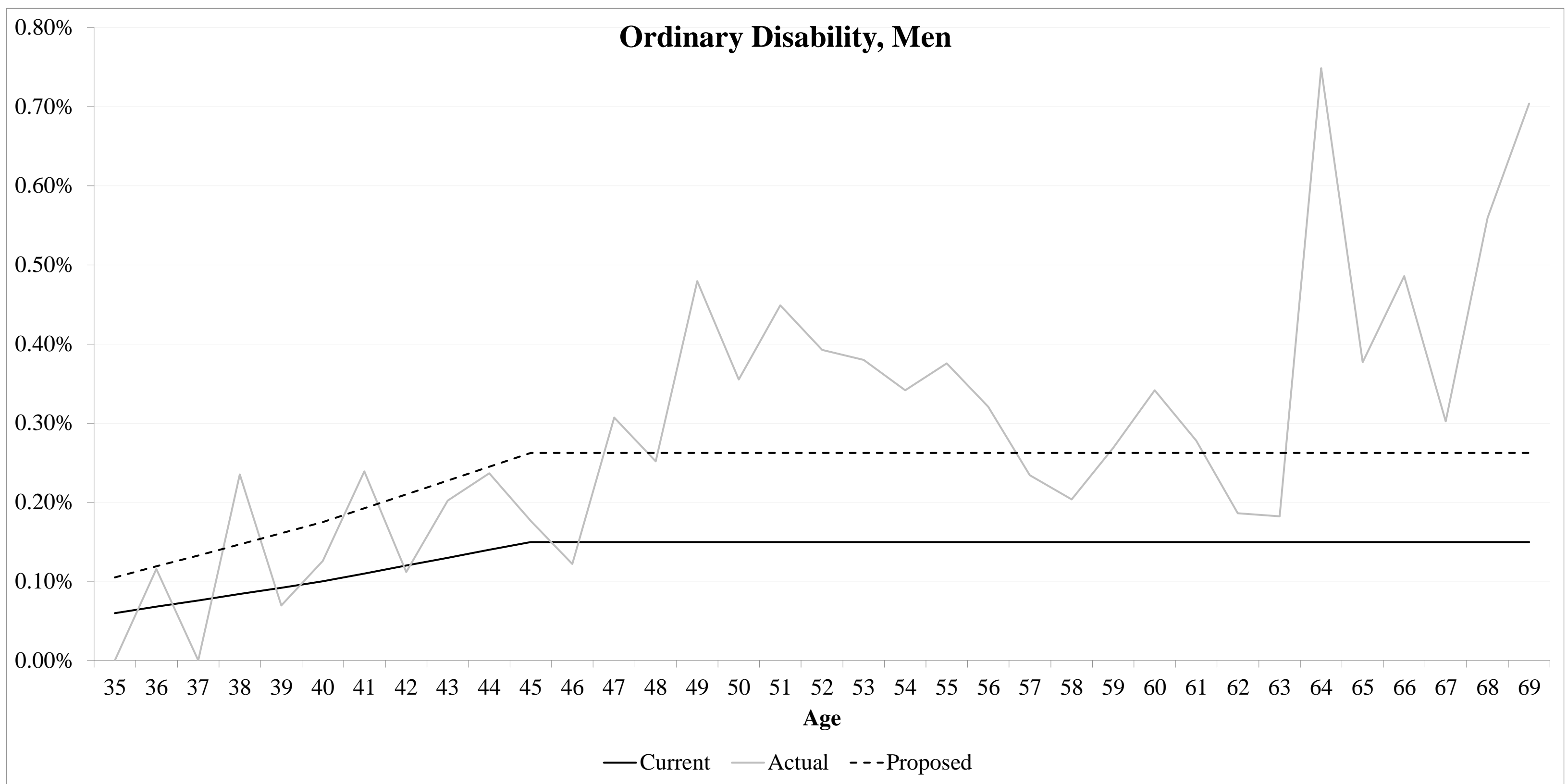
**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



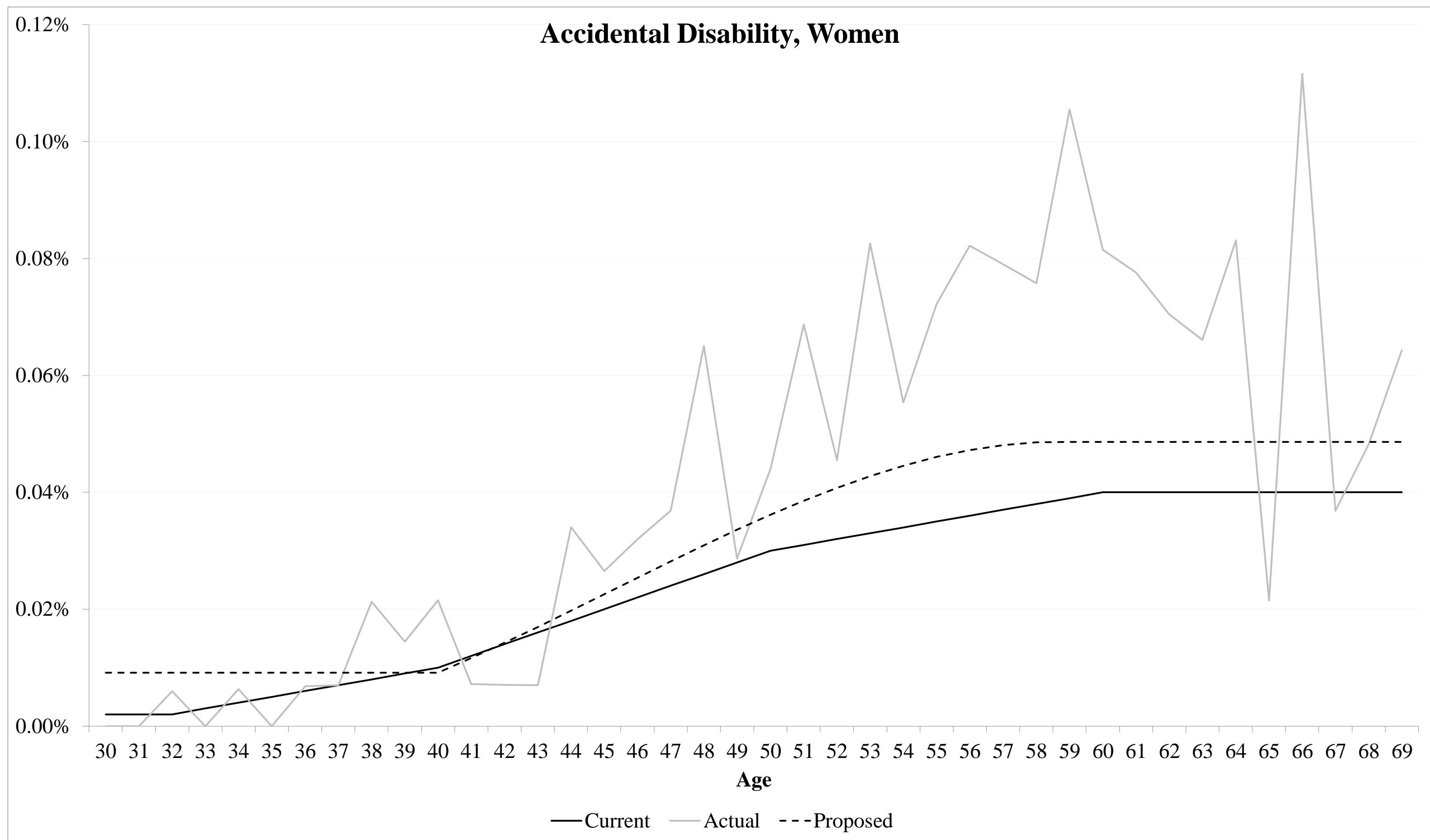
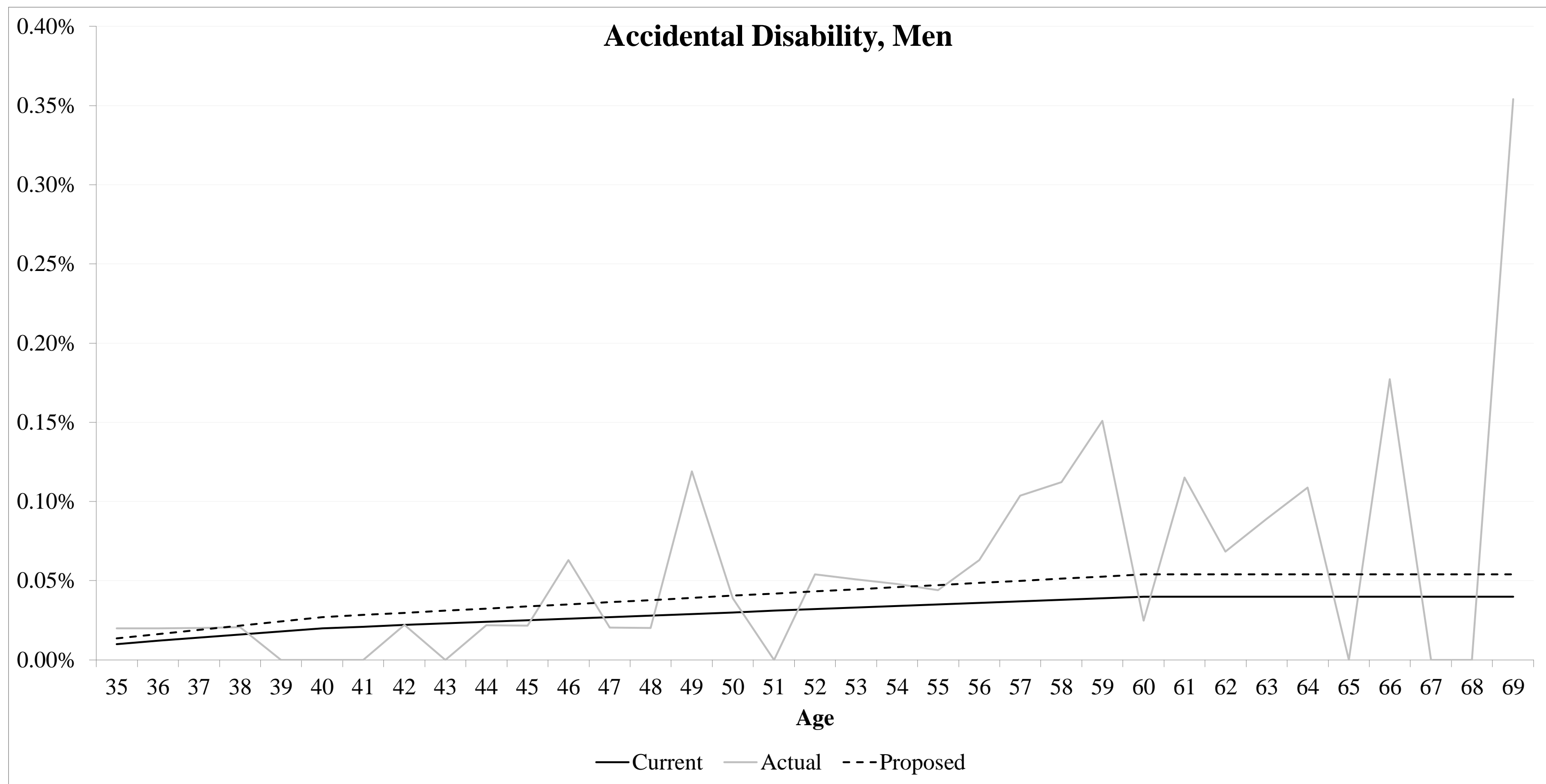
**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ORDINARY DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ACCIDENTAL DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

TABLE 1A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.1100%	0.0847%	0	0	0%	0%
42	0	0	N/A	0.1228%	0.0924%	0	0	0%	0%
43	0	0	N/A	0.1358%	0.1007%	0	0	0%	0%
44	0	0	N/A	0.1488%	0.1096%	0	0	0%	0%
45	0	0	N/A	0.1617%	0.1191%	0	0	0%	0%
46	0	0	N/A	0.1748%	0.1291%	0	0	0%	0%
47	0	0	N/A	0.1878%	0.1397%	0	0	0%	0%
48	0	0	N/A	0.2011%	0.1509%	0	0	0%	0%
49	0	0	N/A	0.2143%	0.1626%	0	0	0%	0%
50	0	0	N/A	0.2298%	0.1753%	0	0	0%	0%
51	0	0	N/A	0.2564%	0.1892%	0	0	0%	0%
52	0	0	N/A	0.2830%	0.2050%	0	0	0%	0%
53	0	1	0.000000	0.3121%	0.2229%	0.0	0.0	0%	0%
54	0	2	0.000000	0.3419%	0.2434%	0.0	0.0	0%	0%
55	0	34	0.000000	0.3751%	0.2671%	0.1	0.1	0%	0%
56	1	289	0.003460	0.4195%	0.2942%	1.2	0.9	82%	118%
57	3	498	0.006024	0.4651%	0.3252%	2.3	1.6	130%	185%
58	1	711	0.001406	0.5123%	0.3606%	3.6	2.6	27%	39%
59	4	1,069	0.003742	0.5566%	0.4008%	6.0	4.3	67%	93%
60	13	1,574	0.008259	0.6012%	0.4462%	9.5	7.0	137%	185%
61	12	2,356	0.005093	0.6976%	0.4973%	16.4	11.7	73%	102%
62	26	3,473	0.007486	0.7905%	0.5543%	27.5	19.2	95%	135%
63	32	4,594	0.006966	0.8923%	0.6177%	41.0	28.4	78%	113%
64	29	5,248	0.005526	0.9890%	0.6884%	51.9	36.1	56%	80%
65	37	5,294	0.006989	1.0687%	0.7672%	56.6	40.6	65%	91%
66	40	4,873	0.008208	1.2300%	0.8551%	59.9	41.7	67%	96%
67	40	4,415	0.009060	1.3800%	0.9529%	60.9	42.1	66%	95%
68	40	3,950	0.010127	1.5145%	1.0620%	59.8	42.0	67%	95%
69	39	3,585	0.010879	1.6575%	1.1836%	59.4	42.4	66%	92%
70	35	3,227	0.010846	1.7831%	1.3191%	57.5	42.6	61%	82%
71	49	2,929	0.016729	1.9651%	1.4701%	57.6	43.1	85%	114%
72	28	2,796	0.010014	2.1436%	1.6384%	59.9	45.8	47%	61%
73	38	2,643	0.014378	2.3183%	1.8260%	61.3	48.3	62%	79%
74	48	2,552	0.018809	2.4894%	2.0350%	63.5	51.9	76%	92%
75	56	2,404	0.023295	2.6785%	2.2680%	64.4	54.5	87%	103%
76	62	2,263	0.027397	2.9856%	2.5276%	67.6	57.2	92%	108%
77	66	2,233	0.029557	3.3129%	2.8169%	74.0	62.9	89%	105%
78	52	2,088	0.024904	3.6389%	3.1394%	76.0	65.6	68%	79%
79	69	2,051	0.033642	3.9634%	3.4988%	81.3	71.8	85%	96%
80	79	1,986	0.039778	4.3294%	3.8993%	86.0	77.4	92%	102%
81	89	1,892	0.047040	4.9783%	4.3457%	94.2	82.2	94%	108%
82	81	1,782	0.045455	5.6375%	4.8432%	100.5	86.3	81%	94%
83	95	1,700	0.055882	6.2564%	5.3976%	106.4	91.8	89%	104%
84	101	1,569	0.064372	6.9309%	6.0155%	108.7	94.4	93%	107%
85	84	1,351	0.062176	7.5548%	6.7041%	102.1	90.6	82%	93%
86	97	1,194	0.081240	8.5682%	7.4716%	102.3	89.2	95%	109%
87	74	1,051	0.070409	9.6778%	8.3269%	101.7	87.5	73%	85%
88	80	892	0.089686	10.8235%	9.2801%	96.5	82.8	83%	97%
89	75	762	0.098425	11.9100%	10.3425%	90.8	78.8	83%	95%
90	71	607	0.116969	13.1204%	11.5264%	79.6	70.0	89%	101%
91	72	455	0.158242	15.0714%	12.8459%	68.6	58.4	105%	123%
92	50	337	0.148368	17.2089%	14.3165%	58.0	48.2	86%	104%
93	50	268	0.186567	19.2555%	15.9554%	51.6	42.8	97%	117%
94	40	218	0.183486	21.3577%	17.7819%	46.6	38.8	86%	103%
95	38	169	0.224852	23.7314%	19.8175%	40.1	33.5	95%	113%
96	30	122	0.245902	25.8804%	22.0861%	31.6	26.9	95%	111%
97	30	94	0.319149	27.9670%	24.6145%	26.3	23.1	114%	130%
98	18	69	0.260870	30.3680%	27.4322%	21.0	18.9	86%	95%
99	17	61	0.278689	32.3578%	30.5726%	19.7	18.6	86%	91%
Subtotal	2,091	83,731				2,551.4	2,104.6	82%	99%
100 or more	37	116	0.318966	37.1685%	42.3198%	43.1	49.1	86%	75%
Total	2,128	83,847				2,594.5	2,153.6	82%	99%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**WOMEN**

TABLE 1A				4-YEAR PERIOD ENDING 6/30/2013					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.0739%	0.0699%	0	0	0%	0%
42	0	0	N/A	0.0801%	0.0750%	0	0	0%	0%
43	0	0	N/A	0.0873%	0.0801%	0	0	0%	0%
44	0	0	N/A	0.0953%	0.0852%	0	0	0%	0%
45	0	0	N/A	0.1038%	0.0903%	0	0	0%	0%
46	0	0	N/A	0.1133%	0.0953%	0	0	0%	0%
47	0	0	N/A	0.1237%	0.1002%	0	0	0%	0%
48	0	0	N/A	0.1356%	0.1050%	0	0	0%	0%
49	0	0	N/A	0.1478%	0.1096%	0	0	0%	0%
50	0	0	N/A	0.1615%	0.1152%	0	0	0%	0%
51	0	0	N/A	0.1759%	0.1221%	0	0	0%	0%
52	0	0	N/A	0.1925%	0.1306%	0	0	0%	0%
53	0	0	N/A	0.2106%	0.1408%	0	0	0%	0%
54	0	10	0.000000	0.2277%	0.1532%	0.0	0.0	0%	0%
55	0	120	0.000000	0.2416%	0.1679%	0.3	0.2	0%	0%
56	4	819	0.004884	0.2595%	0.1852%	2.1	1.5	188%	264%
57	5	1,371	0.003647	0.2806%	0.2054%	3.8	2.8	130%	178%
58	11	2,058	0.005345	0.3120%	0.2288%	6.4	4.7	171%	234%
59	8	2,978	0.002686	0.3536%	0.2556%	10.5	7.6	76%	105%
60	13	4,238	0.003067	0.3973%	0.2861%	16.8	12.1	77%	107%
61	26	5,772	0.004505	0.4434%	0.3205%	25.6	18.5	102%	141%
62	27	7,206	0.003747	0.4817%	0.3592%	34.7	25.9	78%	104%
63	35	8,507	0.004114	0.5203%	0.4025%	44.3	34.2	79%	102%
64	42	8,840	0.004751	0.5846%	0.4510%	51.7	39.9	81%	105%
65	39	8,689	0.004488	0.6320%	0.5054%	54.9	43.9	71%	89%
66	52	8,427	0.006171	0.7073%	0.5663%	59.6	47.7	87%	109%
67	46	8,391	0.005482	0.7855%	0.6345%	65.9	53.2	70%	86%
68	53	8,213	0.006453	0.8923%	0.7110%	73.3	58.4	72%	91%
69	68	7,893	0.008615	0.9511%	0.7967%	75.1	62.9	91%	108%
70	71	7,243	0.009803	1.0378%	0.8928%	75.2	64.7	94%	110%
71	58	6,631	0.008747	1.1509%	1.0004%	76.3	66.3	76%	87%
72	58	6,173	0.009396	1.2734%	1.1210%	78.6	69.2	74%	84%
73	73	5,844	0.012491	1.3838%	1.2561%	80.9	73.4	90%	99%
74	77	5,467	0.014085	1.5014%	1.4075%	82.1	76.9	94%	100%
75	71	5,155	0.013773	1.6013%	1.5772%	82.5	81.3	86%	87%
76	88	5,045	0.017443	1.8332%	1.7673%	92.5	89.2	95%	99%
77	81	4,840	0.016736	2.0819%	1.9803%	100.8	95.8	80%	85%
78	99	4,764	0.020781	2.3142%	2.2190%	110.2	105.7	90%	94%
79	137	4,609	0.029724	2.5428%	2.4865%	117.2	114.6	117%	120%
80	117	4,418	0.026483	2.7660%	2.7862%	122.2	123.1	96%	95%
81	129	4,262	0.030267	3.2929%	3.1221%	140.3	133.1	92%	97%
82	133	4,168	0.031910	3.7608%	3.4984%	156.8	145.8	85%	91%
83	150	3,957	0.037908	4.1624%	3.9201%	164.7	155.1	91%	97%
84	157	3,691	0.042536	4.8495%	4.3926%	179.0	162.1	88%	97%
85	157	3,386	0.046367	5.4918%	4.9221%	186.0	166.7	84%	94%
86	180	3,093	0.058196	6.0156%	5.5154%	186.1	170.6	97%	106%
87	180	2,799	0.064309	6.6643%	6.1802%	186.5	173.0	96%	104%
88	179	2,480	0.072177	7.2643%	6.9252%	180.2	171.7	99%	104%
89	153	2,115	0.072340	8.1319%	7.7599%	172.0	164.1	89%	93%
90	160	1,795	0.089136	9.3060%	8.6953%	167.0	156.1	96%	103%
91	154	1,526	0.100917	10.5446%	9.7435%	160.9	148.7	96%	104%
92	134	1,311	0.102212	11.6032%	10.9179%	152.1	143.1	88%	94%
93	158	1,114	0.141831	12.7827%	12.2340%	142.4	136.3	111%	116%
94	126	883	0.142695	14.6834%	13.7087%	129.7	121.0	97%	104%
95	128	717	0.178522	16.9861%	15.3611%	121.8	110.1	105%	116%
96	110	550	0.200000	19.0062%	17.2127%	104.5	94.7	105%	116%
97	82	413	0.198547	20.8085%	19.2875%	85.9	79.7	95%	103%
98	80	334	0.239521	23.0718%	21.6125%	77.1	72.2	104%	111%
99	73	271	0.269373	23.4718%	24.2176%	63.6	65.6	115%	111%
Subtotal	3,982	182,586				4,300.1	3,943.7	93%	101%
100 or more	194	687	0.282387	25.4498%	34.0732%	174.8	234.1	111%	83%
Total	4,176	183,273				4,475.0	4,177.7	93%	100%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	3	0.000000	0.3320%	0.2366%	0.0	0.0	0%	0%
55-59	9	2,601	0.003460	0.5094%	0.3617%	13.2	9.4	68%	96%
60-64	112	17,245	0.006495	0.8481%	0.5944%	146.2	102.5	77%	109%
65-69	196	22,117	0.008862	1.3414%	0.9438%	296.7	208.7	66%	94%
70-74	198	14,147	0.013996	2.1194%	1.6373%	299.8	231.6	66%	85%
75-79	305	11,039	0.027629	3.2902%	2.8257%	363.2	311.9	84%	98%
80-84	445	8,929	0.049838	5.5520%	4.8394%	495.7	432.1	90%	103%
85-89	410	5,250	0.078095	9.3978%	8.1693%	493.4	428.9	83%	96%
90-94	283	1,885	0.150133	16.1472%	13.6969%	304.4	258.2	93%	110%
95-99	133	515	0.258252	26.9245%	23.5246%	138.7	121.2	96%	110%
100+	37	116	0.318966	37.1685%	42.3198%	43.1	49.1	86%	75%
Total	2,128	83,847				2,594.5	2,153.6	82%	99%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**WOMEN**

TABLE 1A GROUPED

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	0	N/A			0	0	0%	0%
50-54	0	10	0.000000	0.2277%	0.1532%	0.0	0.0	0%	0%
55-59	28	7,346	0.003812	0.3160%	0.2294%	23.2	16.9	121%	166%
60-64	143	34,563	0.004137	0.5008%	0.3779%	173.1	130.6	83%	109%
65-69	258	41,613	0.006200	0.7901%	0.6396%	328.8	266.2	78%	97%
70-74	337	31,358	0.010747	1.2534%	1.1179%	393.0	350.6	86%	96%
75-79	476	24,413	0.019498	2.0614%	1.9933%	503.2	486.6	95%	98%
80-84	686	20,496	0.033470	3.7227%	3.5091%	763.0	719.2	90%	95%
85-89	849	13,873	0.061198	6.5645%	6.0989%	910.7	846.1	93%	100%
90-94	732	6,629	0.110424	11.3460%	10.6386%	752.1	705.2	97%	104%
95-99	473	2,285	0.207002	19.8220%	18.4806%	452.9	422.3	104%	112%
100+	194	687	0.282387	25.4498%	34.0732%	174.8	234.1	111%	83%
Total	4,176	183,273				4,475.0	4,177.7	93%	100%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

TABLE 1A

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	1	0.000000	0.1130%	0.0919%	0.0	0.0	0%	0%
42	0	1	0.000000	0.1266%	0.1007%	0.0	0.0	0%	0%
43	0	1	0.000000	0.1404%	0.1099%	0.0	0.0	0%	0%
44	0	0	N/A	0.1543%	0.1195%	0	0	0%	0%
45	0	0	N/A	0.1682%	0.1295%	0	0	0%	0%
46	0	1	0.000000	0.1823%	0.1399%	0.0	0.0	0%	0%
47	0	1	0.000000	0.1965%	0.1506%	0.0	0.0	0%	0%
48	0	1	0.000000	0.2111%	0.1616%	0.0	0.0	0%	0%
49	0	0	N/A	0.2256%	0.1730%	0	0	0%	0%
50	0	0	N/A	0.2427%	0.1851%	0	0	0%	0%
51	0	0	N/A	0.2716%	0.1981%	0	0	0%	0%
52	0	1	0.000000	0.3006%	0.2127%	0.0	0.0	0%	0%
53	0	16	0.000000	0.3316%	0.2292%	0.1	0.0	0%	0%
54	0	46	0.000000	0.3632%	0.2483%	0.2	0.1	0%	0%
55	2	246	0.008130	0.3973%	0.2708%	1.0	0.7	205%	300%
56	8	2,083	0.003841	0.4430%	0.2973%	9.2	6.2	87%	129%
57	16	3,817	0.004192	0.4897%	0.3284%	18.7	12.5	86%	128%
58	29	5,302	0.005470	0.5377%	0.3650%	28.5	19.4	102%	150%
59	37	6,539	0.005658	0.5842%	0.4076%	38.2	26.7	97%	139%
60	51	7,660	0.006658	0.6310%	0.4569%	48.3	35.0	106%	146%
61	54	8,608	0.006273	0.7300%	0.5132%	62.8	44.2	86%	122%
62	71	9,275	0.007655	0.8272%	0.5766%	76.7	53.5	93%	133%
63	71	9,931	0.007149	0.9309%	0.6475%	92.4	64.3	77%	110%
64	70	10,101	0.006930	1.0318%	0.7265%	104.2	73.4	67%	95%
65	79	9,885	0.007992	1.1148%	0.8143%	110.2	80.5	72%	98%
66	73	9,226	0.007912	1.2793%	0.9117%	118.0	84.1	62%	87%
67	78	8,486	0.009192	1.4352%	1.0202%	121.8	86.6	64%	90%
68	91	7,888	0.011537	1.5800%	1.1405%	124.6	90.0	73%	101%
69	76	7,384	0.010293	1.7291%	1.2745%	127.7	94.1	60%	81%
70	82	6,948	0.011802	1.8658%	1.4236%	129.6	98.9	63%	83%
71	99	6,605	0.014989	2.0563%	1.5897%	135.8	105.0	73%	94%
72	81	6,355	0.012746	2.2430%	1.7746%	142.5	112.8	57%	72%
73	93	6,161	0.015095	2.4259%	1.9804%	149.5	122.0	62%	76%
74	124	5,970	0.020771	2.6048%	2.2092%	155.5	131.9	80%	94%
75	140	5,801	0.024134	2.7942%	2.4631%	162.1	142.9	86%	98%
76	139	5,544	0.025072	3.1146%	2.7456%	172.7	152.2	80%	91%
77	152	5,387	0.028216	3.4456%	3.0589%	185.6	164.8	82%	92%
78	154	5,107	0.030155	3.7732%	3.4063%	192.7	174.0	80%	89%
79	174	4,893	0.035561	4.0972%	3.7924%	200.5	185.6	87%	94%
80	189	4,654	0.040610	4.4619%	4.2217%	207.7	196.5	91%	96%
81	185	4,348	0.042548	5.1152%	4.6987%	222.4	204.3	83%	91%
82	188	3,998	0.047024	5.7750%	5.2291%	230.9	209.1	81%	90%
83	205	3,660	0.056011	6.4090%	5.8194%	234.6	213.0	87%	96%
84	228	3,264	0.069853	7.0785%	6.4762%	231.0	211.4	99%	108%
85	196	2,822	0.069454	7.7157%	7.2073%	217.7	203.4	90%	96%
86	193	2,456	0.078583	8.7507%	8.0200%	214.9	197.0	90%	98%
87	191	2,074	0.092093	9.8541%	8.9234%	204.4	185.1	93%	103%
88	177	1,755	0.100855	10.9875%	9.9257%	192.8	174.2	92%	102%
89	165	1,507	0.109489	12.0905%	11.0371%	182.2	166.3	91%	99%
90	167	1,262	0.132330	13.2791%	12.2692%	167.6	154.8	100%	108%
91	154	1,002	0.153693	15.2537%	13.6347%	152.8	136.6	101%	113%
92	132	821	0.160780	17.3647%	15.1445%	142.6	124.3	93%	106%
93	120	674	0.178042	19.4298%	16.8096%	131.0	113.3	92%	106%
94	110	553	0.198915	21.5511%	18.6635%	119.2	103.2	92%	107%
95	110	445	0.247191	23.8743%	20.7325%	106.2	92.3	104%	119%
96	65	329	0.197568	26.0363%	23.0497%	85.7	75.8	76%	86%
97	78	257	0.303502	28.1355%	25.6259%	72.3	65.9	108%	118%
98	47	166	0.283133	30.4593%	28.4901%	50.6	47.3	93%	99%
99	33	116	0.284483	32.4551%	31.6777%	37.6	36.7	88%	90%
Subtotal	4,977	201,434				5,913.4	5,071.6	84%	98%
100 or more	56	190	0.294737	37.1685%	43.7433%	70.6	83.1	79%	67%
Total	5,033	201,624				5,984.0	5,154.7	84%	98%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**WOMEN**

**TABLE 1A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0773%	0.0751%	0	0	0%	0%
42	0	2	0.000000	0.0838%	0.0803%	0.0	0.0	0%	0%
43	0	3	0.000000	0.0913%	0.0853%	0.0	0.0	0%	0%
44	0	0	N/A	0.0997%	0.0901%	0	0	0%	0%
45	0	2	0.000000	0.1090%	0.0947%	0.0	0.0	0%	0%
46	0	2	0.000000	0.1193%	0.0991%	0.0	0.0	0%	0%
47	0	1	0.000000	0.1307%	0.1032%	0.0	0.0	0%	0%
48	0	3	0.000000	0.1432%	0.1071%	0.0	0.0	0%	0%
49	0	3	0.000000	0.1561%	0.1110%	0.0	0.0	0%	0%
50	0	5	0.000000	0.1700%	0.1160%	0.0	0.0	0%	0%
51	0	5	0.000000	0.1846%	0.1226%	0.0	0.0	0%	0%
52	0	15	0.000000	0.2009%	0.1311%	0.0	0.0	0%	0%
53	0	39	0.000000	0.2184%	0.1417%	0.1	0.1	0%	0%
54	0	113	0.000000	0.2347%	0.1549%	0.3	0.2	0%	0%
55	2	502	0.003984	0.2474%	0.1710%	1.2	0.9	161%	233%
56	24	3,928	0.006110	0.2643%	0.1902%	10.4	7.5	231%	321%
57	29	6,543	0.004432	0.2849%	0.2128%	18.6	13.9	156%	208%
58	31	8,669	0.003576	0.3167%	0.2392%	27.5	20.7	113%	149%
59	41	10,583	0.003874	0.3590%	0.2695%	38.0	28.5	108%	144%
60	53	12,618	0.004200	0.4033%	0.3038%	50.9	38.3	104%	138%
61	78	14,502	0.005379	0.4501%	0.3425%	65.3	49.7	119%	157%
62	76	15,698	0.004841	0.4890%	0.3855%	76.8	60.5	99%	126%
63	106	17,517	0.006051	0.5282%	0.4334%	92.5	75.9	115%	140%
64	108	18,091	0.005970	0.5934%	0.4865%	107.4	88.0	101%	123%
65	94	17,899	0.005252	0.6415%	0.5456%	114.8	97.7	82%	96%
66	113	17,299	0.006532	0.7180%	0.6115%	124.2	105.8	91%	107%
67	112	16,907	0.006624	0.7974%	0.6850%	134.8	115.8	83%	97%
68	112	16,434	0.006815	0.9058%	0.7670%	148.9	126.0	75%	89%
69	146	15,946	0.009156	0.9655%	0.8587%	154.0	136.9	95%	107%
70	149	15,104	0.009865	1.0535%	0.9612%	159.1	145.2	94%	103%
71	156	14,293	0.010914	1.1719%	1.0760%	167.5	153.8	93%	101%
72	171	13,726	0.012458	1.2966%	1.2044%	178.0	165.3	96%	103%
73	171	13,260	0.012896	1.4132%	1.3482%	187.4	178.8	91%	96%
74	189	12,824	0.014738	1.5334%	1.5088%	196.6	193.5	96%	98%
75	207	12,395	0.016700	1.6403%	1.6889%	203.3	209.3	102%	99%
76	225	12,206	0.018434	1.8779%	1.8910%	229.2	230.8	98%	97%
77	202	11,794	0.017127	2.1262%	2.1178%	250.8	249.8	81%	81%
78	247	11,471	0.021533	2.3635%	2.3724%	271.1	272.1	91%	91%
79	307	10,989	0.027937	2.5970%	2.6592%	285.4	292.2	108%	105%
80	286	10,533	0.027153	2.8249%	2.9809%	297.5	314.0	96%	91%
81	330	10,022	0.032928	3.3630%	3.3430%	337.0	335.0	98%	98%
82	321	9,411	0.034109	3.8409%	3.7490%	361.5	352.8	89%	91%
83	354	8,799	0.040232	4.2510%	4.2057%	374.0	370.1	95%	96%
84	363	8,120	0.044704	4.9528%	4.7170%	402.2	383.0	90%	95%
85	366	7,462	0.049049	5.5918%	5.2899%	417.3	394.7	88%	93%
86	403	6,703	0.060122	6.1067%	5.9299%	409.3	397.5	98%	101%
87	429	6,011	0.071369	6.7450%	6.6427%	405.4	399.3	106%	107%
88	409	5,326	0.076793	7.3522%	7.4373%	391.6	396.1	104%	103%
89	361	4,676	0.077203	8.2055%	8.3244%	383.7	389.2	94%	93%
90	382	4,026	0.094883	9.3902%	9.3126%	378.0	374.9	101%	102%
91	408	3,464	0.117783	10.6401%	10.4127%	368.6	360.7	111%	113%
92	364	2,982	0.122066	11.7082%	11.6357%	349.1	347.0	104%	105%
93	399	2,627	0.151884	12.8597%	12.9957%	337.8	341.4	118%	117%
94	322	2,235	0.144072	14.7719%	14.5118%	330.2	324.3	98%	99%
95	370	1,929	0.191809	17.0884%	16.2049%	329.6	312.6	112%	118%
96	317	1,571	0.201782	19.1207%	18.1084%	300.4	284.5	106%	111%
97	258	1,223	0.210957	20.8710%	20.2314%	255.3	247.4	101%	104%
98	218	927	0.235167	23.1412%	22.6081%	214.5	209.6	102%	104%
99	177	691	0.256151	23.5424%	25.2614%	162.7	174.6	109%	101%
Subtotal	9,986	420,129				10,099.8	9,766.1	99%	102%
100 or more	381	1,273	0.299293	25.4498%	35.4410%	324.0	451.2	118%	84%
Total	10,367	421,402				10,423.8	10,217.2	99%	101%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

TABLE 1A GROUPED

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	3	0.000000	0.1267%	0.1008%	0.0	0.0	0%	0%
45-49	0	3	0.000000	0.1966%	0.1507%	0.0	0.0	0%	0%
50-54	0	63	0.000000	0.3542%	0.2428%	0.2	0.2	0%	0%
55-59	92	17,987	0.005115	0.5315%	0.3636%	95.6	65.4	96%	141%
60-64	317	45,575	0.006956	0.8438%	0.5932%	384.6	270.3	82%	117%
65-69	397	42,869	0.009261	1.4050%	1.0153%	602.3	435.2	66%	91%
70-74	479	32,039	0.014951	2.2253%	1.7809%	713.0	570.6	67%	84%
75-79	759	26,732	0.028393	3.4175%	3.0653%	913.6	819.4	83%	93%
80-84	995	19,924	0.049940	5.6543%	5.1908%	1,126.6	1,034.2	88%	96%
85-89	922	10,614	0.086866	9.5352%	8.7239%	1,012.1	926.0	91%	100%
90-94	683	4,312	0.158395	16.5381%	14.6637%	713.1	632.3	96%	108%
95-99	333	1,313	0.253618	26.8407%	24.2187%	352.4	318.0	94%	105%
100+	56	190	0.294737	37.1685%	43.7433%	70.6	83.1	79%	67%
Total	5,033	201,624				5,984.0	5,154.7	84%	98%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**WOMEN**

TABLE 1A GROUPED

10-YEAR PERIOD ENDING 6/30/2013

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Rate		Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	5	0.000000	0.0883%	0.0833%	0.0	0.0	0%	0%
45-49	0	11	0.000000	0.1350%	0.1041%	0.0	0.0	0%	0%
50-54	0	177	0.000000	0.2250%	0.1480%	0.4	0.3	0%	0%
55-59	127	30,225	0.004202	0.3167%	0.2366%	95.7	71.5	133%	178%
60-64	421	78,426	0.005368	0.5009%	0.3984%	392.8	312.4	107%	135%
65-69	577	84,485	0.006830	0.8009%	0.6892%	676.7	582.2	85%	99%
70-74	836	69,207	0.012080	1.2840%	1.2088%	888.6	836.5	94%	100%
75-79	1,188	58,855	0.020185	2.1065%	2.1312%	1,239.8	1,254.3	96%	95%
80-84	1,654	46,885	0.035278	3.7800%	3.7430%	1,772.3	1,754.9	93%	94%
85-89	1,968	30,178	0.065213	6.6515%	6.5507%	2,007.3	1,976.9	98%	100%
90-94	1,875	15,334	0.122277	11.5021%	11.4017%	1,763.7	1,748.3	106%	107%
95-99	1,340	6,341	0.211323	19.9096%	19.3761%	1,262.5	1,228.6	106%	109%
100+	381	1,273	0.299293	25.4498%	35.4410%	324.0	451.2	118%	84%
Total	10,367	421,402				10,423.8	10,217.2	99%	101%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1B		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	52,681	1,539	1,274.6	121%	2.9214%	2.4195%
2005	57,127	1,547	1,318.0	117%	2.7080%	2.3071%
2006	59,397	1,457	1,361.9	107%	2.4530%	2.2929%
2007	61,317	1,759	1,414.2	124%	2.8687%	2.3064%
2008	62,095	1,348	1,444.4	93%	2.1709%	2.3261%
2009	63,289	1,446	1,493.5	97%	2.2848%	2.3598%
2010	64,243	1,598	1,527.1	105%	2.4874%	2.3770%
2011	65,662	1,630	1,614.2	101%	2.4824%	2.4584%
2012	67,590	1,563	1,649.4	95%	2.3125%	2.4402%
2013	69,627	1,513	1,720.6	88%	2.1730%	2.4712%
Total	623,028	15,400	14,817.9	104%	2.4718%	2.3784%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN**

TABLE 2A

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	6	0.000000	1.5004%	1.6674%	0.1	0.1	0%	0%
42	0	7	0.000000	1.5298%	1.7475%	0.1	0.1	0%	0%
43	0	7	0.000000	1.5599%	1.8275%	0.1	0.1	0%	0%
44	0	7	0.000000	1.5909%	1.9075%	0.1	0.1	0%	0%
45	0	9	0.000000	1.6226%	1.9875%	0.1	0.2	0%	0%
46	0	10	0.000000	1.6552%	2.0675%	0.2	0.2	0%	0%
47	0	16	0.000000	1.6886%	2.1476%	0.3	0.3	0%	0%
48	0	22	0.000000	1.7229%	2.1884%	0.4	0.5	0%	0%
49	0	23	0.000000	1.7581%	2.2292%	0.4	0.5	0%	0%
50	2	36	0.055556	1.7942%	2.2700%	0.6	0.8	310%	245%
51	0	38	0.000000	1.8312%	2.3108%	0.7	0.9	0%	0%
52	1	42	0.023810	1.8691%	2.3516%	0.8	1.0	127%	101%
53	0	46	0.000000	1.8829%	2.3536%	0.9	1.1	0%	0%
54	0	48	0.000000	1.9720%	2.3556%	0.9	1.1	0%	0%
55	1	60	0.016667	2.0747%	2.3576%	1.2	1.4	80%	71%
56	0	68	0.000000	2.1827%	2.3595%	1.5	1.6	0%	0%
57	0	80	0.000000	2.2621%	2.3615%	1.8	1.9	0%	0%
58	1	89	0.011236	2.3103%	2.3615%	2.1	2.1	49%	48%
59	3	92	0.032609	2.3566%	2.3615%	2.2	2.2	138%	138%
60	1	111	0.009009	2.4063%	2.3615%	2.7	2.6	37%	38%
61	3	120	0.025000	2.4650%	2.3615%	3.0	2.8	101%	106%
62	2	158	0.012658	2.5240%	2.2875%	4.0	3.6	50%	55%
63	4	181	0.022099	2.5946%	2.2998%	4.7	4.2	85%	96%
64	2	162	0.012346	2.6681%	2.3120%	4.3	3.7	46%	53%
65	4	159	0.025157	2.7515%	2.3242%	4.4	3.7	91%	108%
66	1	139	0.007194	2.8292%	2.3365%	3.9	3.2	25%	31%
67	0	129	0.000000	2.9138%	2.3487%	3.8	3.0	0%	0%
68	2	119	0.016807	3.0064%	2.4534%	3.6	2.9	56%	69%
69	1	102	0.009804	3.1199%	2.5582%	3.2	2.6	31%	38%
70	4	78	0.051282	3.2437%	2.6630%	2.5	2.1	158%	193%
71	2	59	0.033898	3.3412%	2.7677%	2.0	1.6	101%	122%
72	0	58	0.000000	3.5067%	2.8725%	2.0	1.7	0%	0%
73	4	54	0.074074	3.6373%	3.1570%	2.0	1.7	204%	235%
74	0	51	0.000000	3.8413%	3.4415%	2.0	1.8	0%	0%
75	1	46	0.021739	4.0146%	3.7260%	1.8	1.7	54%	58%
76	2	39	0.051282	4.2606%	4.0105%	1.7	1.6	120%	128%
77	0	33	0.000000	4.6088%	4.2950%	1.5	1.4	0%	0%
78	4	34	0.117647	4.9180%	4.8682%	1.7	1.7	239%	242%
79	1	26	0.038462	5.2533%	5.4414%	1.4	1.4	73%	71%
80	2	27	0.074074	5.7873%	6.0146%	1.6	1.6	128%	123%
81	1	26	0.038462	6.3390%	6.5878%	1.6	1.7	61%	58%
82	1	22	0.045455	7.0223%	7.1610%	1.5	1.6	65%	63%
83	3	25	0.120000	7.6545%	8.1535%	1.9	2.0	157%	147%
84	3	23	0.130435	8.5682%	9.1460%	2.0	2.1	152%	143%
85	2	18	0.111111	9.8052%	10.1385%	1.8	1.8	113%	110%
86	3	19	0.157895	11.1103%	11.1311%	2.1	2.1	142%	142%
87	1	14	0.071429	12.0668%	12.1236%	1.7	1.7	59%	59%
88	1	10	0.100000	13.2929%	13.6878%	1.3	1.4	75%	73%
89	1	13	0.076923	15.2695%	15.2521%	2.0	2.0	50%	50%
90	1	12	0.083333	17.4349%	16.8163%	2.1	2.0	48%	50%
91	3	14	0.214286	19.5083%	18.3805%	2.7	2.6	110%	117%
92	5	15	0.333333	21.3577%	19.9447%	3.2	3.0	156%	167%
93	0	6	0.000000	24.0427%	22.2548%	1.4	1.3	0%	0%
94	0	6	0.000000	26.2199%	24.5648%	1.6	1.5	0%	0%
95	2	5	0.400000	27.9670%	26.8748%	1.4	1.3	143%	149%
96	1	6	0.166667	30.7660%	29.1848%	1.8	1.8	54%	57%
97	1	7	0.142857	32.7819%	31.4948%	2.3	2.2	44%	45%
98	3	5	0.600000	34.0444%	34.7464%	1.7	1.7	176%	173%
99	1	2	0.500000	36.3323%	37.9980%	0.7	0.8	138%	132%
Subtotal	81	2,839				107.0	101.6	76%	80%
100 or more	0	0	N/A	39.2003%	47.7528%	0	0	0%	0%
Total	81	2,839				107.0	101.6	76%	80%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**WOMEN**

**TABLE 2A**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
41	0	21	0.000000	1.5988%	1.0154%	0.3	0.2	0%	0%
42	3	24	0.125000	1.6090%	1.1108%	0.4	0.3	777%	1125%
43	0	20	0.000000	1.6195%	1.2063%	0.3	0.2	0%	0%
44	2	22	0.090909	1.6302%	1.3017%	0.4	0.3	558%	698%
45	0	38	0.000000	1.6630%	1.3972%	0.6	0.5	0%	0%
46	1	50	0.020000	1.6966%	1.4926%	0.8	0.7	118%	134%
47	1	55	0.018182	1.7311%	1.5881%	1.0	0.9	105%	114%
48	0	72	0.000000	1.7432%	1.6835%	1.3	1.2	0%	0%
49	0	86	0.000000	1.7557%	1.7790%	1.5	1.5	0%	0%
50	1	103	0.009709	1.7451%	1.8744%	1.8	1.9	56%	52%
51	2	133	0.015038	1.7347%	1.9699%	2.3	2.6	87%	76%
52	3	149	0.020134	1.7020%	2.0653%	2.5	3.1	118%	97%
53	3	174	0.017241	1.6702%	2.0653%	2.9	3.6	103%	83%
54	1	197	0.005076	1.6392%	2.0653%	3.2	4.1	31%	25%
55	1	214	0.004673	1.6089%	2.0653%	3.4	4.4	29%	23%
56	2	233	0.008584	1.5795%	2.0653%	3.7	4.8	54%	42%
57	4	272	0.014706	1.6186%	1.9546%	4.4	5.3	91%	75%
58	4	311	0.012862	1.7257%	1.9546%	5.4	6.1	75%	66%
59	9	347	0.025937	1.7653%	1.9546%	6.1	6.8	147%	133%
60	8	373	0.021448	1.7781%	1.9546%	6.6	7.3	121%	110%
61	5	405	0.012346	1.7911%	1.9546%	7.3	7.9	69%	63%
62	7	412	0.016990	1.8043%	1.7252%	7.4	7.1	94%	98%
63	6	407	0.014742	1.8178%	1.7330%	7.4	7.1	81%	85%
64	12	412	0.029126	1.8314%	1.7409%	7.5	7.2	159%	167%
65	6	363	0.016529	1.8453%	1.7487%	6.7	6.3	90%	95%
66	8	332	0.024096	1.8594%	1.7565%	6.2	5.8	130%	137%
67	8	321	0.024922	1.8737%	1.7644%	6.0	5.7	133%	141%
68	6	280	0.021429	1.8882%	1.8868%	5.3	5.3	113%	114%
69	5	252	0.019841	1.9124%	2.0093%	4.8	5.1	104%	99%
70	9	223	0.040359	2.0382%	2.1318%	4.5	4.8	198%	189%
71	5	175	0.028571	2.1701%	2.2542%	3.8	3.9	132%	127%
72	7	168	0.041667	2.3429%	2.3767%	3.9	4.0	178%	175%
73	3	147	0.020408	2.5200%	2.6582%	3.7	3.9	81%	77%
74	4	132	0.030303	2.7403%	2.9398%	3.6	3.9	111%	103%
75	0	124	0.000000	2.9604%	3.2213%	3.7	4.0	0%	0%
76	3	108	0.027778	3.1952%	3.5029%	3.5	3.8	87%	79%
77	4	108	0.037037	3.4579%	3.7844%	3.7	4.1	107%	98%
78	1	105	0.009524	3.6619%	4.2531%	3.8	4.5	26%	22%
79	7	104	0.067308	3.8863%	4.7217%	4.0	4.9	173%	143%
80	7	92	0.076087	4.2597%	5.1903%	3.9	4.8	179%	147%
81	6	80	0.075000	4.6057%	5.6589%	3.7	4.5	163%	133%
82	5	68	0.073529	4.9847%	6.1275%	3.4	4.2	148%	120%
83	5	63	0.079365	5.5641%	6.7947%	3.5	4.3	143%	117%
84	2	60	0.033333	6.1750%	7.4619%	3.7	4.5	54%	45%
85	5	65	0.076923	6.8408%	8.1291%	4.4	5.3	112%	95%
86	4	62	0.064516	7.3598%	8.7962%	4.6	5.5	88%	73%
87	9	57	0.157895	8.2387%	9.4634%	4.7	5.4	192%	167%
88	7	54	0.129630	9.4282%	10.3242%	5.1	5.6	137%	126%
89	8	50	0.160000	10.5446%	11.1849%	5.3	5.6	152%	143%
90	4	53	0.075472	11.6032%	12.0457%	6.1	6.4	65%	63%
91	7	57	0.122807	12.9504%	12.9065%	7.4	7.4	95%	95%
92	11	57	0.192982	14.6618%	13.7672%	8.4	7.8	132%	140%
93	7	50	0.140000	16.0737%	14.8001%	8.0	7.4	87%	95%
94	6	42	0.142857	17.5674%	15.8330%	7.4	6.6	81%	90%
95	2	30	0.066667	18.9886%	16.8659%	5.7	5.1	35%	40%
96	5	26	0.192308	20.6983%	17.8988%	5.4	4.7	93%	107%
97	3	20	0.150000	22.2344%	18.9317%	4.4	3.8	67%	79%
98	4	14	0.285714	23.0718%	20.0987%	3.2	2.8	124%	142%
99	2	15	0.133333	23.4718%	21.2658%	3.5	3.2	57%	63%
Subtotal	260	8,487				247.8	259.7	105%	100%
100 or more	13	38	0.342105	25.4498%	24.7670%	9.7	9.4	134%	138%
Total	273	8,525				257.5	269.1	106%	101%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN**

TABLE 2A GROUPED

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	27	0.000000	1.5469%	1.7919%	0.4	0.5	0%	0%
45-49	0	80	0.000000	1.7064%	2.1543%	1.4	1.7	0%	0%
50-54	3	210	0.014286	1.8759%	2.3316%	3.9	4.9	76%	61%
55-59	5	389	0.012853	2.2527%	2.3606%	8.8	9.2	57%	54%
60-64	12	732	0.016393	2.5458%	2.3193%	18.6	17.0	64%	71%
65-69	8	648	0.012346	2.9053%	2.3923%	18.8	15.5	42%	52%
70-74	10	300	0.033333	3.4862%	2.9453%	10.5	8.8	96%	113%
75-79	8	178	0.044944	4.5322%	4.3626%	8.1	7.8	99%	103%
80-84	10	123	0.081301	7.0243%	7.3611%	8.6	9.1	116%	110%
85-89	8	74	0.108108	11.9994%	12.1469%	8.9	9.0	90%	89%
90-94	9	53	0.169811	20.8354%	19.6078%	11.0	10.4	82%	87%
95-99	8	25	0.320000	31.8716%	31.1870%	8.0	7.8	100%	103%
100+	0	0	N/A			0	0	0%	0%
Total	81	2,839				107.0	101.6	76%	80%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**WOMEN**

TABLE 2A GROUPED

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	5	87	0.057471	1.6143%	1.1580%	1.4	1.0	356%	496%
45-49	2	301	0.006645	1.7267%	1.6255%	5.2	4.9	38%	41%
50-54	10	756	0.013228	1.6899%	2.0225%	12.8	15.3	78%	65%
55-59	20	1,377	0.014524	1.6716%	1.9905%	23.0	27.4	87%	73%
60-64	38	2,009	0.018915	1.8051%	1.8188%	36.3	36.5	105%	104%
65-69	33	1,548	0.021318	1.8729%	1.8210%	29.0	28.2	114%	117%
70-74	28	845	0.033136	2.3196%	2.4236%	19.6	20.5	143%	137%
75-79	15	549	0.027322	3.4140%	3.8690%	18.7	21.2	80%	71%
80-84	25	363	0.068871	5.0147%	6.1231%	18.2	22.2	137%	112%
85-89	33	288	0.114583	8.3574%	9.4789%	24.1	27.3	137%	121%
90-94	35	259	0.135135	14.4030%	13.7599%	37.3	35.6	94%	98%
95-99	16	105	0.152381	21.2151%	18.5747%	22.3	19.5	72%	82%
100+	13	38	0.342105	25.4498%	24.7670%	9.7	9.4	134%	138%
Total	273	8,525				257.5	269.1	106%	101%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN**

TABLE 2A

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	9	0.000000	1.5416%	1.8100%	0.1	0.2	0%	0%
42	0	13	0.000000	1.5766%	1.9033%	0.2	0.2	0%	0%
43	0	19	0.000000	1.6126%	1.9933%	0.3	0.4	0%	0%
44	1	20	0.050000	1.6495%	2.0795%	0.3	0.4	303%	240%
45	0	28	0.000000	1.6876%	2.1618%	0.5	0.6	0%	0%
46	1	35	0.028571	1.7267%	2.2401%	0.6	0.8	165%	128%
47	1	44	0.022727	1.7669%	2.3151%	0.8	1.0	129%	98%
48	1	52	0.019231	1.8083%	2.3449%	0.9	1.2	106%	82%
49	2	55	0.036364	1.8509%	2.3721%	1.0	1.3	196%	153%
50	4	76	0.052632	1.8946%	2.3969%	1.4	1.8	278%	220%
51	2	84	0.023810	1.9396%	2.4195%	1.6	2.0	123%	98%
52	1	98	0.010204	1.9859%	2.4399%	1.9	2.4	51%	42%
53	2	125	0.016000	2.0006%	2.4198%	2.5	3.0	80%	66%
54	3	154	0.019481	2.0952%	2.4026%	3.2	3.7	93%	81%
55	3	196	0.015306	2.1976%	2.3904%	4.3	4.7	70%	64%
56	7	247	0.028340	2.3049%	2.3840%	5.7	5.9	123%	119%
57	6	291	0.020619	2.3815%	2.3848%	6.9	6.9	87%	86%
58	8	308	0.025974	2.4249%	2.3903%	7.5	7.4	107%	109%
59	14	321	0.043614	2.4734%	2.4016%	7.9	7.7	176%	182%
60	6	330	0.018182	2.5256%	2.4179%	8.3	8.0	72%	75%
61	11	338	0.032544	2.5793%	2.4368%	8.7	8.2	126%	134%
62	6	337	0.017804	2.6411%	2.3796%	8.9	8.0	67%	75%
63	5	334	0.014970	2.7067%	2.4106%	9.0	8.1	55%	62%
64	5	301	0.016611	2.7834%	2.4397%	8.4	7.3	60%	68%
65	8	287	0.027875	2.8704%	2.4667%	8.2	7.1	97%	113%
66	2	243	0.008230	2.9424%	2.4913%	7.2	6.1	28%	33%
67	1	216	0.004630	3.0305%	2.5144%	6.5	5.4	15%	18%
68	3	201	0.014925	3.1363%	2.6346%	6.3	5.3	48%	57%
69	3	175	0.017143	3.2547%	2.7547%	5.7	4.8	53%	62%
70	6	152	0.039474	3.3942%	2.8740%	5.2	4.4	116%	137%
71	3	127	0.023622	3.4962%	2.9929%	4.4	3.8	68%	79%
72	2	126	0.015873	3.6694%	3.1113%	4.6	3.9	43%	51%
73	6	112	0.053571	3.8060%	3.4240%	4.3	3.8	141%	156%
74	4	110	0.036364	4.0195%	3.7360%	4.4	4.1	90%	97%
75	2	103	0.019417	4.1881%	4.0465%	4.3	4.2	46%	48%
76	5	95	0.052632	4.4447%	4.3564%	4.2	4.1	118%	121%
77	4	90	0.044444	4.7934%	4.6640%	4.3	4.2	93%	95%
78	8	82	0.097561	5.0994%	5.2821%	4.2	4.3	191%	185%
79	3	72	0.041667	5.4305%	5.8980%	3.9	4.2	77%	71%
80	5	70	0.071429	5.9645%	6.5119%	4.2	4.6	120%	110%
81	4	65	0.061538	6.5133%	7.1230%	4.2	4.6	94%	86%
82	3	57	0.052632	7.1935%	7.7316%	4.1	4.4	73%	68%
83	5	60	0.083333	7.8411%	8.7906%	4.7	5.3	106%	95%
84	5	57	0.087719	8.7507%	9.8465%	5.0	5.6	100%	89%
85	6	56	0.107143	10.0141%	10.8994%	5.6	6.1	107%	98%
86	6	57	0.105263	11.3470%	11.9481%	6.5	6.8	93%	88%
87	4	52	0.076923	12.2866%	12.9922%	6.4	6.8	63%	59%
88	6	47	0.127660	13.4943%	14.6400%	6.3	6.9	95%	87%
89	7	42	0.166667	15.5008%	16.2764%	6.5	6.8	108%	102%
90	9	43	0.209302	17.6458%	17.8999%	7.6	7.7	119%	117%
91	8	37	0.216216	19.7443%	19.5091%	7.3	7.2	110%	111%
92	9	33	0.272727	21.5511%	21.0982%	7.1	7.0	127%	129%
93	1	21	0.047619	24.2604%	23.4462%	5.1	4.9	20%	20%
94	4	19	0.210526	26.4573%	25.7826%	5.0	4.9	80%	82%
95	3	14	0.214286	28.1355%	28.1157%	3.9	3.9	76%	76%
96	2	9	0.222222	30.9513%	30.4581%	2.8	2.7	72%	73%
97	1	9	0.111111	32.9794%	32.7890%	3.0	3.0	34%	34%
98	3	7	0.428571	34.1468%	36.0863%	2.4	2.5	126%	119%
99	4	5	0.800000	36.4415%	39.3715%	1.8	2.0	220%	203%
Subtotal	244	6,766				268.6	264.8	91%	92%
100 or more	1	1	1.000000	39.2003%	49.4789%	0.4	0.5	255%	202%
Total	245	6,767				269.0	265.3	91%	92%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**WOMEN**

TABLE 2A

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	53	0.000000	1.6730%	1.0907%	0.9	0.6	0%	0%
42	3	57	0.052632	1.6836%	1.1892%	1.0	0.7	313%	443%
43	1	56	0.017857	1.6946%	1.2845%	0.9	0.7	105%	139%
44	3	66	0.045455	1.7058%	1.3765%	1.1	0.9	266%	330%
45	0	95	0.000000	1.7454%	1.4657%	1.7	1.4	0%	0%
46	2	115	0.017391	1.7861%	1.5519%	2.1	1.8	97%	112%
47	3	141	0.021277	1.8280%	1.6357%	2.6	2.3	116%	130%
48	3	178	0.016854	1.8409%	1.7183%	3.3	3.1	92%	98%
49	6	205	0.029268	1.8540%	1.8016%	3.8	3.7	158%	162%
50	3	236	0.012712	1.8372%	1.8876%	4.3	4.5	69%	67%
51	6	281	0.021352	1.8207%	1.9774%	5.1	5.6	117%	108%
52	6	332	0.018072	1.7756%	2.0728%	5.9	6.9	102%	87%
53	4	406	0.009852	1.7318%	2.0780%	7.0	8.4	57%	47%
54	6	495	0.012121	1.6893%	2.0884%	8.4	10.3	72%	58%
55	11	578	0.019031	1.6482%	2.1034%	9.5	12.2	115%	90%
56	12	663	0.018100	1.6082%	2.1210%	10.7	14.1	113%	85%
57	12	722	0.016620	1.6431%	2.0254%	11.9	14.6	101%	82%
58	14	780	0.017949	1.7518%	2.0436%	13.7	15.9	102%	88%
59	21	812	0.025862	1.7920%	2.0609%	14.6	16.7	144%	125%
60	15	846	0.017730	1.8050%	2.0758%	15.3	17.6	98%	85%
61	13	869	0.014960	1.8182%	2.0884%	15.8	18.1	82%	72%
62	14	838	0.016706	1.8317%	1.8515%	15.3	15.5	91%	90%
63	16	822	0.019465	1.8453%	1.8660%	15.2	15.3	105%	104%
64	19	791	0.024020	1.8592%	1.8781%	14.7	14.9	129%	128%
65	11	709	0.015515	1.8733%	1.8881%	13.3	13.4	83%	82%
66	11	649	0.016949	1.8876%	1.8969%	12.3	12.3	90%	89%
67	16	590	0.027119	1.9021%	1.9046%	11.2	11.2	143%	142%
68	16	521	0.030710	1.9168%	2.0353%	10.0	10.6	160%	151%
69	8	472	0.016949	1.9414%	2.1656%	9.2	10.2	87%	78%
70	18	429	0.041958	2.0691%	2.2953%	8.9	9.8	203%	183%
71	10	368	0.027174	2.2096%	2.4246%	8.1	8.9	123%	112%
72	9	344	0.026163	2.3856%	2.5535%	8.2	8.8	110%	102%
73	7	325	0.021538	2.5737%	2.8531%	8.4	9.3	84%	75%
74	11	300	0.036667	2.7986%	3.1514%	8.4	9.5	131%	116%
75	7	276	0.025362	3.0326%	3.4497%	8.4	9.5	84%	74%
76	8	251	0.031873	3.2731%	3.7481%	8.2	9.4	97%	85%
77	7	243	0.028807	3.5315%	4.0473%	8.6	9.8	82%	71%
78	4	229	0.017467	3.7399%	4.5471%	8.6	10.4	47%	38%
79	8	220	0.036364	3.9690%	5.0496%	8.7	11.1	92%	72%
80	12	217	0.055300	4.3504%	5.5530%	9.4	12.1	127%	100%
81	13	207	0.062802	4.7037%	6.0594%	9.7	12.5	134%	104%
82	13	197	0.065990	5.0909%	6.5665%	10.0	12.9	130%	100%
83	13	189	0.068783	5.6826%	7.2897%	10.7	13.8	121%	94%
84	8	191	0.041885	6.3065%	8.0129%	12.0	15.3	66%	52%
85	13	200	0.065000	6.9654%	8.7365%	13.9	17.5	93%	74%
86	15	200	0.075000	7.4713%	9.4574%	14.9	18.9	100%	79%
87	13	194	0.067010	8.3383%	10.1716%	16.2	19.7	80%	66%
88	22	204	0.107843	9.5422%	11.0876%	19.5	22.6	113%	97%
89	27	186	0.145161	10.6401%	11.9985%	19.8	22.3	136%	121%
90	21	172	0.122093	11.7082%	12.9008%	20.1	22.2	104%	95%
91	15	157	0.095541	13.0676%	13.7930%	20.5	21.7	73%	69%
92	27	144	0.187500	14.7946%	14.6723%	21.3	21.1	127%	128%
93	25	127	0.196850	16.1706%	15.7217%	20.5	20.0	122%	125%
94	17	106	0.160377	17.6732%	16.7606%	18.7	17.8	91%	96%
95	14	88	0.159091	19.1030%	17.7923%	16.8	15.7	83%	89%
96	15	74	0.202703	20.8230%	18.8301%	15.4	13.9	97%	108%
97	7	57	0.122807	22.3013%	19.8581%	12.7	11.3	55%	62%
98	15	47	0.319149	23.1412%	21.0246%	10.9	9.9	138%	152%
99	4	32	0.125000	23.5424%	22.1823%	7.5	7.1	53%	56%
Subtotal	653	19,352				625.8	688.3	104%	95%
100 or more	24	71	0.338028	25.4498%	25.8344%	18.1	18.3	133%	131%
Total	677	19,423				643.9	706.7	105%	96%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	1	61	0.016393	1.6066%	1.9753%	1.0	1.2	102%	83%
45-49	5	214	0.023364	1.7816%	2.3047%	3.8	4.9	131%	101%
50-54	12	537	0.022346	2.0005%	2.4152%	10.7	13.0	112%	93%
55-59	38	1,363	0.027880	2.3726%	2.3907%	32.3	32.6	118%	117%
60-64	33	1,640	0.020122	2.6446%	2.4164%	43.4	39.6	76%	83%
65-69	17	1,122	0.015152	3.0244%	2.5562%	33.9	28.7	50%	59%
70-74	21	627	0.033493	3.6534%	3.1952%	22.9	20.0	92%	105%
75-79	22	442	0.049774	4.7379%	4.7697%	20.9	21.1	105%	104%
80-84	22	309	0.071197	7.1850%	7.9230%	22.2	24.5	99%	90%
85-89	29	254	0.114173	12.3297%	13.1444%	31.3	33.4	93%	87%
90-94	31	153	0.202614	20.9977%	20.7190%	32.1	31.7	96%	98%
95-99	13	44	0.295455	31.6025%	32.0978%	13.9	14.1	93%	92%
100+	1	1	1.000000	39.2003%	49.4789%	0.4	0.5	255%	202%
Total	245	6,767				269.0	265.3	91%	92%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**WOMEN**

TABLE 2A GROUPED

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	7	232	0.030172	1.6901%	1.2430%	3.9	2.9	179%	243%
45-49	14	734	0.019074	1.8211%	1.6669%	13.4	12.2	105%	114%
50-54	25	1,750	0.014286	1.7566%	2.0381%	30.7	35.7	81%	70%
55-59	70	3,555	0.019691	1.6953%	2.0680%	60.3	73.5	116%	95%
60-64	77	4,166	0.018483	1.8314%	1.9544%	76.3	81.4	101%	95%
65-69	62	2,941	0.021081	1.9009%	1.9640%	55.9	57.8	111%	107%
70-74	55	1,766	0.031144	2.3768%	2.6206%	42.0	46.3	131%	119%
75-79	34	1,219	0.027892	3.4834%	4.1251%	42.5	50.3	80%	68%
80-84	59	1,001	0.058941	5.1940%	6.6545%	52.0	66.6	113%	89%
85-89	90	984	0.091463	8.5677%	10.2700%	84.3	101.1	107%	89%
90-94	105	706	0.148725	14.3383%	14.5475%	101.2	102.7	104%	102%
95-99	55	298	0.184564	21.2555%	19.4264%	63.3	57.9	87%	95%
100+	24	71	0.338028	25.4498%	25.8344%	18.1	18.3	133%	131%
Total	677	19,423				643.9	706.7	105%	96%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MORTALITY EXPERIENCE OF DISABILITY RETIREES**  
**MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2B Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	2,284	94	79.6	118%	4.1156%	3.4859%
2005	2,355	97	80.6	120%	4.1189%	3.4227%
2006	2,479	98	80.8	121%	3.9532%	3.2600%
2007	2,552	120	80.6	149%	4.7022%	3.1577%
2008	2,600	82	80.5	102%	3.1538%	3.0966%
2009	2,633	78	82.0	95%	2.9624%	3.1146%
2010	2,753	89	82.4	108%	3.2328%	2.9927%
2011	2,689	90	81.8	110%	3.3470%	3.0434%
2012	2,968	101	84.7	119%	3.4030%	2.8540%
2013	3,036	74	84.1	88%	2.4374%	2.7716%
Total	26,349	923	817.2	113%	3.5030%	3.1015%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	707	15,313	0.0462	9.00%	8.79%	1,378.2	1,346.0	51%	53%
1	2,333	31,538	0.0740	8.00%	8.04%	2,523.0	2,535.7	92%	92%
2	3,572	34,288	0.1042	7.00%	7.33%	2,400.2	2,513.3	149%	142%
3	2,875	31,497	0.0913	6.00%	6.66%	1,889.8	2,097.7	152%	137%
4	2,021	31,484	0.0642	5.00%	6.02%	1,574.2	1,895.3	128%	107%
5	1,393	25,428	0.0548	4.00%	5.41%	1,017.1	1,375.7	137%	101%
6	1,078	22,881	0.0471	3.50%	4.84%	800.8	1,107.4	135%	97%
7	756	19,910	0.0380	3.05%	4.30%	607.3	856.1	124%	88%
8	470	16,109	0.0292	2.65%	3.80%	426.9	612.1	110%	77%
9	303	13,804	0.0220	2.30%	3.33%	317.5	459.7	95%	66%
10	260	12,930	0.0201	2.00%	2.89%	258.6	373.7	101%	70%
11	207	10,610	0.0195	1.75%	2.49%	185.7	264.2	111%	78%
12	153	9,053	0.0169	1.55%	2.13%	140.3	192.8	109%	79%
13	107	7,366	0.0145	1.40%	1.80%	103.1	132.6	104%	81%
14	105	6,790	0.0155	1.30%	1.50%	88.3	101.9	119%	103%
15	71	5,944	0.0119	1.25%	1.24%	74.3	73.7	96%	96%
16	72	5,993	0.0120	1.20%	1.01%	71.9	60.5	100%	119%
17	57	5,556	0.0103	1.15%	0.82%	63.9	45.6	89%	125%
18	45	5,469	0.0082	1.10%	0.66%	60.2	36.1	75%	125%
19	44	5,164	0.0085	1.05%	0.53%	54.2	27.4	81%	161%
20	40	5,041	0.0079	1.00%	0.44%	50.4	22.2	79%	180%
21	21	4,554	0.0046	0.90%	0.39%	41.0	17.8	51%	118%
22	21	4,400	0.0048	0.80%	0.37%	35.2	16.3	60%	129%
23	18	3,635	0.0050	0.70%	0.37%	25.4	13.4	71%	134%
24	19	3,072	0.0062	0.60%	0.37%	18.4	11.4	103%	167%
25	22	2,410	0.0091	0.50%	0.37%	12.1	8.9	183%	247%
26	14	1,988	0.0070	0.50%	0.37%	9.9	7.4	141%	190%
27	10	1,421	0.0070	0.50%	0.37%	7.1	5.3	141%	190%
28	11	1,333	0.0083	0.50%	0.37%	6.7	4.9	165%	223%
29	12	977	0.0123	0.50%	0.37%	4.9	3.6	246%	332%
30	9	655	0.0137	0.50%	0.37%	3.3	2.4	275%	371%
Subtotal	16,826	346,613	0.0485			14,249.9	16,221.0	118%	104%
31 or more	66	907	0.0728	0.50%	0.37%	4.5	3.4	1455%	1967%
Total	16,892	347,520	0.0486			14,254.4	16,224.3	119%	104%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
0	1,878	25,692	0.0731	9.00%	8.79%	2,312.3	2,258.3	81%	83%
1	6,080	70,349	0.0864	8.00%	8.04%	5,627.9	5,656.1	108%	107%
2	8,706	84,845	0.1026	7.00%	7.33%	5,939.2	6,219.1	147%	140%
3	5,743	66,260	0.0867	6.00%	6.66%	3,975.6	4,412.9	144%	130%
4	3,736	59,363	0.0629	5.00%	6.02%	2,968.2	3,573.7	126%	105%
5	2,495	44,995	0.0555	4.00%	5.41%	1,799.8	2,434.2	139%	102%
6	1,984	41,382	0.0479	3.50%	4.84%	1,448.4	2,002.9	137%	99%
7	1,297	32,719	0.0396	3.05%	4.30%	997.9	1,406.9	130%	92%
8	904	28,096	0.0322	2.65%	3.80%	744.5	1,067.6	121%	85%
9	573	22,622	0.0253	2.30%	3.33%	520.3	753.3	110%	76%
10	529	21,615	0.0245	2.00%	2.89%	432.3	624.7	122%	85%
11	390	18,150	0.0215	1.75%	2.49%	317.6	451.9	123%	86%
12	354	17,461	0.0203	1.55%	2.13%	270.6	371.9	131%	95%
13	244	14,576	0.0167	1.40%	1.80%	204.1	262.4	120%	93%
14	246	14,789	0.0166	1.30%	1.50%	192.3	221.8	128%	111%
15	178	12,679	0.0140	1.25%	1.24%	158.5	157.2	112%	113%
16	181	13,426	0.0135	1.20%	1.01%	161.1	135.6	112%	133%
17	139	11,643	0.0119	1.15%	0.82%	133.9	95.5	104%	146%
18	122	12,156	0.0100	1.10%	0.66%	133.7	80.2	91%	152%
19	97	10,513	0.0092	1.05%	0.53%	110.4	55.7	88%	174%
20	95	10,666	0.0089	1.00%	0.44%	106.7	46.9	89%	202%
21	68	8,988	0.0076	0.90%	0.39%	80.9	35.1	84%	194%
22	58	9,065	0.0064	0.80%	0.37%	72.5	33.5	80%	173%
23	30	6,346	0.0047	0.70%	0.37%	44.4	23.5	68%	128%
24	38	5,895	0.0064	0.60%	0.37%	35.4	21.8	107%	174%
25	29	4,623	0.0063	0.50%	0.37%	23.1	17.1	125%	170%
26	24	4,169	0.0058	0.50%	0.37%	20.8	15.4	115%	156%
27	16	3,030	0.0053	0.50%	0.37%	15.2	11.2	106%	143%
28	20	2,693	0.0074	0.50%	0.37%	13.5	10.0	149%	201%
29	18	1,995	0.0090	0.50%	0.37%	10.0	7.4	180%	244%
30	13	1,673	0.0078	0.50%	0.37%	8.4	6.2	155%	210%
Total	36,285	682,474	0.0532			28,879.3	32,470.2	126%	112%
31 or more	12	1,305	0.0092	0.50%	0.37%	6.5	4.8	184%	249%
Total	36,297	683,779	0.0531			28,885.8	32,475.0	126%	112%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 3B Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals (3)	Expected Withdrawals (4)	Actual/ Expected (5)	Withdrawal Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	76,053	3,372	3,128.9	108%	4.43%	4.11%
2005	85,338	5,760	3,900.4	148%	6.75%	4.57%
2006	85,831	3,971	3,815.0	104%	4.63%	4.44%
2007	89,380	6,360	3,974.4	160%	7.12%	4.45%
2008	87,060	5,557	3,694.2	150%	6.38%	4.24%
2009	87,959	4,295	3,766.3	114%	4.88%	4.28%
2010	87,708	3,411	3,625.2	94%	3.89%	4.13%
2011	84,450	3,571	3,343.5	107%	4.23%	3.96%
2012	82,875	1,262	3,182.6	40%	1.52%	3.84%
2013	85,332	1,297	3,229.9	40%	1.52%	3.79%
Total	851,986	38,856	35,660.4	109%	4.56%	4.19%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - MEN**

TABLE 4A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	103	584	0.1764	27.05%	30.00%	158.0	175.2	65%	59%
56	43	144	0.2986	26.18%	30.00%	37.7	43.2	114%	100%
57	37	122	0.3033	27.38%	30.00%	33.4	36.6	111%	101%
58	37	105	0.3524	27.33%	30.00%	28.7	31.5	129%	117%
59	23	82	0.2805	28.05%	30.00%	23.0	24.6	100%	93%
60	32	100	0.3200	28.50%	30.00%	28.5	30.0	112%	107%
61	34	65	0.5231	25.69%	47.08%	16.7	30.6	204%	111%
62	162	1,248	0.1298	30.18%	30.74%	376.7	383.6	43%	42%
63	15	41	0.3659	21.22%	30.49%	8.7	12.5	172%	120%
64	3	33	0.0909	20.00%	25.00%	6.6	8.3	45%	36%
65	3	18	0.1667	30.00%	25.00%	5.4	4.5	56%	67%
66	6	14	0.4286	20.00%	30.00%	2.8	4.2	214%	143%
67	5	15	0.3333	20.00%	30.00%	3.0	4.5	167%	111%
68	1	9	0.1111	20.00%	30.00%	1.8	2.7	56%	37%
69	2	9	0.2222	20.00%	30.00%	1.8	2.7	111%	74%
70	0	9	0.0000	100.00%	100.00%	9.0	9.0	0%	0%
Subtotal	506	2,598				741.8	803.7	68%	63%
Other	2	12	0.1667	100.00%	100.00%	12.0	12.0	17%	17%
Total	508	2,610				753.8	815.7	67%	62%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - WOMEN**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	295	1,879	0.1570	27.49%	26.26%	516.5	493.4	57%	60%
56	121	425	0.2847	27.76%	26.12%	118.0	111.0	103%	109%
57	99	392	0.2526	28.70%	25.65%	112.5	100.6	88%	98%
58	104	424	0.2453	28.40%	24.20%	120.4	102.6	86%	101%
59	130	403	0.3226	28.59%	32.88%	115.2	132.5	113%	98%
60	115	345	0.3333	28.58%	33.58%	98.6	115.9	117%	99%
61	133	317	0.4196	27.51%	40.02%	87.2	126.9	153%	105%
62	506	4,466	0.1133	30.21%	35.73%	1,349.1	1,595.7	38%	32%
63	20	103	0.1942	21.75%	28.74%	22.4	29.6	89%	68%
64	15	88	0.1705	20.34%	21.70%	17.9	19.1	84%	79%
65	15	78	0.1923	30.26%	31.03%	23.6	24.2	64%	62%
66	14	55	0.2545	20.00%	30.00%	11.0	16.5	127%	85%
67	9	32	0.2813	20.00%	30.00%	6.4	9.6	141%	94%
68	5	24	0.2083	20.00%	30.00%	4.8	7.2	104%	69%
69	3	18	0.1667	20.00%	30.00%	3.6	5.4	83%	56%
70	5	35	0.1429	100.00%	100.00%	35.0	35.0	14%	14%
Subtotal	1,589	9,084				2,642.2	2,925.0	60%	54%
Other	1	25	0.0400	100.00%	100.00%	25.0	25.0	4%	4%
Total	1,590	9,109				2,667.2	2,950.0	60%	54%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**MEN - ELECTED RETIREMENT BENEFIT**

TABLE 4C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	74	412	0.1796	30.00%	30.00%	123.6	123.6	60%	60%
56	26	89	0.2921	30.00%	30.00%	26.7	26.7	97%	97%
57	26	90	0.2889	30.00%	30.00%	27.0	27.0	96%	96%
58	27	77	0.3506	30.00%	30.00%	23.1	23.1	117%	117%
59	18	66	0.2727	30.00%	30.00%	19.8	19.8	91%	91%
60	29	85	0.3412	30.00%	30.00%	25.5	25.5	114%	114%
61	22	37	0.5946	30.00%	60.00%	11.1	22.2	198%	99%
62	20	23	0.8696	40.00%	70.00%	9.2	16.1	217%	124%
63	5	5	1.0000	30.00%	70.00%	1.5	3.5	333%	143%
64	0	0	N/A	30.00%	70.00%	-	-	0%	0%
65	0	0	N/A	40.00%	70.00%	-	-	0%	0%
66	0	0	N/A	30.00%	70.00%	-	-	0%	0%
67	0	0	N/A	30.00%	70.00%	-	-	0%	0%
68	0	0	N/A	30.00%	70.00%	-	-	0%	0%
69	0	0	N/A	30.00%	70.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	247	884				267.5	287.5	92%	86%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	247	884				267.5	287.5	92%	86%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4D**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	212	1,407	0.1507	30.00%	25.00%	422.1	351.8	50%	60%
56	83	330	0.2515	30.00%	25.00%	99.0	82.5	84%	101%
57	81	341	0.2375	30.00%	25.00%	102.3	85.3	79%	95%
58	92	356	0.2584	30.00%	25.00%	106.8	89.0	86%	103%
59	121	346	0.3497	30.00%	35.00%	103.8	121.1	117%	100%
60	105	296	0.3547	30.00%	35.00%	88.8	103.6	118%	101%
61	102	238	0.4286	30.00%	45.00%	71.4	107.1	143%	95%
62	64	93	0.6882	40.00%	70.00%	37.2	65.1	172%	98%
63	11	18	0.6111	30.00%	70.00%	5.4	12.6	204%	87%
64	0	3	0.0000	30.00%	70.00%	0.9	2.1	0%	0%
65	0	2	0.0000	40.00%	70.00%	0.8	1.4	0%	0%
66	0	0	N/A	30.00%	70.00%	-	-	0%	0%
67	0	0	N/A	30.00%	70.00%	-	-	0%	0%
68	0	0	N/A	30.00%	70.00%	-	-	0%	0%
69	0	0	N/A	30.00%	70.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	871	3,430				1,038.5	1,021.5	84%	85%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	871	3,430				1,038.5	1,021.5	84%	85%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**MEN - MANDATED RETIREMENT BENEFIT**

TABLE 4E

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	29	172	0.1686	20.00%	30.00%	34.4	51.6	84%	56%
56	17	55	0.3091	20.00%	30.00%	11.0	16.5	155%	103%
57	11	32	0.3438	20.00%	30.00%	6.4	9.6	172%	115%
58	10	28	0.3571	20.00%	30.00%	5.6	8.4	179%	119%
59	5	16	0.3125	20.00%	30.00%	3.2	4.8	156%	104%
60	3	15	0.2000	20.00%	30.00%	3.0	4.5	100%	67%
61	12	28	0.4286	20.00%	30.00%	5.6	8.4	214%	143%
62	142	1,225	0.1159	30.00%	30.00%	367.5	367.5	39%	39%
63	10	36	0.2778	20.00%	25.00%	7.2	9.0	139%	111%
64	3	33	0.0909	20.00%	25.00%	6.6	8.3	45%	36%
65	3	18	0.1667	30.00%	25.00%	5.4	4.5	56%	67%
66	6	14	0.4286	20.00%	30.00%	2.8	4.2	214%	143%
67	5	15	0.3333	20.00%	30.00%	3.0	4.5	167%	111%
68	1	9	0.1111	20.00%	30.00%	1.8	2.7	56%	37%
69	2	9	0.2222	20.00%	30.00%	1.8	2.7	111%	74%
70	0	9	0.0000	100.00%	100.00%	9.0	9.0	0%	0%
Subtotal	259	1,714				474.3	516.2	55%	50%
Other	2	12	0.1667	100.00%	100.00%	12.0	12.0	17%	17%
Total	261	1,726				486.3	528.2	54%	49%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4F**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	83	472	0.1758	20.00%	30.00%	94.4	141.6	88%	59%
56	38	95	0.4000	20.00%	30.00%	19.0	28.5	200%	133%
57	18	51	0.3529	20.00%	30.00%	10.2	15.3	176%	118%
58	12	68	0.1765	20.00%	20.00%	13.6	13.6	88%	88%
59	9	57	0.1579	20.00%	20.00%	11.4	11.4	79%	79%
60	10	49	0.2041	20.00%	25.00%	9.8	12.3	102%	82%
61	31	79	0.3924	20.00%	25.00%	15.8	19.8	196%	157%
62	442	4,373	0.1011	30.00%	35.00%	1,311.9	1,530.6	34%	29%
63	9	85	0.1059	20.00%	20.00%	17.0	17.0	53%	53%
64	15	85	0.1765	20.00%	20.00%	17.0	17.0	88%	88%
65	15	76	0.1974	30.00%	30.00%	22.8	22.8	66%	66%
66	14	55	0.2545	20.00%	30.00%	11.0	16.5	127%	85%
67	9	32	0.2813	20.00%	30.00%	6.4	9.6	141%	94%
68	5	24	0.2083	20.00%	30.00%	4.8	7.2	104%	69%
69	3	18	0.1667	20.00%	30.00%	3.6	5.4	83%	56%
70	5	35	0.1429	100.00%	100.00%	35.0	35.0	14%	14%
Subtotal	718	5,654				1,603.7	1,903.5	45%	38%
Other	1	25	0.0400	100.00%	100.00%	25.0	25.0	4%	4%
Total	719	5,679				1,628.7	1,928.5	44%	37%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - MEN**

TABLE 4A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	3	3	1.0000	0.00%	0.00%	-	-	0%	0%
55	940	2,409	0.3902	22.38%	30.00%	539.2	722.7	174%	130%
56	77	309	0.2492	24.27%	30.00%	75.0	92.7	103%	83%
57	63	234	0.2692	25.60%	30.00%	59.9	70.2	105%	90%
58	56	210	0.2667	25.00%	30.00%	52.5	63.0	107%	89%
59	38	164	0.2317	25.55%	30.00%	41.9	49.2	91%	77%
60	41	159	0.2579	26.48%	30.00%	42.1	47.7	97%	86%
61	47	100	0.4700	24.40%	43.20%	24.4	43.2	193%	109%
62	338	2,350	0.1438	30.10%	30.41%	707.4	714.6	48%	47%
63	23	98	0.2347	20.61%	27.76%	20.2	27.2	114%	85%
64	4	69	0.0580	20.00%	25.00%	13.8	17.3	29%	23%
65	5	51	0.0980	30.00%	25.00%	15.3	12.8	33%	39%
66	8	41	0.1951	20.00%	30.00%	8.2	12.3	98%	65%
67	9	32	0.2813	20.00%	30.00%	6.4	9.6	141%	94%
68	4	24	0.1667	20.00%	30.00%	4.8	7.2	83%	56%
69	4	17	0.2353	20.00%	30.00%	3.4	5.1	118%	78%
70	3	21	0.1429	100.00%	100.00%	21.0	21.0	14%	14%
Subtotal	1,663	6,291				1,635.5	1,915.7	102%	87%
Other	6	31	0.1935	100.00%	100.00%	31.0	31.0	19%	19%
Total	1,669	6,322				1,666.5	1,946.7	100%	86%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**TOTAL - WOMEN**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	5	5	1.0000	0.00%	0.00%	-	-	0%	0%
55	1,933	6,266	0.3085	23.14%	28.43%	1,450.1	1,781.4	133%	109%
56	201	863	0.2329	25.75%	27.13%	222.2	234.1	90%	86%
57	161	825	0.1952	26.07%	26.96%	215.1	222.5	75%	72%
58	155	768	0.2018	26.35%	23.18%	202.4	178.0	77%	87%
59	190	699	0.2718	26.41%	29.61%	184.6	207.0	103%	92%
60	164	554	0.2960	26.17%	31.17%	145.0	172.7	113%	95%
61	183	511	0.3581	25.19%	35.37%	128.7	180.8	142%	101%
62	1,324	9,227	0.1435	30.11%	35.39%	2,778.5	3,265.9	48%	41%
63	47	249	0.1888	20.76%	23.82%	51.7	59.3	91%	79%
64	32	204	0.1569	20.20%	20.98%	41.2	42.8	78%	75%
65	35	167	0.2096	30.12%	30.48%	50.3	50.9	70%	69%
66	28	118	0.2373	20.00%	30.00%	23.6	35.4	119%	79%
67	20	77	0.2597	20.00%	30.00%	15.4	23.1	130%	87%
68	9	50	0.1800	20.00%	30.00%	10.0	15.0	90%	60%
69	3	32	0.0938	20.00%	30.00%	6.4	9.6	47%	31%
70	9	65	0.1385	100.00%	100.00%	65.0	65.0	14%	14%
Subtotal	4,499	20,680				5,590.2	6,543.3	80%	69%
Other	6	46	0.1304	100.00%	100.00%	46.0	46.0	13%	13%
Total	4,505	20,726				5,636.2	6,589.3	80%	68%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**MEN - ELECTED RETIREMENT BENEFIT**

TABLE 4C

10-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	3	3	1.0000	0.00%	0.00%	-	-	0%	0%
55	73	574	0.1272	30.00%	30.00%	172.2	172.2	42%	42%
56	28	132	0.2121	30.00%	30.00%	39.6	39.6	71%	71%
57	27	131	0.2061	30.00%	30.00%	39.3	39.3	69%	69%
58	27	105	0.2571	30.00%	30.00%	31.5	31.5	86%	86%
59	19	91	0.2088	30.00%	30.00%	27.3	27.3	70%	70%
60	29	103	0.2816	30.00%	30.00%	30.9	30.9	94%	94%
61	23	44	0.5227	30.00%	60.00%	13.2	26.4	174%	87%
62	20	24	0.8333	40.00%	70.00%	9.6	16.8	208%	119%
63	6	6	1.0000	30.00%	70.00%	1.8	4.2	333%	143%
64	0	0	N/A	30.00%	70.00%	-	-	0%	0%
65	0	0	N/A	40.00%	70.00%	-	-	0%	0%
66	0	0	N/A	30.00%	70.00%	-	-	0%	0%
67	0	0	N/A	30.00%	70.00%	-	-	0%	0%
68	0	0	N/A	30.00%	70.00%	-	-	0%	0%
69	0	0	N/A	30.00%	70.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	255	1,213				365.4	388.2	70%	66%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	255	1,213				365.4	388.2	70%	66%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4D**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	4	4	1.0000	0.00%	0.00%	-	-	0%	0%
55	210	1,969	0.1067	30.00%	25.00%	590.7	492.3	36%	43%
56	85	496	0.1714	30.00%	25.00%	148.8	124.0	57%	69%
57	82	501	0.1637	30.00%	25.00%	150.3	125.3	55%	65%
58	92	488	0.1885	30.00%	25.00%	146.4	122.0	63%	75%
59	121	448	0.2701	30.00%	35.00%	134.4	156.8	90%	77%
60	107	342	0.3129	30.00%	35.00%	102.6	119.7	104%	89%
61	102	265	0.3849	30.00%	45.00%	79.5	119.3	128%	86%
62	65	104	0.6250	40.00%	70.00%	41.6	72.8	156%	89%
63	11	19	0.5789	30.00%	70.00%	5.7	13.3	193%	83%
64	0	4	0.0000	30.00%	70.00%	1.2	2.8	0%	0%
65	0	2	0.0000	40.00%	70.00%	0.8	1.4	0%	0%
66	0	0	N/A	30.00%	70.00%	-	-	0%	0%
67	0	0	N/A	30.00%	70.00%	-	-	0%	0%
68	0	0	N/A	30.00%	70.00%	-	-	0%	0%
69	0	0	N/A	30.00%	70.00%	-	-	0%	0%
70	0	2	0.0000	100.00%	100.00%	2.0	2.0	0%	0%
Subtotal	879	4,644				1,404.0	1,351.6	63%	65%
Other	0	1	0.0000	100.00%	100.00%	1.0	1.0	0%	0%
Total	879	4,645				1,405.0	1,352.6	63%	65%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**MEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4E**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	867	1,835	0.4725	20.00%	30.00%	367.0	550.5	236%	157%
56	49	177	0.2768	20.00%	30.00%	35.4	53.1	138%	92%
57	36	103	0.3495	20.00%	30.00%	20.6	30.9	175%	117%
58	29	105	0.2762	20.00%	30.00%	21.0	31.5	138%	92%
59	19	73	0.2603	20.00%	30.00%	14.6	21.9	130%	87%
60	12	56	0.2143	20.00%	30.00%	11.2	16.8	107%	71%
61	24	56	0.4286	20.00%	30.00%	11.2	16.8	214%	143%
62	318	2,326	0.1367	30.00%	30.00%	697.8	697.8	46%	46%
63	17	92	0.1848	20.00%	25.00%	18.4	23.0	92%	74%
64	4	69	0.0580	20.00%	25.00%	13.8	17.3	29%	23%
65	5	51	0.0980	30.00%	25.00%	15.3	12.8	33%	39%
66	8	41	0.1951	20.00%	30.00%	8.2	12.3	98%	65%
67	9	32	0.2813	20.00%	30.00%	6.4	9.6	141%	94%
68	4	24	0.1667	20.00%	30.00%	4.8	7.2	83%	56%
69	4	17	0.2353	20.00%	30.00%	3.4	5.1	118%	78%
70	3	21	0.1429	100.00%	100.00%	21.0	21.0	14%	14%
Subtotal	1,408	5,078				1,270.1	1,527.5	111%	92%
Other	6	31	0.1935	100.00%	100.00%	31.0	31.0	19%	19%
Total	1,414	5,109				1,301.1	1,558.5	109%	91%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY**  
**WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4F**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
55	1,723	4,297	0.4010	20.00%	30.00%	859.4	1,289.1	200%	134%
56	116	367	0.3161	20.00%	30.00%	73.4	110.1	158%	105%
57	79	324	0.2438	20.00%	30.00%	64.8	97.2	122%	81%
58	63	280	0.2250	20.00%	20.00%	56.0	56.0	113%	113%
59	69	251	0.2749	20.00%	20.00%	50.2	50.2	137%	137%
60	57	212	0.2689	20.00%	25.00%	42.4	53.0	134%	108%
61	81	246	0.3293	20.00%	25.00%	49.2	61.5	165%	132%
62	1,259	9,123	0.1380	30.00%	35.00%	2,736.9	3,193.1	46%	39%
63	36	230	0.1565	20.00%	20.00%	46.0	46.0	78%	78%
64	32	200	0.1600	20.00%	20.00%	40.0	40.0	80%	80%
65	35	165	0.2121	30.00%	30.00%	49.5	49.5	71%	71%
66	28	118	0.2373	20.00%	30.00%	23.6	35.4	119%	79%
67	20	77	0.2597	20.00%	30.00%	15.4	23.1	130%	87%
68	9	50	0.1800	20.00%	30.00%	10.0	15.0	90%	60%
69	3	32	0.0938	20.00%	30.00%	6.4	9.6	47%	31%
70	9	63	0.1429	100.00%	100.00%	63.0	63.0	14%	14%
Subtotal	3,620	16,036				4,186.2	5,191.8	86%	70%
Other	6	45	0.1333	100.00%	100.00%	45.0	45.0	13%	13%
Total	3,626	16,081				4,231.2	5,236.8	86%	69%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN**

TABLE 5A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	113	498	0.2269	18.30%	20.66%	91.2	102.9	124%	110%
57	126	116	1.0862	17.50%	18.00%	20.3	20.9	621%	603%
58	22	110	0.2000	18.41%	20.68%	20.3	22.8	109%	97%
59	17	89	0.1910	18.09%	18.71%	16.1	16.7	106%	102%
60	19	79	0.2405	18.16%	18.80%	14.4	14.9	132%	128%
61	21	66	0.3182	19.02%	19.82%	12.6	13.1	167%	161%
62	23	45	0.5111	23.56%	20.87%	10.6	9.4	217%	245%
63	161	1,028	0.1566	15.03%	44.84%	154.6	460.9	104%	35%
64	5	31	0.1613	15.00%	20.00%	4.7	6.2	108%	81%
65	5	24	0.2083	20.00%	20.00%	4.8	4.8	104%	104%
66	5	21	0.2381	15.00%	20.00%	3.2	4.2	159%	119%
67	4	16	0.2500	15.00%	20.00%	2.4	3.2	167%	125%
68	2	13	0.1538	15.00%	20.00%	2.0	2.6	103%	77%
69	0	4	0.0000	15.00%	20.00%	0.6	0.8	0%	0%
70	3	7	0.4286	100.00%	100.00%	7.0	7.0	43%	43%
Subtotal	526	2,147				364.4	690.2	144%	76%
Other	3	30	0.1000	100.00%	100.00%	30.0	30.0	10%	10%
Total	529	2,177				394.4	720.2	134%	73%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - WOMEN**

TABLE 5B

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	398	1,572	0.2532	18.67%	22.06%	293.6	346.8	136%	115%
57	46	321	0.1433	18.80%	21.96%	60.4	70.5	76%	65%
58	63	328	0.1921	19.01%	19.81%	62.4	65.0	101%	97%
59	57	295	0.1932	19.07%	19.88%	56.3	58.7	101%	97%
60	57	285	0.2000	18.79%	19.55%	53.6	55.7	106%	102%
61	60	236	0.2542	18.96%	19.75%	44.8	46.6	134%	129%
62	140	275	0.5091	24.55%	22.50%	67.5	61.9	207%	226%
63	643	3,849	0.1671	15.05%	39.82%	579.2	1,532.6	111%	42%
64	20	81	0.2469	15.49%	20.10%	12.6	16.3	159%	123%
65	16	75	0.2133	20.27%	20.31%	15.2	15.2	105%	105%
66	8	53	0.1509	15.00%	20.00%	8.0	10.6	101%	75%
67	9	47	0.1915	15.00%	20.00%	7.1	9.4	128%	96%
68	9	31	0.2903	15.00%	20.00%	4.7	6.2	194%	145%
69	7	17	0.4118	15.00%	20.00%	2.6	3.4	275%	206%
70	4	11	0.3636	100.00%	100.00%	11.0	11.0	36%	36%
Subtotal	1,537	7,476				1,278.5	2,309.8	120%	67%
Other	7	34	0.2059	100.00%	100.00%	34.0	34.0	21%	21%
Total	1,544	7,510				1,312.5	2,343.8	118%	66%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN - ELECTED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	91	329	0.2766	20.00%	21.00%	65.8	69.1	138%	132%
57	7	58	0.1207	20.00%	21.00%	11.6	12.2	60%	57%
58	12	75	0.1600	20.00%	21.00%	15.0	15.8	80%	76%
59	11	55	0.2000	20.00%	21.00%	11.0	11.6	100%	95%
60	14	50	0.2800	20.00%	21.00%	10.0	10.5	140%	133%
61	17	53	0.3208	20.00%	21.00%	10.6	11.1	160%	153%
62	3	16	0.1875	30.00%	31.50%	4.8	5.0	63%	60%
63	7	7	1.0000	20.00%	21.00%	1.4	1.5	500%	476%
64	0	0	N/A	20.00%	21.00%	-	-	0%	0%
65	0	0	N/A	30.00%	31.50%	-	-	0%	0%
66	0	0	N/A	20.00%	21.00%	-	-	0%	0%
67	0	0	N/A	20.00%	21.00%	-	-	0%	0%
68	0	0	N/A	20.00%	21.00%	-	-	0%	0%
69	0	0	N/A	20.00%	21.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	162	643				130.2	136.7	124%	118%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	162	643				130.2	136.7	124%	118%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**WOMEN - ELECTED RETIREMENT BENEFIT**

TABLE 5D

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	283	1,155	0.2450	20.00%	21.00%	231.0	242.6	123%	117%
57	29	244	0.1189	20.00%	21.00%	48.8	51.2	59%	57%
58	54	263	0.2053	20.00%	21.00%	52.6	55.2	103%	98%
59	50	240	0.2083	20.00%	21.00%	48.0	50.4	104%	99%
60	40	216	0.1852	20.00%	21.00%	43.2	45.4	93%	88%
61	53	187	0.2834	20.00%	21.00%	37.4	39.3	142%	135%
62	44	125	0.3520	30.00%	31.50%	37.5	39.4	117%	112%
63	22	37	0.5946	20.00%	21.00%	7.4	7.8	297%	283%
64	4	8	0.5000	20.00%	21.00%	1.6	1.7	250%	238%
65	0	2	0.0000	30.00%	31.50%	0.6	0.6	0%	0%
66	0	0	N/A	20.00%	21.00%	-	-	0%	0%
67	0	0	N/A	20.00%	21.00%	-	-	0%	0%
68	0	0	N/A	20.00%	21.00%	-	-	0%	0%
69	0	0	N/A	20.00%	21.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	579	2,477				508.1	533.5	114%	109%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	579	2,477				508.1	533.5	114%	109%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN - MANDATED RETIREMENT BENEFIT**

TABLE 5E

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	22	169	0.1302	15.00%	20.00%	25.4	33.8	87%	65%
57	119	58	2.0517	15.00%	15.00%	8.7	8.7	1368%	1368%
58	10	35	0.2857	15.00%	20.00%	5.3	7.0	190%	143%
59	6	34	0.1765	15.00%	15.00%	5.1	5.1	118%	118%
60	5	29	0.1724	15.00%	15.00%	4.4	4.4	115%	115%
61	4	13	0.3077	15.00%	15.00%	2.0	2.0	205%	205%
62	20	29	0.6897	20.00%	15.00%	5.8	4.4	345%	460%
63	154	1,021	0.1508	15.00%	45.00%	153.2	459.5	101%	34%
64	5	31	0.1613	15.00%	20.00%	4.7	6.2	108%	81%
65	5	24	0.2083	20.00%	20.00%	4.8	4.8	104%	104%
66	5	21	0.2381	15.00%	20.00%	3.2	4.2	159%	119%
67	4	16	0.2500	15.00%	20.00%	2.4	3.2	167%	125%
68	2	13	0.1538	15.00%	20.00%	2.0	2.6	103%	77%
69	0	4	0.0000	15.00%	20.00%	0.6	0.8	0%	0%
70	3	7	0.4286	100.00%	100.00%	7.0	7.0	43%	43%
Subtotal	364	1,504				234.2	553.5	155%	66%
Other	3	30	0.1000	100.00%	100.00%	30.0	30.0	10%	10%
Total	367	1,534				264.2	583.5	139%	63%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5F

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	115	417	0.2758	15.00%	25.00%	62.6	104.3	184%	110%
57	17	77	0.2208	15.00%	25.00%	11.6	19.3	147%	88%
58	9	65	0.1385	15.00%	15.00%	9.8	9.8	92%	92%
59	7	55	0.1273	15.00%	15.00%	8.3	8.3	85%	85%
60	17	69	0.2464	15.00%	15.00%	10.4	10.4	164%	164%
61	7	49	0.1429	15.00%	15.00%	7.4	7.4	95%	95%
62	96	150	0.6400	20.00%	15.00%	30.0	22.5	320%	427%
63	621	3,812	0.1629	15.00%	40.00%	571.8	1,524.8	109%	41%
64	16	73	0.2192	15.00%	20.00%	11.0	14.6	146%	110%
65	16	73	0.2192	20.00%	20.00%	14.6	14.6	110%	110%
66	8	53	0.1509	15.00%	20.00%	8.0	10.6	101%	75%
67	9	47	0.1915	15.00%	20.00%	7.1	9.4	128%	96%
68	9	31	0.2903	15.00%	20.00%	4.7	6.2	194%	145%
69	7	17	0.4118	15.00%	20.00%	2.6	3.4	275%	206%
70	4	11	0.3636	100.00%	100.00%	11.0	11.0	36%	36%
Subtotal	958	4,999				770.4	1,776.3	124%	54%
Other	7	34	0.2059	100.00%	100.00%	34.0	34.0	21%	21%
Total	965	5,033				804.4	1,810.3	120%	53%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN**

TABLE 5A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	14	14	1.0000	0.00%	0.00%	-	-	0%	0%
56	744	2,000	0.3720	16.04%	20.66%	320.9	413.2	232%	180%
57	35	211	0.1659	17.09%	18.00%	36.1	38.0	97%	92%
58	41	179	0.2291	17.77%	20.68%	31.8	37.0	129%	111%
59	32	153	0.2092	17.39%	18.71%	26.6	28.6	120%	112%
60	26	113	0.2301	17.48%	18.80%	19.8	21.2	132%	122%
61	28	100	0.2800	17.95%	19.82%	18.0	19.8	156%	141%
62	28	61	0.4590	22.62%	20.87%	13.8	12.7	203%	220%
63	271	1,836	0.1476	15.02%	44.84%	275.8	823.2	98%	33%
64	11	73	0.1507	15.00%	20.00%	11.0	14.6	100%	75%
65	8	53	0.1509	20.00%	20.00%	10.6	10.6	75%	75%
66	10	45	0.2222	15.00%	20.00%	6.8	9.0	148%	111%
67	6	35	0.1714	15.00%	20.00%	5.3	7.0	114%	86%
68	3	19	0.1579	15.00%	20.00%	2.9	3.8	105%	79%
69	0	13	0.0000	15.00%	20.00%	2.0	2.6	0%	0%
70	3	15	0.2000	100.00%	100.00%	15.0	15.0	20%	20%
Subtotal	1,260	4,920				795.9	1,456.4	158%	87%
Other	6	54	0.1111	100.00%	100.00%	54.0	54.0	11%	11%
Total	1,266	4,974				849.9	1,510.4	149%	84%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**TOTAL - WOMEN**

TABLE 5B

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	20	20	1.0000	0.00%	0.00%	-	-	0%	0%
56	1,501	4,989	0.3009	16.50%	22.06%	823.4	1,100.6	182%	136%
57	113	673	0.1679	17.71%	21.96%	119.2	147.8	95%	76%
58	120	641	0.1872	17.74%	19.81%	113.7	127.0	106%	94%
59	97	531	0.1827	17.92%	19.88%	95.2	105.6	102%	92%
60	109	486	0.2243	17.59%	19.55%	85.5	95.0	127%	115%
61	100	364	0.2747	17.71%	19.75%	64.5	71.9	155%	139%
62	192	391	0.4910	23.20%	22.50%	90.7	88.0	212%	218%
63	1,198	7,303	0.1640	15.03%	39.82%	1,097.3	2,907.9	109%	41%
64	38	217	0.1751	15.18%	20.10%	33.0	43.6	115%	87%
65	33	170	0.1941	20.18%	20.31%	34.3	34.5	96%	96%
66	26	141	0.1844	15.00%	20.00%	21.2	28.2	123%	92%
67	13	97	0.1340	15.00%	20.00%	14.6	19.4	89%	67%
68	16	66	0.2424	15.00%	20.00%	9.9	13.2	162%	121%
69	11	32	0.3438	15.00%	20.00%	4.8	6.4	229%	172%
70	9	23	0.3913	100.00%	100.00%	23.0	23.0	39%	39%
Subtotal	3,596	16,144				2,630.0	4,812.1	137%	75%
Other	18	77	0.2338	100.00%	100.00%	77.0	77.0	23%	23%
Total	3,614	16,221				2,707.0	4,889.1	134%	74%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN - ELECTED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	13	13	1.0000	0.00%	0.00%	-	-	0%	0%
56	81	417	0.1942	20.00%	21.00%	83.4	87.6	97%	92%
57	8	88	0.0909	20.00%	21.00%	17.6	18.5	45%	43%
58	12	99	0.1212	20.00%	21.00%	19.8	20.8	61%	58%
59	12	73	0.1644	20.00%	21.00%	14.6	15.3	82%	78%
60	14	56	0.2500	20.00%	21.00%	11.2	11.8	125%	119%
61	17	59	0.2881	20.00%	21.00%	11.8	12.4	144%	137%
62	3	16	0.1875	30.00%	31.50%	4.8	5.0	63%	60%
63	6	7	0.8571	20.00%	21.00%	1.4	1.5	429%	408%
64	0	0	N/A	20.00%	21.00%	-	-	0%	0%
65	0	0	N/A	30.00%	31.50%	-	-	0%	0%
66	0	0	N/A	20.00%	21.00%	-	-	0%	0%
67	0	0	N/A	20.00%	21.00%	-	-	0%	0%
68	0	0	N/A	20.00%	21.00%	-	-	0%	0%
69	0	0	N/A	20.00%	21.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	166	828				164.6	172.8	101%	96%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	166	828				164.6	172.8	101%	96%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5D**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	14	14	1.0000	0.00%	0.00%	-	-	0%	0%
56	272	1,500	0.1813	20.00%	21.00%	300.0	315.0	91%	86%
57	36	365	0.0986	20.00%	21.00%	73.0	76.7	49%	47%
58	54	351	0.1538	20.00%	21.00%	70.2	73.7	77%	73%
59	50	310	0.1613	20.00%	21.00%	62.0	65.1	81%	77%
60	43	252	0.1706	20.00%	21.00%	50.4	52.9	85%	81%
61	54	197	0.2741	20.00%	21.00%	39.4	41.4	137%	131%
62	44	125	0.3520	30.00%	31.50%	37.5	39.4	117%	112%
63	22	37	0.5946	20.00%	21.00%	7.4	7.8	297%	283%
64	4	8	0.5000	20.00%	21.00%	1.6	1.7	250%	238%
65	0	3	0.0000	30.00%	31.50%	0.9	0.9	0%	0%
66	0	0	N/A	20.00%	21.00%	-	-	0%	0%
67	0	0	N/A	20.00%	21.00%	-	-	0%	0%
68	0	0	N/A	20.00%	21.00%	-	-	0%	0%
69	0	0	N/A	20.00%	21.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	593	3,162				642.4	674.5	92%	88%
Other	0	3	0.0000	100.00%	100.00%	3.0	3.0	0%	0%
Total	593	3,165				645.4	677.5	92%	88%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**MEN - MANDATED RETIREMENT BENEFIT**

TABLE 5E

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
56	663	1,583	0.4188	15.00%	20.00%	237.5	316.6	279%	209%
57	27	123	0.2195	15.00%	15.00%	18.5	18.5	146%	146%
58	29	80	0.3625	15.00%	20.00%	12.0	16.0	242%	181%
59	20	80	0.2500	15.00%	15.00%	12.0	12.0	167%	167%
60	12	57	0.2105	15.00%	15.00%	8.6	8.6	140%	140%
61	11	41	0.2683	15.00%	15.00%	6.2	6.2	179%	179%
62	25	45	0.5556	20.00%	15.00%	9.0	6.8	278%	370%
63	265	1,829	0.1449	15.00%	45.00%	274.4	823.1	97%	32%
64	11	73	0.1507	15.00%	20.00%	11.0	14.6	100%	75%
65	8	53	0.1509	20.00%	20.00%	10.6	10.6	75%	75%
66	10	45	0.2222	15.00%	20.00%	6.8	9.0	148%	111%
67	6	35	0.1714	15.00%	20.00%	5.3	7.0	114%	86%
68	3	19	0.1579	15.00%	20.00%	2.9	3.8	105%	79%
69	0	13	0.0000	15.00%	20.00%	2.0	2.6	0%	0%
70	3	15	0.2000	100.00%	100.00%	15.0	15.0	20%	20%
Subtotal	1,094	4,092				631.3	1,270.2	173%	86%
Other	6	54	0.1111	100.00%	100.00%	54.0	54.0	11%	11%
Total	1,100	4,146				685.3	1,324.2	161%	83%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY**  
**WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5F

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	6	6	1.0000	0.00%	0.00%	-	-	0%	0%
56	1,229	3,489	0.3522	15.00%	25.00%	523.4	872.3	235%	141%
57	77	308	0.2500	15.00%	25.00%	46.2	77.0	167%	100%
58	66	290	0.2276	15.00%	15.00%	43.5	43.5	152%	152%
59	47	221	0.2127	15.00%	15.00%	33.2	33.2	142%	142%
60	66	234	0.2821	15.00%	15.00%	35.1	35.1	188%	188%
61	46	167	0.2754	15.00%	15.00%	25.1	25.1	184%	184%
62	148	266	0.5564	20.00%	15.00%	53.2	39.9	278%	371%
63	1,176	7,266	0.1618	15.00%	40.00%	1,089.9	2,906.4	108%	40%
64	34	209	0.1627	15.00%	20.00%	31.4	41.8	108%	81%
65	33	167	0.1976	20.00%	20.00%	33.4	33.4	99%	99%
66	26	141	0.1844	15.00%	20.00%	21.2	28.2	123%	92%
67	13	97	0.1340	15.00%	20.00%	14.6	19.4	89%	67%
68	16	66	0.2424	15.00%	20.00%	9.9	13.2	162%	121%
69	11	32	0.3438	15.00%	20.00%	4.8	6.4	229%	172%
70	9	23	0.3913	100.00%	100.00%	23.0	23.0	39%	39%
Subtotal	3,003	12,982				1,987.6	4,197.8	151%	72%
Other	18	74	0.2432	100.00%	100.00%	74.0	74.0	24%	24%
Total	3,021	13,056				2,061.6	4,271.8	147%	71%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	57	354	0.1610	18.11%	20.00%	64.1	70.8	89%	81%
58	67	382	0.1754	17.85%	20.00%	68.2	76.4	98%	88%
59	78	399	0.1955	17.58%	20.00%	70.2	79.8	111%	98%
60	77	404	0.1906	17.45%	20.00%	70.5	80.8	109%	95%
61	68	366	0.1858	17.25%	20.00%	63.2	73.2	108%	93%
62	93	365	0.2548	23.59%	23.59%	86.1	86.1	108%	108%
63	92	290	0.3172	16.14%	18.41%	46.8	53.4	197%	172%
64	165	1,062	0.1554	15.10%	15.31%	160.4	162.6	103%	101%
65	145	863	0.1680	20.08%	20.08%	173.3	173.3	84%	84%
66	121	684	0.1769	15.00%	20.00%	102.6	136.8	118%	88%
67	106	491	0.2159	15.00%	20.00%	73.7	98.2	144%	108%
68	83	379	0.2190	15.00%	20.00%	56.9	75.8	146%	109%
69	67	317	0.2114	15.00%	20.00%	47.6	63.4	141%	106%
70	46	246	0.1870	100.00%	100.00%	246.0	246.0	19%	19%
Subtotal	1,265	6,602				1,329.4	1,476.6	95%	86%
Other	168	927	0.1812	100.00%	100.00%	927.0	927.0	18%	18%
Total	1,433	7,529				2,256.4	2,403.6	64%	60%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - WOMEN**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	189	1,185	0.1595	18.49%	18.49%	219.2	219.2	86%	86%
58	252	1,262	0.1997	18.36%	20.00%	231.7	252.4	109%	100%
59	233	1,331	0.1751	17.98%	20.00%	239.3	266.2	97%	88%
60	292	1,374	0.2125	17.68%	20.00%	242.9	274.8	120%	106%
61	293	1,313	0.2232	17.31%	20.00%	227.3	262.6	129%	112%
62	319	1,185	0.2692	23.90%	23.90%	283.2	283.2	113%	113%
63	312	928	0.3362	16.52%	23.04%	153.3	213.8	204%	146%
64	605	3,646	0.1659	15.14%	18.33%	551.9	668.3	110%	91%
65	520	2,871	0.1811	20.11%	18.13%	577.4	520.6	90%	100%
66	511	2,243	0.2278	15.00%	20.01%	336.6	448.8	152%	114%
67	415	1,604	0.2587	15.01%	20.01%	240.7	321.0	172%	129%
68	237	1,192	0.1988	15.00%	20.01%	178.9	238.5	133%	99%
69	192	903	0.2126	15.00%	20.00%	135.5	180.6	142%	106%
70	172	727	0.2366	100.00%	100.00%	727.0	727.0	24%	24%
Subtotal	4,542	21,764				4,344.6	4,877.0	105%	93%
Other	536	2,355	0.2276	100.00%	100.00%	2,355.0	2,355.0	23%	23%
Total	5,078	24,119				6,699.6	7,232.0	76%	70%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN - ELECTED RETIREMENT BENEFIT**

TABLE 6C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	32	220	0.1455	20.00%	20.00%	44.0	44.0	73%	73%
58	41	218	0.1881	20.00%	20.00%	43.6	43.6	94%	94%
59	34	206	0.1650	20.00%	20.00%	41.2	41.2	83%	83%
60	35	198	0.1768	20.00%	20.00%	39.6	39.6	88%	88%
61	27	165	0.1636	20.00%	20.00%	33.0	33.0	82%	82%
62	38	131	0.2901	30.00%	30.00%	39.3	39.3	97%	97%
63	21	66	0.3182	20.00%	30.00%	13.2	19.8	159%	106%
64	4	22	0.1818	20.00%	30.00%	4.4	6.6	91%	61%
65	4	7	0.5714	30.00%	30.00%	2.1	2.1	190%	190%
66	0	0	N/A	20.00%	30.00%	-	-	0%	0%
67	0	0	N/A	20.00%	30.00%	-	-	0%	0%
68	0	0	N/A	20.00%	30.00%	-	-	0%	0%
69	0	0	N/A	20.00%	30.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	236	1,233				260.4	269.2	91%	88%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	236	1,233				260.4	269.2	91%	88%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6D**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	136	828	0.1643	20.00%	20.00%	165.6	165.6	82%	82%
58	170	848	0.2005	20.00%	20.00%	169.6	169.6	100%	100%
59	149	792	0.1881	20.00%	20.00%	158.4	158.4	94%	94%
60	148	736	0.2011	20.00%	20.00%	147.2	147.2	101%	101%
61	132	606	0.2178	20.00%	20.00%	121.2	121.2	109%	109%
62	121	462	0.2619	30.00%	30.00%	138.6	138.6	87%	87%
63	90	282	0.3191	20.00%	30.00%	56.4	84.6	160%	106%
64	27	100	0.2700	20.00%	30.00%	20.0	30.0	135%	90%
65	9	32	0.2813	30.00%	30.00%	9.6	9.6	94%	94%
66	0	2	0.0000	20.00%	30.00%	0.4	0.6	0%	0%
67	1	2	0.5000	20.00%	30.00%	0.4	0.6	250%	167%
68	1	1	1.0000	20.00%	30.00%	0.2	0.3	500%	333%
69	0	0	N/A	20.00%	30.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	984	4,691				987.6	1,026.3	100%	96%
Other	0	12	0.0000	100.00%	100.00%	12.0	12.0	0%	0%
Total	984	4,703				999.6	1,038.3	98%	95%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6E**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	25	134	0.1866	15.00%	20.00%	20.1	26.8	124%	93%
58	26	164	0.1585	15.00%	20.00%	24.6	32.8	106%	79%
59	44	193	0.2280	15.00%	20.00%	29.0	38.6	152%	114%
60	42	206	0.2039	15.00%	20.00%	30.9	41.2	136%	102%
61	41	201	0.2040	15.00%	20.00%	30.2	40.2	136%	102%
62	55	234	0.2350	20.00%	20.00%	46.8	46.8	118%	118%
63	71	224	0.3170	15.00%	15.00%	33.6	33.6	211%	211%
64	161	1,040	0.1548	15.00%	15.00%	156.0	156.0	103%	103%
65	141	856	0.1647	20.00%	20.00%	171.2	171.2	82%	82%
66	121	684	0.1769	15.00%	20.00%	102.6	136.8	118%	88%
67	106	491	0.2159	15.00%	20.00%	73.7	98.2	144%	108%
68	83	379	0.2190	15.00%	20.00%	56.9	75.8	146%	109%
69	67	317	0.2114	15.00%	20.00%	47.6	63.4	141%	106%
70	46	246	0.1870	100.00%	100.00%	246.0	246.0	19%	19%
Subtotal	1,029	5,369				1,069.0	1,207.4	96%	85%
Other	168	927	0.1812	100.00%	100.00%	927.0	927.0	18%	18%
Total	1,197	6,296				1,996.0	2,134.4	60%	56%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6F**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	53	357	0.1485	15.00%	15.00%	53.6	53.6	99%	99%
58	82	414	0.1981	15.00%	20.00%	62.1	82.8	132%	99%
59	84	539	0.1558	15.00%	20.00%	80.9	107.8	104%	78%
60	144	638	0.2257	15.00%	20.00%	95.7	127.6	150%	113%
61	161	707	0.2277	15.00%	20.00%	106.1	141.4	152%	114%
62	198	723	0.2739	20.00%	20.00%	144.6	144.6	137%	137%
63	222	646	0.3437	15.00%	20.00%	96.9	129.2	229%	172%
64	578	3,546	0.1630	15.00%	18.00%	531.9	638.3	109%	91%
65	511	2,839	0.1800	20.00%	18.00%	567.8	511.0	90%	100%
66	511	2,241	0.2280	15.00%	20.00%	336.2	448.2	152%	114%
67	414	1,602	0.2584	15.00%	20.00%	240.3	320.4	172%	129%
68	236	1,191	0.1982	15.00%	20.00%	178.7	238.2	132%	99%
69	192	903	0.2126	15.00%	20.00%	135.5	180.6	142%	106%
70	172	727	0.2366	100.00%	100.00%	727.0	727.0	24%	24%
Subtotal	3,558	17,073				3,357.0	3,850.7	106%	92%
Other	536	2,343	0.2288	100.00%	100.00%	2,343.0	2,343.0	23%	23%
Total	4,094	19,416				5,700.0	6,193.7	72%	66%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - MEN**

TABLE 6A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
57	531	1,628	0.3262	15.83%	20.00%	257.7	325.6	206%	163%
58	461	1,498	0.3077	15.86%	20.00%	237.7	299.6	194%	154%
59	368	1,316	0.2796	15.89%	20.00%	209.2	263.2	176%	140%
60	313	1,167	0.2682	15.93%	20.00%	185.9	233.4	168%	134%
61	236	999	0.2362	15.87%	20.00%	158.6	199.8	149%	118%
62	242	856	0.2827	21.54%	21.54%	184.4	184.4	131%	131%
63	171	651	0.2627	15.51%	16.52%	101.0	107.6	169%	159%
64	302	1,997	0.1512	15.06%	15.17%	300.7	302.9	100%	100%
65	286	1,625	0.1760	20.04%	20.04%	325.7	325.7	88%	88%
66	234	1,268	0.1845	15.00%	20.00%	190.2	253.6	123%	92%
67	186	947	0.1964	15.00%	20.00%	142.1	189.4	131%	98%
68	143	770	0.1857	15.00%	20.00%	115.5	154.0	124%	93%
69	128	619	0.2068	15.00%	20.00%	92.9	123.8	138%	103%
70	87	478	0.1820	100.00%	100.00%	478.0	478.0	18%	18%
Subtotal	3,689	15,820				2,979.2	3,440.9	124%	107%
Other	332	1,854	0.1791	100.00%	100.00%	1,854.0	1,854.0	18%	18%
Total	4,021	17,674				4,833.2	5,294.9	83%	76%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**TOTAL - WOMEN**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
56	7	7	1.0000	0.00%	0.00%	-	-	0%	0%
57	945	3,832	0.2466	16.32%	16.32%	625.2	625.2	151%	151%
58	878	3,614	0.2429	16.38%	20.00%	592.1	722.8	148%	121%
59	791	3,340	0.2368	16.34%	20.00%	545.9	668.0	145%	118%
60	797	3,071	0.2595	16.30%	20.00%	500.5	614.2	159%	130%
61	676	2,675	0.2527	16.18%	20.00%	432.9	535.0	156%	126%
62	715	2,288	0.3125	22.03%	22.03%	504.1	504.1	142%	142%
63	546	1,737	0.3143	15.81%	21.62%	274.7	375.6	199%	145%
64	1,176	6,936	0.1696	15.07%	18.17%	1,045.4	1,260.5	112%	93%
65	1,119	5,623	0.1990	20.06%	18.07%	1,127.8	1,016.0	99%	110%
66	982	4,305	0.2281	15.00%	20.01%	645.9	861.3	152%	114%
67	723	3,175	0.2277	15.00%	20.01%	476.4	635.2	152%	114%
68	484	2,416	0.2003	15.00%	20.00%	362.5	483.3	134%	100%
69	393	1,871	0.2100	15.00%	20.00%	280.7	374.2	140%	105%
70	335	1,485	0.2256	100.00%	100.00%	1,485.0	1,485.0	23%	23%
Subtotal	10,568	46,376				8,898.8	10,160.4	119%	104%
Other	1,068	5,094	0.2097	100.00%	100.00%	5,094.0	5,094.0	21%	21%
Total	11,636	51,470				13,992.8	15,254.4	83%	76%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN - ELECTED RETIREMENT BENEFIT**

TABLE 6C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
57	34	270	0.1259	20.00%	20.00%	54.0	54.0	63%	63%
58	41	259	0.1583	20.00%	20.00%	51.8	51.8	79%	79%
59	34	235	0.1447	20.00%	20.00%	47.0	47.0	72%	72%
60	37	216	0.1713	20.00%	20.00%	43.2	43.2	86%	86%
61	29	174	0.1667	20.00%	20.00%	34.8	34.8	83%	83%
62	38	132	0.2879	30.00%	30.00%	39.6	39.6	96%	96%
63	21	66	0.3182	20.00%	30.00%	13.2	19.8	159%	106%
64	4	22	0.1818	20.00%	30.00%	4.4	6.6	91%	61%
65	4	7	0.5714	30.00%	30.00%	2.1	2.1	190%	190%
66	0	0	N/A	20.00%	30.00%	-	-	0%	0%
67	0	0	N/A	20.00%	30.00%	-	-	0%	0%
68	0	0	N/A	20.00%	30.00%	-	-	0%	0%
69	0	0	N/A	20.00%	30.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	243	1,382				290.1	298.9	84%	81%
Other	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Total	243	1,382				290.1	298.9	84%	81%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6D**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	7	7	1.0000	0.00%	0.00%	-	-	0%	0%
57	132	1,008	0.1310	20.00%	20.00%	201.6	201.6	65%	65%
58	177	999	0.1772	20.00%	20.00%	199.8	199.8	89%	89%
59	151	897	0.1683	20.00%	20.00%	179.4	179.4	84%	84%
60	148	797	0.1857	20.00%	20.00%	159.4	159.4	93%	93%
61	134	633	0.2117	20.00%	20.00%	126.6	126.6	106%	106%
62	122	465	0.2624	30.00%	30.00%	139.5	139.5	87%	87%
63	90	282	0.3191	20.00%	30.00%	56.4	84.6	160%	106%
64	27	100	0.2700	20.00%	30.00%	20.0	30.0	135%	90%
65	9	32	0.2813	30.00%	30.00%	9.6	9.6	94%	94%
66	0	3	0.0000	20.00%	30.00%	0.6	0.9	0%	0%
67	1	2	0.5000	20.00%	30.00%	0.4	0.6	250%	167%
68	1	1	1.0000	20.00%	30.00%	0.2	0.3	500%	333%
69	0	0	N/A	20.00%	30.00%	-	-	0%	0%
70	0	0	N/A	100.00%	100.00%	-	-	0%	0%
Subtotal	999	5,226				1,093.5	1,132.3	91%	88%
Other	0	20	0.0000	100.00%	100.00%	20.0	20.0	0%	0%
Total	999	5,246				1,113.5	1,152.3	90%	87%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**MEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6E**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	0	0	N/A	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	497	1,358	0.3660	15.00%	20.00%	203.7	271.6	244%	183%
58	420	1,239	0.3390	15.00%	20.00%	185.9	247.8	226%	169%
59	334	1,081	0.3090	15.00%	20.00%	162.2	216.2	206%	154%
60	276	951	0.2902	15.00%	20.00%	142.7	190.2	193%	145%
61	207	825	0.2509	15.00%	20.00%	123.8	165.0	167%	125%
62	204	724	0.2818	20.00%	20.00%	144.8	144.8	141%	141%
63	150	585	0.2564	15.00%	15.00%	87.8	87.8	171%	171%
64	298	1,975	0.1509	15.00%	15.00%	296.3	296.3	101%	101%
65	282	1,618	0.1743	20.00%	20.00%	323.6	323.6	87%	87%
66	234	1,268	0.1845	15.00%	20.00%	190.2	253.6	123%	92%
67	186	947	0.1964	15.00%	20.00%	142.1	189.4	131%	98%
68	143	770	0.1857	15.00%	20.00%	115.5	154.0	124%	93%
69	128	619	0.2068	15.00%	20.00%	92.9	123.8	138%	103%
70	87	478	0.1820	100.00%	100.00%	478.0	478.0	18%	18%
Subtotal	3,446	14,438				2,689.1	3,142.0	128%	110%
Other	332	1,854	0.1791	100.00%	100.00%	1,854.0	1,854.0	18%	18%
Total	3,778	16,292				4,543.1	4,996.0	83%	76%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY**  
**WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6F**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
56	0	0	N/A	0.00%	0.00%	-	-	0%	0%
57	813	2,824	0.2879	15.00%	15.00%	423.6	423.6	192%	192%
58	701	2,615	0.2681	15.00%	20.00%	392.3	523.0	179%	134%
59	640	2,443	0.2620	15.00%	20.00%	366.5	488.6	175%	131%
60	649	2,274	0.2854	15.00%	20.00%	341.1	454.8	190%	143%
61	542	2,042	0.2654	15.00%	20.00%	306.3	408.4	177%	133%
62	593	1,823	0.3253	20.00%	20.00%	364.6	364.6	163%	163%
63	456	1,455	0.3134	15.00%	20.00%	218.3	291.0	209%	157%
64	1,149	6,836	0.1681	15.00%	18.00%	1,025.4	1,230.5	112%	93%
65	1,110	5,591	0.1985	20.00%	18.00%	1,118.2	1,006.4	99%	110%
66	982	4,302	0.2283	15.00%	20.00%	645.3	860.4	152%	114%
67	722	3,173	0.2275	15.00%	20.00%	476.0	634.6	152%	114%
68	483	2,415	0.2000	15.00%	20.00%	362.3	483.0	133%	100%
69	393	1,871	0.2100	15.00%	20.00%	280.7	374.2	140%	105%
70	335	1,485	0.2256	100.00%	100.00%	1,485.0	1,485.0	23%	23%
Subtotal	9,569	41,150				7,805.3	9,028.1	123%	106%
Other	1,068	5,074	0.2105	100.00%	100.00%	5,074.0	5,074.0	21%	21%
Total	10,637	46,224				12,879.3	14,102.1	83%	75%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH UNREDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 6G Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements (3)	Expected Retirements (4)	Actual/ Expected (5)	Retirement Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	12,524	4,629	2,835.3	163%	36.96%	22.64%
2005	10,736	2,998	2,527.0	119%	27.92%	23.54%
2006	10,028	2,468	2,413.2	102%	24.61%	24.06%
2007	9,733	2,122	2,405.9	88%	21.80%	24.72%
2008	10,136	2,102	2,555.1	82%	20.74%	25.21%
2009	10,893	1,799	2,795.2	64%	16.52%	25.66%
2010	11,703	2,144	3,032.2	71%	18.32%	25.91%
2011	13,844	2,812	3,670.5	77%	20.31%	26.51%
2012	13,782	3,010	3,632.1	83%	21.84%	26.35%
2013	14,008	2,627	3,740.9	70%	18.75%	26.71%
Total	117,387	26,711	29,607.3	90%	22.75%	25.22%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	53	1,767	0.0300	2.00%	2.40%	35.3	42.4	150%	125%
56	65	1,664	0.0391	2.00%	2.40%	33.3	39.9	195%	163%
57	57	1,543	0.0369	2.00%	2.40%	30.9	37.0	185%	154%
58	59	1,543	0.0382	2.00%	2.40%	30.9	37.0	191%	159%
59	79	1,440	0.0549	3.00%	3.60%	43.2	51.8	183%	152%
60	79	1,401	0.0564	4.00%	4.80%	56.0	67.2	141%	117%
61	77	1,348	0.0571	5.00%	6.00%	67.4	80.9	114%	95%
62	6	22	0.2727	0.00%	0.00%	-	-	0%	0%
63	2	4	0.5000	0.00%	0.00%	-	-	0%	0%
64	2	3	0.6667	0.00%	0.00%	-	-	0%	0%
65	1	2	0.5000	0.00%	0.00%	-	-	0%	0%
66	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
67	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
68	0	0	N/A	0.00%	0.00%	-	-	0%	0%
69	0	1	0.0000	0.00%	0.00%	-	-	0%	0%
70	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
Subtotal	483	10,741				297.0	356.4	163%	136%
Other	5	5	1.0000	0.00%	0.00%	-	-	0%	0%
Total	488	10,746				297.0	356.4	164%	137%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - WOMEN**

TABLE 7B

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	0	N/A	0.00%	0.00%	-	-	0%	0%
51	0	0	N/A	0.00%	0.00%	-	-	0%	0%
52	0	0	N/A	0.00%	0.00%	-	-	0%	0%
53	0	0	N/A	0.00%	0.00%	-	-	0%	0%
54	0	0	N/A	0.00%	0.00%	-	-	0%	0%
55	147	6,665	0.0221	2.00%	2.20%	133.3	146.6	110%	100%
56	163	6,600	0.0247	2.00%	2.20%	132.0	145.2	123%	112%
57	178	6,351	0.0280	2.00%	2.20%	127.0	139.7	140%	127%
58	222	6,232	0.0356	2.00%	2.20%	124.6	137.1	178%	162%
59	245	5,858	0.0418	3.00%	3.30%	175.7	193.3	139%	127%
60	303	5,579	0.0543	4.00%	4.40%	223.2	245.5	136%	123%
61	250	4,928	0.0507	5.00%	5.50%	246.4	271.0	101%	92%
62	15	91	0.1648	0.00%	0.00%	-	-	0%	0%
63	10	11	0.9091	0.00%	0.00%	-	-	0%	0%
64	6	7	0.8571	0.00%	0.00%	-	-	0%	0%
65	1	4	0.2500	0.00%	0.00%	-	-	0%	0%
66	1	4	0.2500	0.00%	0.00%	-	-	0%	0%
67	2	3	0.6667	0.00%	0.00%	-	-	0%	0%
68	0	0	N/A	0.00%	0.00%	-	-	0%	0%
69	0	0	N/A	0.00%	0.00%	-	-	0%	0%
70	0	0	N/A	0.00%	0.00%	-	-	0%	0%
Subtotal	1,543	42,333				1,162.3	1,278.5	133%	121%
Other	7	7	1.0000	0.00%	0.00%	-	-	0%	0%
Total	1,550	42,340				1,162.3	1,278.5	133%	121%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN**

TABLE 7A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	0	0	N/A	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	0	N/A	0.00%	0.00%	-	-	0%	0%
50	0	1	0.0000	0.00%	0.00%	-	-	0%	0%
51	0	1	0.0000	0.00%	0.00%	-	-	0%	0%
52	1	21	0.0476	0.00%	0.00%	-	-	0%	0%
53	12	141	0.0851	0.00%	0.00%	-	-	0%	0%
54	108	486	0.2222	0.00%	0.00%	-	-	0%	0%
55	174	4,549	0.0383	2.00%	2.40%	91.0	109.2	191%	159%
56	176	4,205	0.0419	2.00%	2.40%	84.1	100.9	209%	174%
57	162	3,877	0.0418	2.00%	2.40%	77.5	93.0	209%	174%
58	158	3,526	0.0448	2.00%	2.40%	70.5	84.6	224%	187%
59	172	3,172	0.0542	3.00%	3.60%	95.2	114.2	181%	151%
60	169	2,924	0.0578	4.00%	4.80%	117.0	140.4	144%	120%
61	175	2,629	0.0666	5.00%	6.00%	131.5	157.7	133%	111%
62	12	12	1.0000	0.00%	0.00%	-	-	0%	0%
63	7	7	1.0000	0.00%	0.00%	-	-	0%	0%
64	7	7	1.0000	0.00%	0.00%	-	-	0%	0%
65	6	6	1.0000	0.00%	0.00%	-	-	0%	0%
66	3	3	1.0000	0.00%	0.00%	-	-	0%	0%
67	8	8	1.0000	0.00%	0.00%	-	-	0%	0%
68	3	3	1.0000	0.00%	0.00%	-	-	0%	0%
69	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
70	4	4	1.0000	0.00%	0.00%	-	-	0%	0%
Subtotal	1,358	25,583				666.7	800.1	204%	170%
Other	6	6	1.0000	0.00%	0.00%	-	-	0%	0%
Total	1,364	25,589				666.7	800.1	205%	170%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - WOMEN**

TABLE 7B

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/ Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	-	-	0%	0%
41	0	0	N/A	0.00%	0.00%	-	-	0%	0%
42	0	0	N/A	0.00%	0.00%	-	-	0%	0%
43	0	0	N/A	0.00%	0.00%	-	-	0%	0%
44	0	0	N/A	0.00%	0.00%	-	-	0%	0%
45	0	0	N/A	0.00%	0.00%	-	-	0%	0%
46	0	0	N/A	0.00%	0.00%	-	-	0%	0%
47	1	1	1.0000	0.00%	0.00%	-	-	0%	0%
48	0	0	N/A	0.00%	0.00%	-	-	0%	0%
49	0	1	0.0000	0.00%	0.00%	-	-	0%	0%
50	0	1	0.0000	0.00%	0.00%	-	-	0%	0%
51	3	17	0.1765	0.00%	0.00%	-	-	0%	0%
52	4	105	0.0381	0.00%	0.00%	-	-	0%	0%
53	27	427	0.0632	0.00%	0.00%	-	-	0%	0%
54	183	1,091	0.1677	0.00%	0.00%	-	-	0%	0%
55	522	17,017	0.0307	2.00%	2.20%	340.3	374.4	153%	139%
56	530	16,123	0.0329	2.00%	2.20%	322.5	354.7	164%	149%
57	488	14,968	0.0326	2.00%	2.20%	299.4	329.3	163%	148%
58	516	13,792	0.0374	2.00%	2.20%	275.8	303.4	187%	170%
59	566	12,544	0.0451	3.00%	3.30%	376.3	414.0	150%	137%
60	657	11,544	0.0569	4.00%	4.40%	461.8	507.9	142%	129%
61	612	10,200	0.0600	5.00%	5.50%	510.0	561.0	120%	109%
62	37	37	1.0000	0.00%	0.00%	-	-	0%	0%
63	29	29	1.0000	0.00%	0.00%	-	-	0%	0%
64	17	17	1.0000	0.00%	0.00%	-	-	0%	0%
65	13	13	1.0000	0.00%	0.00%	-	-	0%	0%
66	11	11	1.0000	0.00%	0.00%	-	-	0%	0%
67	7	7	1.0000	0.00%	0.00%	-	-	0%	0%
68	6	6	1.0000	0.00%	0.00%	-	-	0%	0%
69	2	2	1.0000	0.00%	0.00%	-	-	0%	0%
70	0	0	N/A	0.00%	0.00%	-	-	0%	0%
Subtotal	4,231	97,953				2,586.1	2,844.7	164%	149%
Other	12	12	1.0000	0.00%	0.00%	-	-	0%	0%
Total	4,243	97,965				2,586.1	2,844.7	164%	149%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE**  
**TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7C Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual/ Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	10,326	616	262.7	234%	5.97%	2.54%
2005	10,532	553	267.2	207%	5.25%	2.54%
2006	11,047	516	283.0	182%	4.67%	2.56%
2007	12,218	548	317.4	173%	4.49%	2.60%
2008	13,094	554	347.4	159%	4.23%	2.65%
2009	13,526	782	363.0	215%	5.78%	2.68%
2010	13,577	794	358.7	221%	5.85%	2.64%
2011	13,228	528	334.9	158%	3.99%	2.53%
2012	12,979	419	333.3	126%	3.23%	2.57%
2013	13,027	297	336.3	88%	2.28%	2.58%
Total	123,554	5,607	3,203.7	175%	4.54%	2.59%

The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

TABLE 8A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	16	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	36	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	0	274	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
24	0	667	0.00000	0.040%	0.040%	0.3	0.3	0%	0%
25	0	1,145	0.00000	0.040%	0.040%	0.5	0.5	0%	0%
26	0	1,483	0.00000	0.040%	0.040%	0.6	0.6	0%	0%
27	1	1,882	0.00053	0.040%	0.040%	0.8	0.8	133%	133%
28	1	2,261	0.00044	0.040%	0.040%	0.9	0.9	111%	111%
29	0	2,497	0.00000	0.040%	0.040%	1.0	1.0	0%	0%
30	1	2,715	0.00037	0.040%	0.040%	1.1	1.1	92%	92%
31	0	2,851	0.00000	0.042%	0.042%	1.2	1.2	0%	0%
32	1	2,901	0.00034	0.044%	0.044%	1.3	1.3	78%	78%
33	0	2,925	0.00000	0.046%	0.046%	1.3	1.3	0%	0%
34	0	2,819	0.00000	0.048%	0.048%	1.4	1.4	0%	0%
35	0	2,804	0.00000	0.050%	0.050%	1.4	1.4	0%	0%
36	0	2,728	0.00000	0.052%	0.052%	1.4	1.4	0%	0%
37	0	2,746	0.00000	0.054%	0.054%	1.5	1.5	0%	0%
38	1	2,622	0.00038	0.056%	0.056%	1.5	1.5	68%	68%
39	0	2,682	0.00000	0.058%	0.058%	1.6	1.6	0%	0%
40	2	2,716	0.00074	0.060%	0.060%	1.6	1.6	123%	123%
41	0	2,752	0.00000	0.070%	0.070%	1.9	1.9	0%	0%
42	1	2,636	0.00038	0.080%	0.080%	2.1	2.1	47%	47%
43	5	2,560	0.00195	0.090%	0.090%	2.3	2.3	217%	217%
44	5	2,440	0.00205	0.100%	0.100%	2.4	2.4	205%	205%
45	2	2,402	0.00083	0.110%	0.110%	2.6	2.6	76%	76%
46	2	2,360	0.00085	0.120%	0.120%	2.8	2.8	71%	71%
47	5	2,406	0.00208	0.130%	0.130%	3.1	3.1	160%	160%
48	2	2,459	0.00081	0.140%	0.140%	3.4	3.4	58%	58%
49	1	2,481	0.00040	0.150%	0.150%	3.7	3.7	27%	27%
50	4	2,418	0.00165	0.160%	0.160%	3.9	3.9	103%	103%
51	3	2,458	0.00122	0.170%	0.170%	4.2	4.2	72%	72%
52	8	2,525	0.00317	0.180%	0.180%	4.5	4.5	176%	176%
53	2	2,532	0.00079	0.190%	0.190%	4.8	4.8	42%	42%
54	9	2,599	0.00346	0.200%	0.200%	5.2	5.2	173%	173%
55	1	2,705	0.00037	0.210%	0.210%	5.7	5.7	18%	18%
56	3	2,613	0.00115	0.220%	0.220%	5.7	5.7	52%	52%
57	10	2,437	0.00410	0.230%	0.230%	5.6	5.6	178%	178%
58	7	2,457	0.00285	0.240%	0.240%	5.9	5.9	119%	119%
59	5	2,293	0.00218	0.250%	0.250%	5.7	5.7	87%	87%
60	7	2,247	0.00312	0.260%	0.260%	5.8	5.8	120%	120%
61	9	2,105	0.00428	0.270%	0.270%	5.7	5.7	158%	158%
62	3	1,962	0.00153	0.280%	0.280%	5.5	5.5	55%	55%
63	6	1,596	0.00376	0.290%	0.290%	4.6	4.6	130%	130%
64	5	1,328	0.00377	0.300%	0.300%	4.0	4.0	126%	126%
65	5	1,059	0.00472	0.320%	0.320%	3.4	3.4	148%	148%
66	2	841	0.00238	0.350%	0.350%	2.9	2.9	68%	68%
67	1	618	0.00162	0.390%	0.390%	2.4	2.4	41%	41%
68	2	478	0.00418	0.440%	0.440%	2.1	2.1	95%	95%
69	2	380	0.00526	0.500%	0.500%	1.9	1.9	105%	105%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	N/A	N/A	0	0	0%	0%
Total	124	100,918				133.5	133.5	93%	93%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 8B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	8	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
21	0	28	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
22	0	109	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
23	0	923	0.00000	0.020%	0.020%	0.2	0.2	0%	0%
24	0	2,431	0.00000	0.020%	0.020%	0.5	0.5	0%	0%
25	1	4,336	0.00023	0.020%	0.020%	0.9	0.9	115%	115%
26	1	6,108	0.00016	0.020%	0.020%	1.2	1.2	82%	82%
27	1	7,645	0.00013	0.020%	0.020%	1.5	1.5	65%	65%
28	1	8,866	0.00011	0.020%	0.020%	1.8	1.8	56%	56%
29	1	9,648	0.00010	0.020%	0.020%	1.9	1.9	52%	52%
30	3	10,147	0.00030	0.020%	0.020%	2.0	2.0	148%	148%
31	0	9,987	0.00000	0.021%	0.021%	2.1	2.1	0%	0%
32	0	9,592	0.00000	0.022%	0.022%	2.1	2.1	0%	0%
33	0	9,365	0.00000	0.023%	0.023%	2.2	2.2	0%	0%
34	1	8,920	0.00011	0.024%	0.024%	2.1	2.1	47%	47%
35	1	8,718	0.00011	0.025%	0.025%	2.2	2.2	46%	46%
36	0	8,378	0.00000	0.026%	0.026%	2.2	2.2	0%	0%
37	3	8,193	0.00037	0.027%	0.027%	2.2	2.2	136%	136%
38	2	8,032	0.00025	0.028%	0.028%	2.2	2.2	89%	89%
39	4	7,997	0.00050	0.029%	0.029%	2.3	2.3	172%	172%
40	2	8,050	0.00025	0.030%	0.030%	2.4	2.4	83%	83%
41	6	7,988	0.00075	0.035%	0.035%	2.8	2.8	215%	215%
42	2	7,989	0.00025	0.040%	0.040%	3.2	3.2	63%	63%
43	2	7,747	0.00026	0.045%	0.045%	3.5	3.5	57%	57%
44	5	7,643	0.00065	0.050%	0.050%	3.8	3.8	131%	131%
45	5	7,706	0.00065	0.055%	0.055%	4.2	4.2	118%	118%
46	4	7,691	0.00052	0.060%	0.060%	4.6	4.6	87%	87%
47	2	7,837	0.00026	0.065%	0.065%	5.1	5.1	39%	39%
48	4	8,139	0.00049	0.070%	0.070%	5.7	5.7	70%	70%
49	4	8,212	0.00049	0.075%	0.075%	6.2	6.2	65%	65%
50	4	8,330	0.00048	0.080%	0.080%	6.7	6.7	60%	60%
51	7	8,513	0.00082	0.085%	0.085%	7.2	7.2	97%	97%
52	9	8,818	0.00102	0.090%	0.090%	7.9	7.9	113%	113%
53	8	9,010	0.00089	0.095%	0.095%	8.6	8.6	93%	93%
54	17	9,355	0.00182	0.100%	0.100%	9.4	9.4	182%	182%
55	9	9,621	0.00094	0.105%	0.105%	10.1	10.1	89%	89%
56	10	9,554	0.00105	0.110%	0.110%	10.5	10.5	95%	95%
57	6	9,169	0.00065	0.115%	0.115%	10.5	10.5	57%	57%
58	14	9,048	0.00155	0.120%	0.120%	10.9	10.9	129%	129%
59	12	8,651	0.00139	0.125%	0.125%	10.8	10.8	111%	111%
60	17	8,214	0.00207	0.130%	0.130%	10.7	10.7	159%	159%
61	16	7,401	0.00216	0.135%	0.135%	10.0	10.0	160%	160%
62	10	6,636	0.00151	0.140%	0.140%	9.3	9.3	108%	108%
63	11	5,389	0.00204	0.145%	0.145%	7.8	7.8	141%	141%
64	5	4,215	0.00119	0.150%	0.150%	6.3	6.3	79%	79%
65	3	3,305	0.00091	0.160%	0.160%	5.3	5.3	57%	57%
66	4	2,557	0.00156	0.175%	0.175%	4.5	4.5	89%	89%
67	7	1,836	0.00381	0.195%	0.195%	3.6	3.6	196%	196%
68	4	1,381	0.00290	0.220%	0.220%	3.0	3.0	132%	132%
69	6	1,043	0.00575	0.250%	0.250%	2.6	2.6	230%	230%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	234	340,479				226.9	226.9	103%	103%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	994	0.00000	0.040%	0.040%	0.4	0.4	0%	0%
25-29	2	9,268	0.00022	0.040%	0.040%	3.7	3.7	54%	54%
30-34	2	14,211	0.00014	0.044%	0.044%	6.3	6.3	32%	32%
35-39	1	13,582	0.00007	0.054%	0.054%	7.3	7.3	14%	14%
40-44	13	13,104	0.00099	0.079%	0.079%	10.4	10.4	125%	125%
45-49	12	12,108	0.00099	0.130%	0.130%	15.8	15.8	76%	76%
50-54	26	12,532	0.00207	0.180%	0.180%	22.6	22.6	115%	115%
55-59	26	12,505	0.00208	0.229%	0.229%	28.7	28.7	91%	91%
60-64	30	9,238	0.00325	0.277%	0.277%	25.6	25.6	117%	117%
65-69	12	3,376	0.00355	0.378%	0.378%	12.7	12.7	94%	94%
70-74	0	0	N/A	0.000%		0	0	0%	0%
Other	0	0	N/A	0.000%		0	0	0%	0%
Total	124	100,918				133.5	133.5	93%	93%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	3,499	0.00000	0.020%	0.020%	0.7	0.7	0%	0%
25-29	5	36,603	0.00014	0.020%	0.020%	7.3	7.3	68%	68%
30-34	4	48,011	0.00008	0.022%	0.022%	10.5	10.5	38%	38%
35-39	10	41,318	0.00024	0.027%	0.027%	11.1	11.1	90%	90%
40-44	17	39,417	0.00043	0.040%	0.040%	15.7	15.7	108%	108%
45-49	19	39,585	0.00048	0.065%	0.065%	25.8	25.8	74%	74%
50-54	45	44,026	0.00102	0.090%	0.090%	39.8	39.8	113%	113%
55-59	51	46,043	0.00111	0.115%	0.115%	52.8	52.8	97%	97%
60-64	59	31,855	0.00185	0.138%	0.138%	44.1	44.1	134%	134%
65-69	24	10,122	0.00237	0.188%	0.188%	19.0	19.0	126%	126%
70-74	0	0	N/A	0.000%		0	0	0%	0%
Other	0	0	N/A	0.000%		0	0	0%	0%
Total	234	340,479				226.9	226.9	103%	103%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

TABLE 8A				10-YEAR PERIOD ENDING 6/30/2013					
Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	12	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	41	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	112	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	1	1,328	0.00075	0.040%	0.040%	0.5	0.5	188%	188%
24	0	2,582	0.00000	0.040%	0.040%	1.0	1.0	0%	0%
25	0	3,638	0.00000	0.040%	0.040%	1.5	1.5	0%	0%
26	1	4,418	0.00023	0.040%	0.040%	1.8	1.8	57%	57%
27	2	5,140	0.00039	0.040%	0.040%	2.1	2.1	97%	97%
28	2	5,678	0.00035	0.040%	0.040%	2.3	2.3	88%	88%
29	0	6,025	0.00000	0.040%	0.040%	2.4	2.4	0%	0%
30	3	6,233	0.00048	0.040%	0.040%	2.5	2.5	120%	120%
31	0	6,424	0.00000	0.042%	0.042%	2.7	2.7	0%	0%
32	2	6,548	0.00031	0.044%	0.044%	2.9	2.9	69%	69%
33	0	6,571	0.00000	0.046%	0.046%	3.0	3.0	0%	0%
34	4	6,539	0.00061	0.048%	0.048%	3.1	3.1	127%	127%
35	0	6,504	0.00000	0.050%	0.050%	3.3	3.3	0%	0%
36	0	6,441	0.00000	0.052%	0.052%	3.3	3.3	0%	0%
37	1	6,425	0.00016	0.054%	0.054%	3.5	3.5	29%	29%
38	5	6,162	0.00081	0.056%	0.056%	3.5	3.5	145%	145%
39	2	6,123	0.00033	0.058%	0.058%	3.6	3.6	56%	56%
40	5	6,072	0.00082	0.060%	0.060%	3.6	3.6	137%	137%
41	3	6,020	0.00050	0.070%	0.070%	4.2	4.2	71%	71%
42	3	5,955	0.00050	0.080%	0.080%	4.8	4.8	63%	63%
43	8	5,929	0.00135	0.090%	0.090%	5.3	5.3	150%	150%
44	8	5,884	0.00136	0.100%	0.100%	5.9	5.9	136%	136%
45	6	5,863	0.00102	0.110%	0.110%	6.4	6.4	93%	93%
46	7	5,960	0.00117	0.120%	0.120%	7.2	7.2	98%	98%
47	12	6,103	0.00197	0.130%	0.130%	7.9	7.9	151%	151%
48	7	6,198	0.00113	0.140%	0.140%	8.7	8.7	81%	81%
49	5	6,271	0.00080	0.150%	0.150%	9.4	9.4	53%	53%
50	10	6,349	0.00158	0.160%	0.160%	10.2	10.2	98%	98%
51	10	6,539	0.00153	0.170%	0.170%	11.1	11.1	90%	90%
52	23	6,795	0.00338	0.180%	0.180%	12.2	12.2	188%	188%
53	16	7,101	0.00225	0.190%	0.190%	13.5	13.5	119%	119%
54	19	7,537	0.00252	0.200%	0.200%	15.1	15.1	126%	126%
55	10	8,159	0.00123	0.210%	0.210%	17.1	17.1	58%	58%
56	16	7,647	0.00209	0.220%	0.220%	16.8	16.8	95%	95%
57	21	7,017	0.00299	0.230%	0.230%	16.1	16.1	130%	130%
58	18	6,441	0.00279	0.240%	0.240%	15.5	15.5	116%	116%
59	16	5,733	0.00279	0.250%	0.250%	14.3	14.3	112%	112%
60	13	5,184	0.00251	0.260%	0.260%	13.5	13.5	96%	96%
61	27	4,537	0.00595	0.270%	0.270%	12.2	12.2	220%	220%
62	14	3,883	0.00361	0.280%	0.280%	10.9	10.9	129%	129%
63	17	3,086	0.00551	0.290%	0.290%	8.9	8.9	190%	190%
64	8	2,553	0.00313	0.300%	0.300%	7.7	7.7	104%	104%
65	10	2,061	0.00485	0.320%	0.320%	6.6	6.6	152%	152%
66	6	1,611	0.00372	0.350%	0.350%	5.6	5.6	106%	106%
67	6	1,235	0.00486	0.390%	0.390%	4.8	4.8	125%	125%
68	7	977	0.00716	0.440%	0.440%	4.3	4.3	163%	163%
69	2	771	0.00259	0.500%	0.500%	3.9	3.9	52%	52%
70	0	0	N/A	N/A	N/A	0	0	0%	0%
71	0	0	N/A	N/A	N/A	0	0	0%	0%
72	0	0	N/A	N/A	N/A	0	0	0%	0%
73	0	0	N/A	N/A	N/A	0	0	0%	0%
74	0	0	N/A	N/A	N/A	0	0	0%	0%
Other	0	0	N/A	N/A	N/A	0	0	0%	0%
Total	356	248,415				326.7	326.7	109%	109%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 8B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	25	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
21	0	83	0.00000	0.020%	0.020%	0.0	0.0	0%	0%
22	0	424	0.00000	0.020%	0.020%	0.1	0.1	0%	0%
23	0	5,603	0.00000	0.020%	0.020%	1.1	1.1	0%	0%
24	3	10,730	0.00028	0.020%	0.020%	2.1	2.1	140%	140%
25	2	15,043	0.00013	0.020%	0.020%	3.0	3.0	66%	66%
26	4	18,346	0.00022	0.020%	0.020%	3.7	3.7	109%	109%
27	1	20,664	0.00005	0.020%	0.020%	4.1	4.1	24%	24%
28	6	22,219	0.00027	0.020%	0.020%	4.4	4.4	135%	135%
29	6	22,981	0.00026	0.020%	0.020%	4.6	4.6	131%	131%
30	6	22,914	0.00026	0.020%	0.020%	4.6	4.6	131%	131%
31	2	22,461	0.00009	0.021%	0.021%	4.7	4.7	42%	42%
32	5	21,743	0.00023	0.022%	0.022%	4.8	4.8	105%	105%
33	0	21,154	0.00000	0.023%	0.023%	4.9	4.9	0%	0%
34	7	20,426	0.00034	0.024%	0.024%	4.9	4.9	143%	143%
35	3	19,782	0.00015	0.025%	0.025%	4.9	4.9	61%	61%
36	4	19,208	0.00021	0.026%	0.026%	5.0	5.0	80%	80%
37	5	18,688	0.00027	0.027%	0.027%	5.0	5.0	99%	99%
38	5	18,210	0.00027	0.028%	0.028%	5.1	5.1	98%	98%
39	11	17,864	0.00062	0.029%	0.029%	5.2	5.2	212%	212%
40	6	17,976	0.00033	0.030%	0.030%	5.4	5.4	111%	111%
41	15	18,093	0.00083	0.035%	0.035%	6.3	6.3	237%	237%
42	12	18,442	0.00065	0.040%	0.040%	7.4	7.4	163%	163%
43	6	18,428	0.00033	0.045%	0.045%	8.3	8.3	72%	72%
44	17	18,631	0.00091	0.050%	0.050%	9.3	9.3	182%	182%
45	7	18,992	0.00037	0.055%	0.055%	10.4	10.4	67%	67%
46	18	19,457	0.00093	0.060%	0.060%	11.7	11.7	154%	154%
47	13	20,152	0.00065	0.065%	0.065%	13.1	13.1	99%	99%
48	7	20,941	0.00033	0.070%	0.070%	14.7	14.7	48%	48%
49	22	21,606	0.00102	0.075%	0.075%	16.2	16.2	136%	136%
50	30	22,276	0.00135	0.080%	0.080%	17.8	17.8	168%	168%
51	25	23,149	0.00108	0.085%	0.085%	19.7	19.7	127%	127%
52	30	24,079	0.00125	0.090%	0.090%	21.7	21.7	138%	138%
53	34	24,917	0.00136	0.095%	0.095%	23.7	23.7	144%	144%
54	37	26,075	0.00142	0.100%	0.100%	26.1	26.1	142%	142%
55	34	26,945	0.00126	0.105%	0.105%	28.3	28.3	120%	120%
56	37	25,373	0.00146	0.110%	0.110%	27.9	27.9	133%	133%
57	24	23,368	0.00103	0.115%	0.115%	26.9	26.9	89%	89%
58	34	21,510	0.00158	0.120%	0.120%	25.8	25.8	132%	132%
59	36	19,410	0.00185	0.125%	0.125%	24.3	24.3	148%	148%
60	30	17,564	0.00171	0.130%	0.130%	22.8	22.8	131%	131%
61	37	15,419	0.00240	0.135%	0.135%	20.8	20.8	178%	178%
62	27	13,390	0.00202	0.140%	0.140%	18.7	18.7	144%	144%
63	30	10,432	0.00288	0.145%	0.145%	15.1	15.1	198%	198%
64	16	8,253	0.00194	0.150%	0.150%	12.4	12.4	129%	129%
65	25	6,598	0.00379	0.160%	0.160%	10.6	10.6	237%	237%
66	20	5,033	0.00397	0.175%	0.175%	8.8	8.8	227%	227%
67	22	3,676	0.00598	0.195%	0.195%	7.2	7.2	307%	307%
68	7	2,796	0.00250	0.220%	0.220%	6.2	6.2	114%	114%
69	11	2,136	0.00515	0.250%	0.250%	5.3	5.3	206%	206%
70	0	0	N/A	0.000%	0.000%	0	0	0%	0%
71	0	0	N/A	0.000%	0.000%	0	0	0%	0%
72	0	0	N/A	0.000%	0.000%	0	0	0%	0%
73	0	0	N/A	0.000%	0.000%	0	0	0%	0%
74	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0	0	0%	0%
Total	739	833,685				545.1	545.1	136%	136%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 8A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	1	4,075	0.00025	0.040%	0.040%	1.6	1.6	61%	61%
25-29	5	24,899	0.00020	0.040%	0.040%	10.0	10.0	50%	50%
30-34	9	32,315	0.00028	0.044%	0.044%	14.2	14.2	63%	63%
35-39	8	31,655	0.00025	0.054%	0.054%	17.1	17.1	47%	47%
40-44	27	29,860	0.00090	0.080%	0.080%	23.8	23.8	113%	113%
45-49	37	30,395	0.00122	0.130%	0.130%	39.6	39.6	93%	93%
50-54	78	34,321	0.00227	0.181%	0.181%	62.1	62.1	126%	126%
55-59	81	34,997	0.00231	0.228%	0.228%	79.9	79.9	101%	101%
60-64	79	19,243	0.00411	0.277%	0.277%	53.2	53.2	148%	148%
65-69	31	6,655	0.00466	0.379%	0.379%	25.2	25.2	123%	123%
70-74	0	0	N/A	0.000%		0	0	0%	0%
Other	0	0	N/A	0.000%		0	0	0%	0%
<b>Total</b>	<b>356</b>	<b>248,415</b>				<b>326.7</b>	<b>326.7</b>	<b>109%</b>	<b>109%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 8B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected (7)	Proposed (8)	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	3	16,865	0.00018	0.020%	0.020%	3.4	3.4	89%	89%
25-29	19	99,253	0.00019	0.020%	0.020%	19.9	19.9	96%	96%
30-34	20	108,698	0.00018	0.022%	0.022%	23.9	23.9	84%	84%
35-39	28	93,752	0.00030	0.027%	0.027%	25.3	25.3	111%	111%
40-44	56	91,570	0.00061	0.040%	0.040%	36.7	36.7	153%	153%
45-49	67	101,148	0.00066	0.065%	0.065%	66.1	66.1	101%	101%
50-54	156	120,496	0.00129	0.090%	0.090%	108.9	108.9	143%	143%
55-59	165	116,606	0.00142	0.114%	0.114%	133.2	133.2	124%	124%
60-64	140	65,058	0.00215	0.138%	0.138%	89.9	89.9	156%	156%
65-69	85	20,239	0.00420	0.188%	0.188%	38.0	38.0	224%	224%
70-74	0	0	N/A	0.000%		0	0	0%	0%
Other	0	0	N/A	0.000%		0	0	0%	0%
Total	739	833,685				545.1	545.1	136%	136%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 8C Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual/ Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	97,941	109	82.9	131%	0.111%	0.085%
2005	105,685	129	84.3	153%	0.122%	0.080%
2006	106,017	134	83.9	160%	0.126%	0.079%
2007	110,383	155	86.3	180%	0.140%	0.078%
2008	109,319	132	86.2	153%	0.121%	0.079%
2009	111,368	127	87.8	145%	0.114%	0.079%
2010	111,875	91	88.7	103%	0.081%	0.079%
2011	110,187	91	90.6	100%	0.083%	0.082%
2012	108,326	96	89.7	107%	0.089%	0.083%
2013	111,009	99	91.4	108%	0.089%	0.082%
Total	1,082,110	1,163	871.9	133%	0.107%	0.081%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

Age (1)	TABLE 9A			4-YEAR PERIOD ENDING 6/30/2011					
	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.01%	0.02%	0	0	0%	0%
21	0	0	N/A	0.01%	0.02%	0	0	0%	0%
22	0	0	N/A	0.01%	0.02%	0	0	0%	0%
23	0	0	N/A	0.01%	0.02%	0	0	0%	0%
24	0	0	N/A	0.01%	0.02%	0	0	0%	0%
25	0	0	N/A	0.01%	0.02%	0	0	0%	0%
26	0	0	N/A	0.01%	0.02%	0	0	0%	0%
27	0	1	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
28	0	3	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
29	0	2	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30	0	6	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
31	0	12	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
32	0	65	0.0000	0.03%	0.05%	0.0	0.0	0%	0%
33	0	159	0.0000	0.04%	0.07%	0.1	0.1	0%	0%
34	0	245	0.0000	0.05%	0.09%	0.1	0.2	0%	0%
35	0	357	0.0000	0.06%	0.11%	0.2	0.4	0%	0%
36	0	497	0.0000	0.07%	0.12%	0.3	0.6	0%	0%
37	0	618	0.0000	0.08%	0.13%	0.5	0.8	0%	0%
38	1	773	0.0013	0.08%	0.15%	0.6	1.1	154%	88%
39	1	864	0.0012	0.09%	0.16%	0.8	1.4	126%	72%
40	1	938	0.0011	0.10%	0.18%	0.9	1.6	107%	61%
41	0	973	0.0000	0.11%	0.19%	1.1	1.9	0%	0%
42	0	976	0.0000	0.12%	0.21%	1.2	2.0	0%	0%
43	2	1,032	0.0019	0.13%	0.23%	1.3	2.3	149%	85%
44	1	1,093	0.0009	0.14%	0.25%	1.5	2.7	65%	37%
45	1	1,136	0.0009	0.15%	0.26%	1.7	3.0	59%	34%
46	1	1,265	0.0008	0.15%	0.26%	1.9	3.3	53%	30%
47	6	1,337	0.0045	0.15%	0.26%	2.0	3.5	299%	171%
48	4	1,400	0.0029	0.15%	0.26%	2.1	3.7	190%	109%
49	8	1,463	0.0055	0.15%	0.26%	2.2	3.8	365%	208%
50	6	1,552	0.0039	0.15%	0.26%	2.3	4.1	258%	147%
51	6	1,641	0.0037	0.15%	0.26%	2.5	4.3	244%	139%
52	6	1,684	0.0036	0.15%	0.26%	2.5	4.4	238%	136%
53	7	1,768	0.0040	0.15%	0.26%	2.7	4.6	264%	151%
54	6	1,843	0.0033	0.15%	0.26%	2.8	4.8	217%	124%
55	7	2,015	0.0035	0.15%	0.26%	3.0	5.3	232%	132%
56	9	1,999	0.0045	0.15%	0.26%	3.0	5.2	300%	172%
57	7	1,914	0.0037	0.15%	0.26%	2.9	5.0	244%	139%
58	3	1,937	0.0015	0.15%	0.26%	2.9	5.1	103%	59%
59	3	1,735	0.0017	0.15%	0.26%	2.6	4.6	115%	66%
60	5	1,685	0.0030	0.15%	0.26%	2.5	4.4	198%	113%
61	3	1,521	0.0020	0.15%	0.26%	2.3	4.0	131%	75%
62	4	1,334	0.0030	0.15%	0.26%	2.0	3.5	200%	114%
63	3	976	0.0031	0.15%	0.26%	1.5	2.6	205%	117%
64	3	782	0.0038	0.15%	0.26%	1.2	2.1	256%	146%
65	3	628	0.0048	0.15%	0.26%	0.9	1.6	318%	182%
66	4	474	0.0084	0.15%	0.26%	0.7	1.2	563%	321%
67	2	402	0.0050	0.15%	0.26%	0.6	1.1	332%	190%
68	0	327	0.0000	0.15%	0.26%	0.5	0.9	0%	0%
69	1	253	0.0040	0.15%	0.26%	0.4	0.7	264%	151%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	114	41,685				58.3	102.1	195%	112%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 9B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.01%	0.02%	0	0	0%	0%
21	0	0	N/A	0.01%	0.02%	0	0	0%	0%
22	0	0	N/A	0.01%	0.02%	0	0	0%	0%
23	0	0	N/A	0.01%	0.02%	0	0	0%	0%
24	0	0	N/A	0.01%	0.02%	0	0	0%	0%
25	0	0	N/A	0.01%	0.02%	0	0	0%	0%
26	0	4	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
27	0	6	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
28	0	5	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
29	0	13	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30	0	24	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
31	0	71	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
32	1	354	0.0028	0.02%	0.03%	0.1	0.1	1412%	911%
33	0	802	0.0000	0.03%	0.05%	0.2	0.4	0%	0%
34	0	1,266	0.0000	0.04%	0.06%	0.5	0.8	0%	0%
35	2	1,639	0.0012	0.05%	0.08%	0.8	1.3	244%	157%
36	2	1,960	0.0010	0.06%	0.09%	1.2	1.8	170%	110%
37	5	2,346	0.0021	0.07%	0.11%	1.6	2.5	304%	196%
38	4	2,667	0.0015	0.08%	0.12%	2.1	3.3	187%	121%
39	6	2,786	0.0022	0.09%	0.14%	2.5	3.9	239%	154%
40	2	2,922	0.0007	0.10%	0.16%	2.9	4.5	68%	44%
41	1	3,026	0.0003	0.11%	0.17%	3.3	5.2	30%	19%
42	3	3,148	0.0010	0.12%	0.19%	3.8	5.9	79%	51%
43	4	3,325	0.0012	0.13%	0.20%	4.3	6.7	93%	60%
44	7	3,586	0.0020	0.14%	0.22%	5.0	7.8	139%	90%
45	9	3,793	0.0024	0.15%	0.23%	5.7	8.8	158%	102%
46	5	4,037	0.0012	0.16%	0.25%	6.5	10.0	77%	50%
47	10	4,209	0.0024	0.17%	0.26%	7.2	11.1	140%	90%
48	10	4,437	0.0023	0.18%	0.28%	8.0	12.4	125%	81%
49	13	4,627	0.0028	0.19%	0.29%	8.8	13.6	148%	95%
50	23	5,110	0.0045	0.20%	0.31%	10.2	15.8	225%	145%
51	17	5,519	0.0031	0.20%	0.31%	11.0	17.1	154%	99%
52	21	5,972	0.0035	0.20%	0.31%	11.9	18.5	176%	113%
53	27	6,391	0.0042	0.20%	0.31%	12.8	19.8	211%	136%
54	24	7,024	0.0034	0.20%	0.31%	14.0	21.8	171%	110%
55	20	7,430	0.0027	0.20%	0.31%	14.9	23.0	135%	87%
56	33	7,614	0.0043	0.20%	0.31%	15.2	23.6	217%	140%
57	22	7,503	0.0029	0.20%	0.31%	15.0	23.3	147%	95%
58	15	7,353	0.0020	0.20%	0.31%	14.7	22.8	102%	66%
59	10	6,836	0.0015	0.20%	0.31%	13.7	21.2	73%	47%
60	16	6,345	0.0025	0.20%	0.31%	12.7	19.7	126%	81%
61	13	5,520	0.0024	0.20%	0.31%	11.0	17.1	118%	76%
62	15	4,684	0.0032	0.20%	0.31%	9.4	14.5	160%	103%
63	13	3,498	0.0037	0.20%	0.31%	7.0	10.8	186%	120%
64	10	2,818	0.0035	0.20%	0.31%	5.6	8.7	177%	114%
65	3	2,154	0.0014	0.20%	0.31%	4.3	6.7	70%	45%
66	3	1,727	0.0017	0.20%	0.31%	3.5	5.4	87%	56%
67	0	1,296	0.0000	0.20%	0.31%	2.6	4.0	0%	0%
68	3	977	0.0031	0.20%	0.31%	2.0	3.0	154%	99%
69	1	738	0.0014	0.20%	0.31%	1.5	2.3	68%	44%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>373</b>	<b>147,562</b>				<b>257.6</b>	<b>399.2</b>	<b>145%</b>	<b>93%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 9A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A	0.00%		0	0	0%	0%
25-29	0	6	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30-34	0	487	0.0000	0.04%	0.07%	0.2	0.4	0%	0%
35-39	2	3,109	0.0006	0.08%	0.14%	2.5	4.3	81%	46%
40-44	4	5,012	0.0008	0.12%	0.21%	6.1	10.6	66%	38%
45-49	20	6,601	0.0030	0.15%	0.26%	9.9	17.3	202%	115%
50-54	31	8,488	0.0037	0.15%	0.26%	12.7	22.3	243%	139%
55-59	29	9,600	0.0030	0.15%	0.26%	14.4	25.2	201%	115%
60-64	18	6,298	0.0029	0.15%	0.26%	9.4	16.5	191%	109%
65-69	10	2,084	0.0048	0.15%	0.26%	3.1	5.5	320%	183%
70-74	0	0	N/A	0.00%		0	0	0%	0%
Other	0	0	N/A	0.00%		0	0	0%	0%
<b>Total</b>	<b>114</b>	<b>41,685</b>				<b>58.3</b>	<b>102.1</b>	<b>195%</b>	<b>112%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 9B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A	0.00%		0	0	0%	0%
25-29	0	28	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30-34	1	2,517	0.0004	0.03%	0.05%	0.8	1.3	121%	78%
35-39	19	11,398	0.0017	0.07%	0.11%	8.3	12.8	230%	148%
40-44	17	16,007	0.0011	0.12%	0.19%	19.4	30.0	88%	57%
45-49	47	21,103	0.0022	0.17%	0.27%	36.1	55.9	130%	84%
50-54	112	30,016	0.0037	0.20%	0.31%	60.0	93.0	187%	120%
55-59	100	36,736	0.0027	0.20%	0.31%	73.5	113.9	136%	88%
60-64	67	22,865	0.0029	0.20%	0.31%	45.7	70.9	147%	95%
65-69	10	6,892	0.0015	0.20%	0.31%	13.8	21.4	73%	47%
70-74	0	0	N/A	0.00%		0	0	0%	0%
Other	0	0	N/A	0.00%		0	0	0%	0%
<b>Total</b>	<b>373</b>	<b>147,562</b>				<b>257.6</b>	<b>399.2</b>	<b>145%</b>	<b>93%</b>



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 9A**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.01%	0.02%	0	0	0%	0%
21	0	0	N/A	0.01%	0.02%	0	0	0%	0%
22	0	0	N/A	0.01%	0.02%	0	0	0%	0%
23	0	0	N/A	0.01%	0.02%	0	0	0%	0%
24	0	0	N/A	0.01%	0.02%	0	0	0%	0%
25	0	0	N/A	0.01%	0.02%	0	0	0%	0%
26	0	0	N/A	0.01%	0.02%	0	0	0%	0%
27	0	1	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
28	0	3	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
29	0	3	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30	0	6	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
31	0	17	0.0000	0.02%	0.04%	0.0	0.0	0%	0%
32	1	92	0.0109	0.03%	0.05%	0.0	0.0	3623%	2070%
33	0	217	0.0000	0.04%	0.07%	0.1	0.2	0%	0%
34	0	410	0.0000	0.05%	0.09%	0.2	0.4	0%	0%
35	0	608	0.0000	0.06%	0.11%	0.4	0.6	0%	0%
36	1	864	0.0012	0.07%	0.12%	0.6	1.0	170%	97%
37	0	1,069	0.0000	0.08%	0.13%	0.8	1.4	0%	0%
38	3	1,276	0.0024	0.08%	0.15%	1.1	1.9	280%	160%
39	1	1,440	0.0007	0.09%	0.16%	1.3	2.3	75%	43%
40	2	1,585	0.0013	0.10%	0.18%	1.6	2.8	126%	72%
41	4	1,673	0.0024	0.11%	0.19%	1.8	3.2	217%	124%
42	2	1,789	0.0011	0.12%	0.21%	2.1	3.8	93%	53%
43	4	1,980	0.0020	0.13%	0.23%	2.6	4.5	155%	89%
44	5	2,114	0.0024	0.14%	0.25%	3.0	5.2	169%	97%
45	4	2,269	0.0018	0.15%	0.26%	3.4	6.0	118%	67%
46	3	2,461	0.0012	0.15%	0.26%	3.7	6.5	81%	46%
47	8	2,603	0.0031	0.15%	0.26%	3.9	6.8	205%	117%
48	7	2,781	0.0025	0.15%	0.26%	4.2	7.3	168%	96%
49	14	2,919	0.0048	0.15%	0.26%	4.4	7.7	320%	183%
50	11	3,098	0.0036	0.15%	0.26%	4.6	8.1	237%	135%
51	15	3,341	0.0045	0.15%	0.26%	5.0	8.8	299%	171%
52	14	3,566	0.0039	0.15%	0.26%	5.3	9.4	262%	150%
53	15	3,946	0.0038	0.15%	0.26%	5.9	10.4	253%	145%
54	15	4,389	0.0034	0.15%	0.26%	6.6	11.5	228%	130%
55	19	5,055	0.0038	0.15%	0.26%	7.6	13.3	251%	143%
56	15	4,678	0.0032	0.15%	0.26%	7.0	12.3	214%	122%
57	10	4,272	0.0023	0.15%	0.26%	6.4	11.2	156%	89%
58	8	3,926	0.0020	0.15%	0.26%	5.9	10.3	136%	78%
59	9	3,349	0.0027	0.15%	0.26%	5.0	8.8	179%	102%
60	10	2,928	0.0034	0.15%	0.26%	4.4	7.7	228%	130%
61	7	2,519	0.0028	0.15%	0.26%	3.8	6.6	185%	106%
62	4	2,149	0.0019	0.15%	0.26%	3.2	5.6	124%	71%
63	3	1,645	0.0018	0.15%	0.26%	2.5	4.3	122%	69%
64	10	1,336	0.0075	0.15%	0.26%	2.0	3.5	499%	285%
65	4	1,061	0.0038	0.15%	0.26%	1.6	2.8	251%	144%
66	4	823	0.0049	0.15%	0.26%	1.2	2.2	324%	185%
67	2	662	0.0030	0.15%	0.26%	1.0	1.7	201%	115%
68	3	536	0.0056	0.15%	0.26%	0.8	1.4	373%	213%
69	3	426	0.0070	0.15%	0.26%	0.6	1.1	469%	268%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>240</b>	<b>81,885</b>				<b>115.7</b>	<b>202.5</b>	<b>207%</b>	<b>119%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 9B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.01%	0.02%	0	0	0%	0%
21	0	0	N/A	0.01%	0.02%	0	0	0%	0%
22	0	0	N/A	0.01%	0.02%	0	0	0%	0%
23	0	0	N/A	0.01%	0.02%	0	0	0%	0%
24	0	0	N/A	0.01%	0.02%	0	0	0%	0%
25	0	0	N/A	0.01%	0.02%	0	0	0%	0%
26	0	5	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
27	0	6	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
28	0	5	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
29	0	14	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30	0	28	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
31	0	102	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
32	1	493	0.0020	0.02%	0.03%	0.1	0.2	1014%	654%
33	0	1,269	0.0000	0.03%	0.05%	0.4	0.6	0%	0%
34	2	2,099	0.0010	0.04%	0.06%	0.8	1.3	238%	154%
35	3	2,800	0.0011	0.05%	0.08%	1.4	2.2	214%	138%
36	3	3,365	0.0009	0.06%	0.09%	2.0	3.1	149%	96%
37	8	3,916	0.0020	0.07%	0.11%	2.7	4.2	292%	188%
38	5	4,407	0.0011	0.08%	0.12%	3.5	5.5	142%	91%
39	11	4,770	0.0023	0.09%	0.14%	4.3	6.7	256%	165%
40	9	5,128	0.0018	0.10%	0.16%	5.1	7.9	176%	113%
41	4	5,514	0.0007	0.11%	0.17%	6.1	9.4	66%	43%
42	6	5,915	0.0010	0.12%	0.19%	7.1	11.0	85%	55%
43	9	6,229	0.0014	0.13%	0.20%	8.1	12.6	111%	72%
44	13	6,703	0.0019	0.14%	0.22%	9.4	14.5	139%	89%
45	19	7,119	0.0027	0.15%	0.23%	10.7	16.6	178%	115%
46	24	7,683	0.0031	0.16%	0.25%	12.3	19.1	195%	126%
47	23	8,282	0.0028	0.17%	0.26%	14.1	21.8	163%	105%
48	21	8,946	0.0023	0.18%	0.28%	16.1	25.0	130%	84%
49	30	9,568	0.0031	0.19%	0.29%	18.2	28.2	165%	106%
50	44	10,524	0.0042	0.20%	0.31%	21.0	32.6	209%	135%
51	36	11,534	0.0031	0.20%	0.31%	23.1	35.8	156%	101%
52	44	12,702	0.0035	0.20%	0.31%	25.4	39.4	173%	112%
53	72	14,003	0.0051	0.20%	0.31%	28.0	43.4	257%	166%
54	64	15,538	0.0041	0.20%	0.31%	31.1	48.2	206%	133%
55	57	16,671	0.0034	0.20%	0.31%	33.3	51.7	171%	110%
56	58	15,682	0.0037	0.20%	0.31%	31.4	48.6	185%	119%
57	58	14,622	0.0040	0.20%	0.31%	29.2	45.3	198%	128%
58	49	13,403	0.0037	0.20%	0.31%	26.8	41.5	183%	118%
59	31	12,036	0.0026	0.20%	0.31%	24.1	37.3	129%	83%
60	34	10,881	0.0031	0.20%	0.31%	21.8	33.7	156%	101%
61	30	9,383	0.0032	0.20%	0.31%	18.8	29.1	160%	103%
62	31	8,155	0.0038	0.20%	0.31%	16.3	25.3	190%	123%
63	19	6,160	0.0031	0.20%	0.31%	12.3	19.1	154%	99%
64	13	4,896	0.0027	0.20%	0.31%	9.8	15.2	133%	86%
65	5	3,813	0.0013	0.20%	0.31%	7.6	11.8	66%	42%
66	7	2,949	0.0024	0.20%	0.31%	5.9	9.1	119%	77%
67	5	2,244	0.0022	0.20%	0.31%	4.5	7.0	111%	72%
68	6	1,727	0.0035	0.20%	0.31%	3.5	5.4	174%	112%
69	2	1,316	0.0015	0.20%	0.31%	2.6	4.1	76%	49%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	856	282,605				498.9	773.3	172%	111%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 9A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A	0.00%		0	0	0%	0%
25-29	0	7	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30-34	1	742	0.0013	0.04%	0.08%	0.3	0.6	309%	177%
35-39	5	5,257	0.0010	0.08%	0.14%	4.2	7.3	120%	69%
40-44	17	9,141	0.0019	0.12%	0.21%	11.1	19.4	153%	87%
45-49	36	13,033	0.0028	0.15%	0.26%	19.5	34.2	184%	105%
50-54	70	18,340	0.0038	0.15%	0.26%	27.5	48.1	254%	145%
55-59	61	21,280	0.0029	0.15%	0.26%	31.9	55.9	191%	109%
60-64	34	10,577	0.0032	0.15%	0.26%	15.9	27.8	214%	122%
65-69	16	3,508	0.0046	0.15%	0.26%	5.3	9.2	304%	174%
70-74	0	0	N/A	0.00%		0	0	0%	0%
Other	0	0	N/A	0.00%		0	0	0%	0%
<b>Total</b>	<b>240</b>	<b>81,885</b>				<b>115.7</b>	<b>202.5</b>	<b>207%</b>	<b>119%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 9B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	0	N/A	0.00%		0	0	0%	0%
25-29	0	30	0.0000	0.01%	0.02%	0.0	0.0	0%	0%
30-34	3	3,991	0.0008	0.03%	0.05%	1.3	2.1	225%	145%
35-39	30	19,258	0.0016	0.07%	0.11%	14.0	21.7	215%	138%
40-44	41	29,489	0.0014	0.12%	0.19%	35.8	55.4	115%	74%
45-49	117	41,598	0.0028	0.17%	0.27%	71.3	110.6	164%	106%
50-54	260	64,301	0.0040	0.20%	0.31%	128.6	199.3	202%	130%
55-59	253	72,414	0.0035	0.20%	0.31%	144.8	224.5	175%	113%
60-64	127	39,475	0.0032	0.20%	0.31%	79.0	122.4	161%	104%
65-69	25	12,049	0.0021	0.20%	0.31%	24.1	37.4	104%	67%
70-74	0	0	N/A	0.00%		0	0	0%	0%
Other	0	0	N/A	0.00%		0	0	0%	0%
<b>Total</b>	<b>856</b>	<b>282,605</b>				<b>498.9</b>	<b>773.3</b>	<b>172%</b>	<b>111%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 9C Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual/ Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	45,966	141	78.6	179%	0.31%	0.17%
2005	43,520	207	74.3	279%	0.48%	0.17%
2006	42,752	110	72.8	151%	0.26%	0.17%
2007	43,005	156	73.0	214%	0.36%	0.17%
2008	44,425	133	75.0	177%	0.30%	0.17%
2009	46,168	89	77.5	115%	0.19%	0.17%
2010	47,766	129	79.6	162%	0.27%	0.17%
2011	50,888	142	83.8	169%	0.28%	0.16%
2012	51,482	142	84.2	169%	0.28%	0.16%
2013	54,473	60	87.8	68%	0.11%	0.16%
Total	470,445	1,309	786.5	166%	0.28%	0.17%

The probabilities for Ordinary Disability apply even if the Disability benefit is not payable.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

TABLE 10A				4-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	10	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
21	0	18	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
22	0	55	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
23	0	597	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
24	0	1,157	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
25	0	1,658	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
26	0	1,961	0.0000	0.00%	0.00%	0.0	0.1	0%	0%
27	0	2,294	0.0000	0.00%	0.00%	0.0	0.1	0%	0%
28	0	2,548	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
29	0	2,675	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
30	0	2,728	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
31	0	2,813	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
32	0	2,770	0.0000	0.00%	0.01%	0.1	0.1	0%	0%
33	0	2,705	0.0000	0.01%	0.01%	0.2	0.2	0%	0%
34	1	2,609	0.0004	0.01%	0.01%	0.2	0.3	479%	355%
35	1	2,581	0.0004	0.01%	0.01%	0.3	0.3	387%	287%
36	1	2,623	0.0004	0.01%	0.02%	0.3	0.4	318%	235%
37	0	2,692	0.0000	0.01%	0.02%	0.4	0.5	0%	0%
38	1	2,666	0.0004	0.02%	0.02%	0.4	0.6	234%	174%
39	0	2,716	0.0000	0.02%	0.02%	0.5	0.7	0%	0%
40	0	2,568	0.0000	0.02%	0.03%	0.5	0.7	0%	0%
41	0	2,457	0.0000	0.02%	0.03%	0.5	0.7	0%	0%
42	0	2,363	0.0000	0.02%	0.03%	0.5	0.7	0%	0%
43	0	2,347	0.0000	0.02%	0.03%	0.5	0.7	0%	0%
44	1	2,311	0.0004	0.02%	0.03%	0.6	0.7	180%	134%
45	1	2,292	0.0004	0.03%	0.03%	0.6	0.8	175%	129%
46	1	2,387	0.0004	0.03%	0.04%	0.6	0.8	161%	119%
47	0	2,485	0.0000	0.03%	0.04%	0.7	0.9	0%	0%
48	1	2,423	0.0004	0.03%	0.04%	0.7	0.9	147%	109%
49	1	2,460	0.0004	0.03%	0.04%	0.7	1.0	140%	104%
50	1	2,510	0.0004	0.03%	0.04%	0.8	1.0	133%	98%
51	0	2,561	0.0000	0.03%	0.04%	0.8	1.1	0%	0%
52	0	2,597	0.0000	0.03%	0.04%	0.8	1.1	0%	0%
53	1	2,634	0.0004	0.03%	0.04%	0.9	1.2	115%	85%
54	0	2,710	0.0000	0.03%	0.05%	0.9	1.2	0%	0%
55	1	2,833	0.0004	0.04%	0.05%	1.0	1.3	101%	75%
56	2	2,829	0.0007	0.04%	0.05%	1.0	1.4	196%	145%
57	2	2,644	0.0008	0.04%	0.05%	1.0	1.3	204%	151%
58	4	2,634	0.0015	0.04%	0.05%	1.0	1.4	400%	296%
59	5	2,414	0.0021	0.04%	0.05%	0.9	1.3	531%	393%
60	0	2,290	0.0000	0.04%	0.05%	0.9	1.2	0%	0%
61	2	2,057	0.0010	0.04%	0.05%	0.8	1.1	243%	180%
62	0	1,769	0.0000	0.04%	0.05%	0.7	1.0	0%	0%
63	2	1,305	0.0015	0.04%	0.05%	0.5	0.7	383%	284%
64	1	1,066	0.0009	0.04%	0.05%	0.4	0.6	235%	174%
65	0	848	0.0000	0.04%	0.05%	0.3	0.5	0%	0%
66	0	631	0.0000	0.04%	0.05%	0.3	0.3	0%	0%
67	0	526	0.0000	0.04%	0.05%	0.2	0.3	0%	0%
68	0	427	0.0000	0.04%	0.05%	0.2	0.2	0%	0%
69	0	333	0.0000	0.04%	0.05%	0.1	0.2	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	1	0.0000	0.00%	0.00%	0	0	0%	0%
Total	30	101,588				22.2	30.0	135%	100%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	9	0.0000	0.00%	0.01%	0.0	0.0	0%	0%
21	0	41	0.0000	0.00%	0.01%	0.0	0.0	0%	0%
22	0	180	0.0000	0.00%	0.01%	0.0	0.0	0%	0%
23	0	2,325	0.0000	0.00%	0.01%	0.0	0.2	0%	0%
24	0	4,738	0.0000	0.00%	0.01%	0.1	0.3	0%	0%
25	0	6,693	0.0000	0.00%	0.01%	0.1	0.6	0%	0%
26	1	8,142	0.0001	0.00%	0.01%	0.2	0.7	614%	134%
27	0	8,962	0.0000	0.00%	0.01%	0.2	0.8	0%	0%
28	0	9,784	0.0000	0.00%	0.01%	0.2	0.9	0%	0%
29	1	9,951	0.0001	0.00%	0.01%	0.2	0.9	502%	110%
30	0	9,669	0.0000	0.00%	0.01%	0.2	0.9	0%	0%
31	0	9,486	0.0000	0.00%	0.01%	0.2	0.9	0%	0%
32	1	9,046	0.0001	0.00%	0.01%	0.2	0.8	553%	121%
33	0	8,696	0.0000	0.00%	0.01%	0.3	0.8	0%	0%
34	0	8,183	0.0000	0.00%	0.01%	0.3	0.7	0%	0%
35	0	7,953	0.0000	0.01%	0.01%	0.4	0.7	0%	0%
36	1	7,727	0.0001	0.01%	0.01%	0.5	0.7	216%	142%
37	1	7,789	0.0001	0.01%	0.01%	0.5	0.7	183%	141%
38	1	7,764	0.0001	0.01%	0.01%	0.6	0.7	161%	141%
39	2	7,521	0.0003	0.01%	0.01%	0.7	0.7	295%	291%
40	1	7,410	0.0001	0.01%	0.01%	0.7	0.7	135%	147%
41	0	7,192	0.0000	0.01%	0.01%	0.9	0.8	0%	0%
42	0	7,128	0.0000	0.01%	0.01%	1.0	1.0	0%	0%
43	0	7,277	0.0000	0.02%	0.02%	1.2	1.2	0%	0%
44	2	7,474	0.0003	0.02%	0.02%	1.3	1.5	149%	136%
45	2	7,584	0.0003	0.02%	0.02%	1.5	1.7	132%	117%
46	4	7,764	0.0005	0.02%	0.03%	1.7	2.0	234%	203%
47	3	7,961	0.0004	0.02%	0.03%	1.9	2.2	157%	134%
48	6	8,144	0.0007	0.03%	0.03%	2.1	2.5	283%	238%
49	3	8,220	0.0004	0.03%	0.03%	2.3	2.8	130%	109%
50	4	8,710	0.0005	0.03%	0.04%	2.6	3.1	153%	127%
51	8	9,014	0.0009	0.03%	0.04%	2.8	3.5	286%	230%
52	3	9,316	0.0003	0.03%	0.04%	3.0	3.8	101%	79%
53	7	9,579	0.0007	0.03%	0.04%	3.2	4.1	221%	171%
54	8	9,970	0.0008	0.03%	0.04%	3.4	4.4	236%	180%
55	6	10,133	0.0006	0.04%	0.05%	3.5	4.7	169%	129%
56	10	10,097	0.0010	0.04%	0.05%	3.6	4.8	275%	210%
57	8	9,703	0.0008	0.04%	0.05%	3.6	4.7	223%	172%
58	5	9,289	0.0005	0.04%	0.05%	3.5	4.5	142%	111%
59	8	8,494	0.0009	0.04%	0.05%	3.3	4.1	241%	194%
60	3	7,779	0.0004	0.04%	0.05%	3.1	3.8	96%	79%
61	6	6,740	0.0009	0.04%	0.05%	2.7	3.3	223%	183%
62	4	5,623	0.0007	0.04%	0.05%	2.2	2.7	178%	146%
63	2	4,251	0.0005	0.04%	0.05%	1.7	2.1	118%	97%
64	1	3,408	0.0003	0.04%	0.05%	1.4	1.7	73%	60%
65	0	2,591	0.0000	0.04%	0.05%	1.0	1.3	0%	0%
66	4	2,068	0.0019	0.04%	0.05%	0.8	1.0	484%	398%
67	0	1,550	0.0000	0.04%	0.05%	0.6	0.8	0%	0%
68	0	1,165	0.0000	0.04%	0.05%	0.5	0.6	0%	0%
69	1	865	0.0012	0.04%	0.05%	0.3	0.4	289%	238%
70	0	0	N/A	0.00%	0.05%	0	0	0%	0%
71	0	0	N/A	0.00%	0.05%	0	0	0%	0%
72	0	0	N/A	0.00%	0.05%	0	0	0%	0%
73	0	0	N/A	0.00%	0.05%	0	0	0%	0%
74	0	0	N/A	0.00%	0.05%	0	0	0%	0%
Other	1	3	0.3333	0.00%	0.05%	0	0.0	0%	68521%
Total	118	341,161				66.5	87.8	177%	134%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 10A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	1,837	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
25-29	0	11,136	0.0000	0.00%	0.00%	0.2	0.3	0%	0%
30-34	1	13,625	0.0001	0.00%	0.01%	0.6	0.8	169%	125%
35-39	3	13,278	0.0002	0.01%	0.02%	1.9	2.5	161%	119%
40-44	1	12,046	0.0001	0.02%	0.03%	2.6	3.6	38%	28%
45-49	4	12,047	0.0003	0.03%	0.04%	3.3	4.4	123%	91%
50-54	2	13,012	0.0002	0.03%	0.04%	4.2	5.6	48%	36%
55-59	14	13,354	0.0010	0.04%	0.05%	4.9	6.7	284%	210%
60-64	5	8,487	0.0006	0.04%	0.05%	3.4	4.6	147%	109%
65-69	0	2,765	0.0000	0.04%	0.05%	1.1	1.5	0%	0%
70-74	0	0	N/A	0.00%		0	0	0%	0%
Other	0	1	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>30</b>	<b>101,588</b>				<b>22.2</b>	<b>30.0</b>	<b>135%</b>	<b>100%</b>



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	7,293	0.0000	0.00%	0.01%	0.1	0.5	0%	0%
25-29	2	43,532	0.0000	0.00%	0.01%	0.9	4.0	230%	50%
30-34	1	45,080	0.0000	0.00%	0.01%	1.2	4.1	87%	24%
35-39	5	38,754	0.0001	0.01%	0.01%	2.7	3.5	185%	141%
40-44	3	36,481	0.0001	0.01%	0.01%	5.1	5.2	59%	57%
45-49	18	39,673	0.0005	0.02%	0.03%	9.6	11.2	188%	161%
50-54	30	46,589	0.0006	0.03%	0.04%	14.9	19.0	201%	158%
55-59	37	47,716	0.0008	0.04%	0.05%	17.6	22.7	210%	163%
60-64	16	27,801	0.0006	0.04%	0.05%	11.1	13.5	144%	118%
65-69	5	8,239	0.0006	0.04%	0.05%	3.3	4.0	152%	125%
70-74	0	0	N/A	0.00%		0	0	0%	0%
Other	1	3	0.3333	0.00%	0.05%	0	0.0	0%	68521%
<b>Total</b>	<b>118</b>	<b>341,161</b>				<b>66.5</b>	<b>87.8</b>	<b>177%</b>	<b>134%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	12	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
21	0	33	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
22	0	100	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
23	0	1,266	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
24	0	2,386	0.0000	0.00%	0.00%	0.0	0.1	0%	0%
25	0	3,236	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
26	0	3,796	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
27	0	4,324	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
28	0	4,670	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
29	0	4,848	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
30	0	4,909	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
31	0	4,981	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
32	0	5,074	0.0000	0.00%	0.01%	0.2	0.3	0%	0%
33	0	5,078	0.0000	0.01%	0.01%	0.3	0.4	0%	0%
34	1	5,089	0.0002	0.01%	0.01%	0.4	0.5	246%	182%
35	1	5,033	0.0002	0.01%	0.01%	0.5	0.7	199%	147%
36	1	4,999	0.0002	0.01%	0.02%	0.6	0.8	167%	123%
37	1	4,968	0.0002	0.01%	0.02%	0.7	0.9	144%	107%
38	1	4,825	0.0002	0.02%	0.02%	0.8	1.0	130%	96%
39	0	4,858	0.0000	0.02%	0.02%	0.9	1.2	0%	0%
40	0	4,729	0.0000	0.02%	0.03%	0.9	1.3	0%	0%
41	0	4,582	0.0000	0.02%	0.03%	1.0	1.3	0%	0%
42	1	4,533	0.0002	0.02%	0.03%	1.0	1.3	100%	74%
43	0	4,578	0.0000	0.02%	0.03%	1.1	1.4	0%	0%
44	1	4,591	0.0002	0.02%	0.03%	1.1	1.5	91%	67%
45	1	4,621	0.0002	0.03%	0.03%	1.2	1.6	87%	64%
46	3	4,768	0.0006	0.03%	0.04%	1.2	1.7	242%	179%
47	1	4,903	0.0002	0.03%	0.04%	1.3	1.8	76%	56%
48	1	4,949	0.0002	0.03%	0.04%	1.4	1.9	72%	53%
49	6	5,041	0.0012	0.03%	0.04%	1.5	2.0	410%	304%
50	2	5,145	0.0004	0.03%	0.04%	1.5	2.1	130%	96%
51	0	5,302	0.0000	0.03%	0.04%	1.6	2.2	0%	0%
52	3	5,552	0.0005	0.03%	0.04%	1.8	2.4	169%	125%
53	3	5,888	0.0005	0.03%	0.04%	1.9	2.6	154%	114%
54	3	6,262	0.0005	0.03%	0.05%	2.1	2.9	141%	104%
55	3	6,818	0.0004	0.04%	0.05%	2.4	3.2	126%	93%
56	4	6,351	0.0006	0.04%	0.05%	2.3	3.1	175%	130%
57	6	5,793	0.0010	0.04%	0.05%	2.1	2.9	280%	207%
58	6	5,350	0.0011	0.04%	0.05%	2.0	2.7	295%	219%
59	7	4,636	0.0015	0.04%	0.05%	1.8	2.4	387%	287%
60	1	4,050	0.0002	0.04%	0.05%	1.6	2.2	62%	46%
61	4	3,475	0.0012	0.04%	0.05%	1.4	1.9	288%	213%
62	2	2,924	0.0007	0.04%	0.05%	1.2	1.6	171%	127%
63	2	2,248	0.0009	0.04%	0.05%	0.9	1.2	222%	165%
64	2	1,837	0.0011	0.04%	0.05%	0.7	1.0	272%	202%
65	0	1,468	0.0000	0.04%	0.05%	0.6	0.8	0%	0%
66	2	1,128	0.0018	0.04%	0.05%	0.5	0.6	443%	328%
67	0	911	0.0000	0.04%	0.05%	0.4	0.5	0%	0%
68	0	728	0.0000	0.04%	0.05%	0.3	0.4	0%	0%
69	2	565	0.0035	0.04%	0.05%	0.2	0.3	885%	656%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
71	0	0	N/A	0.00%	0.00%	0	0	0%	0%
72	0	0	N/A	0.00%	0.00%	0	0	0%	0%
73	0	0	N/A	0.00%	0.00%	0	0	0%	0%
74	1	0	N/A	0.00%	0.00%	0	0	0%	0%
Other	0	3	0.0000	0.00%	0.00%	0	0	0%	0%
Total	72	198,214				44.1	59.5	163%	121%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	22	0.0000	0.00%	0.01%	0.0	0.0	0%	0%
21	0	70	0.0000	0.00%	0.01%	0.0	0.0	0%	0%
22	0	383	0.0000	0.00%	0.01%	0.0	0.0	0%	0%
23	0	5,425	0.0000	0.00%	0.01%	0.1	0.4	0%	0%
24	0	10,061	0.0000	0.00%	0.01%	0.2	0.7	0%	0%
25	0	13,547	0.0000	0.00%	0.01%	0.3	1.2	0%	0%
26	1	16,001	0.0001	0.00%	0.01%	0.3	1.5	312%	68%
27	0	17,298	0.0000	0.00%	0.01%	0.3	1.6	0%	0%
28	1	18,205	0.0001	0.00%	0.01%	0.4	1.7	275%	60%
29	1	18,387	0.0001	0.00%	0.01%	0.4	1.7	272%	60%
30	0	17,800	0.0000	0.00%	0.01%	0.4	1.6	0%	0%
31	0	17,342	0.0000	0.00%	0.01%	0.3	1.6	0%	0%
32	1	16,745	0.0001	0.00%	0.01%	0.3	1.5	299%	65%
33	0	16,355	0.0000	0.00%	0.01%	0.5	1.5	0%	0%
34	1	15,824	0.0001	0.00%	0.01%	0.6	1.4	158%	69%
35	0	15,234	0.0000	0.01%	0.01%	0.8	1.4	0%	0%
36	1	14,716	0.0001	0.01%	0.01%	0.9	1.3	113%	74%
37	1	14,342	0.0001	0.01%	0.01%	1.0	1.3	100%	76%
38	3	14,106	0.0002	0.01%	0.01%	1.1	1.3	266%	233%
39	2	13,841	0.0001	0.01%	0.01%	1.2	1.3	161%	158%
40	3	13,937	0.0002	0.01%	0.01%	1.4	1.3	215%	235%
41	1	13,914	0.0001	0.01%	0.01%	1.7	1.6	60%	62%
42	1	14,124	0.0001	0.01%	0.01%	2.0	2.0	51%	50%
43	1	14,345	0.0001	0.02%	0.02%	2.3	2.4	44%	41%
44	5	14,682	0.0003	0.02%	0.02%	2.6	2.9	189%	173%
45	4	15,094	0.0003	0.02%	0.02%	3.0	3.4	133%	118%
46	5	15,653	0.0003	0.02%	0.03%	3.4	4.0	145%	126%
47	6	16,278	0.0004	0.02%	0.03%	3.9	4.6	154%	131%
48	11	16,907	0.0007	0.03%	0.03%	4.4	5.2	250%	210%
49	5	17,447	0.0003	0.03%	0.03%	4.9	5.9	102%	85%
50	8	18,167	0.0004	0.03%	0.04%	5.5	6.6	147%	122%
51	13	18,927	0.0007	0.03%	0.04%	5.9	7.3	222%	178%
52	9	19,768	0.0005	0.03%	0.04%	6.3	8.1	142%	112%
53	17	20,599	0.0008	0.03%	0.04%	6.8	8.8	250%	193%
54	12	21,663	0.0006	0.03%	0.04%	7.4	9.6	163%	124%
55	16	22,174	0.0007	0.04%	0.05%	7.8	10.2	206%	157%
56	17	20,684	0.0008	0.04%	0.05%	7.4	9.8	228%	174%
57	15	18,983	0.0008	0.04%	0.05%	7.0	9.1	214%	164%
58	13	17,153	0.0008	0.04%	0.05%	6.5	8.3	199%	156%
59	16	15,162	0.0011	0.04%	0.05%	5.9	7.4	271%	217%
60	11	13,494	0.0008	0.04%	0.05%	5.4	6.6	204%	168%
61	9	11,593	0.0008	0.04%	0.05%	4.6	5.6	194%	160%
62	7	9,932	0.0007	0.04%	0.05%	4.0	4.8	176%	145%
63	5	7,566	0.0007	0.04%	0.05%	3.0	3.7	165%	136%
64	5	6,016	0.0008	0.04%	0.05%	2.4	2.9	208%	171%
65	1	4,659	0.0002	0.04%	0.05%	1.9	2.3	54%	44%
66	4	3,585	0.0011	0.04%	0.05%	1.4	1.7	279%	229%
67	1	2,714	0.0004	0.04%	0.05%	1.1	1.3	92%	76%
68	1	2,075	0.0005	0.04%	0.05%	0.8	1.0	120%	99%
69	1	1,555	0.0006	0.04%	0.05%	0.6	0.8	161%	132%
70	0	0	N/A	0.00%	0.05%	0	0	0%	0%
71	0	0	N/A	0.00%	0.05%	0	0	0%	0%
72	0	0	N/A	0.00%	0.05%	0	0	0%	0%
73	0	0	N/A	0.00%	0.05%	0	0	0%	0%
74	0	0	N/A	0.00%	0.05%	0	0	0%	0%
Other	1	7	0.1429	0.00%	0.05%	0	0.0	0%	29366%
Total	236	664,561				130.5	172.1	181%	137%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN**

**TABLE 10A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	3,797	0.0000	0.00%	0.00%	0.1	0.1	0%	0%
25-29	0	20,874	0.0000	0.00%	0.00%	0.4	0.6	0%	0%
30-34	1	25,131	0.0000	0.00%	0.01%	1.1	1.5	90%	67%
35-39	4	24,683	0.0002	0.01%	0.02%	3.4	4.7	116%	86%
40-44	2	23,013	0.0001	0.02%	0.03%	5.1	6.8	40%	29%
45-49	12	24,282	0.0005	0.03%	0.04%	6.6	8.9	183%	135%
50-54	11	28,149	0.0004	0.03%	0.04%	9.0	12.2	122%	90%
55-59	26	28,948	0.0009	0.04%	0.05%	10.7	14.4	244%	181%
60-64	11	14,534	0.0008	0.04%	0.05%	5.8	7.8	189%	140%
65-69	4	4,800	0.0008	0.04%	0.05%	1.9	2.6	208%	154%
70-74	1	0	N/A	0.00%		0	0	0%	0%
Other	0	3	0.0000	0.00%	0.00%	0	0	0%	0%
<b>Total</b>	<b>72</b>	<b>198,214</b>				<b>44.1</b>	<b>59.5</b>	<b>163%</b>	<b>121%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	15,961	0.0000	0.00%	0.01%	0.3	1.0	0%	0%
25-29	3	83,438	0.0000	0.00%	0.01%	1.7	7.6	180%	39%
30-34	2	84,066	0.0000	0.00%	0.01%	2.2	7.7	93%	26%
35-39	7	72,239	0.0001	0.01%	0.01%	5.0	6.6	139%	106%
40-44	11	71,002	0.0002	0.01%	0.01%	10.0	10.2	110%	108%
45-49	31	81,379	0.0004	0.02%	0.03%	19.7	23.1	158%	134%
50-54	59	99,124	0.0006	0.03%	0.04%	31.8	40.4	185%	146%
55-59	77	94,156	0.0008	0.04%	0.05%	34.7	44.8	222%	172%
60-64	37	48,601	0.0008	0.04%	0.05%	19.4	23.6	190%	156%
65-69	8	14,588	0.0005	0.04%	0.05%	5.8	7.1	137%	113%
70-74	0	0	N/A	0.00%		0	0	0%	0%
Other	1	7	0.1429	0.00%	0.05%	0	0.0	0%	29366%
<b>Total</b>	<b>236</b>	<b>664,561</b>				<b>130.5</b>	<b>172.1</b>	<b>181%</b>	<b>137%</b>

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 10C Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual/ Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	97,941	29	21.3	136%	0.03%	0.02%
2005	105,685	51	21.5	238%	0.05%	0.02%
2006	106,017	23	21.3	108%	0.02%	0.02%
2007	110,383	59	21.8	270%	0.05%	0.02%
2008	109,319	27	21.7	124%	0.02%	0.02%
2009	111,368	42	22.1	190%	0.04%	0.02%
2010	111,875	40	22.3	180%	0.04%	0.02%
2011	110,187	43	22.7	189%	0.04%	0.02%
2012	108,326	29	22.5	129%	0.03%	0.02%
2013	111,009	7	22.9	31%	0.01%	0.02%
Total	1,082,110	350	220.1	159%	0.03%	0.02%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	20,418	\$ 817,037,552	\$ 876,633,949	\$ 923,252,434	56%	7.29%	13.00%
1	21,787	1,061,780,812	1,127,754,376	1,178,576,701	56%	6.21%	11.00%
2	21,419	1,138,868,954	1,188,405,126	1,241,367,160	48%	4.35%	9.00%
3	23,972	1,320,907,921	1,370,324,772	1,426,580,555	47%	3.74%	8.00%
4	24,901	1,448,800,239	1,511,103,912	1,579,192,261	48%	4.30%	9.00%
5	24,171	1,522,002,609	1,606,751,725	1,643,762,818	70%	5.57%	8.00%
6	25,082	1,677,051,284	1,768,861,593	1,811,215,387	68%	5.47%	8.00%
7	24,127	1,689,576,771	1,755,569,550	1,807,847,145	56%	3.91%	7.00%
8	22,364	1,630,631,907	1,658,122,268	1,712,163,502	34%	1.69%	5.00%
9	19,950	1,469,483,220	1,499,970,728	1,587,041,878	600%	2.07%	8.00%
10	17,263	1,263,256,881	1,293,855,642	1,313,787,156	61%	2.42%	4.00%
11	16,016	1,180,188,918	1,195,513,157	1,227,396,475	32%	1.30%	4.00%
12	14,515	1,095,689,413	1,114,680,332	1,161,430,778	29%	1.73%	6.00%
13	12,625	977,394,262	996,577,280	1,016,490,032	49%	1.96%	4.00%
14	11,157	869,189,779	888,171,289	938,724,961	27%	2.18%	8.00%
15	10,092	792,348,242	811,989,992	824,042,172	62%	2.48%	4.00%
16	8,787	713,560,904	721,294,786	742,103,340	27%	1.08%	4.00%
17	8,562	689,608,174	698,559,314	724,088,583	26%	1.30%	5.00%
18	8,631	703,033,906	714,832,743	731,155,262	42%	1.68%	4.00%
19	8,639	711,983,348	732,219,694	797,421,350	24%	2.84%	12.00%
20	8,554	722,842,155	749,201,916	751,755,841	91%	3.65%	4.00%
21	8,139	721,129,553	735,943,991	778,819,917	26%	2.05%	8.00%
22	7,707	707,898,420	726,533,932	736,214,357	66%	2.63%	4.00%
23	7,412	704,293,470	709,811,649	732,465,209	20%	0.78%	4.00%
24	6,951	675,950,233	680,132,038	702,988,242	15%	0.62%	4.00%
25	5,904	580,393,347	583,725,779	603,609,081	14%	0.57%	4.00%
26	4,973	501,713,247	504,639,214	521,781,777	15%	0.58%	4.00%
27	4,060	412,778,264	415,161,512	429,289,395	14%	0.58%	4.00%
28	3,311	339,453,235	340,857,805	353,031,364	10%	0.41%	4.00%
29	2,740	280,121,001	281,585,173	291,325,841	13%	0.52%	4.00%
30+	2,203	230,321,699	231,546,055	239,534,567	13%	0.53%	4.00%
Total	406,432	28,649,289,720	29,490,331,292	30,528,455,540	45%	2.94%	6.56%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Proposed Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	20,418	\$ 817,037,552	\$ 876,633,949	\$ 923,252,434	56%	7.29%	13.00%
1	21,787	1,061,780,812	1,127,754,376	1,178,576,701	56%	6.21%	11.00%
2	21,419	1,138,868,954	1,188,405,126	1,241,367,160	48%	4.35%	9.00%
3	23,972	1,320,907,921	1,370,324,772	1,426,580,555	47%	3.74%	8.00%
4	24,901	1,448,800,239	1,511,103,912	1,579,192,261	48%	4.30%	9.00%
5	24,171	1,522,002,609	1,606,751,725	1,643,762,818	70%	5.57%	8.00%
6	25,082	1,677,051,284	1,768,861,593	1,811,215,387	68%	5.47%	8.00%
7	24,127	1,689,576,771	1,755,569,550	1,807,847,145	56%	3.91%	7.00%
8	22,364	1,630,631,907	1,658,122,268	1,712,163,502	34%	1.69%	5.00%
9	19,950	1,469,483,220	1,499,970,728	1,587,041,878	600%	2.07%	8.00%
10	17,263	1,263,256,881	1,293,855,642	1,313,787,156	61%	2.42%	4.00%
11	16,016	1,180,188,918	1,195,513,157	1,227,396,475	32%	1.30%	4.00%
12	14,515	1,095,689,413	1,114,680,332	1,161,430,778	29%	1.73%	6.00%
13	12,625	977,394,262	996,577,280	1,016,490,032	49%	1.96%	4.00%
14	11,157	869,189,779	888,171,289	938,724,961	27%	2.18%	8.00%
15	10,092	792,348,242	811,989,992	824,042,172	62%	2.48%	4.00%
16	8,787	713,560,904	721,294,786	742,103,340	27%	1.08%	4.00%
17	8,562	689,608,174	698,559,314	724,088,583	26%	1.30%	5.00%
18	8,631	703,033,906	714,832,743	731,155,262	42%	1.68%	4.00%
19	8,639	711,983,348	732,219,694	797,421,350	24%	2.84%	12.00%
20	8,554	722,842,155	749,201,916	751,755,841	91%	3.65%	4.00%
21	8,139	721,129,553	735,943,991	778,819,917	26%	2.05%	8.00%
22	7,707	707,898,420	726,533,932	736,214,357	66%	2.63%	4.00%
23	7,412	704,293,470	709,811,649	732,465,209	20%	0.78%	4.00%
24	6,951	675,950,233	680,132,038	702,988,242	15%	0.62%	4.00%
25	5,904	580,393,347	583,725,779	603,609,081	14%	0.57%	4.00%
26	4,973	501,713,247	504,639,214	521,781,777	15%	0.58%	4.00%
27	4,060	412,778,264	415,161,512	429,289,395	14%	0.58%	4.00%
28	3,311	339,453,235	340,857,805	353,031,364	10%	0.41%	4.00%
29	2,740	280,121,001	281,585,173	291,325,841	13%	0.52%	4.00%
30+	2,203	230,321,699	231,546,055	239,534,567	13%	0.53%	4.00%
Total	406,432	28,649,289,720	29,490,331,292	30,528,455,540	45%	2.94%	6.56%



**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11B

4-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	20,418	\$ 817,037,552	\$ 872,290,699	\$ 898,741,307	68%	6.76%	10.00%
1	21,787	1,061,780,812	1,122,110,107	1,146,723,277	71%	5.68%	8.00%
2	21,419	1,138,868,954	1,182,351,068	1,207,201,091	64%	3.82%	6.00%
3	23,972	1,320,907,921	1,363,303,021	1,386,953,317	64%	3.21%	5.00%
4	24,901	1,448,800,239	1,503,402,305	1,535,728,253	63%	3.77%	6.00%
5	24,171	1,522,002,609	1,598,660,985	1,598,102,739	101%	5.04%	5.00%
6	25,082	1,677,051,284	1,759,946,637	1,760,903,848	99%	4.94%	5.00%
7	24,127	1,689,576,771	1,746,588,010	1,757,159,842	84%	3.37%	4.00%
8	22,364	1,630,631,907	1,649,454,071	1,663,244,545	58%	1.15%	2.00%
9	19,950	1,469,483,220	1,492,159,173	1,542,957,381	31%	1.54%	5.00%
10	17,263	1,263,256,881	1,287,140,356	1,275,889,450	189%	1.89%	1.00%
11	16,016	1,180,188,918	1,189,239,448	1,191,990,807	77%	0.77%	1.00%
12	14,515	1,095,689,413	1,108,855,810	1,128,560,095	40%	1.20%	3.00%
13	12,625	977,394,262	991,381,597	987,168,205	143%	1.43%	1.00%
14	11,157	869,189,779	883,550,805	912,649,268	33%	1.65%	5.00%
15	10,092	792,348,242	807,777,986	800,271,724	195%	1.95%	1.00%
16	8,787	713,560,904	717,501,602	720,696,513	55%	0.55%	1.00%
17	8,562	689,608,174	694,893,459	703,400,337	38%	0.77%	2.00%
18	8,631	703,033,906	711,095,519	710,064,245	115%	1.15%	1.00%
19	8,639	711,983,348	728,434,896	776,061,849	26%	2.31%	9.00%
20	8,554	722,842,155	745,359,394	730,070,577	312%	3.12%	1.00%
21	8,139	721,129,553	732,110,573	757,186,031	30%	1.52%	5.00%
22	7,707	707,898,420	722,770,849	714,977,404	210%	2.10%	1.00%
23	7,412	704,293,470	706,067,729	711,336,405	25%	0.25%	1.00%
24	6,951	675,950,233	676,538,787	682,709,735	9%	0.09%	1.00%
25	5,904	580,393,347	580,640,494	586,197,280	4%	0.04%	1.00%
26	4,973	501,713,247	501,972,181	506,730,379	5%	0.05%	1.00%
27	4,060	412,778,264	412,967,244	416,906,047	5%	0.05%	1.00%
28	3,311	339,453,235	339,053,322	342,847,767	-12%	-0.12%	1.00%
29	2,740	280,121,001	280,096,091	282,922,211	-1%	-0.01%	1.00%
30+	2,203	230,321,699	230,321,699	232,624,916		0.00%	1.00%
Total	406,432	28,649,289,720	29,338,035,916	29,668,976,848	68%	2.40%	3.56%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 1.71%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Proposed Merit Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	20,418	\$ 817,037,552	\$ 872,290,699	\$ 898,741,307	68%	6.76%	10.00%
1	21,787	1,061,780,812	1,122,110,107	1,146,723,277	71%	5.68%	8.00%
2	21,419	1,138,868,954	1,182,351,068	1,207,201,091	64%	3.82%	6.00%
3	23,972	1,320,907,921	1,363,303,021	1,386,953,317	64%	3.21%	5.00%
4	24,901	1,448,800,239	1,503,402,305	1,535,728,253	63%	3.77%	6.00%
5	24,171	1,522,002,609	1,598,660,985	1,598,102,739	101%	5.04%	5.00%
6	25,082	1,677,051,284	1,759,946,637	1,760,903,848	99%	4.94%	5.00%
7	24,127	1,689,576,771	1,746,588,010	1,757,159,842	84%	3.37%	4.00%
8	22,364	1,630,631,907	1,649,454,071	1,663,244,545	58%	1.15%	2.00%
9	19,950	1,469,483,220	1,492,159,173	1,542,957,381	31%	1.54%	5.00%
10	17,263	1,263,256,881	1,287,140,356	1,275,889,450	189%	1.89%	1.00%
11	16,016	1,180,188,918	1,189,239,448	1,191,990,807	77%	0.77%	1.00%
12	14,515	1,095,689,413	1,108,855,810	1,128,560,095	40%	1.20%	3.00%
13	12,625	977,394,262	991,381,597	987,168,205	143%	1.43%	1.00%
14	11,157	869,189,779	883,550,805	912,649,268	33%	1.65%	5.00%
15	10,092	792,348,242	807,777,986	800,271,724	195%	1.95%	1.00%
16	8,787	713,560,904	717,501,602	720,696,513	55%	0.55%	1.00%
17	8,562	689,608,174	694,893,459	703,400,337	38%	0.77%	2.00%
18	8,631	703,033,906	711,095,519	710,064,245	115%	1.15%	1.00%
19	8,639	711,983,348	728,434,896	776,061,849	26%	2.31%	9.00%
20	8,554	722,842,155	745,359,394	730,070,577	312%	3.12%	1.00%
21	8,139	721,129,553	732,110,573	757,186,031	30%	1.52%	5.00%
22	7,707	707,898,420	722,770,849	714,977,404	210%	2.10%	1.00%
23	7,412	704,293,470	706,067,729	711,336,405	25%	0.25%	1.00%
24	6,951	675,950,233	676,538,787	682,709,735	9%	0.09%	1.00%
25	5,904	580,393,347	580,640,494	586,197,280	4%	0.04%	1.00%
26	4,973	501,713,247	501,972,181	506,730,379	5%	0.05%	1.00%
27	4,060	412,778,264	412,967,244	416,906,047	5%	0.05%	1.00%
28	3,311	339,453,235	339,053,322	342,847,767	-12%	-0.12%	1.00%
29	2,740	280,121,001	280,096,091	282,922,211	-1%	-0.01%	1.00%
30+	2,203	230,321,699	230,321,699	232,624,916		0.00%	1.00%
Total	406,432	28,649,289,720	29,338,035,916	29,668,976,848	68%	2.40%	3.56%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	35,700	\$ 1,414,000,593	\$ 1,535,904,139	\$ 1,597,820,670	66%	8.62%	13.00%
1	73,396	3,434,405,658	3,716,795,934	3,812,190,280	75%	8.22%	11.00%
2	83,024	4,100,039,439	4,400,172,863	4,469,042,989	81%	7.32%	9.00%
3	69,541	3,681,488,109	3,908,967,445	3,976,007,158	77%	6.18%	8.00%
4	67,405	3,774,411,365	4,025,997,658	4,114,108,388	74%	6.67%	9.00%
5	57,971	3,451,372,314	3,693,667,641	3,727,482,099	88%	7.02%	8.00%
6	55,336	3,442,180,618	3,676,778,141	3,717,555,067	85%	6.82%	8.00%
7	47,947	3,150,770,823	3,319,008,321	3,371,324,781	76%	5.34%	7.00%
8	44,699	3,026,734,985	3,130,428,155	3,178,071,734	69%	3.43%	5.00%
9	37,645	2,604,054,031	2,700,401,247	2,812,378,353	46%	3.70%	8.00%
10	35,069	2,422,258,790	2,521,450,683	2,519,149,142	102%	4.10%	4.00%
11	31,203	2,191,480,666	2,252,107,477	2,279,139,893	69%	2.77%	4.00%
12	30,259	2,140,997,177	2,211,601,228	2,269,457,008	55%	3.30%	6.00%
13	26,426	1,899,299,409	1,969,290,269	1,975,271,385	92%	3.69%	4.00%
14	26,776	1,919,432,498	1,996,061,098	2,072,987,098	50%	3.99%	8.00%
15	23,739	1,728,667,789	1,804,218,310	1,797,814,501	109%	4.37%	4.00%
16	24,040	1,792,700,563	1,850,691,419	1,864,408,586	81%	3.23%	4.00%
17	21,897	1,649,104,377	1,705,278,999	1,731,559,596	68%	3.41%	5.00%
18	23,198	1,772,088,874	1,838,669,905	1,842,972,429	94%	3.76%	4.00%
19	21,342	1,669,562,877	1,748,392,687	1,869,910,422	39%	4.72%	12.00%
20	21,546	1,737,048,123	1,841,290,278	1,806,530,048	150%	6.00%	4.00%
21	18,570	1,588,693,330	1,650,536,875	1,715,788,796	49%	3.89%	8.00%
22	18,746	1,655,960,689	1,733,152,419	1,722,199,117	117%	4.66%	4.00%
23	15,978	1,469,159,084	1,504,652,684	1,527,925,447	60%	2.42%	4.00%
24	15,267	1,425,310,182	1,458,689,691	1,482,322,589	59%	2.34%	4.00%
25	12,205	1,152,434,832	1,178,368,200	1,198,532,225	56%	2.25%	4.00%
26	11,276	1,077,765,217	1,105,046,016	1,120,875,826	63%	2.53%	4.00%
27	9,000	869,402,829	889,621,702	904,178,942	58%	2.33%	4.00%
28	8,351	805,571,746	826,848,377	837,794,616	66%	2.64%	4.00%
29	6,869	661,727,386	678,843,823	688,196,481	65%	2.59%	4.00%
30+	6,147	589,274,275	603,935,057	612,845,246	62%	2.49%	4.00%
Total	980,568	64,297,398,648	67,476,868,741	68,615,840,912	74%	4.94%	6.72%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11A

10-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Proposed Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	35,700	\$ 1,414,000,593	\$ 1,535,904,139	\$ 1,597,820,670	66%	8.62%	13.00%
1	73,396	3,434,405,658	3,716,795,934	3,812,190,280	75%	8.22%	11.00%
2	83,024	4,100,039,439	4,400,172,863	4,469,042,989	81%	7.32%	9.00%
3	69,541	3,681,488,109	3,908,967,445	3,976,007,158	77%	6.18%	8.00%
4	67,405	3,774,411,365	4,025,997,658	4,114,108,388	74%	6.67%	9.00%
5	57,971	3,451,372,314	3,693,667,641	3,727,482,099	88%	7.02%	8.00%
6	55,336	3,442,180,618	3,676,778,141	3,717,555,067	85%	6.82%	8.00%
7	47,947	3,150,770,823	3,319,008,321	3,371,324,781	76%	5.34%	7.00%
8	44,699	3,026,734,985	3,130,428,155	3,178,071,734	69%	3.43%	5.00%
9	37,645	2,604,054,031	2,700,401,247	2,812,378,353	46%	3.70%	8.00%
10	35,069	2,422,258,790	2,521,450,683	2,519,149,142	102%	4.10%	4.00%
11	31,203	2,191,480,666	2,252,107,477	2,279,139,893	69%	2.77%	4.00%
12	30,259	2,140,997,177	2,211,601,228	2,269,457,008	55%	3.30%	6.00%
13	26,426	1,899,290,409	1,969,290,269	1,975,271,385	92%	3.69%	4.00%
14	26,776	1,919,432,498	1,996,061,098	2,072,987,098	50%	3.99%	8.00%
15	23,739	1,728,667,789	1,804,218,310	1,797,814,501	109%	4.37%	4.00%
16	24,040	1,792,700,563	1,850,691,419	1,864,408,586	81%	3.23%	4.00%
17	21,897	1,649,104,377	1,705,278,999	1,731,559,596	68%	3.41%	5.00%
18	23,198	1,772,088,874	1,838,669,905	1,842,972,429	94%	3.76%	4.00%
19	21,342	1,669,562,877	1,748,392,687	1,869,910,422	39%	4.72%	12.00%
20	21,546	1,737,048,123	1,841,290,278	1,806,530,048	150%	6.00%	4.00%
21	18,570	1,588,693,330	1,650,536,875	1,715,788,796	49%	3.89%	8.00%
22	18,746	1,655,960,689	1,733,152,419	1,722,199,117	117%	4.66%	4.00%
23	15,978	1,469,159,084	1,504,652,684	1,527,925,447	60%	2.42%	4.00%
24	15,267	1,425,310,182	1,458,689,691	1,482,322,589	59%	2.34%	4.00%
25	12,205	1,152,434,832	1,178,368,200	1,198,532,225	56%	2.25%	4.00%
26	11,276	1,077,765,217	1,105,046,016	1,120,875,826	63%	2.53%	4.00%
27	9,000	869,402,829	889,621,702	904,178,942	58%	2.33%	4.00%
28	8,351	805,571,746	826,848,377	837,794,616	66%	2.64%	4.00%
29	6,869	661,727,386	678,843,823	688,196,481	65%	2.59%	4.00%
30+	6,147	589,274,275	603,935,057	612,845,246	62%	2.49%	4.00%
Total	980,568	64,297,398,648	67,476,868,741	68,615,840,912	74%	4.94%	6.72%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

TABLE 11B

10-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Expected Merit Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	35,700	\$ 1,414,000,593	\$ 1,478,664,632	\$ 1,555,400,652	46%	4.57%	10.00%
1	73,396	3,434,405,658	3,545,138,096	3,709,158,111	40%	3.22%	8.00%
2	83,024	4,100,039,439	4,170,183,136	4,346,041,805	29%	1.71%	6.00%
3	69,541	3,681,488,109	3,719,238,276	3,865,562,514	21%	1.03%	5.00%
4	67,405	3,774,411,365	3,830,610,095	4,000,876,047	25%	1.49%	6.00%
5	57,971	3,451,372,314	3,525,363,981	3,623,940,930	43%	2.14%	5.00%
6	55,336	3,442,180,618	3,515,840,547	3,614,289,649	43%	2.14%	5.00%
7	47,947	3,150,770,823	3,171,896,430	3,276,801,656	17%	0.67%	4.00%
8	44,699	3,026,734,985	2,995,053,267	3,087,269,685	-52%	-1.05%	2.00%
9	37,645	2,604,054,031	2,587,868,075	2,734,256,733	-12%	-0.62%	5.00%
10	35,069	2,422,258,790	2,411,491,937	2,446,481,378	-44%	-0.44%	1.00%
11	31,203	2,191,480,666	2,156,165,856	2,213,395,473	-161%	-1.61%	1.00%
12	30,259	2,140,997,177	2,113,673,776	2,205,227,092	-43%	-1.28%	3.00%
13	26,426	1,899,299,409	1,882,857,308	1,918,292,403	-87%	-0.87%	1.00%
14	26,776	1,919,432,498	1,903,381,805	2,015,404,123	-17%	-0.84%	5.00%
15	23,739	1,728,667,789	1,721,693,659	1,745,954,467	-40%	-0.40%	1.00%
16	24,040	1,792,700,563	1,761,062,372	1,810,627,569	-176%	-1.76%	1.00%
17	21,897	1,649,104,377	1,624,565,499	1,682,086,465	-74%	-1.49%	2.00%
18	23,198	1,772,088,874	1,750,030,609	1,789,809,763	-124%	-1.24%	1.00%
19	21,342	1,669,562,877	1,667,559,514	1,819,823,536	-1%	-0.12%	9.00%
20	21,546	1,737,048,123	1,754,914,952	1,754,418,604	103%	1.03%	1.00%
21	18,570	1,588,693,330	1,574,590,699	1,668,127,997	-18%	-0.89%	5.00%
22	18,746	1,655,960,689	1,651,357,804	1,672,520,296	-28%	-0.28%	1.00%
23	15,978	1,469,159,084	1,469,159,084	1,483,850,675		0.00%	1.00%
24	15,267	1,425,310,182	1,425,310,182	1,439,563,284		0.00%	1.00%
25	12,205	1,152,434,832	1,152,434,832	1,163,959,180		0.00%	1.00%
26	11,276	1,077,765,217	1,077,765,217	1,088,542,869		0.00%	1.00%
27	9,000	869,402,829	869,402,829	878,096,857		0.00%	1.00%
28	8,351	805,571,746	805,571,746	813,627,463		0.00%	1.00%
29	6,869	661,727,386	661,727,386	668,344,660		0.00%	1.00%
30+	6,147	589,274,275	589,274,275	595,167,018		0.00%	1.00%
Total	980,568	64,297,398,648	64,563,847,879	66,686,918,952	11%	0.41%	3.72%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%. Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

**TABLE 11B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Proposed Merit Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	35,700	\$ 1,414,000,593	\$ 1,478,664,632	\$ 1,555,400,652	46%	4.57%	10.00%
1	73,396	3,434,405,658	3,545,138,096	3,709,158,111	40%	3.22%	8.00%
2	83,024	4,100,039,439	4,170,183,136	4,346,041,805	29%	1.71%	6.00%
3	69,541	3,681,488,109	3,719,238,276	3,865,562,514	21%	1.03%	5.00%
4	67,405	3,774,411,365	3,830,610,095	4,000,876,047	25%	1.49%	6.00%
5	57,971	3,451,372,314	3,525,363,981	3,623,940,930	43%	2.14%	5.00%
6	55,336	3,442,180,618	3,515,840,547	3,614,289,649	43%	2.14%	5.00%
7	47,947	3,150,770,823	3,171,896,430	3,276,801,656	17%	0.67%	4.00%
8	44,699	3,026,734,985	2,995,053,267	3,087,269,685	-52%	-1.05%	2.00%
9	37,645	2,604,054,031	2,587,868,075	2,734,256,733	-12%	-0.62%	5.00%
10	35,069	2,422,258,790	2,411,491,937	2,446,481,378	-44%	-0.44%	1.00%
11	31,203	2,191,480,666	2,156,165,856	2,213,395,473	-161%	-1.61%	1.00%
12	30,259	2,140,997,177	2,113,673,776	2,205,227,092	-43%	-1.28%	3.00%
13	26,426	1,899,299,409	1,882,857,308	1,918,292,403	-87%	-0.87%	1.00%
14	26,776	1,919,432,498	1,903,381,805	2,015,404,123	-17%	-0.84%	5.00%
15	23,739	1,728,667,789	1,721,693,659	1,745,954,467	-40%	-0.40%	1.00%
16	24,040	1,792,700,563	1,761,062,372	1,810,627,569	-176%	-1.76%	1.00%
17	21,897	1,649,104,377	1,624,565,499	1,682,086,465	-74%	-1.49%	2.00%
18	23,198	1,772,088,874	1,750,030,609	1,789,809,763	-124%	-1.24%	1.00%
19	21,342	1,669,562,877	1,667,559,514	1,819,823,536	-1%	-0.12%	9.00%
20	21,546	1,737,048,123	1,754,914,952	1,754,418,604	103%	1.03%	1.00%
21	18,570	1,588,693,330	1,574,590,699	1,668,127,997	-18%	-0.89%	5.00%
22	18,746	1,655,960,689	1,651,357,804	1,672,520,296	-28%	-0.28%	1.00%
23	15,978	1,469,159,084	1,469,159,084	1,483,850,675		0.00%	1.00%
24	15,267	1,425,310,182	1,425,310,182	1,439,563,284		0.00%	1.00%
25	12,205	1,152,434,832	1,152,434,832	1,163,959,180		0.00%	1.00%
26	11,276	1,077,765,217	1,077,765,217	1,088,542,869		0.00%	1.00%
27	9,000	869,402,829	869,402,829	878,096,857		0.00%	1.00%
28	8,351	805,571,746	805,571,746	813,627,463		0.00%	1.00%
29	6,869	661,727,386	661,727,386	668,344,660		0.00%	1.00%
30+	6,147	589,274,275	589,274,275	595,167,018		0.00%	1.00%
Total	980,568	64,297,398,648	64,563,847,879	66,686,918,952	11%	0.41%	3.72%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS**  
**MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 11C			10-YEAR PERIOD ENDING 6/30/2013		
		Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual/Expected (5)	Actual (4) / (3) (6)	Expected (5) / (3) (7)
2004	89,433	\$ 5,216,945,757	\$ 5,489,254,947	\$ 5,554,523,365	81%	5.22%	6.47%
2005	96,218	5,644,178,251	5,927,158,025	6,033,606,535	73%	5.01%	6.90%
2006	99,527	5,913,664,494	6,501,851,636	6,314,080,223	147%	9.95%	6.77%
2007	101,314	6,444,264,715	6,808,488,361	6,881,506,968	83%	5.65%	6.78%
2008	100,532	6,642,063,889	7,339,306,145	7,086,171,204	157%	10.50%	6.69%
2009	104,175	7,345,603,315	7,542,321,656	7,838,453,029	40%	2.68%	6.71%
2010	105,524	7,463,966,905	7,661,247,669	7,959,206,753	40%	2.64%	6.64%
2011	103,524	7,376,566,980	7,565,241,963	7,854,429,797	39%	2.56%	6.48%
2012	101,655	7,289,792,399	7,532,468,712	7,757,023,221	52%	3.33%	6.41%
2013	104,029	7,389,626,395	7,606,438,503	7,863,285,246	46%	2.93%	6.41%
Total	1,005,931	66,726,673,100	69,973,777,617	71,142,286,342	74%	4.87%	6.62%

**TEACHERS' RETIREMENT SYSTEM OF THE CITY OF NEW YORK**  
**OVERTIME PAY EXPERIENCE FOR ALL YEARS**  
**MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 12A			10-YEAR PERIOD ENDING 6/30/2013		
		Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual/ Expected (6)	Increase %	
						Actual (4) / (3)	Expected (5) / (3)
2004	23	\$ 918,747	\$ 92,193	-		10.03%	0.00%
2005	29	1,197,968	102,946	-		8.59%	0.00%
2006	0	0	-	-			0.00%
2007	0	0	-	-			0.00%
2008	0	0	-	-			0.00%
2009	0	0	-	-			0.00%
2010	0	0	-	-			0.00%
2011	0	0	-	-			0.00%
2012	0	0	-	-			0.00%
2013	0	0	-	-			0.00%
Total	52	2,116,715	195,139	-		9.22%	0.00%



NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments	
		Expected	Average Number of Decrements per Year	Ratio of Actual to				
				Expected	Proposed			
Service Retiree Mortality								
1A	Men	76%	76	82%	104%	77	The proposed assumption is based on actual TRS experience. Future mortality improvements will be projected using scale MP-2014.	
1B	Women	73%	231	84%	96%	233		
1C	By Year							
Disabled Retiree Mortality								
2A	Men	107%	9	100%	97%	8	The proposed assumption is equal to the proposed TRS Disabled Retiree Mortality assumption.	
2B	Women	99%	15	101%	101%	12		
2C	By Year							
Active Member Withdrawals								
3A	Men	132%	179	155%	124%	207	Actual withdrawal experience appears to be higher than expected. The proposed assumption is 125% for males and females of the current assumption.	
3B	Women	144%	476	167%	133%	568		
3C	By Year							
Active Member Service Retirements								
In 1st Year of Eligibility								
4A	Total	25%	67	38%	44%	94	Actual experience appears lower than the current assumption for unreduced retirements. Maximum retirement age of 70 may need to be increased as there are a material number of exposures in excess of 70.	
4B	Elected	32%	4	35%	47%	4		
4C	Mandated	25%	63	38%	44%	90		
In 2nd Year of Eligibility								
5A	Total	72%	111	74%	74%	86		
5B	Elected	110%	6	98%	98%	5		
5C	Mandated	71%	105	73%	73%	81		
After 2nd Year of Eligibility								
6A	Total	44%	421	44%	90%	354		
6B	Elected	106%	16	100%	100%	10		
6C	Mandated	43%	406	43%	90%	343		
6D	By Year							
Reduced Service Retirements								
7A	Total	262%	166	252%	184%	235	Reduced retirement actuals are outpacing what is expected, though actual experience is trending towards the current assumption.	
7B	By Year							

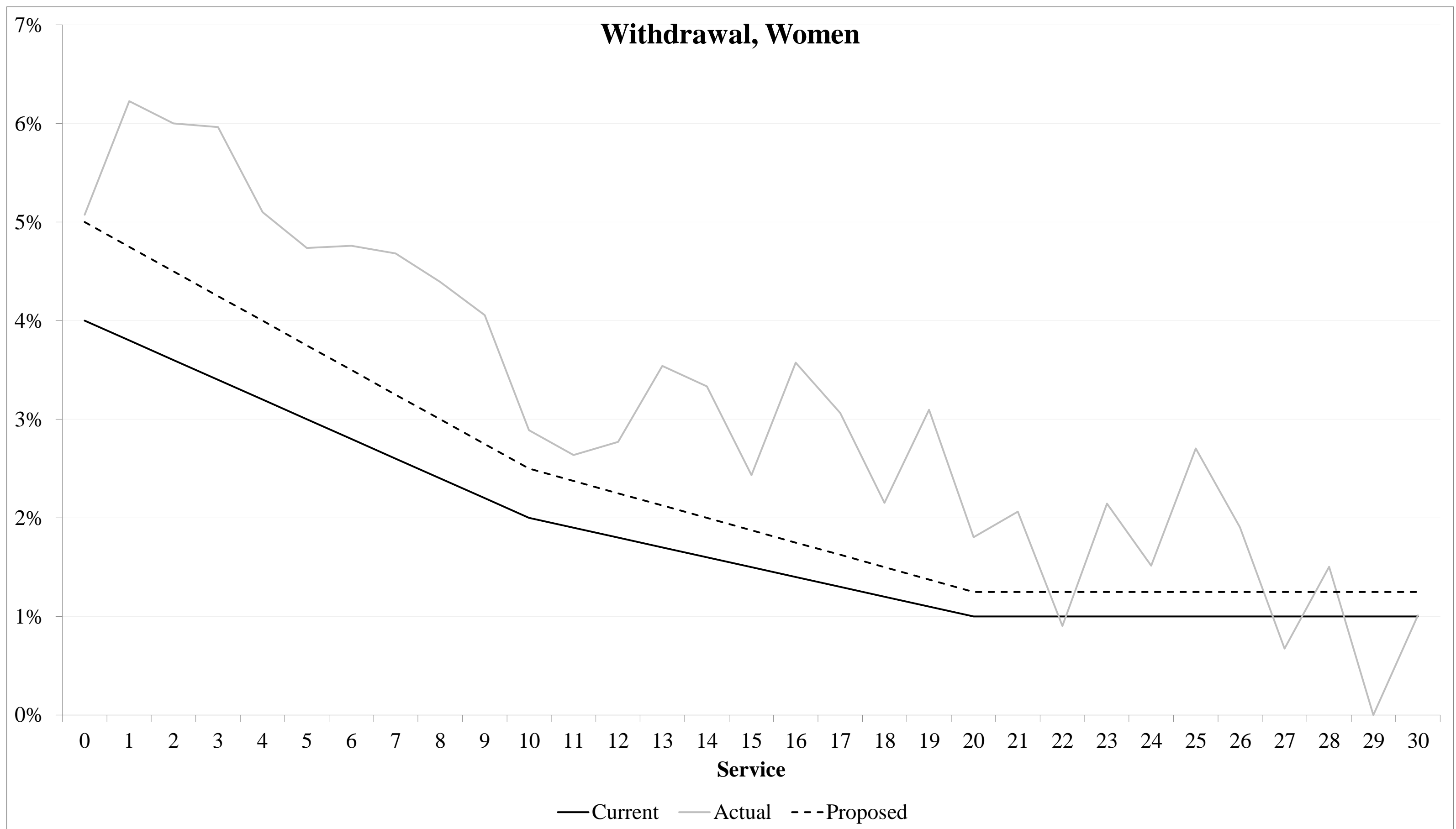
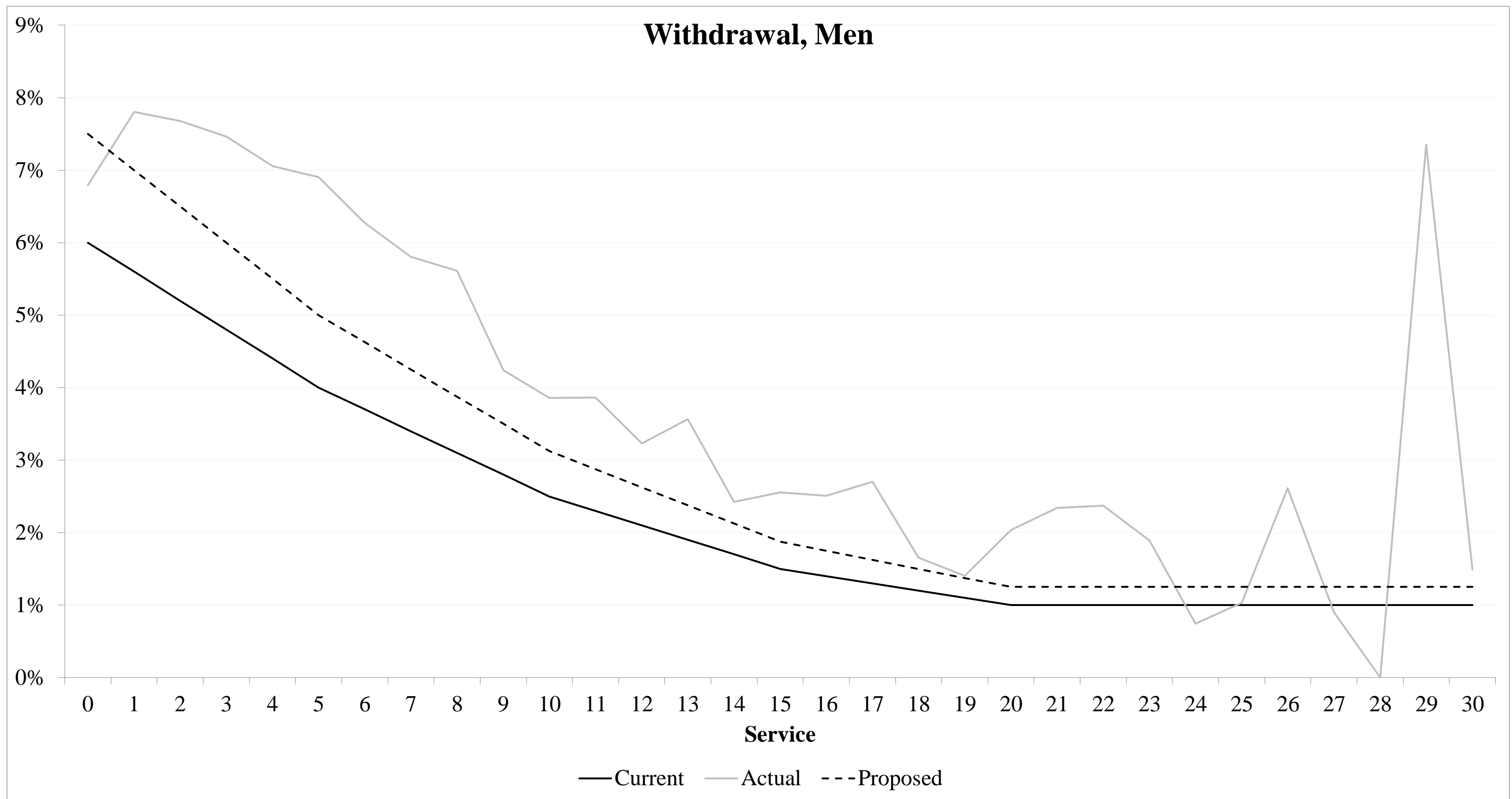
NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Expected	Proposed		
	Active Member Ordinary Mortality						
8A	Men	59%	7	82%	82%	9	Experience has been volatile, but appears to be consistently lower than the current assumption.
8B	Women	41%	13	66%	66%	19	
8C	By Year						
	Active Member Ordinary Disability						
9A	Men	42%	9	58%	68%	11	Ordinary Disability experience appears lower than the current assumption. The proposed assumption is 85% for males and 70% females of the current assumption.
9B	Women	39%	27	49%	69%	32	
9C	By Year						
	Active Member Accidental Disability						
10A	Men	37%	1	96%	96%	2	Volatile experience with insufficient actuals to determine if changing the assumption is appropriate. The current assumption appears reasonable given the data over the experience period.
10B	Women	129%	5	130%	130%	5	
10C	By Year						
	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	
11A	Total	5.21%	1.53%	5.20%	4.37%	3.74%	Merit component is slightly higher than actual experience. Productivity component has been significantly lower than expected and may need adjustment.
11B	Merit Only	2.21%	0.68%	2.20%	1.37%	1.54%	
11C	General Increase over Inflation	0.50%	-0.86%	0.50%	0.50%	-0.23%	

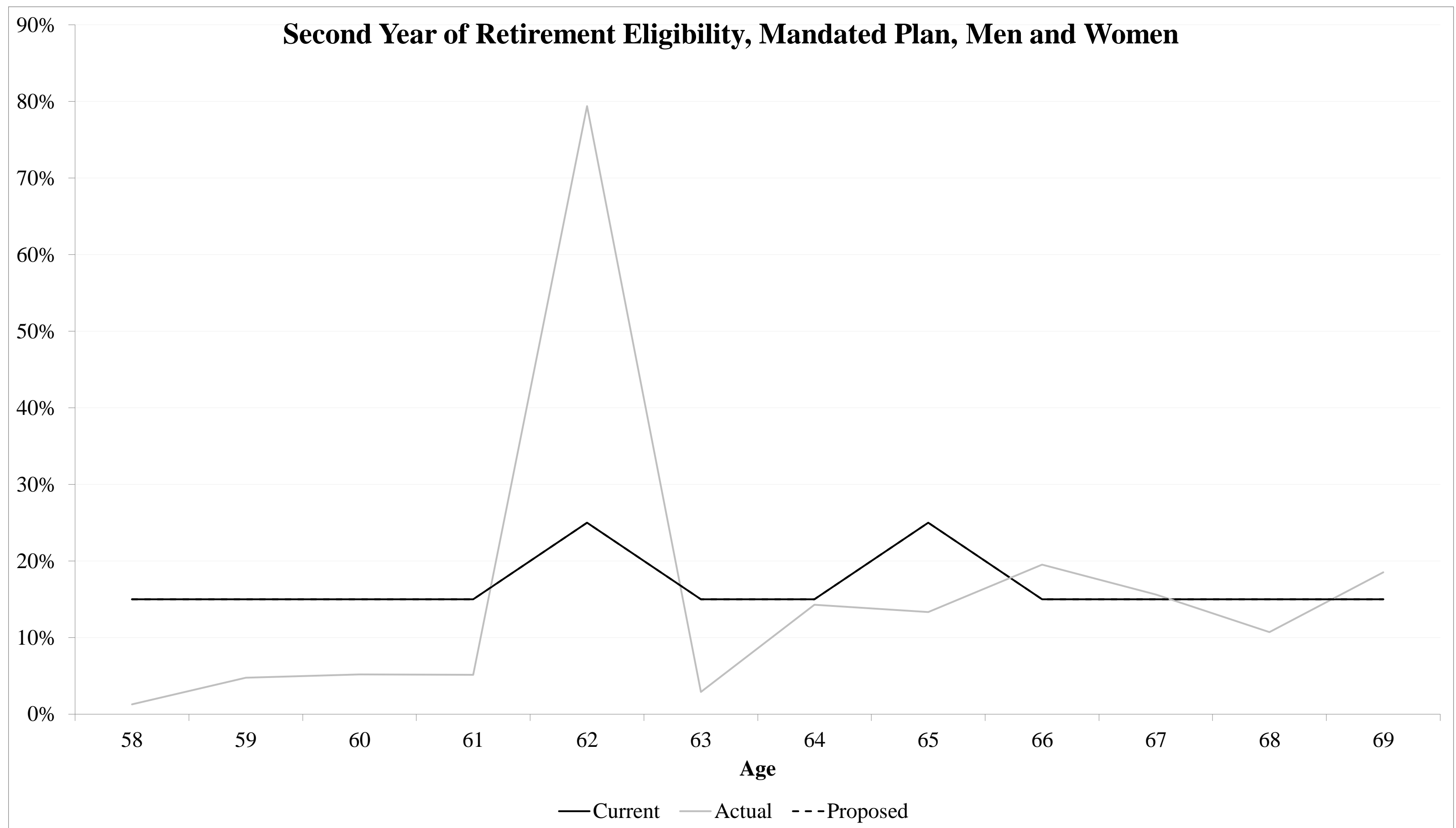
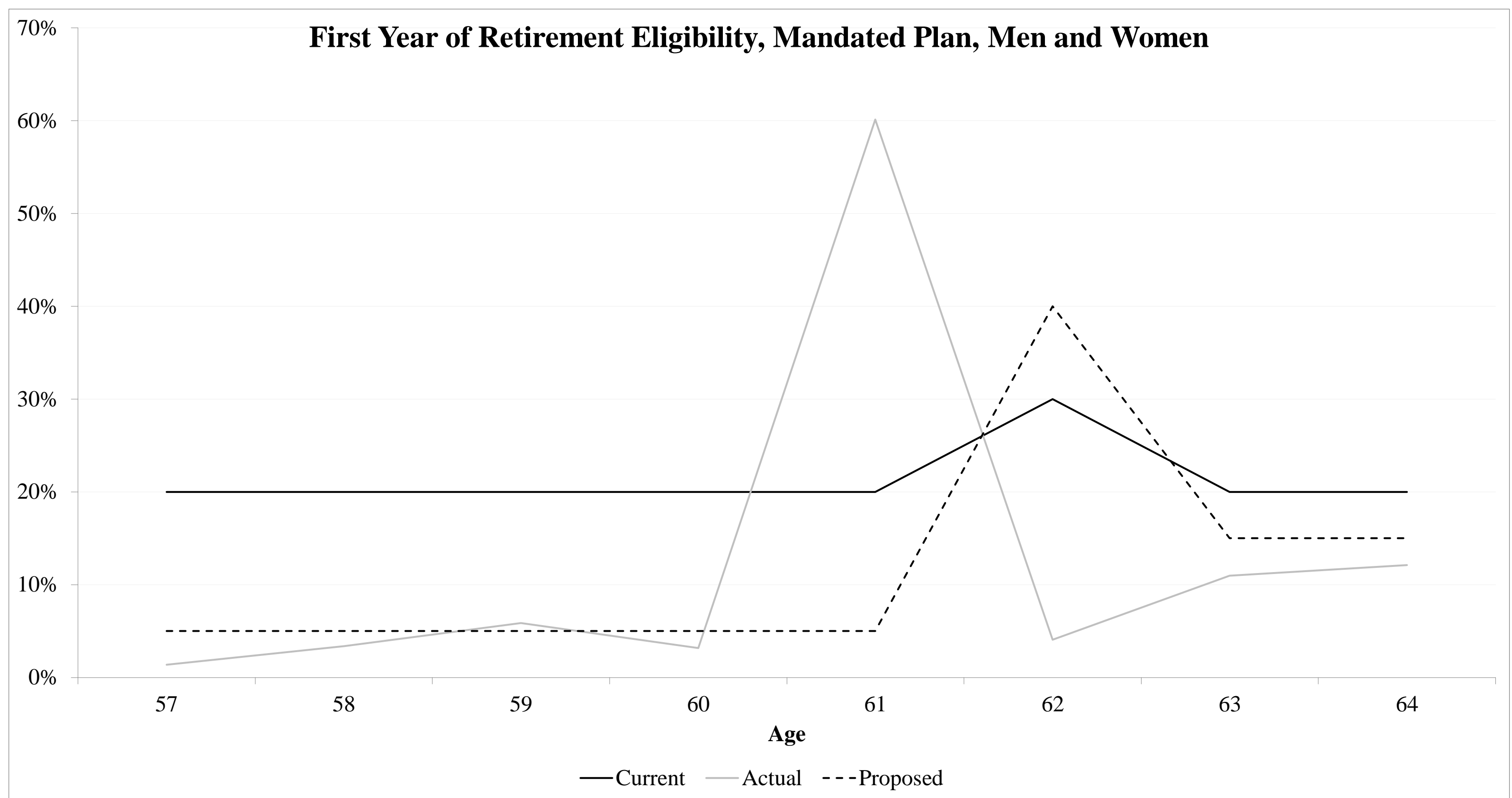
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown.

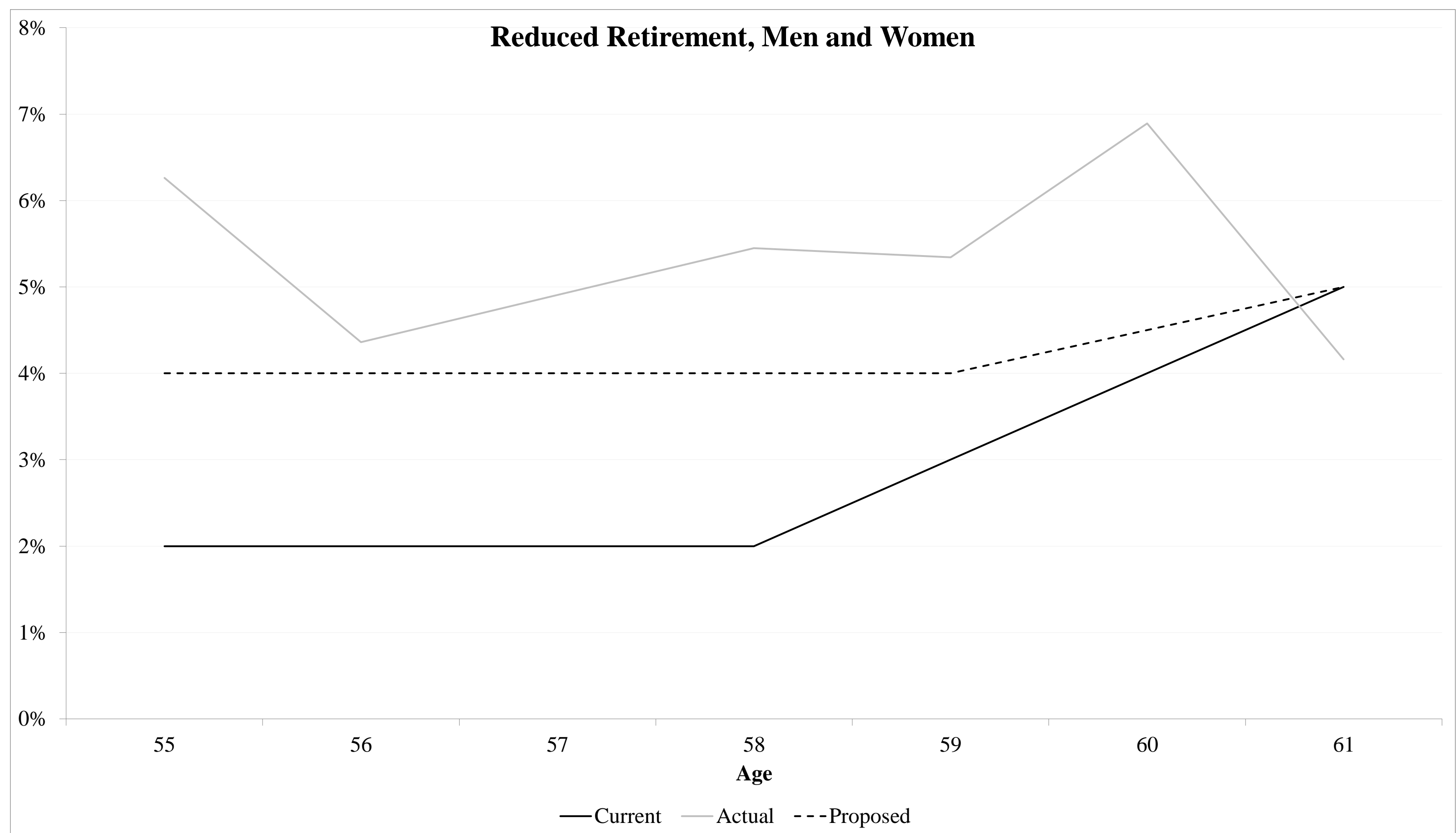
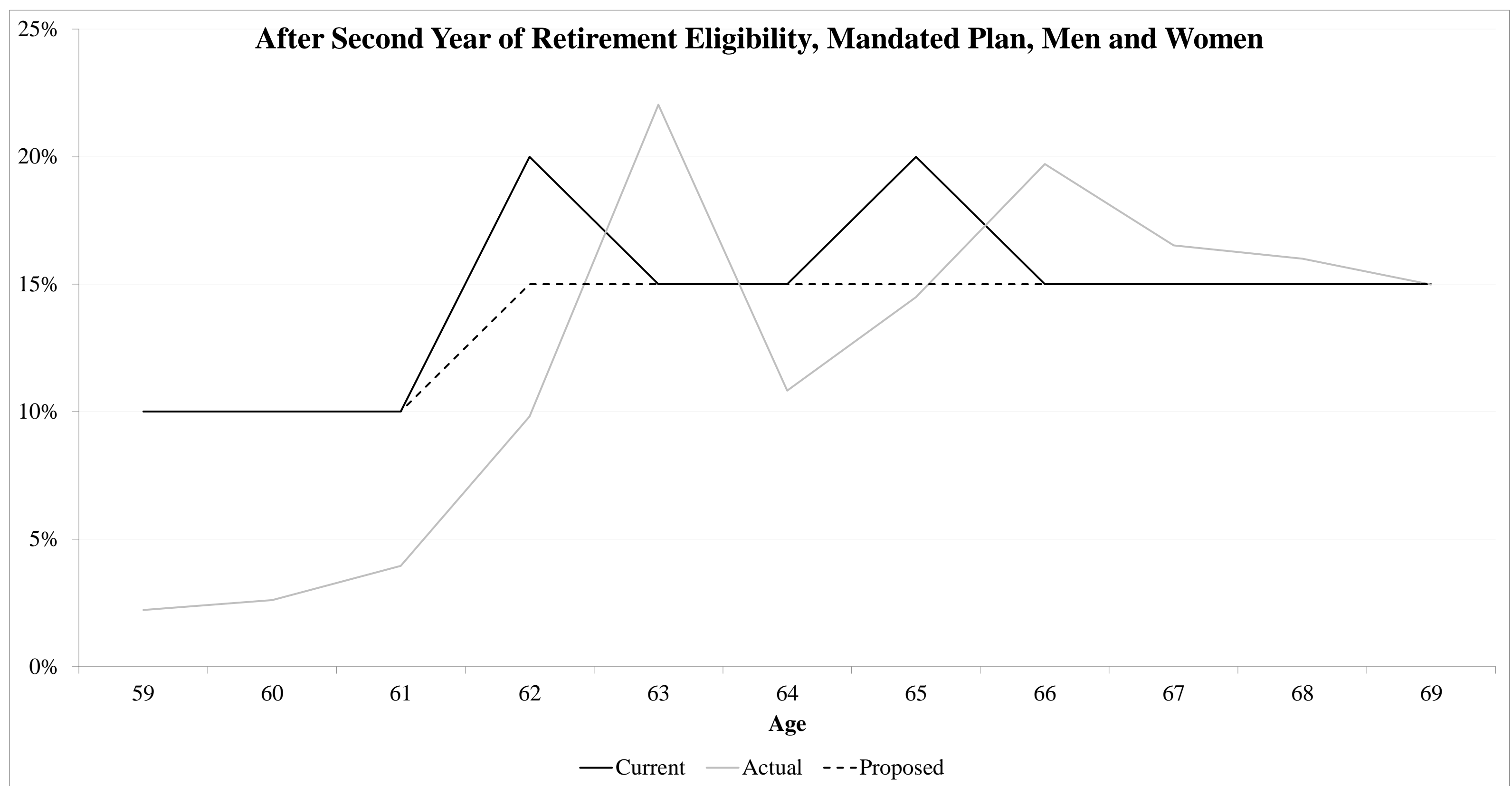
**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
WITHDRAWAL ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

TABLE 1A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.1630%	0.0847%	0	0	0%	0%
42	0	0	N/A	0.2118%	0.0924%	0	0	0%	0%
43	0	0	N/A	0.2598%	0.1007%	0	0	0%	0%
44	0	0	N/A	0.3070%	0.1096%	0	0	0%	0%
45	0	0	N/A	0.3535%	0.1191%	0	0	0%	0%
46	0	0	N/A	0.3991%	0.1291%	0	0	0%	0%
47	0	0	N/A	0.4441%	0.1397%	0	0	0%	0%
48	0	1	0.000000	0.4881%	0.1509%	0.0	0.0	0%	0%
49	0	0	N/A	0.5315%	0.1626%	0	0	0%	0%
50	0	1	0.000000	0.5742%	0.1753%	0.0	0.0	0%	0%
51	0	2	0.000000	0.6206%	0.1892%	0.0	0.0	0%	0%
52	0	6	0.000000	0.6636%	0.2050%	0.0	0.0	0%	0%
53	0	5	0.000000	0.7091%	0.2229%	0.0	0.0	0%	0%
54	0	5	0.000000	0.7521%	0.2434%	0.0	0.0	0%	0%
55	0	8	0.000000	0.7991%	0.2671%	0.1	0.0	0%	0%
56	0	26	0.000000	0.8412%	0.2942%	0.2	0.1	0%	0%
57	0	40	0.000000	0.8815%	0.3252%	0.4	0.1	0%	0%
58	1	80	0.012500	0.9199%	0.3606%	0.7	0.3	136%	347%
59	0	114	0.000000	0.9486%	0.4008%	1.1	0.5	0%	0%
60	3	146	0.020548	0.9750%	0.4462%	1.4	0.7	211%	460%
61	3	169	0.017751	1.0704%	0.4973%	1.8	0.8	166%	357%
62	2	215	0.009302	1.1521%	0.5543%	2.5	1.2	81%	168%
63	5	279	0.017921	1.2380%	0.6177%	3.5	1.7	145%	290%
64	2	304	0.006579	1.3090%	0.6884%	4.0	2.1	50%	96%
65	4	323	0.012384	1.3739%	0.7672%	4.4	2.5	90%	161%
66	4	347	0.011527	1.5210%	0.8551%	5.3	3.0	76%	135%
67	5	393	0.012723	1.6603%	0.9529%	6.5	3.7	77%	134%
68	9	425	0.021176	1.7882%	1.0620%	7.6	4.5	118%	199%
69	4	391	0.010230	1.9328%	1.1836%	7.6	4.6	53%	86%
70	4	384	0.010417	2.0637%	1.3191%	7.9	5.1	50%	79%
71	8	385	0.020779	2.2207%	1.4701%	8.5	5.7	94%	141%
72	5	374	0.013369	2.3779%	1.6384%	8.9	6.1	56%	82%
73	6	381	0.015748	2.5349%	1.8260%	9.7	7.0	62%	86%
74	7	396	0.017677	2.6919%	2.0350%	10.7	8.1	66%	87%
75	11	391	0.028133	2.8722%	2.2680%	11.2	8.9	98%	124%
76	10	356	0.028090	3.2726%	2.5276%	11.7	9.0	86%	111%
77	14	351	0.039886	3.7029%	2.8169%	13.0	9.9	108%	142%
78	7	335	0.020896	4.1400%	3.1394%	13.9	10.5	50%	67%
79	14	326	0.042945	4.5838%	3.4988%	14.9	11.4	94%	123%
80	8	325	0.024615	5.0346%	3.8993%	16.4	12.7	49%	63%
81	15	339	0.044248	5.6554%	4.3457%	19.2	14.7	78%	102%
82	20	320	0.062500	6.2995%	4.8432%	20.2	15.5	99%	129%
83	15	277	0.054152	6.9112%	5.3976%	19.1	15.0	78%	100%
84	21	247	0.085020	7.5976%	6.0155%	18.8	14.9	112%	141%
85	13	212	0.061321	8.2418%	6.7041%	17.5	14.2	74%	91%
86	10	198	0.050505	9.0999%	7.4716%	18.0	14.8	56%	68%
87	15	177	0.084746	10.0385%	8.3269%	17.8	14.7	84%	102%
88	14	153	0.091503	10.9916%	9.2801%	16.8	14.2	83%	99%
89	9	129	0.069767	11.8637%	10.3425%	15.3	13.3	59%	67%
90	7	90	0.077778	12.8387%	11.5264%	11.6	10.4	61%	67%
91	4	64	0.062500	14.6403%	12.8459%	9.4	8.2	43%	49%
92	2	49	0.040816	16.6162%	14.3165%	8.1	7.0	25%	29%
93	7	45	0.155556	18.5137%	15.9554%	8.3	7.2	84%	97%
94	5	34	0.147059	20.4883%	17.7819%	7.0	6.0	72%	83%
95	2	26	0.076923	22.7677%	19.8175%	5.9	5.2	34%	39%
96	4	21	0.190476	24.8975%	22.0861%	5.2	4.6	77%	86%
97	2	11	0.181818	27.0655%	24.6145%	3.0	2.7	67%	74%
98	3	5	0.600000	29.5948%	27.4322%	1.5	1.4	203%	219%
99	1	4	0.250000	31.8308%	30.5726%	1.3	1.2	79%	82%
Subtotal	305	9,685				397.7	305.3	77%	100%
100 or more	0	5	0.000000	37.1685%	42.3198%	1.9	2.1	0%	0%
Total	305	9,690				399.6	307.4	76%	99%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0652%	0.0699%	0	0	0%	0%
42	0	0	N/A	0.0724%	0.0750%	0	0	0%	0%
43	0	0	N/A	0.0813%	0.0801%	0	0	0%	0%
44	0	0	N/A	0.0921%	0.0852%	0	0	0%	0%
45	0	0	N/A	0.1042%	0.0903%	0	0	0%	0%
46	0	0	N/A	0.1182%	0.0953%	0	0	0%	0%
47	0	0	N/A	0.1336%	0.1002%	0	0	0%	0%
48	0	0	N/A	0.1515%	0.1050%	0	0	0%	0%
49	0	1	0.000000	0.1706%	0.1096%	0.0	0.0	0%	0%
50	1	2	0.500000	0.1922%	0.1152%	0.0	0.0	26015%	43403%
51	0	0	N/A	0.2141%	0.1221%	0	0	0%	0%
52	0	0	N/A	0.2390%	0.1306%	0	0	0%	0%
53	0	0	N/A	0.2657%	0.1408%	0	0	0%	0%
54	0	0	N/A	0.2940%	0.1532%	0	0	0%	0%
55	0	13	0.000000	0.3240%	0.1679%	0.0	0.0	0%	0%
56	0	88	0.000000	0.3704%	0.1852%	0.3	0.2	0%	0%
57	0	172	0.000000	0.4164%	0.2054%	0.7	0.4	0%	0%
58	1	286	0.003497	0.4603%	0.2288%	1.3	0.7	76%	153%
59	0	377	0.000000	0.5047%	0.2556%	1.9	1.0	0%	0%
60	4	462	0.008658	0.5489%	0.2861%	2.5	1.3	158%	303%
61	4	564	0.007092	0.6045%	0.3205%	3.4	1.8	117%	221%
62	9	716	0.012570	0.6495%	0.3592%	4.7	2.6	194%	350%
63	6	1,117	0.005372	0.6923%	0.4025%	7.7	4.5	78%	133%
64	12	1,322	0.009077	0.7370%	0.4510%	9.7	6.0	123%	201%
65	9	1,438	0.006259	0.7833%	0.5054%	11.3	7.3	80%	124%
66	6	1,508	0.003979	0.8689%	0.5663%	13.1	8.5	46%	70%
67	11	1,666	0.006603	0.9669%	0.6345%	16.1	10.6	68%	104%
68	19	1,704	0.011150	1.0742%	0.7110%	18.3	12.1	104%	157%
69	12	1,673	0.007173	1.1644%	0.7967%	19.5	13.3	62%	90%
70	12	1,652	0.007264	1.2549%	0.8928%	20.7	14.7	58%	81%
71	16	1,572	0.010178	1.3962%	1.0004%	21.9	15.7	73%	102%
72	29	1,554	0.018662	1.5477%	1.1210%	24.1	17.4	121%	166%
73	16	1,535	0.010423	1.6855%	1.2561%	25.9	19.3	62%	83%
74	16	1,461	0.010951	1.8357%	1.4075%	26.8	20.6	60%	78%
75	17	1,415	0.012014	1.9700%	1.5772%	27.9	22.3	61%	76%
76	28	1,335	0.020974	2.2250%	1.7673%	29.7	23.6	94%	119%
77	23	1,278	0.017997	2.5000%	1.9803%	32.0	25.3	72%	91%
78	33	1,294	0.025502	2.7571%	2.2190%	35.7	28.7	92%	115%
79	30	1,307	0.022953	3.0142%	2.4865%	39.4	32.5	76%	92%
80	28	1,315	0.021293	3.2713%	2.7862%	43.0	36.6	65%	76%
81	32	1,295	0.024710	3.6881%	3.1221%	47.8	40.4	67%	79%
82	45	1,266	0.035545	4.1148%	3.4984%	52.1	44.3	86%	102%
83	31	1,230	0.025203	4.5511%	3.9201%	56.0	48.2	55%	64%
84	49	1,206	0.040630	4.9974%	4.3926%	60.3	53.0	81%	92%
85	42	1,094	0.038391	5.4976%	4.9221%	60.1	53.8	70%	78%
86	37	989	0.037412	6.3201%	5.5154%	62.5	54.5	59%	68%
87	42	894	0.046980	7.1554%	6.1802%	64.0	55.3	66%	76%
88	44	769	0.057217	7.9398%	6.9252%	61.1	53.3	72%	83%
89	41	670	0.061194	8.7945%	7.7599%	58.9	52.0	70%	79%
90	55	582	0.094502	9.5852%	8.6953%	55.8	50.6	99%	109%
91	35	461	0.075922	11.0304%	9.7435%	50.9	44.9	69%	78%
92	21	368	0.057065	12.4890%	10.9179%	46.0	40.2	46%	52%
93	30	284	0.105634	14.1041%	12.2340%	40.1	34.7	75%	86%
94	20	209	0.095694	15.6113%	13.7087%	32.6	28.7	61%	70%
95	17	161	0.105590	17.1565%	15.3611%	27.6	24.7	62%	69%
96	18	110	0.163636	19.0191%	17.2127%	20.9	18.9	86%	95%
97	6	64	0.093750	20.8662%	19.2875%	13.4	12.3	45%	49%
98	6	48	0.125000	22.1931%	21.6125%	10.7	10.4	56%	58%
99	4	20	0.200000	23.1032%	24.2176%	4.6	4.8	87%	83%
Subtotal	917	40,547				1,262.8	1,052.1	73%	87%
100 or more	7	37	0.189189	25.4498%	34.0732%	9.4	12.6	74%	56%
Total	924	40,584				1,272.2	1,064.7	73%	87%



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	1	0.000000	0.4881%	0.1509%	0.0	0.0	0%	0%
50-54	0	19	0.000000	0.6896%	0.2166%	0.1	0.0	0%	0%
55-59	1	268	0.003731	0.9151%	0.3632%	2.5	1.0	41%	103%
60-64	15	1,113	0.013477	1.1809%	0.5840%	13.1	6.5	114%	231%
65-69	26	1,879	0.013837	1.6710%	0.9756%	31.4	18.3	83%	142%
70-74	30	1,920	0.015625	2.3795%	1.6598%	45.7	31.9	66%	94%
75-79	56	1,759	0.031836	3.6777%	2.8241%	64.7	49.7	87%	113%
80-84	79	1,508	0.052387	6.2071%	4.8218%	93.6	72.7	84%	109%
85-89	61	869	0.070196	9.8251%	8.2032%	85.4	71.3	71%	86%
90-94	25	282	0.088652	15.7318%	13.7716%	44.4	38.8	56%	64%
95-99	12	67	0.179104	25.1914%	22.5265%	16.9	15.1	71%	80%
100+	0	5	0.000000	37.1685%	42.3198%	1.9	2.1	0%	0%
Total	305	9,690				399.6	307.4	76%	99%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	1	0.000000	0.1706%	0.1096%	0.0	0.0	0%	0%
50-54	1	2	0.500000	0.1922%	0.1152%	0.0	0.0	26015%	43403%
55-59	1	936	0.001068	0.4598%	0.2303%	4.3	2.2	23%	46%
60-64	35	4,181	0.008371	0.6714%	0.3865%	28.1	16.2	125%	217%
65-69	57	7,989	0.007135	0.9796%	0.6487%	78.3	51.8	73%	110%
70-74	89	7,774	0.011448	1.5362%	1.1286%	119.4	87.7	75%	101%
75-79	131	6,629	0.019762	2.4831%	1.9977%	164.6	132.4	80%	99%
80-84	185	6,312	0.029309	4.1052%	3.5258%	259.1	222.6	71%	83%
85-89	206	4,416	0.046649	6.9429%	6.0890%	306.6	268.9	67%	77%
90-94	161	1,904	0.084559	11.8319%	10.4568%	225.3	199.1	71%	81%
95-99	51	403	0.126551	19.1490%	17.6742%	77.2	71.2	66%	72%
100+	7	37	0.189189	25.4498%	34.0732%	9.4	12.6	74%	56%
Total	924	40,584				1,272.2	1,064.7	73%	87%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.1675%	0.0919%	0	0	0%	0%
42	0	0	N/A	0.2183%	0.1007%	0	0	0%	0%
43	0	0	N/A	0.2686%	0.1099%	0	0	0%	0%
44	0	0	N/A	0.3183%	0.1195%	0	0	0%	0%
45	0	0	N/A	0.3676%	0.1295%	0	0	0%	0%
46	0	0	N/A	0.4164%	0.1399%	0	0	0%	0%
47	0	1	0.000000	0.4647%	0.1506%	0.0	0.0	0%	0%
48	0	2	0.000000	0.5123%	0.1616%	0.0	0.0	0%	0%
49	0	1	0.000000	0.5596%	0.1730%	0.0	0.0	0%	0%
50	0	2	0.000000	0.6063%	0.1851%	0.0	0.0	0%	0%
51	0	4	0.000000	0.6573%	0.1981%	0.0	0.0	0%	0%
52	0	9	0.000000	0.7050%	0.2127%	0.1	0.0	0%	0%
53	0	15	0.000000	0.7534%	0.2292%	0.1	0.0	0%	0%
54	0	19	0.000000	0.7991%	0.2483%	0.2	0.0	0%	0%
55	0	46	0.000000	0.8464%	0.2708%	0.4	0.1	0%	0%
56	1	125	0.008000	0.8883%	0.2973%	1.1	0.4	90%	269%
57	0	180	0.000000	0.9281%	0.3284%	1.7	0.6	0%	0%
58	4	265	0.015094	0.9655%	0.3650%	2.6	1.0	156%	414%
59	2	316	0.006329	0.9957%	0.4076%	3.1	1.3	64%	155%
60	5	375	0.013333	1.0234%	0.4569%	3.8	1.7	130%	292%
61	9	426	0.021127	1.1201%	0.5132%	4.8	2.2	189%	412%
62	7	537	0.013035	1.2056%	0.5766%	6.5	3.1	108%	226%
63	8	686	0.011662	1.2915%	0.6475%	8.9	4.4	90%	180%
64	6	761	0.007884	1.3656%	0.7265%	10.4	5.5	58%	109%
65	14	810	0.017284	1.4332%	0.8143%	11.6	6.6	121%	212%
66	12	863	0.013905	1.5819%	0.9117%	13.7	7.9	88%	153%
67	12	926	0.012959	1.7268%	1.0202%	16.0	9.4	75%	127%
68	19	984	0.019309	1.8654%	1.1405%	18.4	11.2	104%	169%
69	15	961	0.015609	2.0163%	1.2745%	19.4	12.2	77%	122%
70	12	949	0.012645	2.1595%	1.4236%	20.5	13.5	59%	89%
71	25	960	0.026042	2.3237%	1.5897%	22.3	15.3	112%	164%
72	19	956	0.019874	2.4882%	1.7746%	23.8	17.0	80%	112%
73	16	961	0.016649	2.6524%	1.9804%	25.5	19.0	63%	84%
74	25	958	0.026096	2.8167%	2.2092%	27.0	21.2	93%	118%
75	26	957	0.027168	2.9963%	2.4631%	28.7	23.6	91%	110%
76	28	924	0.030303	3.4139%	2.7456%	31.5	25.4	89%	110%
77	32	891	0.035915	3.8512%	3.0589%	34.3	27.3	93%	117%
78	17	833	0.020408	4.2927%	3.4063%	35.8	28.4	48%	60%
79	32	805	0.039752	4.7385%	3.7924%	38.1	30.5	84%	105%
80	24	778	0.030848	5.1887%	4.2217%	40.4	32.8	59%	73%
81	34	751	0.045273	5.8109%	4.6987%	43.6	35.3	78%	96%
82	40	691	0.057887	6.4531%	5.2291%	44.6	36.1	90%	111%
83	41	636	0.064465	7.0797%	5.8194%	45.0	37.0	91%	111%
84	36	550	0.065455	7.7594%	6.4762%	42.7	35.6	84%	101%
85	38	480	0.079167	8.4173%	7.2073%	40.4	34.6	94%	110%
86	26	408	0.063725	9.2937%	8.0200%	37.9	32.7	69%	79%
87	31	359	0.086351	10.2214%	8.9234%	36.7	32.0	84%	97%
88	32	308	0.103896	11.1581%	9.9257%	34.4	30.6	93%	105%
89	27	235	0.114894	12.0435%	11.0371%	28.3	25.9	95%	104%
90	14	183	0.076503	12.9940%	12.2692%	23.8	22.5	59%	62%
91	16	153	0.104575	14.8174%	13.6347%	22.7	20.9	71%	77%
92	15	121	0.123967	16.7666%	15.1445%	20.3	18.3	74%	82%
93	16	92	0.173913	18.6813%	16.8096%	17.2	15.5	93%	103%
94	11	67	0.164179	20.6738%	18.6635%	13.9	12.5	79%	88%
95	7	54	0.129630	22.9049%	20.7325%	12.4	11.2	57%	63%
96	6	40	0.150000	25.0475%	23.0497%	10.0	9.2	60%	65%
97	3	24	0.125000	27.2286%	25.6259%	6.5	6.2	46%	49%
98	6	14	0.428571	29.6838%	28.4901%	4.2	4.0	144%	150%
99	3	7	0.428571	31.9265%	31.6777%	2.2	2.2	134%	135%
Subtotal	772	23,459				937.2	744.0	82%	104%
100 or more	1	6	0.166667	37.1685%	43.7433%	2.2	2.6	45%	38%
Total	773	23,465				939.4	746.6	82%	104%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	0.0683%	0.0751%	0	0	0%	0%
42	0	0	N/A	0.0758%	0.0803%	0	0	0%	0%
43	0	0	N/A	0.0851%	0.0853%	0	0	0%	0%
44	0	1	0.000000	0.0964%	0.0901%	0.0	0.0	0%	0%
45	0	0	N/A	0.1094%	0.0947%	0	0	0%	0%
46	0	0	N/A	0.1245%	0.0991%	0	0	0%	0%
47	0	0	N/A	0.1411%	0.1032%	0	0	0%	0%
48	0	0	N/A	0.1599%	0.1071%	0	0	0%	0%
49	0	1	0.000000	0.1801%	0.1110%	0.0	0.0	0%	0%
50	1	2	0.500000	0.2023%	0.1160%	0.0	0.0	24716%	43100%
51	1	1	1.000000	0.2247%	0.1226%	0.0	0.0	44504%	81589%
52	0	7	0.000000	0.2494%	0.1311%	0.0	0.0	0%	0%
53	0	16	0.000000	0.2755%	0.1417%	0.0	0.0	0%	0%
54	0	32	0.000000	0.3030%	0.1549%	0.1	0.0	0%	0%
55	1	116	0.008621	0.3319%	0.1710%	0.4	0.2	260%	504%
56	0	327	0.000000	0.3771%	0.1902%	1.2	0.6	0%	0%
57	1	544	0.001838	0.4227%	0.2128%	2.3	1.2	43%	86%
58	4	776	0.005155	0.4673%	0.2392%	3.6	1.9	110%	215%
59	2	949	0.002107	0.5124%	0.2695%	4.9	2.6	41%	78%
60	13	1,130	0.011504	0.5572%	0.3038%	6.3	3.4	206%	379%
61	8	1,320	0.006061	0.6137%	0.3425%	8.1	4.5	99%	177%
62	14	1,720	0.008140	0.6593%	0.3855%	11.3	6.6	123%	211%
63	15	2,552	0.005878	0.7028%	0.4334%	17.9	11.1	84%	136%
64	21	2,960	0.007095	0.7482%	0.4865%	22.1	14.4	95%	146%
65	30	3,174	0.009452	0.7952%	0.5456%	25.2	17.3	119%	173%
66	18	3,457	0.005207	0.8821%	0.6115%	30.5	21.1	59%	85%
67	30	3,684	0.008143	0.9815%	0.6850%	36.2	25.2	83%	119%
68	44	3,725	0.011812	1.0904%	0.7670%	40.6	28.6	108%	154%
69	36	3,698	0.009735	1.1820%	0.8587%	43.7	31.8	82%	113%
70	31	3,664	0.008461	1.2739%	0.9612%	46.7	35.2	66%	88%
71	51	3,640	0.014011	1.4216%	1.0760%	51.7	39.2	99%	130%
72	73	3,606	0.020244	1.5759%	1.2044%	56.8	43.4	128%	168%
73	49	3,590	0.013649	1.7214%	1.3482%	61.8	48.4	79%	101%
74	57	3,543	0.016088	1.8748%	1.5088%	66.4	53.5	86%	107%
75	63	3,533	0.017832	2.0181%	1.6889%	71.3	59.7	88%	106%
76	74	3,484	0.021240	2.2793%	1.8910%	79.4	65.9	93%	112%
77	85	3,425	0.024818	2.5532%	2.1178%	87.4	72.5	97%	117%
78	83	3,425	0.024234	2.8158%	2.3724%	96.4	81.3	86%	102%
79	83	3,367	0.024651	3.0784%	2.6592%	103.6	89.5	80%	93%
80	97	3,307	0.029332	3.3410%	2.9809%	110.5	98.6	88%	98%
81	92	3,181	0.028922	3.7666%	3.3430%	119.8	106.3	77%	87%
82	103	3,033	0.033960	4.2025%	3.7490%	127.5	113.7	81%	91%
83	108	2,837	0.038068	4.6480%	4.2057%	131.9	119.3	82%	91%
84	126	2,607	0.048331	5.1039%	4.7170%	133.1	123.0	95%	102%
85	118	2,339	0.050449	5.5978%	5.2899%	130.9	123.7	90%	95%
86	85	2,059	0.041282	6.4159%	5.9299%	132.1	122.1	64%	70%
87	97	1,812	0.053532	7.2419%	6.6427%	131.2	120.4	74%	81%
88	106	1,536	0.069010	8.0358%	7.4373%	123.4	114.2	86%	93%
89	95	1,307	0.072686	8.8741%	8.3244%	116.0	108.8	82%	87%
90	93	1,075	0.086512	9.6720%	9.3126%	104.0	100.1	89%	93%
91	77	835	0.092216	11.1303%	10.4127%	92.9	86.9	83%	89%
92	44	643	0.068429	12.6021%	11.6357%	81.0	74.8	54%	59%
93	58	495	0.117172	14.1891%	12.9957%	70.2	64.3	83%	90%
94	36	352	0.102273	15.7053%	14.5118%	55.3	51.1	65%	70%
95	34	246	0.138211	17.2598%	16.2049%	42.5	39.9	80%	85%
96	22	164	0.134146	19.1337%	18.1084%	31.4	29.7	70%	74%
97	19	114	0.166667	20.9290%	20.2314%	23.9	23.1	80%	82%
98	12	77	0.155844	22.2598%	22.6081%	17.1	17.4	70%	69%
99	11	41	0.268293	23.1727%	25.2614%	9.5	10.4	116%	106%
Subtotal	2,321	93,529				2,760.5	2,406.9	84%	96%
100 or more	13	59	0.220339	25.4498%	35.4410%	15.0	20.9	87%	62%
Total	2,334	93,588				2,775.5	2,427.8	84%	96%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	0	N/A			0	0	0%	0%
45-49	0	4	0.000000	0.5122%	0.1617%	0.0	0.0	0%	0%
50-54	0	49	0.000000	0.7484%	0.2292%	0.4	0.1	0%	0%
55-59	7	932	0.007511	0.9523%	0.3586%	8.9	3.3	79%	209%
60-64	35	2,785	0.012567	1.2329%	0.6092%	34.3	17.0	102%	206%
65-69	72	4,544	0.015845	1.7382%	1.0427%	79.0	47.4	91%	152%
70-74	97	4,784	0.020276	2.4888%	1.7962%	119.1	85.9	81%	113%
75-79	135	4,410	0.030612	3.8194%	3.0635%	168.4	135.1	80%	100%
80-84	175	3,406	0.051380	6.3506%	5.1937%	216.3	176.9	81%	99%
85-89	154	1,790	0.086034	9.9266%	8.7072%	177.7	155.9	87%	99%
90-94	72	616	0.116883	15.8726%	14.5467%	97.8	89.6	74%	80%
95-99	25	139	0.179856	25.4051%	23.5768%	35.3	32.8	71%	76%
100+	1	6	0.166667	37.1685%	43.7433%	2.2	2.6	45%	38%
<b>Total</b>	<b>773</b>	<b>23,465</b>				<b>939.4</b>	<b>746.6</b>	<b>82%</b>	<b>104%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
WOMEN**

**TABLE 1B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Rate</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	1	0.000000	0.0964%	0.0901%	0.0	0.0	0%	0%
45-49	0	1	0.000000	0.1801%	0.1110%	0.0	0.0	0%	0%
50-54	2	58	0.034483	0.2841%	0.1465%	0.2	0.1	1214%	2354%
55-59	8	2,712	0.002950	0.4575%	0.2357%	12.4	6.4	64%	125%
60-64	71	9,682	0.007333	0.6798%	0.4136%	65.8	40.0	108%	177%
65-69	158	17,738	0.008907	0.9935%	0.6992%	176.2	124.0	90%	127%
70-74	261	18,043	0.014465	1.5711%	1.2175%	283.5	219.7	92%	119%
75-79	388	17,234	0.022514	2.5429%	2.1404%	438.2	368.9	89%	105%
80-84	526	14,965	0.035149	4.1610%	3.7482%	622.7	560.9	84%	94%
85-89	501	9,053	0.055341	6.9996%	6.5087%	633.7	589.2	79%	85%
90-94	308	3,400	0.090588	11.8665%	11.0966%	403.5	377.3	76%	82%
95-99	98	642	0.152648	19.3673%	18.7525%	124.3	120.4	79%	81%
100+	13	59	0.220339	25.4498%	35.4410%	15.0	20.9	87%	62%
<b>Total</b>	<b>2,334</b>	<b>93,588</b>				<b>2,775.5</b>	<b>2,427.8</b>	<b>84%</b>	<b>96%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1C		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	10,303	350	261.0	134%	3.3971%	2.5330%
2005	10,684	361	278.0	130%	3.3789%	2.6023%
2006	11,037	266	294.7	90%	2.4101%	2.6705%
2007	11,243	324	310.1	104%	2.8818%	2.7580%
2008	11,628	275	323.9	85%	2.3650%	2.7858%
2009	11,885	302	342.7	88%	2.5410%	2.8835%
2010	12,073	278	358.8	77%	2.3027%	2.9717%
2011	12,343	354	376.1	94%	2.8680%	3.0468%
2012	12,749	348	398.2	87%	2.7296%	3.1236%
2013	13,109	249	413.7	60%	1.8995%	3.1557%
Total	117,054	3,107	3,357.2	93%	2.6543%	2.8681%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

TABLE 2A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	1.5541%	1.6674%	0	0	0%	0%
42	0	0	N/A	1.5842%	1.7475%	0	0	0%	0%
43	0	2	0.000000	1.6151%	1.8275%	0.0	0.0	0%	0%
44	0	4	0.000000	1.6468%	1.9075%	0.1	0.1	0%	0%
45	0	4	0.000000	1.6793%	1.9875%	0.1	0.1	0%	0%
46	0	6	0.000000	1.7126%	2.0675%	0.1	0.1	0%	0%
47	0	9	0.000000	1.7468%	2.1476%	0.2	0.2	0%	0%
48	0	12	0.000000	1.7819%	2.1884%	0.2	0.3	0%	0%
49	1	16	0.062500	1.8178%	2.2292%	0.3	0.4	344%	280%
50	0	23	0.000000	1.8547%	2.2700%	0.4	0.5	0%	0%
51	0	19	0.000000	1.8925%	2.3108%	0.4	0.4	0%	0%
52	1	25	0.040000	1.9313%	2.3516%	0.5	0.6	207%	170%
53	1	27	0.037037	1.9451%	2.3536%	0.5	0.6	190%	157%
54	0	34	0.000000	1.9591%	2.3556%	0.7	0.8	0%	0%
55	0	31	0.000000	1.9474%	2.3576%	0.6	0.7	0%	0%
56	3	30	0.100000	2.0028%	2.3595%	0.6	0.7	499%	424%
57	0	29	0.000000	2.0860%	2.3615%	0.6	0.7	0%	0%
58	0	30	0.000000	2.1722%	2.3615%	0.7	0.7	0%	0%
59	1	39	0.025641	2.2433%	2.3615%	0.9	0.9	114%	109%
60	0	41	0.000000	2.3164%	2.3615%	0.9	1.0	0%	0%
61	0	47	0.000000	2.4116%	2.3615%	1.1	1.1	0%	0%
62	1	41	0.024390	2.4907%	2.2875%	1.0	0.9	98%	107%
63	2	34	0.058824	2.5941%	2.2998%	0.9	0.8	227%	256%
64	3	37	0.081081	2.6815%	2.3120%	1.0	0.9	302%	351%
65	1	32	0.031250	2.7743%	2.3242%	0.9	0.7	113%	134%
66	0	35	0.000000	2.8973%	2.3365%	1.0	0.8	0%	0%
67	1	32	0.031250	3.0060%	2.3487%	1.0	0.8	104%	133%
68	1	30	0.033333	3.0986%	2.4534%	0.9	0.7	108%	136%
69	1	24	0.041667	3.2255%	2.5582%	0.8	0.6	129%	163%
70	2	26	0.076923	3.3363%	2.6630%	0.9	0.7	231%	289%
71	0	22	0.000000	3.4857%	2.7677%	0.8	0.6	0%	0%
72	0	21	0.000000	3.6488%	2.8725%	0.8	0.6	0%	0%
73	0	19	0.000000	3.8263%	3.1570%	0.7	0.6	0%	0%
74	1	21	0.047619	4.0190%	3.4415%	0.8	0.7	118%	138%
75	0	21	0.000000	4.2616%	3.7260%	0.9	0.8	0%	0%
76	1	16	0.062500	4.5082%	4.0105%	0.7	0.6	139%	156%
77	3	13	0.230769	4.8123%	4.2950%	0.6	0.6	480%	537%
78	1	8	0.125000	5.1404%	4.8682%	0.4	0.4	243%	257%
79	0	8	0.000000	5.4936%	5.4414%	0.4	0.4	0%	0%
80	2	9	0.222222	5.8730%	6.0146%	0.5	0.5	378%	369%
81	1	10	0.100000	6.2793%	6.5878%	0.6	0.7	159%	152%
82	1	10	0.100000	6.7133%	7.1610%	0.7	0.7	149%	140%
83	0	12	0.000000	7.1208%	8.1535%	0.9	1.0	0%	0%
84	2	14	0.142857	7.6162%	9.1460%	1.1	1.3	188%	156%
85	0	10	0.000000	8.2604%	10.1385%	0.8	1.0	0%	0%
86	0	6	0.000000	9.1187%	11.1311%	0.5	0.7	0%	0%
87	0	4	0.000000	10.0573%	12.1236%	0.4	0.5	0%	0%
88	1	3	0.333333	11.0104%	13.6878%	0.3	0.4	303%	244%
89	0	3	0.000000	11.8827%	15.2521%	0.4	0.5	0%	0%
90	0	3	0.000000	12.8577%	16.8163%	0.4	0.5	0%	0%
91	1	2	0.500000	14.6595%	18.3805%	0.3	0.4	341%	272%
92	1	4	0.250000	16.6353%	19.9447%	0.7	0.8	150%	125%
93	0	2	0.000000	18.5330%	22.2548%	0.4	0.4	0%	0%
94	0	1	0.000000	20.5079%	24.5648%	0.2	0.2	0%	0%
95	0	1	0.000000	22.7872%	26.8748%	0.2	0.3	0%	0%
96	0	0	N/A	24.9172%	29.1848%	0	0	0%	0%
97	0	0	N/A	27.0854%	31.4948%	0	0	0%	0%
98	0	0	N/A	29.6147%	34.7464%	0	0	0%	0%
99	0	0	N/A	31.8509%	37.9980%	0	0	0%	0%
Subtotal	34	962				31.7	32.1	107%	106%
100 or more	0	0	N/A	37.1685%	47.7528%	0	0	0%	0%
Total	34	962				31.7	32.1	107%	106%



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

TABLE 2B

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	0	N/A	1.6533%	1.0154%	0	0	0%	0%
42	0	0	N/A	1.6635%	1.1108%	0	0	0%	0%
43	0	1	0.000000	1.6740%	1.2063%	0.0	0.0	0%	0%
44	0	6	0.000000	1.6847%	1.3017%	0.1	0.1	0%	0%
45	0	9	0.000000	1.7182%	1.3972%	0.2	0.1	0%	0%
46	0	12	0.000000	1.7526%	1.4926%	0.2	0.2	0%	0%
47	0	14	0.000000	1.7878%	1.5881%	0.3	0.2	0%	0%
48	0	11	0.000000	1.8000%	1.6835%	0.2	0.2	0%	0%
49	0	14	0.000000	1.8124%	1.7790%	0.3	0.2	0%	0%
50	2	20	0.100000	1.8011%	1.8744%	0.4	0.4	555%	533%
51	0	25	0.000000	1.7900%	1.9699%	0.4	0.5	0%	0%
52	2	39	0.051282	1.7559%	2.0653%	0.7	0.8	292%	248%
53	0	42	0.000000	1.7226%	2.0653%	0.7	0.9	0%	0%
54	0	49	0.000000	1.6902%	2.0653%	0.8	1.0	0%	0%
55	1	62	0.016129	1.6587%	2.0653%	1.0	1.3	97%	78%
56	2	62	0.032258	1.6279%	2.0653%	1.0	1.3	198%	156%
57	2	67	0.029851	1.6189%	1.9546%	1.1	1.3	184%	153%
58	1	74	0.013514	1.6313%	1.9546%	1.2	1.4	83%	69%
59	1	83	0.012048	1.6881%	1.9546%	1.4	1.6	71%	62%
60	1	94	0.010638	1.7816%	1.9546%	1.7	1.8	60%	54%
61	2	110	0.018182	1.8799%	1.9546%	2.1	2.2	97%	93%
62	0	128	0.000000	1.9415%	1.7252%	2.5	2.2	0%	0%
63	2	137	0.014599	2.0047%	1.7330%	2.7	2.4	73%	84%
64	4	150	0.026667	2.1148%	1.7409%	3.2	2.6	126%	153%
65	4	137	0.029197	2.1842%	1.7487%	3.0	2.4	134%	167%
66	5	141	0.035461	2.3051%	1.7565%	3.3	2.5	154%	202%
67	5	123	0.040650	2.3827%	1.7644%	2.9	2.2	171%	230%
68	2	102	0.019608	2.4652%	1.8868%	2.5	1.9	80%	104%
69	2	108	0.018519	2.6087%	2.0093%	2.8	2.2	71%	92%
70	2	92	0.021739	2.7065%	2.1318%	2.5	2.0	80%	102%
71	2	93	0.021505	2.7896%	2.2542%	2.6	2.1	77%	95%
72	0	86	0.000000	2.9038%	2.3767%	2.5	2.0	0%	0%
73	4	63	0.063492	3.0033%	2.6582%	1.9	1.7	211%	239%
74	2	48	0.041667	3.1377%	2.9398%	1.5	1.4	133%	142%
75	0	32	0.000000	3.3279%	3.2213%	1.1	1.0	0%	0%
76	1	25	0.040000	3.4898%	3.5029%	0.9	0.9	115%	114%
77	0	21	0.000000	3.6178%	3.7844%	0.8	0.8	0%	0%
78	0	24	0.000000	3.8871%	4.2531%	0.9	1.0	0%	0%
79	1	23	0.043478	4.1121%	4.7217%	0.9	1.1	106%	92%
80	1	20	0.050000	4.4477%	5.1903%	0.9	1.0	112%	96%
81	1	15	0.066667	4.8139%	5.6589%	0.7	0.8	138%	118%
82	0	11	0.000000	5.2127%	6.1275%	0.6	0.7	0%	0%
83	0	6	0.000000	5.6465%	6.7947%	0.3	0.4	0%	0%
84	0	8	0.000000	6.4876%	7.4619%	0.5	0.6	0%	0%
85	1	7	0.142857	7.3448%	8.1291%	0.5	0.6	195%	176%
86	0	5	0.000000	8.0442%	8.7962%	0.4	0.4	0%	0%
87	1	7	0.142857	8.9100%	9.4634%	0.6	0.7	160%	151%
88	0	4	0.000000	9.7110%	10.3242%	0.4	0.4	0%	0%
89	1	6	0.166667	11.0304%	11.1849%	0.7	0.7	151%	149%
90	2	4	0.500000	12.4890%	12.0457%	0.5	0.5	400%	415%
91	0	0	N/A	14.2892%	12.9065%	0	0	0%	0%
92	0	0	N/A	15.8160%	13.7672%	0	0	0%	0%
93	1	1	1.000000	17.1565%	14.8001%	0.2	0.1	583%	676%
94	0	0	N/A	19.0191%	15.8330%	0	0	0%	0%
95	0	0	N/A	21.1397%	16.8659%	0	0	0%	0%
96	0	0	N/A	22.4839%	17.8988%	0	0	0%	0%
97	0	0	N/A	23.1032%	18.9317%	0	0	0%	0%
98	0	0	N/A	23.4633%	20.0987%	0	0	0%	0%
99	0	0	N/A	24.8039%	21.2658%	0	0	0%	0%
Subtotal	58	2,421				58.5	54.8	99%	106%
100 or more	0	0	N/A	25.4498%	24.7670%	0	0	0%	0%
Total	58	2,421				58.5	54.8	99%	106%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	6	0.000000	1.6362%	1.8808%	0.1	0.1	0%	0%
45-49	1	47	0.021277	1.7698%	2.1619%	0.8	1.0	120%	98%
50-54	2	128	0.015625	1.9221%	2.3324%	2.5	3.0	81%	67%
55-59	4	159	0.025157	2.0981%	2.3604%	3.3	3.8	120%	107%
60-64	6	200	0.030000	2.4893%	2.3267%	5.0	4.7	121%	129%
65-69	4	153	0.026144	2.9853%	2.3942%	4.6	3.7	88%	109%
70-74	3	109	0.027523	3.6436%	2.9606%	4.0	3.2	76%	93%
75-79	5	66	0.075758	4.6857%	4.2534%	3.1	2.8	162%	178%
80-84	6	55	0.109091	6.8156%	7.5910%	3.7	4.2	160%	144%
85-89	1	26	0.038462	9.4702%	11.6725%	2.5	3.0	41%	33%
90-94	2	12	0.166667	16.0006%	19.6719%	1.9	2.4	104%	85%
95-99	0	1	0.000000	22.7872%	26.8748%	0.2	0.3	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	34	962				31.7	32.1	107%	106%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	0	7	0.000000	1.6832%	1.2881%	0.1	0.1	0%	0%
45-49	0	60	0.000000	1.7783%	1.6024%	1.1	1.0	0%	0%
50-54	4	175	0.022857	1.7395%	2.0299%	3.0	3.6	131%	113%
55-59	7	348	0.020115	1.6467%	1.9940%	5.7	6.9	122%	101%
60-64	9	619	0.014540	1.9623%	1.8063%	12.1	11.2	74%	80%
65-69	18	611	0.029460	2.3740%	1.8228%	14.5	11.1	124%	162%
70-74	10	382	0.026178	2.8743%	2.4051%	11.0	9.2	91%	109%
75-79	2	125	0.016000	3.6606%	3.8464%	4.6	4.8	44%	42%
80-84	2	60	0.033333	5.0714%	5.9426%	3.0	3.6	66%	56%
85-89	3	29	0.103448	8.9321%	9.5012%	2.6	2.8	116%	109%
90-94	3	5	0.600000	13.4225%	12.5966%	0.7	0.6	447%	476%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
Total	58	2,421				58.5	54.8	99%	106%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	4	0.000000	1.5969%	1.8100%	0.1	0.1	0%	0%
42	0	9	0.000000	1.6327%	1.9033%	0.1	0.2	0%	0%
43	0	11	0.000000	1.6696%	1.9933%	0.2	0.2	0%	0%
44	0	15	0.000000	1.7075%	2.0795%	0.3	0.3	0%	0%
45	0	16	0.000000	1.7465%	2.1618%	0.3	0.3	0%	0%
46	0	23	0.000000	1.7866%	2.2401%	0.4	0.5	0%	0%
47	0	28	0.000000	1.8278%	2.3151%	0.5	0.6	0%	0%
48	0	35	0.000000	1.8702%	2.3449%	0.7	0.8	0%	0%
49	1	41	0.024390	1.9138%	2.3721%	0.8	1.0	127%	103%
50	1	48	0.020833	1.9586%	2.3969%	0.9	1.2	106%	87%
51	1	52	0.019231	2.0046%	2.4195%	1.0	1.3	96%	79%
52	1	63	0.015873	2.0520%	2.4399%	1.3	1.5	77%	65%
53	2	68	0.029412	2.0666%	2.4198%	1.4	1.6	142%	122%
54	0	80	0.000000	2.0815%	2.4026%	1.7	1.9	0%	0%
55	2	83	0.024096	2.0628%	2.3904%	1.7	2.0	117%	101%
56	7	87	0.080460	2.1150%	2.3840%	1.8	2.1	380%	337%
57	1	82	0.012195	2.1961%	2.3848%	1.8	2.0	56%	51%
58	3	82	0.036585	2.2799%	2.3903%	1.9	2.0	160%	153%
59	4	90	0.044444	2.3546%	2.4016%	2.1	2.2	189%	185%
60	0	83	0.000000	2.4312%	2.4179%	2.0	2.0	0%	0%
61	0	89	0.000000	2.5234%	2.4368%	2.2	2.2	0%	0%
62	2	88	0.022727	2.6062%	2.3796%	2.3	2.1	87%	96%
63	6	83	0.072289	2.7062%	2.4106%	2.2	2.0	267%	300%
64	4	78	0.051282	2.7973%	2.4397%	2.2	1.9	183%	210%
65	1	68	0.014706	2.8942%	2.4667%	2.0	1.7	51%	60%
66	1	70	0.014286	3.0133%	2.4913%	2.1	1.7	47%	57%
67	1	65	0.015385	3.1264%	2.5144%	2.0	1.6	49%	61%
68	1	65	0.015385	3.2325%	2.6346%	2.1	1.7	48%	58%
69	1	59	0.016949	3.3648%	2.7547%	2.0	1.6	50%	62%
70	4	56	0.071429	3.4911%	2.8740%	2.0	1.6	205%	249%
71	1	50	0.020000	3.6474%	2.9929%	1.8	1.5	55%	67%
72	2	47	0.042553	3.8180%	3.1113%	1.8	1.5	111%	137%
73	1	46	0.021739	4.0038%	3.4240%	1.8	1.6	54%	63%
74	2	39	0.051282	4.2054%	3.7360%	1.6	1.5	122%	137%
75	0	36	0.000000	4.4457%	4.0465%	1.6	1.5	0%	0%
76	2	33	0.060606	4.7030%	4.3564%	1.6	1.4	129%	139%
77	3	36	0.083333	5.0049%	4.6640%	1.8	1.7	167%	179%
78	1	30	0.033333	5.3300%	5.2821%	1.6	1.6	63%	63%
79	1	30	0.033333	5.6789%	5.8980%	1.7	1.8	59%	57%
80	3	30	0.100000	6.0528%	6.5119%	1.8	2.0	165%	154%
81	4	28	0.142857	6.4519%	7.1230%	1.8	2.0	221%	201%
82	1	24	0.041667	6.8771%	7.7316%	1.7	1.9	61%	54%
83	1	23	0.043478	7.2945%	8.7906%	1.7	2.0	60%	49%
84	4	23	0.173913	7.7784%	9.8465%	1.8	2.3	224%	177%
85	0	16	0.000000	8.4363%	10.8994%	1.3	1.7	0%	0%
86	0	15	0.000000	9.3129%	11.9481%	1.4	1.8	0%	0%
87	1	12	0.083333	10.2406%	12.9922%	1.2	1.6	81%	64%
88	2	9	0.222222	11.1772%	14.6400%	1.0	1.3	199%	152%
89	0	6	0.000000	12.0628%	16.2764%	0.7	1.0	0%	0%
90	0	6	0.000000	13.0132%	17.8999%	0.8	1.1	0%	0%
91	1	5	0.200000	14.8368%	19.5091%	0.7	1.0	135%	103%
92	1	4	0.250000	16.7859%	21.0982%	0.7	0.8	149%	118%
93	0	2	0.000000	18.7008%	23.4462%	0.4	0.5	0%	0%
94	0	1	0.000000	20.6936%	25.7826%	0.2	0.3	0%	0%
95	0	1	0.000000	22.9245%	28.1157%	0.2	0.3	0%	0%
96	0	0	N/A	25.0673%	30.4581%	0	0	0%	0%
97	0	0	N/A	27.2486%	32.7890%	0	0	0%	0%
98	0	0	N/A	29.7037%	36.0863%	0	0	0%	0%
99	0	0	N/A	31.9466%	39.3715%	0	0	0%	0%
Subtotal	75	2,273				74.9	77.2	100%	97%
100 or more	0	0	N/A	37.1685%	49.4789%	0	0	0%	0%
Total	75	2,273				74.9	77.2	100%	97%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	2	0.000000	1.7300%	1.0907%	0.0	0.0	0%	0%
42	0	3	0.000000	1.7407%	1.1892%	0.1	0.0	0%	0%
43	0	8	0.000000	1.7517%	1.2845%	0.1	0.1	0%	0%
44	0	11	0.000000	1.7629%	1.3765%	0.2	0.2	0%	0%
45	0	14	0.000000	1.8034%	1.4657%	0.3	0.2	0%	0%
46	0	22	0.000000	1.8451%	1.5519%	0.4	0.3	0%	0%
47	0	25	0.000000	1.8879%	1.6357%	0.5	0.4	0%	0%
48	1	30	0.033333	1.9008%	1.7183%	0.6	0.5	175%	194%
49	0	35	0.000000	1.9139%	1.8016%	0.7	0.6	0%	0%
50	3	52	0.057692	1.8961%	1.8876%	1.0	1.0	304%	306%
51	2	57	0.035088	1.8787%	1.9774%	1.1	1.1	187%	177%
52	3	82	0.036585	1.8317%	2.0728%	1.5	1.7	200%	177%
53	1	101	0.009901	1.7861%	2.0780%	1.8	2.1	55%	48%
54	2	119	0.016807	1.7420%	2.0884%	2.1	2.5	96%	80%
55	4	143	0.027972	1.6991%	2.1034%	2.4	3.0	165%	133%
56	3	162	0.018519	1.6576%	2.1210%	2.7	3.4	112%	87%
57	5	190	0.026316	1.6435%	2.0254%	3.1	3.8	160%	130%
58	7	218	0.032110	1.6560%	2.0436%	3.6	4.5	194%	157%
59	1	229	0.004367	1.7137%	2.0609%	3.9	4.7	25%	21%
60	4	259	0.015444	1.8086%	2.0758%	4.7	5.4	85%	74%
61	8	275	0.029091	1.9084%	2.0884%	5.2	5.7	152%	139%
62	2	293	0.006826	1.9709%	1.8515%	5.8	5.4	35%	37%
63	9	310	0.029032	2.0350%	1.8660%	6.3	5.8	143%	156%
64	5	311	0.016077	2.1469%	1.8781%	6.7	5.8	75%	86%
65	8	291	0.027491	2.2173%	1.8881%	6.5	5.5	124%	146%
66	7	270	0.025926	2.3400%	1.8969%	6.3	5.1	111%	137%
67	6	238	0.025210	2.4188%	1.9046%	5.8	4.5	104%	132%
68	3	211	0.014218	2.5026%	2.0353%	5.3	4.3	57%	70%
69	4	188	0.021277	2.6482%	2.1656%	5.0	4.1	80%	98%
70	3	161	0.018634	2.7476%	2.2953%	4.4	3.7	68%	81%
71	5	142	0.035211	2.8404%	2.4246%	4.0	3.4	124%	145%
72	2	126	0.015873	2.9567%	2.5535%	3.7	3.2	54%	62%
73	7	97	0.072165	3.0673%	2.8531%	3.0	2.8	235%	253%
74	2	78	0.025641	3.2046%	3.1514%	2.5	2.5	80%	81%
75	0	59	0.000000	3.4090%	3.4497%	2.0	2.0	0%	0%
76	1	50	0.020000	3.5749%	3.7481%	1.8	1.9	56%	53%
77	0	44	0.000000	3.6949%	4.0473%	1.6	1.8	0%	0%
78	0	41	0.000000	3.9699%	4.5471%	1.6	1.9	0%	0%
79	2	37	0.054054	4.1997%	5.0496%	1.6	1.9	129%	107%
80	2	32	0.062500	4.5424%	5.5530%	1.5	1.8	138%	113%
81	1	28	0.035714	4.9165%	6.0594%	1.4	1.7	73%	59%
82	1	25	0.040000	5.3238%	6.5665%	1.3	1.6	75%	61%
83	1	20	0.050000	5.7668%	7.2897%	1.2	1.5	87%	69%
84	0	16	0.000000	6.6258%	8.0129%	1.1	1.3	0%	0%
85	1	15	0.066667	7.4786%	8.7365%	1.1	1.3	89%	76%
86	0	12	0.000000	8.1660%	9.4574%	1.0	1.1	0%	0%
87	2	13	0.153846	9.0177%	10.1716%	1.2	1.3	171%	151%
88	1	9	0.111111	9.8285%	11.0876%	0.9	1.0	113%	100%
89	1	8	0.125000	11.1303%	11.9985%	0.9	1.0	112%	104%
90	2	5	0.400000	12.6021%	12.9008%	0.6	0.6	317%	310%
91	0	1	0.000000	14.4185%	13.7930%	0.1	0.1	0%	0%
92	0	1	0.000000	15.9592%	14.6723%	0.2	0.1	0%	0%
93	1	1	1.000000	17.2598%	15.7217%	0.2	0.2	579%	636%
94	0	0	N/A	19.1337%	16.7606%	0	0	0%	0%
95	0	0	N/A	21.2670%	17.7923%	0	0	0%	0%
96	0	0	N/A	22.6194%	18.8301%	0	0	0%	0%
97	0	0	N/A	23.1727%	19.8581%	0	0	0%	0%
98	0	0	N/A	23.5338%	21.0246%	0	0	0%	0%
99	0	0	N/A	24.8785%	22.1823%	0	0	0%	0%
Subtotal	123	5,170				122.3	121.6	101%	101%
100 or more	0	0	N/A	25.4498%	25.8344%	0	0	0%	0%
Total	123	5,170				122.3	121.6	101%	101%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	39	0.000000	1.6682%	1.9869%	0.7	0.8	0%	0%
45-49	1	143	0.006993	1.8471%	2.3095%	2.6	3.3	38%	30%
50-54	5	311	0.016077	2.0404%	2.4159%	6.3	7.5	79%	67%
55-59	17	424	0.040094	2.2032%	2.3904%	9.3	10.1	182%	168%
60-64	12	421	0.028504	2.6093%	2.4165%	11.0	10.2	109%	118%
65-69	5	327	0.015291	3.1180%	2.5668%	10.2	8.4	49%	60%
70-74	10	238	0.042017	3.8046%	3.1934%	9.1	7.6	110%	132%
75-79	7	165	0.042424	5.0042%	4.8045%	8.3	7.9	85%	88%
80-84	13	128	0.101563	6.8278%	7.8829%	8.7	10.1	149%	129%
85-89	3	58	0.051724	9.8368%	12.7403%	5.7	7.4	53%	41%
90-94	2	18	0.111111	15.4168%	20.1118%	2.8	3.6	72%	55%
95-99	0	1	0.000000	22.9245%	28.1157%	0.2	0.3	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>75</b>	<b>2,273</b>				<b>74.9</b>	<b>77.2</b>	<b>100%</b>	<b>97%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
WOMEN**

**TABLE 2B GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
41-44	0	24	0.000000	1.7537%	1.2986%	0.4	0.3	0%	0%
45-49	1	126	0.007937	1.8813%	1.6679%	2.4	2.1	42%	48%
50-54	11	411	0.026764	1.8092%	2.0419%	7.4	8.4	148%	131%
55-59	20	942	0.021231	1.6743%	2.0665%	15.8	19.5	127%	103%
60-64	28	1,448	0.019337	1.9815%	1.9454%	28.7	28.2	98%	99%
65-69	28	1,198	0.023372	2.4029%	1.9628%	28.8	23.5	97%	119%
70-74	19	604	0.031457	2.9234%	2.5797%	17.7	15.6	108%	122%
75-79	3	231	0.012987	3.7256%	4.0791%	8.6	9.4	35%	32%
80-84	5	121	0.041322	5.2683%	6.4919%	6.4	7.9	78%	64%
85-89	5	57	0.087719	8.8579%	10.0446%	5.0	5.7	99%	87%
90-94	3	8	0.375000	13.8310%	13.5863%	1.1	1.1	271%	276%
95-99	0	0	N/A			0	0	0%	0%
100+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>123</b>	<b>5,170</b>				<b>122.3</b>	<b>121.6</b>	<b>101%</b>	<b>101%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2C		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	564	17	12.0	142%	3.0142%	2.1289%
2005	623	19	13.4	142%	3.0498%	2.1472%
2006	669	13	14.8	88%	1.9432%	2.2052%
2007	686	15	15.5	97%	2.1866%	2.2581%
2008	754	20	17.1	117%	2.6525%	2.2680%
2009	767	22	17.9	123%	2.8683%	2.3289%
2010	795	20	18.9	106%	2.5157%	2.3736%
2011	817	30	19.6	153%	3.6720%	2.4001%
2012	869	24	20.5	117%	2.7618%	2.3571%
2013	912	18	21.8	82%	1.9737%	2.3942%
Total	7,456	198	171.4	116%	2.6556%	2.2987%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> <u>Withdrawals</u> (2)	<u>Total</u> <u>Exposed</u> (3)	<u>Actual Rate</u> <u>(2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> <u>(3) x (5)</u> (7)	<u>Proposed</u> <u>(3) x (6)</u> (8)	<u>Expected</u> <u>(2) / (7)</u> (9)	<u>Proposed</u> <u>(2) / (8)</u> (10)
0	42	551	0.0762	6.00%	7.50%	33.1	41.3	127%	102%
1	95	1,425	0.0667	5.60%	7.00%	79.8	99.8	119%	95%
2	113	1,659	0.0681	5.20%	6.50%	86.3	107.8	131%	105%
3	91	1,413	0.0644	4.80%	6.00%	67.8	84.8	134%	107%
4	70	1,245	0.0562	4.40%	5.50%	54.8	68.5	128%	102%
5	47	949	0.0495	4.00%	5.00%	38.0	47.5	124%	99%
6	37	815	0.0454	3.70%	4.63%	30.2	37.7	123%	98%
7	30	709	0.0423	3.40%	4.25%	24.1	30.1	124%	100%
8	32	712	0.0449	3.10%	3.88%	22.1	27.6	145%	116%
9	25	602	0.0415	2.80%	3.50%	16.9	21.1	148%	119%
10	22	660	0.0333	2.50%	3.13%	16.5	20.6	133%	107%
11	19	549	0.0346	2.30%	2.88%	12.6	15.8	150%	120%
12	15	479	0.0313	2.10%	2.63%	10.1	12.6	149%	119%
13	12	424	0.0283	1.90%	2.38%	8.1	10.1	149%	119%
14	7	321	0.0218	1.70%	2.13%	5.5	6.8	128%	103%
15	6	294	0.0204	1.50%	1.88%	4.4	5.5	136%	109%
16	5	291	0.0172	1.40%	1.75%	4.1	5.1	123%	98%
17	10	302	0.0331	1.30%	1.63%	3.9	4.9	255%	204%
18	6	359	0.0167	1.20%	1.50%	4.3	5.4	139%	111%
19	4	331	0.0121	1.10%	1.38%	3.6	4.6	110%	88%
20	5	349	0.0143	1.00%	1.25%	3.5	4.4	143%	115%
21	8	281	0.0285	1.00%	1.25%	2.8	3.5	285%	228%
22	4	223	0.0179	1.00%	1.25%	2.2	2.8	179%	143%
23	3	202	0.0149	1.00%	1.25%	2.0	2.5	149%	119%
24	1	155	0.0065	1.00%	1.25%	1.6	1.9	65%	52%
25	2	100	0.0200	1.00%	1.25%	1.0	1.3	200%	160%
26	1	74	0.0135	1.00%	1.25%	0.7	0.9	135%	108%
27	0	52	0.0000	1.00%	1.25%	0.5	0.7	0%	0%
28	0	52	0.0000	1.00%	1.25%	0.5	0.7	0%	0%
29	3	34	0.0882	1.00%	1.25%	0.3	0.4	882%	706%
30	0	24	0.0000	1.00%	1.25%	0.2	0.3	0%	0%
Subtotal	715	15,636	0.0457			541.4	676.7	132%	106%
31 or more	1	41	0.0244	1.00%	1.25%	0.4	0.5	244%	195%
Total	716	15,677	0.0457			541.8	677.3	132%	106%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> <u>Withdrawals</u> (2)	<u>Total</u> <u>Exposed</u> (3)	<u>Actual Rate</u> <u>(2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> <u>(3) x (5)</u> (7)	<u>Proposed</u> <u>(3) x (6)</u> (8)	<u>Expected</u> <u>(2) / (7)</u> (9)	<u>Proposed</u> <u>(2) / (8)</u> (10)
0	79	1,681	0.0470	4.00%	5.00%	67.2	84.1	117%	94%
1	241	4,251	0.0567	3.80%	4.75%	161.5	201.9	149%	119%
2	272	4,733	0.0575	3.60%	4.50%	170.4	213.0	160%	128%
3	232	4,355	0.0533	3.40%	4.25%	148.1	185.1	157%	125%
4	163	4,173	0.0391	3.20%	4.00%	133.5	166.9	122%	98%
5	125	3,291	0.0380	3.00%	3.75%	98.7	123.4	127%	101%
6	116	3,309	0.0351	2.80%	3.50%	92.7	115.8	125%	100%
7	101	3,081	0.0328	2.60%	3.25%	80.1	100.1	126%	101%
8	112	3,235	0.0346	2.40%	3.00%	77.6	97.1	144%	115%
9	111	3,110	0.0357	2.20%	2.75%	68.4	85.5	162%	130%
10	77	2,842	0.0271	2.00%	2.50%	56.8	71.1	135%	108%
11	53	2,098	0.0253	1.90%	2.38%	39.9	49.8	133%	106%
12	37	1,555	0.0238	1.80%	2.25%	28.0	35.0	132%	106%
13	34	1,220	0.0279	1.70%	2.13%	20.7	25.9	164%	131%
14	35	972	0.0360	1.60%	2.00%	15.6	19.4	225%	180%
15	23	815	0.0282	1.50%	1.88%	12.2	15.3	188%	151%
16	28	712	0.0393	1.40%	1.75%	10.0	12.5	281%	225%
17	11	524	0.0210	1.30%	1.63%	6.8	8.5	161%	129%
18	6	509	0.0118	1.20%	1.50%	6.1	7.6	98%	79%
19	13	442	0.0294	1.10%	1.38%	4.9	6.1	267%	214%
20	9	400	0.0225	1.00%	1.25%	4.0	5.0	225%	180%
21	6	293	0.0205	1.00%	1.25%	2.9	3.7	205%	164%
22	3	234	0.0128	1.00%	1.25%	2.3	2.9	128%	103%
23	3	204	0.0147	1.00%	1.25%	2.0	2.6	147%	118%
24	2	179	0.0112	1.00%	1.25%	1.8	2.2	112%	89%
25	5	145	0.0345	1.00%	1.25%	1.5	1.8	345%	276%
26	2	130	0.0154	1.00%	1.25%	1.3	1.6	154%	123%
27	1	91	0.0110	1.00%	1.25%	0.9	1.1	110%	88%
28	1	82	0.0122	1.00%	1.25%	0.8	1.0	122%	98%
29	0	45	0.0000	1.00%	1.25%	0.5	0.6	0%	0%
30	0	34	0.0000	1.00%	1.25%	0.3	0.4	0%	0%
Subtotal	1,901	48,745	0.0390			1,317.6	1,647.1	144%	115%
31 or more	2	92	0.0217	1.00%	1.25%	0.9	1.2	217%	174%
Total	1,903	48,837	0.0390			1,318.6	1,648.2	144%	115%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
0	87	1,281	0.0679	6.00%	7.50%	76.9	96.1	113%	91%
1	237	3,036	0.0781	5.60%	7.00%	170.0	212.5	139%	112%
2	232	3,021	0.0768	5.20%	6.50%	157.1	196.4	148%	118%
3	195	2,612	0.0747	4.80%	6.00%	125.4	156.7	156%	124%
4	171	2,423	0.0706	4.40%	5.50%	106.6	133.3	160%	128%
5	127	1,839	0.0691	4.00%	5.00%	73.6	92.0	173%	138%
6	104	1,659	0.0627	3.70%	4.63%	61.4	76.7	169%	136%
7	84	1,447	0.0581	3.40%	4.25%	49.2	61.5	171%	137%
8	76	1,355	0.0561	3.10%	3.88%	42.0	52.5	181%	145%
9	50	1,179	0.0424	2.80%	3.50%	33.0	41.3	151%	121%
10	43	1,114	0.0386	2.50%	3.13%	27.9	34.8	154%	124%
11	37	958	0.0386	2.30%	2.88%	22.0	27.5	168%	134%
12	28	867	0.0323	2.10%	2.63%	18.2	22.8	154%	123%
13	30	842	0.0356	1.90%	2.38%	16.0	20.0	188%	150%
14	20	825	0.0242	1.70%	2.13%	14.0	17.5	143%	114%
15	21	821	0.0256	1.50%	1.88%	12.3	15.4	171%	136%
16	20	798	0.0251	1.40%	1.75%	11.2	14.0	179%	143%
17	19	703	0.0270	1.30%	1.63%	9.1	11.4	208%	166%
18	11	665	0.0165	1.20%	1.50%	8.0	10.0	138%	110%
19	9	642	0.0140	1.10%	1.38%	7.1	8.8	127%	102%
20	12	589	0.0204	1.00%	1.25%	5.9	7.4	204%	163%
21	11	470	0.0234	1.00%	1.25%	4.7	5.9	234%	187%
22	9	379	0.0237	1.00%	1.25%	3.8	4.7	237%	190%
23	6	317	0.0189	1.00%	1.25%	3.2	4.0	189%	151%
24	2	268	0.0075	1.00%	1.25%	2.7	3.4	75%	60%
25	2	194	0.0103	1.00%	1.25%	1.9	2.4	103%	82%
26	4	153	0.0261	1.00%	1.25%	1.5	1.9	261%	209%
27	1	111	0.0090	1.00%	1.25%	1.1	1.4	90%	72%
28	0	108	0.0000	1.00%	1.25%	1.1	1.4	0%	0%
29	5	68	0.0735	1.00%	1.25%	0.7	0.9	735%	588%
30	1	67	0.0149	1.00%	1.25%	0.7	0.8	149%	119%
Total	1,654	30,811	0.0537			1,068.1	1,335.2	155%	124%
31 or more	2	104	0.0192	1.00%	1.25%	1.0	1.3	192%	154%
Total	1,656	30,915	0.0536			1,069.2	1,336.5	155%	124%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 3B**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual Withdrawals (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
0	206	4,059	0.0508	4.00%	5.00%	162.4	203.0	127%	102%
1	583	9,361	0.0623	3.80%	4.75%	355.7	444.6	164%	131%
2	590	9,831	0.0600	3.60%	4.50%	353.9	442.4	167%	133%
3	571	9,576	0.0596	3.40%	4.25%	325.6	407.0	175%	140%
4	476	9,332	0.0510	3.20%	4.00%	298.6	373.3	159%	128%
5	368	7,770	0.0474	3.00%	3.75%	233.1	291.4	158%	126%
6	340	7,141	0.0476	2.80%	3.50%	199.9	249.9	170%	136%
7	287	6,129	0.0468	2.60%	3.25%	159.4	199.2	180%	144%
8	244	5,555	0.0439	2.40%	3.00%	133.3	166.7	183%	146%
9	202	4,982	0.0405	2.20%	2.75%	109.6	137.0	184%	147%
10	129	4,464	0.0289	2.00%	2.50%	89.3	111.6	144%	116%
11	93	3,526	0.0264	1.90%	2.38%	67.0	83.7	139%	111%
12	77	2,779	0.0277	1.80%	2.25%	50.0	62.5	154%	123%
13	80	2,260	0.0354	1.70%	2.13%	38.4	48.0	208%	167%
14	65	1,950	0.0333	1.60%	2.00%	31.2	39.0	208%	167%
15	42	1,727	0.0243	1.50%	1.88%	25.9	32.4	162%	130%
16	53	1,483	0.0357	1.40%	1.75%	20.8	26.0	255%	204%
17	35	1,142	0.0306	1.30%	1.63%	14.8	18.6	236%	189%
18	20	930	0.0215	1.20%	1.50%	11.2	14.0	179%	143%
19	24	775	0.0310	1.10%	1.38%	8.5	10.7	282%	225%
20	12	665	0.0180	1.00%	1.25%	6.7	8.3	180%	144%
21	11	533	0.0206	1.00%	1.25%	5.3	6.7	206%	165%
22	4	442	0.0090	1.00%	1.25%	4.4	5.5	90%	72%
23	8	373	0.0214	1.00%	1.25%	3.7	4.7	214%	172%
24	5	330	0.0152	1.00%	1.25%	3.3	4.1	152%	121%
25	7	259	0.0270	1.00%	1.25%	2.6	3.2	270%	216%
26	4	210	0.0190	1.00%	1.25%	2.1	2.6	190%	152%
27	1	148	0.0068	1.00%	1.25%	1.5	1.9	68%	54%
28	2	133	0.0150	1.00%	1.25%	1.3	1.7	150%	120%
29	0	100	0.0000	1.00%	1.25%	1.0	1.3	0%	0%
30	1	99	0.0101	1.00%	1.25%	1.0	1.2	101%	81%
Total	4,540	98,064	0.0463			2,721.6	3,402.0	167%	133%
31 or more	2	245	0.0082	1.00%	1.25%	2.5	3.1	82%	65%
Total	4,542	98,309	0.0462			2,724.0	3,405.0	167%	133%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 3C Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals	Expected Withdrawals	Actual / Expected	Withdrawal Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	16,477	914	545.0	168%	5.55%	3.31%
2005	15,299	130	480.5	27%	0.85%	3.14%
2006	16,159	1,100	502.7	219%	6.81%	3.11%
2007	16,775	1,435	521.9	275%	8.55%	3.11%
2008	15,892	621	485.6	128%	3.91%	3.06%
2009	16,398	603	506.8	119%	3.68%	3.09%
2010	16,238	729	496.1	147%	4.49%	3.06%
2011	15,986	666	478.2	139%	4.17%	2.99%
2012	15,770	95	465.6	20%	0.60%	2.95%
2013	20,120	441	687.3	64%	2.19%	3.42%
Total	165,114	6,734	5,169.6	130%	4.08%	3.13%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	1	1	1.0000	40.00%	30.00%	0.4	0.3	250%	333%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	1	2	0.5000	40.00%	30.00%	0.8	0.6	125%	167%
50	0	6	0.0000	40.00%	30.00%	2.4	1.8	0%	0%
51	1	4	0.2500	40.00%	30.00%	1.6	1.2	63%	83%
52	0	6	0.0000	40.00%	30.00%	2.4	1.8	0%	0%
53	2	3	0.6667	40.00%	30.00%	1.2	0.9	167%	222%
54	7	11	0.6364	36.36%	25.45%	4.0	2.8	175%	250%
55	3	53	0.0566	38.49%	28.11%	20.4	14.9	15%	20%
56	14	25	0.5600	28.80%	16.00%	7.2	4.0	194%	350%
57	22	1,525	0.0144	20.04%	5.05%	305.6	77.0	7%	29%
58	4	120	0.0333	20.33%	5.42%	24.4	6.5	16%	62%
59	6	104	0.0577	20.38%	5.48%	21.2	5.7	28%	105%
60	4	101	0.0396	21.19%	6.49%	21.4	6.6	19%	61%
61	99	166	0.5964	20.36%	5.45%	33.8	9.1	293%	1094%
62	45	1,097	0.0410	30.33%	39.89%	332.7	437.6	14%	10%
63	8	73	0.1096	20.00%	15.00%	14.6	11.0	55%	73%
64	8	66	0.1212	20.00%	15.00%	13.2	9.9	61%	81%
65	9	39	0.2308	30.00%	15.00%	11.7	5.9	77%	154%
66	4	32	0.1250	20.00%	15.00%	6.4	4.8	63%	83%
67	3	22	0.1364	20.91%	15.68%	4.6	3.5	65%	87%
68	7	31	0.2258	20.00%	15.00%	6.2	4.7	113%	151%
69	1	21	0.0476	20.00%	15.00%	4.2	3.2	24%	32%
70	1	13	0.0769	100.00%	60.00%	13.0	7.8	8%	13%
Subtotal	250	3,521				853.4	621.3	29%	40%
Other	17	201	0.0846	100.00%	60.00%	201.0	120.6	8%	14%
Total	267	3,722				1,054.4	741.9	25%	36%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
41	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
42	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
43	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
44	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
45	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
46	1	1	1.0000	40.00%	30.00%	0.4	0.3	250%	333%
47	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
48	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
49	1	2	0.5000	40.00%	30.00%	0.8	0.6	125%	167%
50	0	6	0.0000	40.00%	30.00%	2.4	1.8	0%	0%
51	1	4	0.2500	40.00%	30.00%	1.6	1.2	63%	83%
52	0	6	0.0000	40.00%	30.00%	2.4	1.8	0%	0%
53	2	3	0.6667	40.00%	30.00%	1.2	0.9	167%	222%
54	5	9	0.5556	40.00%	30.00%	3.6	2.7	139%	185%
55	1	49	0.0204	40.00%	30.00%	19.6	14.7	5%	7%
56	0	11	0.0000	40.00%	30.00%	4.4	3.3	0%	0%
57	1	3	0.3333	40.00%	30.00%	1.2	0.9	83%	111%
58	0	2	0.0000	40.00%	30.00%	0.8	0.6	0%	0%
59	0	2	0.0000	40.00%	30.00%	0.8	0.6	0%	0%
60	1	6	0.1667	40.00%	30.00%	2.4	1.8	42%	56%
61	1	3	0.3333	40.00%	30.00%	1.2	0.9	83%	111%
62	1	12	0.0833	60.00%	30.00%	7.2	3.6	14%	28%
63	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
64	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
65	0	0	N/A	60.00%	30.00%	0.0	0.0	0%	0%
66	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
67	1	1	1.0000	40.00%	30.00%	0.4	0.3	250%	333%
68	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
69	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	16	120				50.4	36.0	32%	44%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	16	120				50.4	36.0	32%	44%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
45	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
46	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
47	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
48	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
49	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
50	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
51	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
52	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
53	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
54	2	2	1.0000	20.00%	5.00%	0.4	0.1	500%	2000%
55	2	4	0.5000	20.00%	5.00%	0.8	0.2	250%	1000%
56	14	14	1.0000	20.00%	5.00%	2.8	0.7	500%	2000%
57	21	1,522	0.0138	20.00%	5.00%	304.4	76.1	7%	28%
58	4	118	0.0339	20.00%	5.00%	23.6	5.9	17%	68%
59	6	102	0.0588	20.00%	5.00%	20.4	5.1	29%	118%
60	3	95	0.0316	20.00%	5.00%	19.0	4.8	16%	63%
61	98	163	0.6012	20.00%	5.00%	32.6	8.2	301%	1202%
62	44	1,085	0.0406	30.00%	40.00%	325.5	434.0	14%	10%
63	8	73	0.1096	20.00%	15.00%	14.6	11.0	55%	73%
64	8	66	0.1212	20.00%	15.00%	13.2	9.9	61%	81%
65	9	39	0.2308	30.00%	15.00%	11.7	5.9	77%	154%
66	4	32	0.1250	20.00%	15.00%	6.4	4.8	63%	83%
67	2	21	0.0952	20.00%	15.00%	4.2	3.2	48%	63%
68	7	31	0.2258	20.00%	15.00%	6.2	4.7	113%	151%
69	1	21	0.0476	20.00%	15.00%	4.2	3.2	24%	32%
70	1	13	0.0769	100.00%	60.00%	13.0	7.8	8%	13%
Subtotal	234	3,401				803.0	585.3	29%	40%
Other	17	201	0.0846	100.00%	60.00%	201.0	120.6	8%	14%
Total	251	3,602				1,004.0	705.9	25%	36%



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	1	1	1.0000	40.00%	30.00%	0.4	0.3	250%	333%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	1	2	0.5000	40.00%	30.00%	0.8	0.6	125%	167%
50	0	10	0.0000	40.00%	30.00%	4.0	3.0	0%	0%
51	1	4	0.2500	40.00%	30.00%	1.6	1.2	63%	83%
52	0	7	0.0000	40.00%	30.00%	2.8	2.1	0%	0%
53	3	4	0.7500	40.00%	30.00%	1.6	1.2	188%	250%
54	7	12	0.5833	36.67%	25.83%	4.4	3.1	159%	226%
55	49	226	0.2168	31.59%	19.49%	71.4	44.1	69%	111%
56	15	34	0.4412	31.76%	19.71%	10.8	6.7	139%	224%
57	33	1,747	0.0189	20.11%	5.14%	351.4	89.9	9%	37%
58	8	203	0.0394	20.49%	5.62%	41.6	11.4	19%	70%
59	11	190	0.0579	20.42%	5.53%	38.8	10.5	28%	105%
60	7	174	0.0402	20.69%	5.86%	36.0	10.2	19%	69%
61	107	241	0.4440	20.25%	5.31%	48.8	12.8	219%	836%
62	554	3,703	0.1496	30.28%	39.91%	1,121.1	1,477.8	49%	37%
63	23	178	0.1292	20.11%	15.08%	35.8	26.9	64%	86%
64	18	163	0.1104	20.25%	15.18%	33.0	24.8	55%	73%
65	21	114	0.1842	30.00%	15.00%	34.2	17.1	61%	123%
66	7	87	0.0805	20.23%	15.17%	17.6	13.2	40%	53%
67	8	57	0.1404	20.35%	15.26%	11.6	8.7	69%	92%
68	12	67	0.1791	20.00%	15.00%	13.4	10.1	90%	119%
69	5	43	0.1163	20.00%	15.00%	8.6	6.5	58%	78%
70	2	33	0.0606	100.00%	61.21%	33.0	20.2	6%	10%
Subtotal	893	7,300				1,922.7	1,802.1	46%	50%
Other	45	545	0.0826	100.00%	61.21%	545.0	333.6	8%	13%
Total	938	7,845				2,467.7	2,135.7	38%	44%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 4B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
41	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
42	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
43	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
44	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
45	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
46	1	1	1.0000	40.00%	30.00%	0.4	0.3	250%	333%
47	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
48	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
49	1	2	0.5000	40.00%	30.00%	0.8	0.6	125%	167%
50	0	10	0.0000	40.00%	30.00%	4.0	3.0	0%	0%
51	1	4	0.2500	40.00%	30.00%	1.6	1.2	63%	83%
52	0	7	0.0000	40.00%	30.00%	2.8	2.1	0%	0%
53	3	4	0.7500	40.00%	30.00%	1.6	1.2	188%	250%
54	5	10	0.5000	40.00%	30.00%	4.0	3.0	125%	167%
55	18	131	0.1374	40.00%	30.00%	52.4	39.3	34%	46%
56	1	20	0.0500	40.00%	30.00%	8.0	6.0	13%	17%
57	2	10	0.2000	40.00%	30.00%	4.0	3.0	50%	67%
58	2	5	0.4000	40.00%	30.00%	2.0	1.5	100%	133%
59	0	4	0.0000	40.00%	30.00%	1.6	1.2	0%	0%
60	1	6	0.1667	40.00%	30.00%	2.4	1.8	42%	56%
61	1	3	0.3333	40.00%	30.00%	1.2	0.9	83%	111%
62	3	34	0.0882	60.00%	30.00%	20.4	10.2	15%	29%
63	0	1	0.0000	40.00%	30.00%	0.4	0.3	0%	0%
64	0	2	0.0000	40.00%	30.00%	0.8	0.6	0%	0%
65	0	0	N/A	60.00%	30.00%	0.0	0.0	0%	0%
66	0	1	0.0000	40.00%	30.00%	0.4	0.3	0%	0%
67	1	1	1.0000	40.00%	30.00%	0.4	0.3	250%	333%
68	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
69	0	0	N/A	40.00%	30.00%	0.0	0.0	0%	0%
70	0	1	0.0000	100.00%	100.00%	1.0	1.0	0%	0%
Subtotal	40	257				110.2	77.8	36%	51%
Other	2	11	0.1818	100.00%	100.00%	11.0	11.0	18%	18%
Total	42	268				121.2	88.8	35%	47%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 4C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
45	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
46	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
47	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
48	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
49	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
50	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
51	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
52	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
53	0	0	N/A	20.00%	5.00%	0.0	0.0	0%	0%
54	2	2	1.0000	20.00%	5.00%	0.4	0.1	500%	2000%
55	31	95	0.3263	20.00%	5.00%	19.0	4.8	163%	653%
56	14	14	1.0000	20.00%	5.00%	2.8	0.7	500%	2000%
57	31	1,737	0.0178	20.00%	5.00%	347.4	86.9	9%	36%
58	6	198	0.0303	20.00%	5.00%	39.6	9.9	15%	61%
59	11	186	0.0591	20.00%	5.00%	37.2	9.3	30%	118%
60	6	168	0.0357	20.00%	5.00%	33.6	8.4	18%	71%
61	106	238	0.4454	20.00%	5.00%	47.6	11.9	223%	891%
62	551	3,669	0.1502	30.00%	40.00%	1,100.7	1,467.6	50%	38%
63	23	177	0.1299	20.00%	15.00%	35.4	26.6	65%	87%
64	18	161	0.1118	20.00%	15.00%	32.2	24.2	56%	75%
65	21	114	0.1842	30.00%	15.00%	34.2	17.1	61%	123%
66	7	86	0.0814	20.00%	15.00%	17.2	12.9	41%	54%
67	7	56	0.1250	20.00%	15.00%	11.2	8.4	63%	83%
68	12	67	0.1791	20.00%	15.00%	13.4	10.1	90%	119%
69	5	43	0.1163	20.00%	15.00%	8.6	6.5	58%	78%
70	2	32	0.0625	100.00%	60.00%	32.0	19.2	6%	10%
Subtotal	853	7,043				1,812.5	1,724.3	47%	49%
Other	43	534	0.0805	100.00%	60.00%	534.0	320.4	8%	13%
Total	896	7,577				2,346.5	2,044.7	38%	44%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 5A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	5	0.0000	20.00%	20.00%	1.0	1.0	0%	0%
52	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
53	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
54	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
55	23	25	0.9200	19.60%	19.60%	4.9	4.9	469%	469%
56	2	49	0.0408	19.49%	19.49%	9.6	9.6	21%	21%
57	28	35	0.8000	16.29%	16.29%	5.7	5.7	491%	491%
58	17	1,329	0.0128	15.02%	15.02%	199.7	199.7	9%	9%
59	6	128	0.0469	15.08%	15.08%	19.3	19.3	31%	31%
60	6	119	0.0504	15.13%	15.13%	18.0	18.0	33%	33%
61	6	99	0.0606	15.10%	15.10%	15.0	15.0	40%	40%
62	281	354	0.7938	25.00%	25.00%	88.5	88.5	318%	318%
63	27	937	0.0288	15.06%	15.06%	141.1	141.1	19%	19%
64	11	77	0.1429	15.00%	15.00%	11.6	11.6	95%	95%
65	8	61	0.1311	25.00%	25.00%	15.3	15.3	52%	52%
66	8	41	0.1951	15.00%	15.00%	6.2	6.2	130%	130%
67	5	32	0.1563	15.00%	15.00%	4.8	4.8	104%	104%
68	3	28	0.1071	15.00%	15.00%	4.2	4.2	71%	71%
69	5	27	0.1852	15.00%	15.00%	4.1	4.1	123%	123%
70	3	23	0.1304	100.00%	100.00%	23.0	23.0	13%	13%
Subtotal	439	3,376				573.1	573.1	77%	77%
Other	5	40	0.1250	100.00%	100.00%	40.0	40.0	13%	13%
Total	444	3,416				613.1	613.1	72%	72%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
45	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
46	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
47	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
48	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
49	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
50	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
51	0	5	0.0000	20.00%	20.00%	1.0	1.0	0%	0%
52	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
53	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
54	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
55	21	23	0.9130	20.00%	20.00%	4.6	4.6	457%	457%
56	1	44	0.0227	20.00%	20.00%	8.8	8.8	11%	11%
57	2	9	0.2222	20.00%	20.00%	1.8	1.8	111%	111%
58	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
59	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
60	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
61	1	2	0.5000	20.00%	20.00%	0.4	0.4	250%	250%
62	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
63	0	11	0.0000	20.00%	20.00%	2.2	2.2	0%	0%
64	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
65	0	1	0.0000	25.00%	25.00%	0.3	0.3	0%	0%
66	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
67	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Subtotal	25	113				22.7	22.7	110%	110%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	25	113				22.7	22.7	110%	110%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
54	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
55	2	2	1.0000	15.00%	15.00%	0.3	0.3	667%	667%
56	1	5	0.2000	15.00%	15.00%	0.8	0.8	133%	133%
57	26	26	1.0000	15.00%	15.00%	3.9	3.9	667%	667%
58	17	1,323	0.0128	15.00%	15.00%	198.5	198.5	9%	9%
59	6	126	0.0476	15.00%	15.00%	18.9	18.9	32%	32%
60	6	116	0.0517	15.00%	15.00%	17.4	17.4	34%	34%
61	5	97	0.0515	15.00%	15.00%	14.6	14.6	34%	34%
62	281	354	0.7938	25.00%	25.00%	88.5	88.5	318%	318%
63	27	926	0.0292	15.00%	15.00%	138.9	138.9	19%	19%
64	11	77	0.1429	15.00%	15.00%	11.6	11.6	95%	95%
65	8	60	0.1333	25.00%	25.00%	15.0	15.0	53%	53%
66	8	41	0.1951	15.00%	15.00%	6.2	6.2	130%	130%
67	5	32	0.1563	15.00%	15.00%	4.8	4.8	104%	104%
68	3	28	0.1071	15.00%	15.00%	4.2	4.2	71%	71%
69	5	27	0.1852	15.00%	15.00%	4.1	4.1	123%	123%
70	3	23	0.1304	100.00%	100.00%	23.0	23.0	13%	13%
Subtotal	414	3,263				550.4	550.4	75%	75%
Other	5	40	0.1250	100.00%	100.00%	40.0	40.0	13%	13%
Total	419	3,303				590.4	590.4	71%	71%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 5A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	10	0.0000	20.00%	20.00%	2.0	2.0	0%	0%
52	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
53	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
54	0	4	0.0000	17.50%	17.50%	0.7	0.7	0%	0%
55	23	26	0.8846	19.62%	19.62%	5.1	5.1	451%	451%
56	34	207	0.1643	17.73%	17.73%	36.7	36.7	93%	93%
57	30	42	0.7143	16.90%	16.90%	7.1	7.1	423%	423%
58	21	1,455	0.0144	15.03%	15.03%	218.8	218.8	10%	10%
59	7	183	0.0383	15.11%	15.11%	27.7	27.7	25%	25%
60	6	182	0.0330	15.16%	15.16%	27.6	27.6	22%	22%
61	9	152	0.0592	15.07%	15.07%	22.9	22.9	39%	39%
62	284	391	0.7263	25.00%	25.00%	97.8	97.8	291%	291%
63	337	2,943	0.1145	15.05%	15.05%	442.8	442.8	76%	76%
64	20	169	0.1183	15.06%	15.06%	25.5	25.5	79%	79%
65	19	148	0.1284	25.00%	25.00%	37.0	37.0	51%	51%
66	19	106	0.1792	15.05%	15.05%	16.0	16.0	119%	119%
67	14	93	0.1505	15.05%	15.05%	14.0	14.0	100%	100%
68	8	56	0.1429	15.00%	15.00%	8.4	8.4	95%	95%
69	10	58	0.1724	15.00%	15.00%	8.7	8.7	115%	115%
70	4	41	0.0976	100.00%	100.00%	41.0	41.0	10%	10%
Subtotal	845	6,275				1,041.4	1,041.4	81%	81%
Other	13	124	0.1048	100.00%	100.00%	124.0	124.0	10%	10%
Total	858	6,399				1,165.4	1,165.4	74%	74%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 5B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
42	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
43	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
44	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
45	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
46	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
47	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
48	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
49	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
50	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
51	0	10	0.0000	20.00%	20.00%	2.0	2.0	0%	0%
52	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
53	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
54	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
55	21	24	0.8750	20.00%	20.00%	4.8	4.8	438%	438%
56	16	113	0.1416	20.00%	20.00%	22.6	22.6	71%	71%
57	4	16	0.2500	20.00%	20.00%	3.2	3.2	125%	125%
58	0	10	0.0000	20.00%	20.00%	2.0	2.0	0%	0%
59	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
60	0	6	0.0000	20.00%	20.00%	1.2	1.2	0%	0%
61	1	2	0.5000	20.00%	20.00%	0.4	0.4	250%	250%
62	0	0	N/A	25.00%	25.00%	0.0	0.0	0%	0%
63	3	27	0.1111	20.00%	20.00%	5.4	5.4	56%	56%
64	0	2	0.0000	20.00%	20.00%	0.4	0.4	0%	0%
65	0	3	0.0000	25.00%	25.00%	0.8	0.8	0%	0%
66	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
67	0	1	0.0000	20.00%	20.00%	0.2	0.2	0%	0%
68	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
69	0	0	N/A	20.00%	20.00%	0.0	0.0	0%	0%
70	1	1	1.0000	100.00%	100.00%	1.0	1.0	100%	100%
Subtotal	46	231				47.2	47.2	98%	98%
Other	0	0	N/A	100.00%	100.00%	0.0	0.0	0%	0%
Total	46	231				47.2	47.2	98%	98%



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

TABLE 5C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(5)	(6)	(3) x (5) (7)	(3) x (6) (8)	(2) / (7) (9)	(2) / (8) (10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
53	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
54	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
55	2	2	1.0000	15.00%	15.00%	0.3	0.3	667%	667%
56	18	94	0.1915	15.00%	15.00%	14.1	14.1	128%	128%
57	26	26	1.0000	15.00%	15.00%	3.9	3.9	667%	667%
58	21	1,445	0.0145	15.00%	15.00%	216.8	216.8	10%	10%
59	7	179	0.0391	15.00%	15.00%	26.9	26.9	26%	26%
60	6	176	0.0341	15.00%	15.00%	26.4	26.4	23%	23%
61	8	150	0.0533	15.00%	15.00%	22.5	22.5	36%	36%
62	284	391	0.7263	25.00%	25.00%	97.8	97.8	291%	291%
63	334	2,916	0.1145	15.00%	15.00%	437.4	437.4	76%	76%
64	20	167	0.1198	15.00%	15.00%	25.1	25.1	80%	80%
65	19	145	0.1310	25.00%	25.00%	36.3	36.3	52%	52%
66	19	105	0.1810	15.00%	15.00%	15.8	15.8	121%	121%
67	14	92	0.1522	15.00%	15.00%	13.8	13.8	101%	101%
68	8	56	0.1429	15.00%	15.00%	8.4	8.4	95%	95%
69	10	58	0.1724	15.00%	15.00%	8.7	8.7	115%	115%
70	3	40	0.0750	100.00%	100.00%	40.0	40.0	8%	8%
Subtotal	799	6,044				994.2	994.2	80%	80%
Other	13	124	0.1048	100.00%	100.00%	124.0	124.0	10%	10%
Total	812	6,168				1,118.2	1,118.2	73%	73%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 6A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	0	3	0.0000	15.00%	15.00%	0.5	0.5	0%	0%
53	0	6	0.0000	15.00%	15.00%	0.9	0.9	0%	0%
54	0	6	0.0000	15.00%	15.00%	0.9	0.9	0%	0%
55	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
56	6	11	0.5455	15.00%	15.00%	1.7	1.7	364%	364%
57	16	72	0.2222	13.96%	13.96%	10.1	10.1	159%	159%
58	13	78	0.1667	13.27%	13.27%	10.4	10.4	126%	126%
59	41	1,226	0.0334	10.23%	10.23%	125.4	125.4	33%	33%
60	31	1,067	0.0291	10.15%	10.15%	108.4	108.4	29%	29%
61	45	990	0.0455	10.14%	10.14%	100.4	100.4	45%	45%
62	96	898	0.1069	20.12%	15.24%	180.7	136.9	53%	70%
63	192	869	0.2209	15.04%	15.04%	130.7	130.7	147%	147%
64	159	1,479	0.1075	15.03%	15.03%	222.4	222.4	72%	72%
65	181	1,258	0.1439	20.04%	15.07%	252.1	189.6	72%	95%
66	198	994	0.1992	15.03%	15.03%	149.4	149.4	133%	133%
67	127	772	0.1645	15.02%	15.02%	116.0	116.0	110%	110%
68	101	635	0.1591	15.03%	15.03%	95.5	95.5	106%	106%
69	83	552	0.1504	15.05%	15.05%	83.1	83.1	100%	100%
70	87	456	0.1908	100.00%	25.33%	456.0	115.5	19%	75%
Subtotal	1,376	11,374				2,044.4	1,597.6	67%	86%
Other	309	1,825	0.1693	100.00%	25.33%	1,825.0	462.3	17%	67%
Total	1,685	13,199				3,869.4	2,059.9	44%	82%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	0	3	0.0000	15.00%	15.00%	0.5	0.5	0%	0%
53	0	6	0.0000	15.00%	15.00%	0.9	0.9	0%	0%
54	0	6	0.0000	15.00%	15.00%	0.9	0.9	0%	0%
55	0	2	0.0000	15.00%	15.00%	0.3	0.3	0%	0%
56	6	11	0.5455	15.00%	15.00%	1.7	1.7	364%	364%
57	12	57	0.2105	15.00%	15.00%	8.6	8.6	140%	140%
58	1	51	0.0196	15.00%	15.00%	7.7	7.7	13%	13%
59	15	56	0.2679	15.00%	15.00%	8.4	8.4	179%	179%
60	4	33	0.1212	15.00%	15.00%	5.0	5.0	81%	81%
61	7	28	0.2500	15.00%	15.00%	4.2	4.2	167%	167%
62	10	22	0.4545	25.00%	25.00%	5.5	5.5	182%	182%
63	2	7	0.2857	20.00%	20.00%	1.4	1.4	143%	143%
64	0	10	0.0000	20.00%	20.00%	2.0	2.0	0%	0%
65	0	9	0.0000	25.00%	25.00%	2.3	2.3	0%	0%
66	3	5	0.6000	20.00%	20.00%	1.0	1.0	300%	300%
67	0	3	0.0000	20.00%	20.00%	0.6	0.6	0%	0%
68	0	4	0.0000	20.00%	20.00%	0.8	0.8	0%	0%
69	1	5	0.2000	20.00%	20.00%	1.0	1.0	100%	100%
70	1	2	0.5000	100.00%	100.00%	2.0	2.0	50%	50%
Subtotal	62	320				54.5	54.5	114%	114%
Other	0	4	0.0000	100.00%	100.00%	4.0	4.0	0%	0%
Total	62	324				58.5	58.5	106%	106%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
44	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
45	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
46	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
47	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
48	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
49	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
50	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
51	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
52	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
53	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
54	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
55	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
56	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
57	4	15	0.2667	10.00%	10.00%	1.5	1.5	267%	267%
58	12	27	0.4444	10.00%	10.00%	2.7	2.7	444%	444%
59	26	1,170	0.0222	10.00%	10.00%	117.0	117.0	22%	22%
60	27	1,034	0.0261	10.00%	10.00%	103.4	103.4	26%	26%
61	38	962	0.0395	10.00%	10.00%	96.2	96.2	40%	40%
62	86	876	0.0982	20.00%	15.00%	175.2	131.4	49%	65%
63	190	862	0.2204	15.00%	15.00%	129.3	129.3	147%	147%
64	159	1,469	0.1082	15.00%	15.00%	220.4	220.4	72%	72%
65	181	1,249	0.1449	20.00%	15.00%	249.8	187.4	72%	97%
66	195	989	0.1972	15.00%	15.00%	148.4	148.4	131%	131%
67	127	769	0.1651	15.00%	15.00%	115.4	115.4	110%	110%
68	101	631	0.1601	15.00%	15.00%	94.7	94.7	107%	107%
69	82	547	0.1499	15.00%	15.00%	82.1	82.1	100%	100%
70	86	454	0.1894	100.00%	25.00%	454.0	113.5	19%	76%
Subtotal	1,314	11,054				1,989.9	1,543.1	66%	85%
Other	309	1,821	0.1697	100.00%	25.00%	1,821.0	455.3	17%	68%
Total	1,623	12,875				3,810.9	1,998.4	43%	81%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
TOTAL - MEN AND WOMEN**

**TABLE 6A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
51	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
52	1	7	0.1429	15.00%	15.00%	1.1	1.1	95%	95%
53	3	11	0.2727	15.00%	15.00%	1.7	1.7	182%	182%
54	0	9	0.0000	15.00%	15.00%	1.4	1.4	0%	0%
55	1	8	0.1250	14.38%	14.38%	1.2	1.2	87%	87%
56	6	13	0.4615	14.62%	14.62%	1.9	1.9	316%	316%
57	39	207	0.1884	12.46%	12.46%	25.8	25.8	151%	151%
58	33	178	0.1854	12.16%	12.16%	21.7	21.7	152%	152%
59	55	1,392	0.0395	10.26%	10.26%	142.9	142.9	39%	39%
60	55	1,234	0.0446	10.19%	10.19%	125.8	125.8	44%	44%
61	77	1,155	0.0667	10.19%	10.19%	117.7	117.7	65%	65%
62	122	1,028	0.1187	20.16%	15.31%	207.2	157.4	59%	78%
63	216	987	0.2188	15.08%	15.08%	148.9	148.9	145%	145%
64	413	3,118	0.1325	15.06%	15.06%	469.5	469.5	88%	88%
65	461	2,691	0.1713	20.04%	15.09%	539.4	406.0	85%	114%
66	423	2,124	0.1992	15.03%	15.03%	319.3	319.3	132%	132%
67	275	1,674	0.1643	15.04%	15.04%	251.7	251.7	109%	109%
68	221	1,392	0.1588	15.05%	15.05%	209.5	209.5	105%	105%
69	196	1,165	0.1682	15.04%	15.04%	175.3	175.3	112%	112%
70	181	999	0.1812	100.00%	25.30%	999.0	252.8	18%	72%
Subtotal	2,778	19,392				3,760.5	2,831.1	74%	98%
Other	757	4,256	0.1779	100.00%	25.30%	4,256.0	1,076.8	18%	70%
Total	3,535	23,648				8,016.5	3,907.8	44%	90%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - ELECTED RETIREMENT BENEFIT**

**TABLE 6B**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
43	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
44	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
45	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
46	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
47	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
48	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
49	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
50	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
51	0	0	N/A	15.00%	15.00%	0.0	0.0	0%	0%
52	1	7	0.1429	15.00%	15.00%	1.1	1.1	95%	95%
53	3	11	0.2727	15.00%	15.00%	1.7	1.7	182%	182%
54	0	9	0.0000	15.00%	15.00%	1.4	1.4	0%	0%
55	1	7	0.1429	15.00%	15.00%	1.1	1.1	95%	95%
56	6	12	0.5000	15.00%	15.00%	1.8	1.8	333%	333%
57	21	102	0.2059	15.00%	15.00%	15.3	15.3	137%	137%
58	5	77	0.0649	15.00%	15.00%	11.6	11.6	43%	43%
59	17	73	0.2329	15.00%	15.00%	11.0	11.0	155%	155%
60	6	47	0.1277	15.00%	15.00%	7.1	7.1	85%	85%
61	11	44	0.2500	15.00%	15.00%	6.6	6.6	167%	167%
62	13	32	0.4063	25.00%	25.00%	8.0	8.0	163%	163%
63	4	16	0.2500	20.00%	20.00%	3.2	3.2	125%	125%
64	2	36	0.0556	20.00%	20.00%	7.2	7.2	28%	28%
65	4	23	0.1739	25.00%	25.00%	5.8	5.8	70%	70%
66	4	14	0.2857	20.00%	20.00%	2.8	2.8	143%	143%
67	0	12	0.0000	20.00%	20.00%	2.4	2.4	0%	0%
68	2	14	0.1429	20.00%	20.00%	2.8	2.8	71%	71%
69	2	10	0.2000	20.00%	20.00%	2.0	2.0	100%	100%
70	2	4	0.5000	100.00%	100.00%	4.0	4.0	50%	50%
Subtotal	104	550				96.5	96.5	108%	108%
Other	0	7	0.0000	100.00%	100.00%	7.0	7.0	0%	0%
Total	104	557				103.5	103.5	100%	100%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN - MANDATED RETIREMENT BENEFIT**

**TABLE 6C**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
43	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
44	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
45	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
46	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
47	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
48	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
49	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
50	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
51	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
52	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
53	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
54	0	0	N/A	10.00%	10.00%	0.0	0.0	0%	0%
55	0	1	0.0000	10.00%	10.00%	0.1	0.1	0%	0%
56	0	1	0.0000	10.00%	10.00%	0.1	0.1	0%	0%
57	18	105	0.1714	10.00%	10.00%	10.5	10.5	171%	171%
58	28	101	0.2772	10.00%	10.00%	10.1	10.1	277%	277%
59	38	1,319	0.0288	10.00%	10.00%	131.9	131.9	29%	29%
60	49	1,187	0.0413	10.00%	10.00%	118.7	118.7	41%	41%
61	66	1,111	0.0594	10.00%	10.00%	111.1	111.1	59%	59%
62	109	996	0.1094	20.00%	15.00%	199.2	149.4	55%	73%
63	212	971	0.2183	15.00%	15.00%	145.7	145.7	146%	146%
64	411	3,082	0.1334	15.00%	15.00%	462.3	462.3	89%	89%
65	457	2,668	0.1713	20.00%	15.00%	533.6	400.2	86%	114%
66	419	2,110	0.1986	15.00%	15.00%	316.5	316.5	132%	132%
67	275	1,662	0.1655	15.00%	15.00%	249.3	249.3	110%	110%
68	219	1,378	0.1589	15.00%	15.00%	206.7	206.7	106%	106%
69	194	1,155	0.1680	15.00%	15.00%	173.3	173.3	112%	112%
70	179	995	0.1799	100.00%	25.00%	995.0	248.8	18%	72%
Subtotal	2,674	18,842				3,664.0	2,734.6	73%	98%
Other	757	4,249	0.1782	100.00%	25.00%	4,249.0	1,062.3	18%	71%
Total	3,431	23,091				7,913.0	3,796.8	43%	90%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH UNREDUCED SERVICE  
TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 6D Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	2,539	500	958.4	52%	19.69%	37.75%
2005	2,524	447	943.7	47%	17.71%	37.39%
2006	3,081	464	1,094.2	42%	15.06%	35.51%
2007	2,952	599	1,020.3	59%	20.29%	34.56%
2008	3,079	423	1,017.7	42%	13.74%	33.05%
2009	3,380	502	1,086.1	46%	14.85%	32.13%
2010	4,678	454	1,293.4	35%	9.71%	27.65%
2011	5,099	720	1,400.9	51%	14.12%	27.47%
2012	5,302	653	1,423.1	46%	12.32%	26.84%
2013	5,258	569	1,452.9	39%	10.82%	27.63%
Total	37,892	5,331	11,690.5	46%	14.07%	30.85%



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

**TABLE 7A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
47	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
50	4	4	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
51	3	3	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
52	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
53	2	2	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
54	13	13	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
55	75	1,198	0.0626	2.00%	4.00%	24.0	47.9	313%	157%
56	54	1,238	0.0436	2.00%	4.00%	24.8	49.5	218%	109%
57	64	1,304	0.0491	2.00%	4.00%	26.1	52.2	245%	123%
58	72	1,321	0.0545	2.00%	4.00%	26.4	52.8	273%	136%
59	70	1,310	0.0534	3.00%	4.00%	39.3	52.4	178%	134%
60	91	1,320	0.0689	4.00%	4.50%	52.8	59.4	172%	153%
61	50	1,201	0.0416	5.00%	5.00%	60.1	60.1	83%	83%
62	29	29	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
63	31	31	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
64	18	18	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
65	25	25	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
66	15	15	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
67	20	20	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
68	3	3	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
69	6	6	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
70	2	2	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	647	9,063				253.4	374.3	255%	173%
Other	16	16	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
Total	663	9,079				253.4	374.3	262%	177%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

**TABLE 7A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
41	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
42	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
43	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
44	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
45	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
46	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
47	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
48	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
49	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
50	7	7	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
51	6	6	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
52	1	1	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
53	7	7	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
54	69	69	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
55	217	3,713	0.0584	2.00%	4.00%	74.3	148.5	292%	146%
56	230	3,862	0.0596	2.00%	4.00%	77.2	154.5	298%	149%
57	250	4,745	0.0527	2.00%	4.00%	94.9	189.8	263%	132%
58	226	4,608	0.0490	2.00%	4.00%	92.2	184.3	245%	123%
59	274	4,679	0.0586	3.00%	4.00%	140.4	187.2	195%	146%
60	279	4,453	0.0627	4.00%	4.50%	178.1	200.4	157%	139%
61	396	4,173	0.0949	5.00%	5.00%	208.7	208.7	190%	190%
62	98	98	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
63	42	42	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
64	33	33	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
65	37	37	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
66	29	29	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
67	37	37	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
68	13	13	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
69	13	13	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
70	10	10	1.0000	0.00%	0.00%	0.0	0.0	0%	0%
Subtotal	2,279	30,640				865.7	1,273.3	263%	179%
Other	66	66	1.0000	100.00%	0.00%	66.0	0.0	100%	0%
Total	2,345	30,706				931.7	1,273.3	252%	184%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
RETIREMENT EXPERIENCE OF ACTIVE MEMBERS WITH REDUCED SERVICE  
TOTAL - MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Retirements	Expected Retirements	Actual / Expected	Retirement Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	3,516	265	96.8	274%	7.54%	2.75%
2005	3,638	260	98.3	264%	7.15%	2.70%
2006	3,869	298	101.4	294%	7.70%	2.62%
2007	3,692	381	97.2	392%	10.32%	2.63%
2008	3,470	245	92.9	264%	7.06%	2.68%
2009	3,442	233	92.6	252%	6.77%	2.69%
2010	2,398	208	66.0	315%	8.67%	2.75%
2011	2,266	201	62.9	320%	8.87%	2.78%
2012	2,083	150	58.6	256%	7.20%	2.81%
2013	2,332	104	65.5	159%	4.46%	2.81%
Total	30,706	2,345	832.3	282%	7.64%	2.71%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	16	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	38	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	61	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	0	89	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
24	0	120	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
25	0	121	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
26	0	136	0.00000	0.044%	0.044%	0.1	0.1	0%	0%
27	0	162	0.00000	0.048%	0.048%	0.1	0.1	0%	0%
28	0	254	0.00000	0.052%	0.052%	0.1	0.1	0%	0%
29	0	260	0.00000	0.056%	0.056%	0.1	0.1	0%	0%
30	0	298	0.00000	0.060%	0.060%	0.2	0.2	0%	0%
31	1	326	0.00307	0.064%	0.064%	0.2	0.2	479%	479%
32	0	300	0.00000	0.068%	0.068%	0.2	0.2	0%	0%
33	0	334	0.00000	0.072%	0.072%	0.2	0.2	0%	0%
34	0	386	0.00000	0.076%	0.076%	0.3	0.3	0%	0%
35	0	410	0.00000	0.080%	0.080%	0.3	0.3	0%	0%
36	0	465	0.00000	0.084%	0.084%	0.4	0.4	0%	0%
37	0	475	0.00000	0.088%	0.088%	0.4	0.4	0%	0%
38	0	472	0.00000	0.092%	0.092%	0.4	0.4	0%	0%
39	0	500	0.00000	0.096%	0.096%	0.5	0.5	0%	0%
40	0	465	0.00000	0.100%	0.100%	0.5	0.5	0%	0%
41	0	520	0.00000	0.110%	0.110%	0.6	0.6	0%	0%
42	1	581	0.00172	0.120%	0.120%	0.7	0.7	143%	143%
43	1	586	0.00171	0.130%	0.130%	0.8	0.8	131%	131%
44	0	624	0.00000	0.140%	0.140%	0.9	0.9	0%	0%
45	0	639	0.00000	0.150%	0.150%	1.0	1.0	0%	0%
46	1	651	0.00154	0.160%	0.160%	1.0	1.0	96%	96%
47	2	677	0.00295	0.170%	0.170%	1.2	1.2	174%	174%
48	3	709	0.00423	0.180%	0.180%	1.3	1.3	235%	235%
49	0	732	0.00000	0.190%	0.190%	1.4	1.4	0%	0%
50	0	751	0.00000	0.200%	0.200%	1.5	1.5	0%	0%
51	0	789	0.00000	0.220%	0.220%	1.7	1.7	0%	0%
52	2	797	0.00251	0.240%	0.240%	1.9	1.9	105%	105%
53	1	789	0.00127	0.260%	0.260%	2.1	2.1	49%	49%
54	3	761	0.00394	0.280%	0.280%	2.1	2.1	141%	141%
55	2	738	0.00271	0.300%	0.300%	2.2	2.2	90%	90%
56	1	719	0.00139	0.320%	0.320%	2.3	2.3	43%	43%
57	2	695	0.00288	0.340%	0.340%	2.4	2.4	85%	85%
58	1	662	0.00151	0.360%	0.360%	2.4	2.4	42%	42%
59	0	622	0.00000	0.380%	0.380%	2.4	2.4	0%	0%
60	0	552	0.00000	0.400%	0.400%	2.2	2.2	0%	0%
61	2	533	0.00375	0.420%	0.420%	2.2	2.2	89%	89%
62	2	464	0.00431	0.440%	0.440%	2.0	2.0	98%	98%
63	1	388	0.00258	0.460%	0.460%	1.8	1.8	56%	56%
64	2	318	0.00629	0.480%	0.480%	1.5	1.5	131%	131%
65	0	252	0.00000	0.500%	0.500%	1.3	1.3	0%	0%
66	1	220	0.00455	0.540%	0.540%	1.2	1.2	84%	84%
67	0	175	0.00000	0.580%	0.580%	1.0	1.0	0%	0%
68	0	133	0.00000	0.620%	0.620%	0.8	0.8	0%	0%
69	0	126	0.00000	0.660%	0.660%	0.8	0.8	0%	0%
70	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
71	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
72	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
73	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
74	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
Other	0	3	0.00000	0.000%	0.000%	0.0	0.0	0%	0%
Total	29	21,894				48.8	48.8	59%	59%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	16	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
21	0	29	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
22	0	63	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
23	0	102	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
24	0	151	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
25	0	208	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
26	0	279	0.00000	0.032%	0.032%	0.1	0.1	0%	0%
27	0	349	0.00000	0.034%	0.034%	0.1	0.1	0%	0%
28	0	436	0.00000	0.036%	0.036%	0.2	0.2	0%	0%
29	0	544	0.00000	0.038%	0.038%	0.2	0.2	0%	0%
30	0	617	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
31	0	647	0.00000	0.042%	0.042%	0.3	0.3	0%	0%
32	0	704	0.00000	0.044%	0.044%	0.3	0.3	0%	0%
33	1	757	0.00132	0.046%	0.046%	0.3	0.3	287%	287%
34	0	838	0.00000	0.048%	0.048%	0.4	0.4	0%	0%
35	0	904	0.00000	0.050%	0.050%	0.5	0.5	0%	0%
36	0	902	0.00000	0.052%	0.052%	0.5	0.5	0%	0%
37	2	945	0.00212	0.054%	0.054%	0.5	0.5	392%	392%
38	0	1,037	0.00000	0.056%	0.056%	0.6	0.6	0%	0%
39	0	1,139	0.00000	0.058%	0.058%	0.7	0.7	0%	0%
40	0	1,213	0.00000	0.060%	0.060%	0.7	0.7	0%	0%
41	0	1,290	0.00000	0.068%	0.068%	0.9	0.9	0%	0%
42	0	1,384	0.00000	0.076%	0.076%	1.1	1.1	0%	0%
43	0	1,508	0.00000	0.084%	0.084%	1.3	1.3	0%	0%
44	0	1,766	0.00000	0.092%	0.092%	1.6	1.6	0%	0%
45	0	2,002	0.00000	0.100%	0.100%	2.0	2.0	0%	0%
46	1	2,162	0.00046	0.110%	0.110%	2.4	2.4	42%	42%
47	1	2,409	0.00042	0.120%	0.120%	2.9	2.9	35%	35%
48	1	2,419	0.00041	0.130%	0.130%	3.1	3.1	32%	32%
49	1	2,566	0.00039	0.140%	0.140%	3.6	3.6	28%	28%
50	1	2,676	0.00037	0.150%	0.150%	4.0	4.0	25%	25%
51	2	2,801	0.00071	0.160%	0.160%	4.5	4.5	45%	45%
52	0	2,935	0.00000	0.170%	0.170%	5.0	5.0	0%	0%
53	3	3,034	0.00099	0.180%	0.180%	5.5	5.5	55%	55%
54	3	3,049	0.00098	0.190%	0.190%	5.8	5.8	52%	52%
55	1	3,024	0.00033	0.200%	0.200%	6.0	6.0	17%	17%
56	0	2,978	0.00000	0.210%	0.210%	6.3	6.3	0%	0%
57	0	2,913	0.00000	0.220%	0.220%	6.4	6.4	0%	0%
58	2	2,784	0.00072	0.230%	0.230%	6.4	6.4	31%	31%
59	7	2,664	0.00263	0.240%	0.240%	6.4	6.4	109%	109%
60	5	2,499	0.00200	0.250%	0.250%	6.2	6.2	80%	80%
61	0	2,320	0.00000	0.260%	0.260%	6.0	6.0	0%	0%
62	1	2,228	0.00045	0.270%	0.270%	6.0	6.0	17%	17%
63	4	1,781	0.00225	0.280%	0.280%	5.0	5.0	80%	80%
64	2	1,510	0.00132	0.290%	0.290%	4.4	4.4	46%	46%
65	1	1,279	0.00078	0.300%	0.300%	3.8	3.8	26%	26%
66	3	1,003	0.00299	0.320%	0.320%	3.2	3.2	93%	93%
67	2	780	0.00256	0.340%	0.340%	2.7	2.7	75%	75%
68	3	638	0.00470	0.360%	0.360%	2.3	2.3	131%	131%
69	2	538	0.00372	0.380%	0.380%	2.0	2.0	98%	98%
70	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
71	1	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
72	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
73	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
74	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
Other	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
<b>Total</b>	<b>50</b>	<b>72,820</b>				<b>122.5</b>	<b>122.5</b>	<b>41%</b>	<b>41%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	324	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
25-29	0	933	0.00000	0.050%	0.050%	0.5	0.5	0%	0%
30-34	1	1,644	0.00061	0.068%	0.068%	1.1	1.1	89%	89%
35-39	0	2,322	0.00000	0.088%	0.088%	2.1	2.1	0%	0%
40-44	2	2,776	0.00072	0.121%	0.121%	3.4	3.4	59%	59%
45-49	6	3,408	0.00176	0.171%	0.171%	5.8	5.8	103%	103%
50-54	6	3,887	0.00154	0.240%	0.240%	9.3	9.3	64%	64%
55-59	6	3,436	0.00175	0.338%	0.338%	11.6	11.6	52%	52%
60-64	7	2,255	0.00310	0.435%	0.435%	9.8	9.8	71%	71%
65-69	1	906	0.00110	0.565%	0.565%	5.1	5.1	20%	20%
70-74	0	0	N/A	0.000%		0.0	0.0	0%	0%
Other	0	3	0.00000	0.000%	0.000%	0.0	0.0	0%	0%
Total	29	21,894				48.8	48.8	59%	59%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	361	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
25-29	0	1,816	0.00000	0.035%	0.035%	0.6	0.6	0%	0%
30-34	1	3,563	0.00028	0.044%	0.044%	1.6	1.6	63%	63%
35-39	2	4,927	0.00041	0.054%	0.054%	2.7	2.7	75%	75%
40-44	0	7,161	0.00000	0.077%	0.077%	5.5	5.5	0%	0%
45-49	4	11,558	0.00035	0.121%	0.121%	14.0	14.0	29%	29%
50-54	9	14,495	0.00062	0.171%	0.171%	24.7	24.7	36%	36%
55-59	10	14,363	0.00070	0.219%	0.219%	31.5	31.5	32%	32%
60-64	12	10,338	0.00116	0.268%	0.268%	27.7	27.7	43%	43%
65-69	11	4,238	0.00260	0.331%	0.331%	14.0	14.0	78%	78%
70-74	1	0	N/A	0.000%		0.0	0.0	0%	0%
Other	0	0	N/A	0.000%		0.0	0.0	0%	0%
Total	50	72,820				122.5	122.5	41%	41%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	34	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
21	0	69	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	103	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
23	0	158	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
24	0	206	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
25	0	239	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
26	0	303	0.00000	0.044%	0.044%	0.1	0.1	0%	0%
27	0	404	0.00000	0.048%	0.048%	0.2	0.2	0%	0%
28	0	499	0.00000	0.052%	0.052%	0.3	0.3	0%	0%
29	0	564	0.00000	0.056%	0.056%	0.3	0.3	0%	0%
30	0	620	0.00000	0.060%	0.060%	0.4	0.4	0%	0%
31	1	668	0.00150	0.064%	0.064%	0.4	0.4	234%	234%
32	0	684	0.00000	0.068%	0.068%	0.5	0.5	0%	0%
33	0	783	0.00000	0.072%	0.072%	0.6	0.6	0%	0%
34	1	868	0.00115	0.076%	0.076%	0.7	0.7	152%	152%
35	1	918	0.00109	0.080%	0.080%	0.7	0.7	136%	136%
36	1	1,069	0.00094	0.084%	0.084%	0.9	0.9	111%	111%
37	0	1,056	0.00000	0.088%	0.088%	0.9	0.9	0%	0%
38	0	1,118	0.00000	0.092%	0.092%	1.0	1.0	0%	0%
39	0	1,209	0.00000	0.096%	0.096%	1.2	1.2	0%	0%
40	0	1,226	0.00000	0.100%	0.100%	1.2	1.2	0%	0%
41	0	1,282	0.00000	0.110%	0.110%	1.4	1.4	0%	0%
42	1	1,404	0.00071	0.120%	0.120%	1.7	1.7	59%	59%
43	2	1,492	0.00134	0.130%	0.130%	1.9	1.9	103%	103%
44	3	1,591	0.00189	0.140%	0.140%	2.2	2.2	135%	135%
45	0	1,638	0.00000	0.150%	0.150%	2.5	2.5	0%	0%
46	3	1,724	0.00174	0.160%	0.160%	2.8	2.8	109%	109%
47	4	1,746	0.00229	0.170%	0.170%	3.0	3.0	135%	135%
48	4	1,807	0.00221	0.180%	0.180%	3.3	3.3	123%	123%
49	0	1,824	0.00000	0.190%	0.190%	3.5	3.5	0%	0%
50	4	1,790	0.00223	0.200%	0.200%	3.6	3.6	112%	112%
51	4	1,837	0.00218	0.220%	0.220%	4.0	4.0	99%	99%
52	4	1,817	0.00220	0.240%	0.240%	4.4	4.4	92%	92%
53	4	1,847	0.00217	0.260%	0.260%	4.8	4.8	83%	83%
54	7	1,777	0.00394	0.280%	0.280%	5.0	5.0	141%	141%
55	4	1,715	0.00233	0.300%	0.300%	5.1	5.1	78%	78%
56	1	1,626	0.00062	0.320%	0.320%	5.2	5.2	19%	19%
57	6	1,529	0.00392	0.340%	0.340%	5.2	5.2	115%	115%
58	5	1,416	0.00353	0.360%	0.360%	5.1	5.1	98%	98%
59	3	1,381	0.00217	0.380%	0.380%	5.2	5.2	57%	57%
60	2	1,237	0.00162	0.400%	0.400%	4.9	4.9	40%	40%
61	6	1,154	0.00520	0.420%	0.420%	4.8	4.8	124%	124%
62	2	988	0.00202	0.440%	0.440%	4.3	4.3	46%	46%
63	2	803	0.00249	0.460%	0.460%	3.7	3.7	54%	54%
64	3	679	0.00442	0.480%	0.480%	3.3	3.3	92%	92%
65	1	560	0.00179	0.500%	0.500%	2.8	2.8	36%	36%
66	2	470	0.00426	0.540%	0.540%	2.5	2.5	79%	79%
67	5	390	0.01282	0.580%	0.580%	2.3	2.3	221%	221%
68	2	305	0.00656	0.620%	0.620%	1.9	1.9	106%	106%
69	0	266	0.00000	0.660%	0.660%	1.8	1.8	0%	0%
70	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
71	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
72	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
73	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
74	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
Other	4	9	0.44444	0.000%	0.000%	0.0	0.0	0%	0%
Total	92	50,902				111.8	111.8	82%	82%



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	32	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
21	0	60	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
22	0	112	0.00000	0.030%	0.030%	0.0	0.0	0%	0%
23	0	184	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
24	0	324	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
25	0	451	0.00000	0.030%	0.030%	0.1	0.1	0%	0%
26	0	617	0.00000	0.032%	0.032%	0.2	0.2	0%	0%
27	0	788	0.00000	0.034%	0.034%	0.3	0.3	0%	0%
28	0	1,014	0.00000	0.036%	0.036%	0.4	0.4	0%	0%
29	0	1,213	0.00000	0.038%	0.038%	0.5	0.5	0%	0%
30	0	1,376	0.00000	0.040%	0.040%	0.6	0.6	0%	0%
31	0	1,529	0.00000	0.042%	0.042%	0.6	0.6	0%	0%
32	0	1,591	0.00000	0.044%	0.044%	0.7	0.7	0%	0%
33	1	1,699	0.00059	0.046%	0.046%	0.8	0.8	128%	128%
34	0	1,890	0.00000	0.048%	0.048%	0.9	0.9	0%	0%
35	0	2,058	0.00000	0.050%	0.050%	1.0	1.0	0%	0%
36	0	2,217	0.00000	0.052%	0.052%	1.2	1.2	0%	0%
37	2	2,343	0.00085	0.054%	0.054%	1.3	1.3	158%	158%
38	3	2,599	0.00115	0.056%	0.056%	1.5	1.5	206%	206%
39	1	2,874	0.00035	0.058%	0.058%	1.7	1.7	60%	60%
40	0	3,174	0.00000	0.060%	0.060%	1.9	1.9	0%	0%
41	2	3,520	0.00057	0.068%	0.068%	2.4	2.4	84%	84%
42	0	3,901	0.00000	0.076%	0.076%	3.0	3.0	0%	0%
43	2	4,287	0.00047	0.084%	0.084%	3.6	3.6	56%	56%
44	2	4,771	0.00042	0.092%	0.092%	4.4	4.4	46%	46%
45	2	5,241	0.00038	0.100%	0.100%	5.2	5.2	38%	38%
46	4	5,598	0.00071	0.110%	0.110%	6.2	6.2	65%	65%
47	8	5,975	0.00134	0.120%	0.120%	7.2	7.2	112%	112%
48	3	6,206	0.00048	0.130%	0.130%	8.1	8.1	37%	37%
49	5	6,490	0.00077	0.140%	0.140%	9.1	9.1	55%	55%
50	5	6,747	0.00074	0.150%	0.150%	10.1	10.1	49%	49%
51	6	6,913	0.00087	0.160%	0.160%	11.1	11.1	54%	54%
52	6	7,067	0.00085	0.170%	0.170%	12.0	12.0	50%	50%
53	4	7,196	0.00056	0.180%	0.180%	13.0	13.0	31%	31%
54	6	7,281	0.00082	0.190%	0.190%	13.8	13.8	43%	43%
55	4	7,117	0.00056	0.200%	0.200%	14.2	14.2	28%	28%
56	6	7,121	0.00084	0.210%	0.210%	15.0	15.0	40%	40%
57	11	6,839	0.00161	0.220%	0.220%	15.0	15.0	73%	73%
58	12	6,461	0.00186	0.230%	0.230%	14.9	14.9	81%	81%
59	17	6,333	0.00268	0.240%	0.240%	15.2	15.2	112%	112%
60	11	5,857	0.00188	0.250%	0.250%	14.6	14.6	75%	75%
61	10	5,517	0.00181	0.260%	0.260%	14.3	14.3	70%	70%
62	9	4,919	0.00183	0.270%	0.270%	13.3	13.3	68%	68%
63	10	3,975	0.00252	0.280%	0.280%	11.1	11.1	90%	90%
64	6	3,278	0.00183	0.290%	0.290%	9.5	9.5	63%	63%
65	8	2,819	0.00284	0.300%	0.300%	8.5	8.5	95%	95%
66	5	2,192	0.00228	0.320%	0.320%	7.0	7.0	71%	71%
67	5	1,724	0.00290	0.340%	0.340%	5.9	5.9	85%	85%
68	3	1,416	0.00212	0.360%	0.360%	5.1	5.1	59%	59%
69	2	1,174	0.00170	0.380%	0.380%	4.5	4.5	45%	45%
70	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
71	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
72	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
73	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
74	0	0	N/A	0.000%	0.000%	0.0	0.0	0%	0%
Other	10	12	0.83333	0.000%	0.000%	0.0	0.0	0%	0%
Total	191	176,092				290.8	290.8	66%	66%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 8A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/ Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	570	0.00000	0.040%	0.040%	0.2	0.2	0%	0%
25-29	0	2,009	0.00000	0.050%	0.050%	1.0	1.0	0%	0%
30-34	2	3,623	0.00055	0.069%	0.069%	2.5	2.5	80%	80%
35-39	2	5,370	0.00037	0.088%	0.088%	4.8	4.8	42%	42%
40-44	6	6,995	0.00086	0.121%	0.121%	8.5	8.5	71%	71%
45-49	11	8,739	0.00126	0.171%	0.171%	14.9	14.9	74%	74%
50-54	23	9,068	0.00254	0.240%	0.240%	21.8	21.8	106%	106%
55-59	19	7,667	0.00248	0.338%	0.338%	25.9	25.9	73%	73%
60-64	15	4,861	0.00309	0.434%	0.434%	21.1	21.1	71%	71%
65-69	10	1,991	0.00502	0.565%	0.565%	11.2	11.2	89%	89%
70-74	0	0	N/A	0.000%		0.0	0.0	0%	0%
Other	4	9	0.44444	0.000%	0.000%	0.0	0.0	0%	0%
Total	92	50,902				111.8	111.8	82%	82%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 8B GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/ Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	712	0.00000	0.030%	0.030%	0.2	0.2	0%	0%
25-29	0	4,083	0.00000	0.035%	0.035%	1.4	1.4	0%	0%
30-34	1	8,085	0.00012	0.044%	0.044%	3.6	3.6	28%	28%
35-39	6	12,091	0.00050	0.054%	0.054%	6.6	6.6	91%	91%
40-44	6	19,653	0.00031	0.078%	0.078%	15.3	15.3	39%	39%
45-49	22	29,510	0.00075	0.121%	0.121%	35.7	35.7	62%	62%
50-54	27	35,204	0.00077	0.170%	0.170%	60.0	60.0	45%	45%
55-59	50	33,871	0.00148	0.219%	0.219%	74.3	74.3	67%	67%
60-64	46	23,546	0.00195	0.267%	0.267%	62.9	62.9	73%	73%
65-69	23	9,325	0.00247	0.331%	0.331%	30.9	30.9	74%	74%
70-74	0	0	N/A	0.000%		0.0	0.0	0%	0%
Other	10	12	0.83333	0.000%	0.000%	0.0	0.0	0%	0%
<b>Total</b>	<b>191</b>	<b>176,092</b>				<b>290.8</b>	<b>290.8</b>	<b>66%</b>	<b>66%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 8C Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual/ Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	21,879	57	36.7	155%	0.261%	0.168%
2005	20,816	18	36.2	50%	0.086%	0.174%
2006	22,417	62	39.6	157%	0.277%	0.177%
2007	22,747	56	39.7	141%	0.246%	0.175%
2008	21,830	28	38.8	72%	0.128%	0.178%
2009	22,588	8	40.4	20%	0.035%	0.179%
2010	22,668	0	41.1	0%	0.000%	0.181%
2011	22,633	36	41.6	86%	0.159%	0.184%
2012	22,450	27	41.6	65%	0.120%	0.185%
2013	26,966	20	47.1	42%	0.074%	0.175%
Total	226,994	312	402.7	77%	0.137%	0.177%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 9A				4-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.20%	0.17%	0.0	0.0	0%	0%
21	0	0	N/A	0.20%	0.17%	0.0	0.0	0%	0%
22	0	0	N/A	0.20%	0.17%	0.0	0.0	0%	0%
23	0	4	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
24	0	1	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
25	0	2	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
26	0	4	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
27	0	16	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
28	0	36	0.0000	0.20%	0.17%	0.1	0.1	0%	0%
29	0	56	0.0000	0.20%	0.17%	0.1	0.1	0%	0%
30	0	72	0.0000	0.20%	0.17%	0.1	0.1	0%	0%
31	0	87	0.0000	0.22%	0.19%	0.2	0.2	0%	0%
32	0	93	0.0000	0.24%	0.20%	0.2	0.2	0%	0%
33	0	126	0.0000	0.26%	0.22%	0.3	0.3	0%	0%
34	0	145	0.0000	0.28%	0.24%	0.4	0.3	0%	0%
35	0	170	0.0000	0.30%	0.26%	0.5	0.4	0%	0%
36	0	177	0.0000	0.32%	0.27%	0.6	0.5	0%	0%
37	0	199	0.0000	0.34%	0.29%	0.7	0.6	0%	0%
38	0	210	0.0000	0.36%	0.31%	0.8	0.6	0%	0%
39	0	257	0.0000	0.38%	0.32%	1.0	0.8	0%	0%
40	0	313	0.0000	0.40%	0.34%	1.3	1.1	0%	0%
41	0	318	0.0000	0.42%	0.36%	1.3	1.1	0%	0%
42	1	359	0.0028	0.44%	0.37%	1.6	1.3	63%	74%
43	0	391	0.0000	0.46%	0.39%	1.8	1.5	0%	0%
44	0	400	0.0000	0.48%	0.41%	1.9	1.6	0%	0%
45	2	426	0.0047	0.50%	0.43%	2.1	1.8	94%	110%
46	0	457	0.0000	0.52%	0.44%	2.4	2.0	0%	0%
47	2	479	0.0042	0.54%	0.46%	2.6	2.2	77%	91%
48	2	550	0.0036	0.56%	0.48%	3.1	2.6	65%	76%
49	2	586	0.0034	0.58%	0.49%	3.4	2.9	59%	69%
50	0	617	0.0000	0.60%	0.51%	3.7	3.1	0%	0%
51	2	608	0.0033	0.62%	0.53%	3.8	3.2	53%	62%
52	2	586	0.0034	0.64%	0.54%	3.8	3.2	53%	63%
53	2	570	0.0035	0.66%	0.56%	3.8	3.2	53%	63%
54	3	578	0.0052	0.68%	0.58%	3.9	3.3	76%	90%
55	2	574	0.0035	0.70%	0.60%	4.0	3.4	50%	59%
56	1	549	0.0018	0.70%	0.60%	3.8	3.3	26%	31%
57	1	540	0.0019	0.70%	0.60%	3.8	3.2	26%	31%
58	2	493	0.0041	0.70%	0.60%	3.5	2.9	58%	68%
59	0	460	0.0000	0.70%	0.60%	3.2	2.7	0%	0%
60	2	452	0.0044	0.70%	0.60%	3.2	2.7	63%	74%
61	3	399	0.0075	0.70%	0.60%	2.8	2.4	107%	126%
62	2	346	0.0058	0.70%	0.60%	2.4	2.1	83%	97%
63	1	272	0.0037	0.70%	0.60%	1.9	1.6	53%	62%
64	0	225	0.0000	0.70%	0.60%	1.6	1.3	0%	0%
65	0	201	0.0000	0.70%	0.60%	1.4	1.2	0%	0%
66	0	161	0.0000	0.70%	0.60%	1.1	1.0	0%	0%
67	0	133	0.0000	0.70%	0.60%	0.9	0.8	0%	0%
68	1	103	0.0097	0.70%	0.60%	0.7	0.6	139%	163%
69	0	84	0.0000	0.70%	0.60%	0.6	0.5	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	1	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
<b>Total</b>	<b>34</b>	<b>13,885</b>				<b>80.3</b>	<b>68.3</b>	<b>42%</b>	<b>50%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

TABLE 9B				4-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.20%	0.14%	0.0	0.0	0%	0%
21	0	0	N/A	0.20%	0.14%	0.0	0.0	0%	0%
22	0	0	N/A	0.20%	0.14%	0.0	0.0	0%	0%
23	0	1	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
24	0	6	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
25	0	12	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
26	0	21	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
27	0	35	0.0000	0.20%	0.14%	0.1	0.0	0%	0%
28	0	68	0.0000	0.20%	0.14%	0.1	0.1	0%	0%
29	0	96	0.0000	0.20%	0.14%	0.2	0.1	0%	0%
30	0	146	0.0000	0.20%	0.14%	0.3	0.2	0%	0%
31	0	193	0.0000	0.20%	0.14%	0.4	0.3	0%	0%
32	0	254	0.0000	0.20%	0.14%	0.5	0.4	0%	0%
33	0	290	0.0000	0.20%	0.14%	0.6	0.4	0%	0%
34	0	343	0.0000	0.20%	0.14%	0.7	0.5	0%	0%
35	1	372	0.0027	0.20%	0.14%	0.7	0.5	134%	192%
36	0	407	0.0000	0.21%	0.15%	0.9	0.6	0%	0%
37	0	481	0.0000	0.22%	0.15%	1.1	0.7	0%	0%
38	0	534	0.0000	0.23%	0.16%	1.2	0.9	0%	0%
39	0	570	0.0000	0.24%	0.17%	1.4	1.0	0%	0%
40	0	633	0.0000	0.25%	0.18%	1.6	1.1	0%	0%
41	0	714	0.0000	0.26%	0.18%	1.9	1.3	0%	0%
42	1	865	0.0012	0.27%	0.19%	2.3	1.6	43%	61%
43	0	1,007	0.0000	0.28%	0.20%	2.8	2.0	0%	0%
44	2	1,136	0.0018	0.29%	0.20%	3.3	2.3	61%	87%
45	0	1,330	0.0000	0.30%	0.21%	4.0	2.8	0%	0%
46	0	1,419	0.0000	0.34%	0.24%	4.8	3.4	0%	0%
47	0	1,562	0.0000	0.38%	0.27%	5.9	4.2	0%	0%
48	1	1,680	0.0006	0.42%	0.29%	7.1	4.9	14%	20%
49	1	1,849	0.0005	0.46%	0.32%	8.5	6.0	12%	17%
50	3	2,018	0.0015	0.50%	0.35%	10.1	7.1	30%	42%
51	6	2,107	0.0028	0.54%	0.38%	11.4	8.0	53%	75%
52	2	2,198	0.0009	0.58%	0.41%	12.7	8.9	16%	22%
53	3	2,225	0.0013	0.62%	0.43%	13.8	9.7	22%	31%
54	9	2,317	0.0039	0.66%	0.46%	15.3	10.7	59%	84%
55	5	2,348	0.0021	0.70%	0.49%	16.4	11.5	30%	43%
56	8	2,315	0.0035	0.70%	0.49%	16.2	11.3	49%	71%
57	5	2,298	0.0022	0.70%	0.49%	16.1	11.3	31%	44%
58	4	2,203	0.0018	0.70%	0.49%	15.4	10.8	26%	37%
59	4	2,114	0.0019	0.70%	0.49%	14.8	10.4	27%	39%
60	7	2,137	0.0033	0.70%	0.49%	15.0	10.5	47%	67%
61	13	2,039	0.0064	0.70%	0.49%	14.3	10.0	91%	130%
62	7	1,830	0.0038	0.70%	0.49%	12.8	9.0	55%	78%
63	10	1,473	0.0068	0.70%	0.49%	10.3	7.2	97%	139%
64	5	1,183	0.0042	0.70%	0.49%	8.3	5.8	60%	86%
65	3	1,034	0.0029	0.70%	0.49%	7.2	5.1	41%	59%
66	0	821	0.0000	0.70%	0.49%	5.7	4.0	0%	0%
67	1	678	0.0015	0.70%	0.49%	4.7	3.3	21%	30%
68	1	540	0.0019	0.70%	0.49%	3.8	2.6	26%	38%
69	3	450	0.0067	0.70%	0.49%	3.2	2.2	95%	136%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	3	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	108	50,352				277.9	194.5	39%	56%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 9A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	5	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
25-29	0	114	0.0000	0.20%	0.17%	0.2	0.2	0%	0%
30-34	0	523	0.0000	0.25%	0.21%	1.3	1.1	0%	0%
35-39	0	1,013	0.0000	0.34%	0.29%	3.5	3.0	0%	0%
40-44	1	1,781	0.0006	0.44%	0.38%	7.9	6.7	13%	15%
45-49	8	2,498	0.0032	0.54%	0.46%	13.6	11.5	59%	69%
50-54	9	2,959	0.0030	0.64%	0.54%	18.9	16.1	48%	56%
55-59	6	2,616	0.0023	0.70%	0.60%	18.3	15.6	33%	39%
60-64	8	1,694	0.0047	0.70%	0.60%	11.9	10.1	67%	79%
65-69	1	682	0.0015	0.70%	0.60%	4.8	4.1	21%	25%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	1	0	N/A	0.00%		0.0	0.0	0%	0%
<b>Total</b>	<b>34</b>	<b>13,885</b>				<b>80.3</b>	<b>68.3</b>	<b>42%</b>	<b>50%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 9B GROUPED**

Age	Actual Disabilities	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	7	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
25-29	0	232	0.0000	0.20%	0.14%	0.5	0.3	0%	0%
30-34	0	1,226	0.0000	0.20%	0.14%	2.5	1.7	0%	0%
35-39	1	2,364	0.0004	0.22%	0.16%	5.3	3.7	19%	27%
40-44	3	4,355	0.0007	0.27%	0.19%	11.9	8.3	25%	36%
45-49	2	7,840	0.0003	0.39%	0.27%	30.3	21.2	7%	9%
50-54	23	10,865	0.0021	0.58%	0.41%	63.3	44.3	36%	52%
55-59	26	11,278	0.0023	0.70%	0.49%	78.9	55.3	33%	47%
60-64	42	8,662	0.0048	0.70%	0.49%	60.6	42.4	69%	99%
65-69	8	3,523	0.0023	0.70%	0.49%	24.7	17.3	32%	46%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	3	0	N/A	0.00%		0.0	0.0	0%	0%
<b>Total</b>	<b>108</b>	<b>50,352</b>				<b>277.9</b>	<b>194.5</b>	<b>39%</b>	<b>56%</b>



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 9A				8-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.20%	0.17%	0.0	0.0	0%	0%
21	0	0	N/A	0.20%	0.17%	0.0	0.0	0%	0%
22	0	0	N/A	0.20%	0.17%	0.0	0.0	0%	0%
23	0	5	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
24	0	3	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
25	0	12	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
26	0	24	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
27	0	44	0.0000	0.20%	0.17%	0.1	0.1	0%	0%
28	0	60	0.0000	0.20%	0.17%	0.1	0.1	0%	0%
29	0	100	0.0000	0.20%	0.17%	0.2	0.2	0%	0%
30	0	130	0.0000	0.20%	0.17%	0.3	0.2	0%	0%
31	0	154	0.0000	0.22%	0.19%	0.3	0.3	0%	0%
32	0	182	0.0000	0.24%	0.20%	0.4	0.4	0%	0%
33	0	231	0.0000	0.26%	0.22%	0.6	0.5	0%	0%
34	0	276	0.0000	0.28%	0.24%	0.8	0.7	0%	0%
35	0	310	0.0000	0.30%	0.26%	0.9	0.8	0%	0%
36	0	395	0.0000	0.32%	0.27%	1.3	1.1	0%	0%
37	0	413	0.0000	0.34%	0.29%	1.4	1.2	0%	0%
38	1	465	0.0022	0.36%	0.31%	1.7	1.4	60%	70%
39	1	567	0.0018	0.38%	0.32%	2.2	1.8	46%	55%
40	0	601	0.0000	0.40%	0.34%	2.4	2.0	0%	0%
41	2	639	0.0031	0.42%	0.36%	2.7	2.3	75%	88%
42	1	746	0.0013	0.44%	0.37%	3.3	2.8	30%	36%
43	1	817	0.0012	0.46%	0.39%	3.8	3.2	27%	31%
44	0	855	0.0000	0.48%	0.41%	4.1	3.5	0%	0%
45	4	944	0.0042	0.50%	0.43%	4.7	4.0	85%	100%
46	0	1,024	0.0000	0.52%	0.44%	5.3	4.5	0%	0%
47	3	1,034	0.0029	0.54%	0.46%	5.6	4.7	54%	63%
48	5	1,103	0.0045	0.56%	0.48%	6.2	5.3	81%	95%
49	4	1,132	0.0035	0.58%	0.49%	6.6	5.6	61%	72%
50	5	1,155	0.0043	0.60%	0.51%	6.9	5.9	72%	85%
51	5	1,139	0.0044	0.62%	0.53%	7.1	6.0	71%	83%
52	5	1,131	0.0044	0.64%	0.54%	7.2	6.2	69%	81%
53	5	1,151	0.0043	0.66%	0.56%	7.6	6.5	66%	77%
54	9	1,132	0.0080	0.68%	0.58%	7.7	6.5	117%	138%
55	5	1,088	0.0046	0.70%	0.60%	7.6	6.5	66%	77%
56	2	1,014	0.0020	0.70%	0.60%	7.1	6.0	28%	33%
57	3	960	0.0031	0.70%	0.60%	6.7	5.7	45%	53%
58	4	871	0.0046	0.70%	0.60%	6.1	5.2	66%	77%
59	1	847	0.0012	0.70%	0.60%	5.9	5.0	17%	20%
60	5	778	0.0064	0.70%	0.60%	5.4	4.6	92%	108%
61	5	728	0.0069	0.70%	0.60%	5.1	4.3	98%	115%
62	4	644	0.0062	0.70%	0.60%	4.5	3.8	89%	104%
63	3	488	0.0061	0.70%	0.60%	3.4	2.9	88%	103%
64	2	420	0.0048	0.70%	0.60%	2.9	2.5	68%	80%
65	1	354	0.0028	0.70%	0.60%	2.5	2.1	40%	47%
66	0	283	0.0000	0.70%	0.60%	2.0	1.7	0%	0%
67	0	254	0.0000	0.70%	0.60%	1.8	1.5	0%	0%
68	1	186	0.0054	0.70%	0.60%	1.3	1.1	77%	90%
69	0	154	0.0000	0.70%	0.60%	1.1	0.9	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	3	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	90	27,043				154.9	131.7	58%	68%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

TABLE 9B				8-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.20%	0.14%	0.0	0.0	0%	0%
21	0	0	N/A	0.20%	0.14%	0.0	0.0	0%	0%
22	0	0	N/A	0.20%	0.14%	0.0	0.0	0%	0%
23	0	2	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
24	0	13	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
25	0	22	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
26	0	43	0.0000	0.20%	0.14%	0.1	0.1	0%	0%
27	0	61	0.0000	0.20%	0.14%	0.1	0.1	0%	0%
28	0	116	0.0000	0.20%	0.14%	0.2	0.2	0%	0%
29	0	185	0.0000	0.20%	0.14%	0.4	0.3	0%	0%
30	0	266	0.0000	0.20%	0.14%	0.5	0.4	0%	0%
31	0	370	0.0000	0.20%	0.14%	0.7	0.5	0%	0%
32	0	447	0.0000	0.20%	0.14%	0.9	0.6	0%	0%
33	0	508	0.0000	0.20%	0.14%	1.0	0.7	0%	0%
34	0	638	0.0000	0.20%	0.14%	1.3	0.9	0%	0%
35	1	729	0.0014	0.20%	0.14%	1.5	1.0	69%	98%
36	0	809	0.0000	0.21%	0.15%	1.7	1.2	0%	0%
37	0	905	0.0000	0.22%	0.15%	2.0	1.4	0%	0%
38	0	1,070	0.0000	0.23%	0.16%	2.5	1.7	0%	0%
39	0	1,218	0.0000	0.24%	0.17%	2.9	2.0	0%	0%
40	1	1,334	0.0007	0.25%	0.18%	3.3	2.3	30%	43%
41	0	1,505	0.0000	0.26%	0.18%	3.9	2.7	0%	0%
42	3	1,763	0.0017	0.27%	0.19%	4.8	3.3	63%	90%
43	0	2,045	0.0000	0.28%	0.20%	5.7	4.0	0%	0%
44	2	2,310	0.0009	0.29%	0.20%	6.7	4.7	30%	43%
45	3	2,628	0.0011	0.30%	0.21%	7.9	5.5	38%	54%
46	3	2,838	0.0011	0.34%	0.24%	9.6	6.8	31%	44%
47	2	3,122	0.0006	0.38%	0.27%	11.9	8.3	17%	24%
48	4	3,363	0.0012	0.42%	0.29%	14.1	9.9	28%	40%
49	6	3,600	0.0017	0.46%	0.32%	16.6	11.6	36%	52%
50	6	3,826	0.0016	0.50%	0.35%	19.1	13.4	31%	45%
51	17	3,989	0.0043	0.54%	0.38%	21.5	15.1	79%	113%
52	9	4,135	0.0022	0.58%	0.41%	24.0	16.8	38%	54%
53	8	4,223	0.0019	0.62%	0.43%	26.2	18.3	31%	44%
54	12	4,400	0.0027	0.66%	0.46%	29.0	20.3	41%	59%
55	16	4,406	0.0036	0.70%	0.49%	30.8	21.6	52%	74%
56	15	4,555	0.0033	0.70%	0.49%	31.9	22.3	47%	67%
57	12	4,392	0.0027	0.70%	0.49%	30.7	21.5	39%	56%
58	18	4,173	0.0043	0.70%	0.49%	29.2	20.4	62%	88%
59	12	4,201	0.0029	0.70%	0.49%	29.4	20.6	41%	58%
60	21	3,980	0.0053	0.70%	0.49%	27.9	19.5	75%	108%
61	24	3,773	0.0064	0.70%	0.49%	26.4	18.5	91%	130%
62	17	3,391	0.0050	0.70%	0.49%	23.7	16.6	72%	102%
63	16	2,736	0.0058	0.70%	0.49%	19.2	13.4	84%	119%
64	7	2,184	0.0032	0.70%	0.49%	15.3	10.7	46%	65%
65	6	1,896	0.0032	0.70%	0.49%	13.3	9.3	45%	65%
66	2	1,489	0.0013	0.70%	0.49%	10.4	7.3	19%	27%
67	3	1,198	0.0025	0.70%	0.49%	8.4	5.9	36%	51%
68	2	997	0.0020	0.70%	0.49%	7.0	4.9	29%	41%
69	4	818	0.0049	0.70%	0.49%	5.7	4.0	70%	100%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	5	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Total	257	96,672				529.6	370.7	49%	69%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 9A GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual Disabilities</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/ Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	8	0.0000	0.20%	0.17%	0.0	0.0	0%	0%
25-29	0	240	0.0000	0.20%	0.17%	0.5	0.4	0%	0%
30-34	0	973	0.0000	0.25%	0.21%	2.4	2.0	0%	0%
35-39	2	2,150	0.0009	0.35%	0.29%	7.4	6.3	27%	32%
40-44	4	3,658	0.0011	0.44%	0.38%	16.2	13.8	25%	29%
45-49	16	5,237	0.0031	0.54%	0.46%	28.4	24.1	56%	66%
50-54	29	5,708	0.0051	0.64%	0.54%	36.5	31.0	79%	93%
55-59	15	4,780	0.0031	0.70%	0.60%	33.5	28.4	45%	53%
60-64	19	3,058	0.0062	0.70%	0.60%	21.4	18.2	89%	104%
65-69	2	1,231	0.0016	0.70%	0.60%	8.6	7.3	23%	27%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	3	0	N/A	0.00%		0.0	0.0	0%	0%
<b>Total</b>	<b>90</b>	<b>27,043</b>				<b>154.9</b>	<b>131.7</b>	<b>58%</b>	<b>68%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 9B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	15	0.0000	0.20%	0.14%	0.0	0.0	0%	0%
25-29	0	427	0.0000	0.20%	0.14%	0.9	0.6	0%	0%
30-34	0	2,229	0.0000	0.20%	0.14%	4.5	3.1	0%	0%
35-39	1	4,731	0.0002	0.22%	0.16%	10.5	7.4	9%	14%
40-44	6	8,957	0.0007	0.27%	0.19%	24.4	17.1	25%	35%
45-49	18	15,551	0.0012	0.39%	0.27%	60.1	42.1	30%	43%
50-54	52	20,573	0.0025	0.58%	0.41%	119.9	83.9	43%	62%
55-59	73	21,727	0.0034	0.70%	0.49%	152.1	106.5	48%	69%
60-64	85	16,064	0.0053	0.70%	0.49%	112.4	78.7	76%	108%
65-69	17	6,398	0.0027	0.70%	0.49%	44.8	31.4	38%	54%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	5	0	N/A	0.00%		0.0	0.0	0%	0%
<b>Total</b>	<b>257</b>	<b>96,672</b>				<b>529.6</b>	<b>370.7</b>	<b>49%</b>	<b>69%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 9C Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual/ Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	13,124	63	72.5	87%	0.48%	0.55%
2005	13,917	55	76.6	72%	0.40%	0.55%
2006	16,454	36	89.8	40%	0.22%	0.55%
2007	15,983	55	87.4	63%	0.34%	0.55%
2008	15,570	27	86.1	31%	0.17%	0.55%
2009	15,800	25	88.1	28%	0.16%	0.56%
2010	16,243	37	90.8	41%	0.23%	0.56%
2011	16,624	54	93.3	58%	0.32%	0.56%
2012	16,641	50	93.8	53%	0.30%	0.56%
2013	16,736	56	94.4	59%	0.33%	0.56%
Total	157,092	458	872.7	52%	0.29%	0.56%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	16	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
21	0	24	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
22	0	44	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
23	0	55	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
24	0	57	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
25	0	65	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
26	0	96	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
27	0	141	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
28	0	200	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
29	0	212	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
30	0	233	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
31	0	263	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
32	0	275	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
33	0	299	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
34	0	358	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
35	0	390	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
36	0	378	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
37	0	425	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
38	0	401	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
39	0	438	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
40	0	501	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
41	0	494	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
42	0	541	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
43	0	592	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
44	0	595	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
45	0	627	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
46	0	642	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
47	0	666	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
48	1	713	0.0014	0.04%	0.04%	0.3	0.3	351%	351%
49	0	740	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
50	0	769	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
51	0	766	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
52	0	738	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
53	0	719	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
54	0	713	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
55	0	694	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
56	0	662	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
57	1	646	0.0015	0.04%	0.04%	0.3	0.3	387%	387%
58	0	591	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
59	0	560	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
60	0	534	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
61	0	483	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
62	1	414	0.0024	0.04%	0.04%	0.2	0.2	604%	604%
63	0	329	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
64	0	267	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
65	0	237	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
66	0	192	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
67	0	158	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
68	0	124	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
69	0	104	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	0	3	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
<b>Total</b>	<b>3</b>	<b>20,184</b>				<b>8.1</b>	<b>8.1</b>	<b>37%</b>	<b>37%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	8	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
21	0	17	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
22	0	40	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
23	0	54	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
24	0	92	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25	0	142	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
26	0	198	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
27	0	285	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
28	0	386	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
29	0	462	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
30	0	526	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
31	0	578	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
32	1	632	0.0016	0.02%	0.02%	0.1	0.1	791%	791%
33	0	691	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
34	0	703	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
35	0	759	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
36	0	824	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
37	0	911	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
38	0	994	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
39	0	1,038	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
40	0	1,115	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
41	0	1,227	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
42	0	1,459	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
43	0	1,680	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
44	0	1,861	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
45	0	2,106	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
46	1	2,175	0.0005	0.02%	0.02%	0.4	0.4	230%	230%
47	1	2,297	0.0004	0.02%	0.02%	0.5	0.5	218%	218%
48	0	2,400	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
49	1	2,558	0.0004	0.02%	0.02%	0.5	0.5	195%	195%
50	1	2,720	0.0004	0.02%	0.02%	0.5	0.5	184%	184%
51	1	2,800	0.0004	0.02%	0.02%	0.6	0.6	179%	179%
52	0	2,874	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
53	1	2,904	0.0003	0.02%	0.02%	0.6	0.6	172%	172%
54	1	2,916	0.0003	0.02%	0.02%	0.6	0.6	171%	171%
55	1	2,906	0.0003	0.02%	0.02%	0.6	0.6	172%	172%
56	0	2,835	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
57	4	2,740	0.0015	0.02%	0.02%	0.5	0.5	730%	730%
58	0	2,596	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
59	0	2,446	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
60	1	2,441	0.0004	0.02%	0.02%	0.5	0.5	205%	205%
61	2	2,280	0.0009	0.02%	0.02%	0.5	0.5	439%	439%
62	1	2,033	0.0005	0.02%	0.02%	0.4	0.4	246%	246%
63	0	1,626	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
64	0	1,316	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
65	0	1,144	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
66	0	915	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
67	1	743	0.0013	0.02%	0.02%	0.1	0.1	673%	673%
68	0	587	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
69	0	490	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	0	5	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
Total	18	69,535				13.9	13.9	129%	129%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	196	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
25-29	0	714	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
30-34	0	1,428	0.0000	0.04%	0.04%	0.6	0.6	0%	0%
35-39	0	2,032	0.0000	0.04%	0.04%	0.8	0.8	0%	0%
40-44	0	2,723	0.0000	0.04%	0.04%	1.1	1.1	0%	0%
45-49	1	3,388	0.0003	0.04%	0.04%	1.4	1.4	74%	74%
50-54	0	3,705	0.0000	0.04%	0.04%	1.5	1.5	0%	0%
55-59	1	3,153	0.0003	0.04%	0.04%	1.3	1.3	79%	79%
60-64	1	2,027	0.0005	0.04%	0.04%	0.8	0.8	123%	123%
65-69	0	815	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	0	3	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
<b>Total</b>	<b>3</b>	<b>20,184</b>				<b>8.1</b>	<b>8.1</b>	<b>37%</b>	<b>37%</b>



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	211	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25-29	0	1,473	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
30-34	1	3,130	0.0003	0.02%	0.02%	0.6	0.6	160%	160%
35-39	0	4,526	0.0000	0.02%	0.02%	0.9	0.9	0%	0%
40-44	0	7,342	0.0000	0.02%	0.02%	1.5	1.5	0%	0%
45-49	3	11,536	0.0003	0.02%	0.02%	2.3	2.3	130%	130%
50-54	4	14,214	0.0003	0.02%	0.02%	2.8	2.8	141%	141%
55-59	5	13,523	0.0004	0.02%	0.02%	2.7	2.7	185%	185%
60-64	4	9,696	0.0004	0.02%	0.02%	1.9	1.9	206%	206%
65-69	1	3,879	0.0003	0.02%	0.02%	0.8	0.8	129%	129%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	0	5	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
<b>Total</b>	<b>18</b>	<b>69,535</b>				<b>13.9</b>	<b>13.9</b>	<b>129%</b>	<b>129%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 10A				8-YEAR PERIOD ENDING 6/30/2011					
Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	21	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
21	0	40	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
22	0	69	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
23	0	102	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
24	0	119	0.0000	0.04%	0.04%	0.0	0.0	0%	0%
25	0	152	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
26	0	213	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
27	0	295	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
28	0	358	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
29	0	411	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
30	0	442	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
31	0	487	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
32	0	518	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
33	0	586	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
34	0	664	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
35	0	711	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
36	0	822	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
37	0	806	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
38	0	843	0.0000	0.04%	0.04%	0.3	0.3	0%	0%
39	0	929	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
40	0	989	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
41	1	1,001	0.0010	0.04%	0.04%	0.4	0.4	250%	250%
42	0	1,115	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
43	0	1,190	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
44	0	1,249	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
45	0	1,319	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
46	1	1,398	0.0007	0.04%	0.04%	0.6	0.6	179%	179%
47	0	1,386	0.0000	0.04%	0.04%	0.6	0.6	0%	0%
48	1	1,427	0.0007	0.04%	0.04%	0.6	0.6	175%	175%
49	1	1,454	0.0007	0.04%	0.04%	0.6	0.6	172%	172%
50	0	1,430	0.0000	0.04%	0.04%	0.6	0.6	0%	0%
51	2	1,437	0.0014	0.04%	0.04%	0.6	0.6	348%	348%
52	0	1,406	0.0000	0.04%	0.04%	0.6	0.6	0%	0%
53	2	1,430	0.0014	0.04%	0.04%	0.6	0.6	350%	350%
54	0	1,374	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
55	2	1,329	0.0015	0.04%	0.04%	0.5	0.5	376%	376%
56	0	1,249	0.0000	0.04%	0.04%	0.5	0.5	0%	0%
57	2	1,174	0.0017	0.04%	0.04%	0.5	0.5	426%	426%
58	1	1,074	0.0009	0.04%	0.04%	0.4	0.4	233%	233%
59	0	1,047	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
60	0	936	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
61	0	877	0.0000	0.04%	0.04%	0.4	0.4	0%	0%
62	1	767	0.0013	0.04%	0.04%	0.3	0.3	326%	326%
63	0	596	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
64	0	508	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
65	0	425	0.0000	0.04%	0.04%	0.2	0.2	0%	0%
66	1	352	0.0028	0.04%	0.04%	0.1	0.1	710%	710%
67	0	308	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
68	0	234	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
69	0	194	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	0	6	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
Total	15	39,269				15.7	15.7	96%	96%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/ Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	19	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
21	0	37	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
22	0	66	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
23	0	108	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
24	0	217	0.0000	0.02%	0.02%	0.0	0.0	0%	0%
25	0	310	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
26	0	430	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
27	0	576	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
28	0	782	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
29	0	922	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
30	0	1,028	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
31	0	1,161	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
32	1	1,201	0.0008	0.02%	0.02%	0.2	0.2	416%	416%
33	0	1,309	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
34	0	1,434	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
35	0	1,538	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
36	0	1,704	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
37	0	1,838	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
38	0	2,076	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
39	0	2,290	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
40	0	2,506	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
41	0	2,795	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
42	0	3,193	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
43	0	3,558	0.0000	0.02%	0.02%	0.7	0.7	0%	0%
44	0	3,909	0.0000	0.02%	0.02%	0.8	0.8	0%	0%
45	0	4,276	0.0000	0.02%	0.02%	0.9	0.9	0%	0%
46	1	4,518	0.0002	0.02%	0.02%	0.9	0.9	111%	111%
47	2	4,743	0.0004	0.02%	0.02%	0.9	0.9	211%	211%
48	0	4,960	0.0000	0.02%	0.02%	1.0	1.0	0%	0%
49	1	5,138	0.0002	0.02%	0.02%	1.0	1.0	97%	97%
50	1	5,384	0.0002	0.02%	0.02%	1.1	1.1	93%	93%
51	1	5,522	0.0002	0.02%	0.02%	1.1	1.1	91%	91%
52	0	5,614	0.0000	0.02%	0.02%	1.1	1.1	0%	0%
53	1	5,634	0.0002	0.02%	0.02%	1.1	1.1	89%	89%
54	1	5,679	0.0002	0.02%	0.02%	1.1	1.1	88%	88%
55	3	5,545	0.0005	0.02%	0.02%	1.1	1.1	271%	271%
56	3	5,622	0.0005	0.02%	0.02%	1.1	1.1	267%	267%
57	5	5,359	0.0009	0.02%	0.02%	1.1	1.1	467%	467%
58	3	4,999	0.0006	0.02%	0.02%	1.0	1.0	300%	300%
59	1	4,922	0.0002	0.02%	0.02%	1.0	1.0	102%	102%
60	2	4,581	0.0004	0.02%	0.02%	0.9	0.9	218%	218%
61	3	4,312	0.0007	0.02%	0.02%	0.9	0.9	348%	348%
62	1	3,795	0.0003	0.02%	0.02%	0.8	0.8	132%	132%
63	2	3,102	0.0006	0.02%	0.02%	0.6	0.6	322%	322%
64	0	2,464	0.0000	0.02%	0.02%	0.5	0.5	0%	0%
65	0	2,128	0.0000	0.02%	0.02%	0.4	0.4	0%	0%
66	0	1,659	0.0000	0.02%	0.02%	0.3	0.3	0%	0%
67	2	1,340	0.0015	0.02%	0.02%	0.3	0.3	746%	746%
68	0	1,097	0.0000	0.02%	0.02%	0.2	0.2	0%	0%
69	1	899	0.0011	0.02%	0.02%	0.2	0.2	556%	556%
70	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
71	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
72	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
73	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
74	0	0	N/A	0.00%	0.00%	0.0	0.0	0%	0%
Other	1	10	0.1000	0.00%	0.00%	0.0	0.0	0%	0%
Total	36	138,309				27.7	27.7	130%	130%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 10A GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	351	0.0000	0.04%	0.04%	0.1	0.1	0%	0%
25-29	0	1,429	0.0000	0.04%	0.04%	0.6	0.6	0%	0%
30-34	0	2,697	0.0000	0.04%	0.04%	1.1	1.1	0%	0%
35-39	0	4,111	0.0000	0.04%	0.04%	1.6	1.6	0%	0%
40-44	1	5,544	0.0002	0.04%	0.04%	2.2	2.2	45%	45%
45-49	3	6,984	0.0004	0.04%	0.04%	2.8	2.8	107%	107%
50-54	4	7,077	0.0006	0.04%	0.04%	2.8	2.8	141%	141%
55-59	5	5,873	0.0009	0.04%	0.04%	2.3	2.3	213%	213%
60-64	1	3,684	0.0003	0.04%	0.04%	1.5	1.5	68%	68%
65-69	1	1,513	0.0007	0.04%	0.04%	0.6	0.6	165%	165%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	0	6	0.0000	0.00%	0.00%	0.0	0.0	0%	0%
<b>Total</b>	<b>15</b>	<b>39,269</b>				<b>15.7</b>	<b>15.7</b>	<b>96%</b>	<b>96%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
WOMEN**

**TABLE 10B GROUPED**

Age (1)	Actual Disabilities (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		8-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/ Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	447	0.0000	0.02%	0.02%	0.1	0.1	0%	0%
25-29	0	3,020	0.0000	0.02%	0.02%	0.6	0.6	0%	0%
30-34	1	6,133	0.0002	0.02%	0.02%	1.2	1.2	82%	82%
35-39	0	9,446	0.0000	0.02%	0.02%	1.9	1.9	0%	0%
40-44	0	15,961	0.0000	0.02%	0.02%	3.2	3.2	0%	0%
45-49	4	23,635	0.0002	0.02%	0.02%	4.7	4.7	85%	85%
50-54	4	27,833	0.0001	0.02%	0.02%	5.6	5.6	72%	72%
55-59	15	26,447	0.0006	0.02%	0.02%	5.3	5.3	284%	284%
60-64	8	18,254	0.0004	0.02%	0.02%	3.7	3.7	219%	219%
65-69	3	7,123	0.0004	0.02%	0.02%	1.4	1.4	211%	211%
70-74	0	0	N/A	0.00%		0.0	0.0	0%	0%
Other	1	10	0.1000	0.00%	0.00%	0.0	0.0	0%	0%
<b>Total</b>	<b>36</b>	<b>138,309</b>				<b>27.7</b>	<b>27.7</b>	<b>130%</b>	<b>130%</b>

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 10C Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual/ Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	21,879	11	5.3	206%	0.05%	0.02%
2005	20,816	3	5.1	59%	0.01%	0.02%
2006	22,417	2	5.5	37%	0.01%	0.02%
2007	22,747	16	5.6	288%	0.07%	0.02%
2008	21,830	3	5.3	56%	0.01%	0.02%
2009	22,588	8	5.5	144%	0.04%	0.02%
2010	22,668	5	5.6	90%	0.02%	0.02%
2011	22,633	8	5.6	144%	0.04%	0.02%
2012	22,450	10	5.5	181%	0.04%	0.02%
2013	26,966	0	6.7	0%	0.00%	0.02%
Total	226,994	66	55.6	119%	0.03%	0.02%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 11A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	6,229	\$ 180,852,356	\$ 201,179,738	\$ 197,129,068	125%	11.24%	9.00%
1	4,342	162,321,103	167,301,453	175,306,791	38%	3.07%	8.00%
2	5,394	205,232,905	210,773,540	219,599,208	39%	2.70%	7.00%
3	4,497	167,363,601	170,077,492	177,405,417	27%	1.62%	6.00%
4	5,650	226,533,891	230,108,158	238,993,255	29%	1.58%	5.50%
5	4,679	187,511,733	189,108,531	196,887,320	17%	0.85%	5.00%
6	5,020	200,075,421	201,145,614	209,879,117	11%	0.53%	4.90%
7	4,304	170,375,674	171,312,396	178,553,706	11%	0.55%	4.80%
8	4,601	171,346,717	172,830,257	179,400,013	18%	0.87%	4.70%
9	4,095	147,331,727	147,670,062	154,108,986	5%	0.23%	4.60%
10	4,907	168,635,522	168,948,242	176,224,120	4%	0.19%	4.50%
11	4,377	146,251,079	146,206,895	152,832,378	-1%	-0.03%	4.50%
12	4,491	158,401,862	159,159,263	165,529,946	11%	0.48%	4.50%
13	3,300	117,874,515	119,393,189	123,178,868	29%	1.29%	4.50%
14	2,870	108,488,198	109,558,610	113,370,167	22%	0.99%	4.50%
15	2,257	87,814,227	89,024,303	91,765,867	31%	1.38%	4.50%
16	2,183	82,960,596	83,340,116	86,652,343	10%	0.46%	4.45%
17	1,828	69,017,291	69,430,674	72,054,052	14%	0.60%	4.40%
18	1,852	73,410,673	74,168,602	76,604,037	24%	1.03%	4.35%
19	1,400	60,670,558	61,033,817	63,279,392	14%	0.60%	4.30%
20	1,664	74,510,175	74,479,994	77,676,857	-1%	-0.04%	4.25%
21	1,569	72,660,269	72,994,862	75,712,000	11%	0.46%	4.20%
22	1,662	81,330,396	81,323,299	84,705,607	0%	-0.01%	4.15%
23	1,141	56,658,854	57,388,692	58,981,867	31%	1.29%	4.10%
24	972	54,034,738	54,675,630	56,223,145	29%	1.19%	4.05%
25	714	42,468,697	42,639,156	44,167,445	10%	0.40%	4.00%
26	621	37,818,332	38,175,220	39,331,065	24%	0.94%	4.00%
27	462	29,388,377	29,545,387	30,563,912	13%	0.53%	4.00%
28	451	29,939,406	30,114,463	31,136,982	15%	0.58%	4.00%
29	286	20,088,378	20,137,900	20,891,913	6%	0.25%	4.00%
30+	298	21,202,095	21,381,783	22,050,179	21%	0.85%	4.00%
Total	88,116	3,412,569,366	3,464,627,338	3,590,195,025	29%	1.53%	5.21%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 11A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Proposed Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	6,229	\$ 180,852,356	\$ 201,179,738	\$ 197,129,068	125%	11.24%	9.00%
1	4,342	162,321,103	167,301,453	175,306,791	38%	3.07%	8.00%
2	5,394	205,232,905	210,773,540	216,520,715	49%	2.70%	5.50%
3	4,497	167,363,601	170,077,492	177,405,417	27%	1.62%	6.00%
4	5,650	226,533,891	230,108,158	238,993,255	29%	1.58%	5.50%
5	4,679	187,511,733	189,108,531	196,887,320	17%	0.85%	5.00%
6	5,020	200,075,421	201,145,614	207,678,287	14%	0.53%	3.80%
7	4,304	170,375,674	171,312,396	176,509,198	15%	0.55%	3.60%
8	4,601	171,346,717	172,830,257	177,172,505	25%	0.87%	3.40%
9	4,095	147,331,727	147,670,062	152,046,342	7%	0.23%	3.20%
10	4,907	168,635,522	168,948,242	173,694,588	6%	0.19%	3.00%
11	4,377	146,251,079	146,206,895	150,638,611	-1%	-0.03%	3.00%
12	4,491	158,401,862	159,159,263	163,153,918	16%	0.48%	3.00%
13	3,300	117,874,515	119,393,189	121,410,750	43%	1.29%	3.00%
14	2,870	108,488,198	109,558,610	111,742,844	33%	0.99%	3.00%
15	2,257	87,814,227	89,024,303	90,448,654	46%	1.38%	3.00%
16	2,183	82,960,596	83,340,116	85,449,414	15%	0.46%	3.00%
17	1,828	69,017,291	69,430,674	71,087,810	20%	0.60%	3.00%
18	1,852	73,410,673	74,168,602	75,612,993	34%	1.03%	3.00%
19	1,400	60,670,558	61,033,817	62,490,675	20%	0.60%	3.00%
20	1,664	74,510,175	74,479,994	77,490,582	-1%	-0.04%	4.00%
21	1,569	72,660,269	72,994,862	75,566,680	12%	0.46%	4.00%
22	1,662	81,330,396	81,323,299	84,583,612	0%	-0.01%	4.00%
23	1,141	56,658,854	57,388,692	58,925,208	32%	1.29%	4.00%
24	972	54,034,738	54,675,630	56,196,128	30%	1.19%	4.00%
25	714	42,468,697	42,639,156	44,167,445	10%	0.40%	4.00%
26	621	37,818,332	38,175,220	39,331,065	24%	0.94%	4.00%
27	462	29,388,377	29,545,387	30,563,912	13%	0.53%	4.00%
28	451	29,939,406	30,114,463	31,136,982	15%	0.58%	4.00%
29	286	20,088,378	20,137,900	20,891,913	6%	0.25%	4.00%
30+	298	21,202,095	21,381,783	22,050,179	21%	0.85%	4.00%
Total	88,116	3,412,569,366	3,464,627,338	3,562,282,861	35%	1.53%	4.39%



**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	6,229	\$ 180,852,356	\$ 199,647,012	\$ 191,703,497	173%	10.39%	6.00%
1	4,342	162,321,103	165,925,780	170,437,158	44%	2.22%	5.00%
2	5,394	205,232,905	209,034,189	213,442,221	46%	1.85%	4.00%
3	4,497	167,363,601	168,659,084	172,384,509	26%	0.77%	3.00%
4	5,650	226,533,891	228,188,281	232,197,238	29%	0.73%	2.50%
5	4,679	187,511,733	187,519,367	191,261,968	0%	0.00%	2.00%
6	5,020	200,075,421	199,449,972	203,876,854	-16%	-0.31%	1.90%
7	4,304	170,375,674	169,868,460	173,442,436	-17%	-0.30%	1.80%
8	4,601	171,346,717	171,378,092	174,259,611	1%	0.02%	1.70%
9	4,095	147,331,727	146,421,424	149,689,035	-39%	-0.62%	1.60%
10	4,907	168,635,522	167,519,054	171,165,055	-44%	-0.66%	1.50%
11	4,377	146,251,079	144,967,415	148,444,845	-59%	-0.88%	1.50%
12	4,491	158,401,862	157,816,805	160,777,890	-25%	-0.37%	1.50%
13	3,300	117,874,515	118,394,201	119,642,633	29%	0.44%	1.50%
14	2,870	108,488,198	108,639,171	110,115,521	9%	0.14%	1.50%
15	2,257	87,814,227	88,280,076	89,131,440	35%	0.53%	1.50%
16	2,183	82,960,596	82,637,024	84,163,525	-27%	-0.39%	1.45%
17	1,828	69,017,291	68,845,752	69,983,533	-18%	-0.25%	1.40%
18	1,852	73,410,673	73,546,446	74,401,717	14%	0.18%	1.35%
19	1,400	60,670,558	60,519,633	61,459,275	-19%	-0.25%	1.30%
20	1,664	74,510,175	73,848,519	75,441,552	-71%	-0.89%	1.25%
21	1,569	72,660,269	72,379,065	73,532,192	-32%	-0.39%	1.20%
22	1,662	81,330,396	80,634,023	82,265,696	-74%	-0.86%	1.15%
23	1,141	56,658,854	56,908,508	57,282,101	40%	0.44%	1.10%
24	972	54,034,738	54,217,685	54,602,103	32%	0.34%	1.05%
25	714	42,468,697	42,279,233	42,893,384	-45%	-0.45%	1.00%
26	621	37,818,332	37,854,709	38,196,515	10%	0.10%	1.00%
27	462	29,388,377	29,296,320	29,682,261	-31%	-0.31%	1.00%
28	451	29,939,406	29,860,726	30,238,800	-26%	-0.26%	1.00%
29	286	20,088,378	19,967,651	20,289,262	-60%	-0.60%	1.00%
30+	298	21,202,095	21,202,095	21,414,116		0.00%	1.00%
Total	88,116	3,412,569,366	3,435,705,773	3,487,817,944	31%	0.68%	2.21%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 1.71%. Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	6,229	\$ 180,852,356	\$ 199,647,012	\$ 191,703,497	173%	10.39%	6.00%
1	4,342	162,321,103	165,925,780	170,437,158	44%	2.22%	5.00%
2	5,394	205,232,905	209,034,189	210,363,728	74%	1.85%	2.50%
3	4,497	167,363,601	168,659,084	172,384,509	26%	0.77%	3.00%
4	5,650	226,533,891	228,188,281	232,197,238	29%	0.73%	2.50%
5	4,679	187,511,733	187,519,367	191,261,968	0%	0.00%	2.00%
6	5,020	200,075,421	199,449,972	201,676,024	-39%	-0.31%	0.80%
7	4,304	170,375,674	169,868,460	171,397,928	-50%	-0.30%	0.60%
8	4,601	171,346,717	171,378,092	172,032,104	5%	0.02%	0.40%
9	4,095	147,331,727	146,421,424	147,626,390	-309%	-0.62%	0.20%
10	4,907	168,635,522	167,519,054	168,635,522		-0.66%	0.00%
11	4,377	146,251,079	144,967,415	146,251,079		-0.88%	0.00%
12	4,491	158,401,862	157,816,805	158,401,862		-0.37%	0.00%
13	3,300	117,874,515	118,394,201	117,874,515		0.44%	0.00%
14	2,870	108,488,198	108,639,171	108,488,198		0.14%	0.00%
15	2,257	87,814,227	88,280,076	87,814,227		0.53%	0.00%
16	2,183	82,960,596	82,637,024	82,960,596		-0.39%	0.00%
17	1,828	69,017,291	68,845,752	69,017,291		-0.25%	0.00%
18	1,852	73,410,673	73,546,446	73,410,673		0.18%	0.00%
19	1,400	60,670,558	60,519,633	60,670,558		-0.25%	0.00%
20	1,664	74,510,175	73,848,519	75,255,277	-89%	-0.89%	1.00%
21	1,569	72,660,269	72,379,065	73,386,872	-39%	-0.39%	1.00%
22	1,662	81,330,396	80,634,023	82,143,700	-86%	-0.86%	1.00%
23	1,141	56,658,854	56,908,508	57,225,443	44%	0.44%	1.00%
24	972	54,034,738	54,217,685	54,575,085	34%	0.34%	1.00%
25	714	42,468,697	42,279,233	42,893,384	-45%	-0.45%	1.00%
26	621	37,818,332	37,854,709	38,196,515	10%	0.10%	1.00%
27	462	29,388,377	29,296,320	29,682,261	-31%	-0.31%	1.00%
28	451	29,939,406	29,860,726	30,238,800	-26%	-0.26%	1.00%
29	286	20,088,378	19,967,651	20,289,262	-60%	-0.60%	1.00%
30+	298	21,202,095	21,202,095	21,414,116		0.00%	1.00%
Total	88,116	3,412,569,366	3,435,705,773	3,459,905,780	49%	0.68%	1.39%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 11A

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	10,073	\$ 284,117,355	\$ 317,142,935	\$ 309,687,917	129%	11.62%	9.00%
1	13,161	430,730,784	460,420,104	465,189,247	86%	6.89%	8.00%
2	14,019	466,422,834	489,897,348	499,072,432	72%	5.03%	7.00%
3	13,188	426,202,996	446,207,723	451,775,176	78%	4.69%	6.00%
4	14,284	473,442,796	491,710,162	499,482,150	70%	3.86%	5.50%
5	12,962	419,232,758	434,487,970	440,194,396	73%	3.64%	5.00%
6	13,033	425,919,517	439,523,346	446,789,573	65%	3.19%	4.90%
7	11,785	385,114,433	397,721,046	403,599,926	68%	3.27%	4.80%
8	11,353	370,517,528	382,458,324	387,931,852	69%	3.22%	4.70%
9	10,103	325,231,803	334,170,034	340,192,466	60%	2.75%	4.60%
10	10,252	330,138,284	338,253,846	344,994,507	55%	2.46%	4.50%
11	8,933	287,802,991	294,531,970	300,754,126	52%	2.34%	4.50%
12	8,509	281,158,419	287,988,301	293,810,548	54%	2.43%	4.50%
13	7,157	239,814,857	246,349,894	250,606,526	61%	2.73%	4.50%
14	7,034	243,338,673	249,546,169	254,288,913	57%	2.55%	4.50%
15	6,220	221,743,785	228,917,424	231,722,255	72%	3.24%	4.50%
16	5,708	208,684,150	214,914,622	217,970,595	67%	2.99%	4.45%
17	5,008	190,027,437	196,217,945	198,388,644	74%	3.26%	4.40%
18	4,786	191,807,127	197,759,392	200,150,737	71%	3.10%	4.35%
19	4,047	170,801,747	175,915,601	178,146,222	70%	2.99%	4.30%
20	3,624	162,861,636	166,877,458	169,783,256	58%	2.47%	4.25%
21	3,084	145,461,474	148,917,310	151,570,856	57%	2.38%	4.20%
22	2,878	142,116,443	144,852,252	148,014,275	46%	1.93%	4.15%
23	2,187	112,527,475	115,450,175	117,141,101	63%	2.60%	4.10%
24	1,835	101,965,318	104,769,569	106,094,913	68%	2.75%	4.05%
25	1,351	79,524,517	81,334,943	82,705,498	57%	2.28%	4.00%
26	1,170	70,607,787	72,293,465	73,432,098	60%	2.39%	4.00%
27	913	57,418,470	59,099,070	59,715,209	73%	2.93%	4.00%
28	863	56,634,073	57,958,217	58,899,436	58%	2.34%	4.00%
29	623	41,264,932	42,140,641	42,915,529	53%	2.12%	4.00%
30+	657	41,191,822	42,322,024	42,839,495	69%	2.74%	4.00%
Total	210,800	7,383,824,221	7,660,149,280	7,767,859,874	72%	3.74%	5.20%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 11A

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Proposed Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	10,073	\$ 284,117,355	\$ 317,142,935	\$ 309,687,917	129%	11.62%	9.00%
1	13,161	430,730,784	460,420,104	465,189,247	86%	6.89%	8.00%
2	14,019	466,422,834	489,897,348	492,076,090	92%	5.03%	5.50%
3	13,188	426,202,996	446,207,723	451,775,176	78%	4.69%	6.00%
4	14,284	473,442,796	491,710,162	499,482,150	70%	3.86%	5.50%
5	12,962	419,232,758	434,487,970	440,194,396	73%	3.64%	5.00%
6	13,033	425,919,517	439,523,346	442,104,459	84%	3.19%	3.80%
7	11,785	385,114,433	397,721,046	398,978,553	91%	3.27%	3.60%
8	11,353	370,517,528	382,458,324	383,115,124	95%	3.22%	3.40%
9	10,103	325,231,803	334,170,034	335,639,221	86%	2.75%	3.20%
10	10,252	330,138,284	338,253,846	340,042,433	82%	2.46%	3.00%
11	8,933	287,802,991	294,531,970	296,437,081	78%	2.34%	3.00%
12	8,509	281,158,419	287,988,301	289,593,172	81%	2.43%	3.00%
13	7,157	239,814,857	246,349,894	247,009,303	91%	2.73%	3.00%
14	7,034	243,338,673	249,546,169	250,638,833	85%	2.55%	3.00%
15	6,220	221,743,785	228,917,424	228,396,099	108%	3.24%	3.00%
16	5,708	208,684,150	214,914,622	214,944,675	100%	2.99%	3.00%
17	5,008	190,027,437	196,217,945	195,728,260	109%	3.26%	3.00%
18	4,786	191,807,127	197,759,392	197,561,341	103%	3.10%	3.00%
19	4,047	170,801,747	175,915,601	175,925,799	100%	2.99%	3.00%
20	3,624	162,861,636	166,877,458	169,376,101	62%	2.47%	4.00%
21	3,084	145,461,474	148,917,310	151,279,933	59%	2.38%	4.00%
22	2,878	142,116,443	144,852,252	147,801,101	48%	1.93%	4.00%
23	2,187	112,527,475	115,450,175	117,028,574	65%	2.60%	4.00%
24	1,835	101,965,318	104,769,569	106,043,931	69%	2.75%	4.00%
25	1,351	79,524,517	81,334,943	82,705,498	57%	2.28%	4.00%
26	1,170	70,607,787	72,293,465	73,432,098	60%	2.39%	4.00%
27	913	57,418,470	59,099,070	59,715,209	73%	2.93%	4.00%
28	863	56,634,073	57,958,217	58,899,436	58%	2.34%	4.00%
29	623	41,264,932	42,140,641	42,915,529	53%	2.12%	4.00%
30+	657	41,191,822	42,322,024	42,839,495	69%	2.74%	4.00%
Total	210,800	7,383,824,221	7,660,149,280	7,706,556,230	86%	3.74%	4.37%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	10,073	\$ 284,117,355	\$ 304,755,343	\$ 301,164,396	121%	7.26%	6.00%
1	13,161	430,730,784	447,802,721	452,267,323	79%	3.96%	5.00%
2	14,019	466,422,834	479,865,653	485,079,747	72%	2.88%	4.00%
3	13,188	426,202,996	436,058,033	438,989,086	77%	2.31%	3.00%
4	14,284	473,442,796	482,984,667	485,278,866	81%	2.02%	2.50%
5	12,962	419,232,758	426,259,166	427,617,413	84%	1.68%	2.00%
6	13,033	425,919,517	431,002,856	434,011,988	63%	1.19%	1.90%
7	11,785	385,114,433	389,218,783	392,046,493	59%	1.07%	1.80%
8	11,353	370,517,528	373,979,954	376,816,326	55%	0.93%	1.70%
9	10,103	325,231,803	327,296,509	330,435,512	40%	0.63%	1.60%
10	10,252	330,138,284	332,673,712	335,090,358	51%	0.77%	1.50%
11	8,933	287,802,991	289,676,198	292,120,036	43%	0.65%	1.50%
12	8,509	281,158,419	283,563,219	285,375,795	57%	0.86%	1.50%
13	7,157	239,814,857	241,108,692	243,412,080	36%	0.54%	1.50%
14	7,034	243,338,673	245,127,316	246,988,753	49%	0.74%	1.50%
15	6,220	221,743,785	223,338,014	225,069,942	48%	0.72%	1.50%
16	5,708	208,684,150	210,362,122	211,710,070	55%	0.80%	1.45%
17	5,008	190,027,437	191,386,013	192,687,821	51%	0.71%	1.40%
18	4,786	191,807,127	193,261,495	194,396,523	56%	0.76%	1.35%
19	4,047	170,801,747	171,748,152	173,022,170	43%	0.55%	1.30%
20	3,624	162,861,636	164,025,547	164,897,406	57%	0.71%	1.25%
21	3,084	145,461,474	146,307,707	147,207,012	48%	0.58%	1.20%
22	2,878	142,116,443	142,764,877	143,750,782	40%	0.46%	1.15%
23	2,187	112,527,475	113,146,990	113,765,277	50%	0.55%	1.10%
24	1,835	101,965,318	102,935,397	103,035,954	91%	0.95%	1.05%
25	1,351	79,524,517	79,979,774	80,319,762	57%	0.57%	1.00%
26	1,170	70,607,787	70,607,787	71,313,865		0.00%	1.00%
27	913	57,418,470	57,418,470	57,992,655		0.00%	1.00%
28	863	56,634,073	56,634,073	57,200,414		0.00%	1.00%
29	623	41,264,932	41,264,932	41,677,581		0.00%	1.00%
30+	657	41,191,822	41,191,822	41,603,740		0.00%	1.00%
Total	210,800	7,383,824,221	7,497,745,998	7,546,345,147	70%	1.54%	2.20%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%. Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 11B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	10,073	\$ 284,117,355	\$ 304,755,343	\$ 301,164,396	121%	7.26%	6.00%
1	13,161	430,730,784	447,802,721	452,267,323	79%	3.96%	5.00%
2	14,019	466,422,834	479,865,653	478,083,405	115%	2.88%	2.50%
3	13,188	426,202,996	436,058,033	438,989,086	77%	2.31%	3.00%
4	14,284	473,442,796	482,984,667	485,278,866	81%	2.02%	2.50%
5	12,962	419,232,758	426,259,166	427,617,413	84%	1.68%	2.00%
6	13,033	425,919,517	431,002,856	429,326,873	149%	1.19%	0.80%
7	11,785	385,114,433	389,218,783	387,425,120	178%	1.07%	0.60%
8	11,353	370,517,528	373,979,954	371,999,598	234%	0.93%	0.40%
9	10,103	325,231,803	327,296,509	325,882,267	317%	0.63%	0.20%
10	10,252	330,138,284	332,673,712	330,138,284		0.77%	0.00%
11	8,933	287,802,991	289,676,198	287,802,991		0.65%	0.00%
12	8,509	281,158,419	283,563,219	281,158,419		0.86%	0.00%
13	7,157	239,814,857	241,108,692	239,814,857		0.54%	0.00%
14	7,034	243,338,673	245,127,316	243,338,673		0.74%	0.00%
15	6,220	221,743,785	223,338,014	221,743,785		0.72%	0.00%
16	5,708	208,684,150	210,362,122	208,684,150		0.80%	0.00%
17	5,008	190,027,437	191,386,013	190,027,437		0.71%	0.00%
18	4,786	191,807,127	193,261,495	191,807,127		0.76%	0.00%
19	4,047	170,801,747	171,748,152	170,801,747		0.55%	0.00%
20	3,624	162,861,636	164,025,547	164,490,252	71%	0.71%	1.00%
21	3,084	145,461,474	146,307,707	146,916,089	58%	0.58%	1.00%
22	2,878	142,116,443	142,764,877	143,537,607	46%	0.46%	1.00%
23	2,187	112,527,475	113,146,990	113,652,750	55%	0.55%	1.00%
24	1,835	101,965,318	102,935,397	102,984,971	95%	0.95%	1.00%
25	1,351	79,524,517	79,979,774	80,319,762	57%	0.57%	1.00%
26	1,170	70,607,787	70,607,787	71,313,865		0.00%	1.00%
27	913	57,418,470	57,418,470	57,992,655		0.00%	1.00%
28	863	56,634,073	56,634,073	57,200,414		0.00%	1.00%
29	623	41,264,932	41,264,932	41,677,581		0.00%	1.00%
30+	657	41,191,822	41,191,822	41,603,740		0.00%	1.00%
Total	210,800	7,383,824,221	7,497,745,998	7,485,041,503	113%	1.54%	1.37%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 11C Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013					
		Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (5)	Increase %	
						Actual (4) / (3)	Expected (5) / (3)
						(6)	(7)
2004	19,903	\$ 580,602,445	\$ 594,706,954	\$ 611,109,306	46%	2.43%	5.25%
2005	20,452	610,708,346	638,732,046	642,465,617	88%	4.59%	5.20%
2006	20,819	644,442,229	681,475,812	677,833,228	111%	5.75%	5.18%
2007	20,278	668,987,914	723,711,773	703,560,124	158%	8.18%	5.17%
2008	21,008	742,643,685	789,055,603	780,650,985	122%	6.25%	5.12%
2009	21,647	807,625,381	855,286,040	849,150,941	115%	5.90%	5.14%
2010	21,671	858,736,355	850,800,262	902,611,680	-18%	-0.92%	5.11%
2011	21,470	843,936,242	859,561,620	886,695,207	37%	1.85%	5.07%
2012	21,391	856,850,973	840,554,645	900,079,429	-38%	-1.90%	5.05%
2013	24,685	931,790,549	992,537,760	982,703,252	119%	6.52%	5.46%
Total	213,324	7,546,324,119	7,826,422,515	7,936,859,767	72%	3.71%	5.18%

**NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 12A			10-YEAR PERIOD ENDING 6/30/2013		
		Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual (4) / (3)	Expected (5) / (3)
2004	19,903	\$ 580,602,445	\$ 64,764,743	-		11.15%	0.00%
2005	20,452	610,708,346	41,708,574	-		6.83%	0.00%
2006	20,819	644,442,229	133,552,740	-		20.72%	0.00%
2007	20,278	668,987,914	14,065,282	-		2.10%	0.00%
2008	21,008	742,643,685	-	-			0.00%
2009	21,647	807,625,381	14,269	-		0.00%	0.00%
2010	21,671	858,736,355	-	-			0.00%
2011	21,470	843,936,242	-	-			0.00%
2012	21,391	856,850,973	-	-			0.00%
2013	24,685	931,790,549	-	-			0.00%
Total	213,324	7,546,324,119	254,105,608	-		3.37%	0.00%



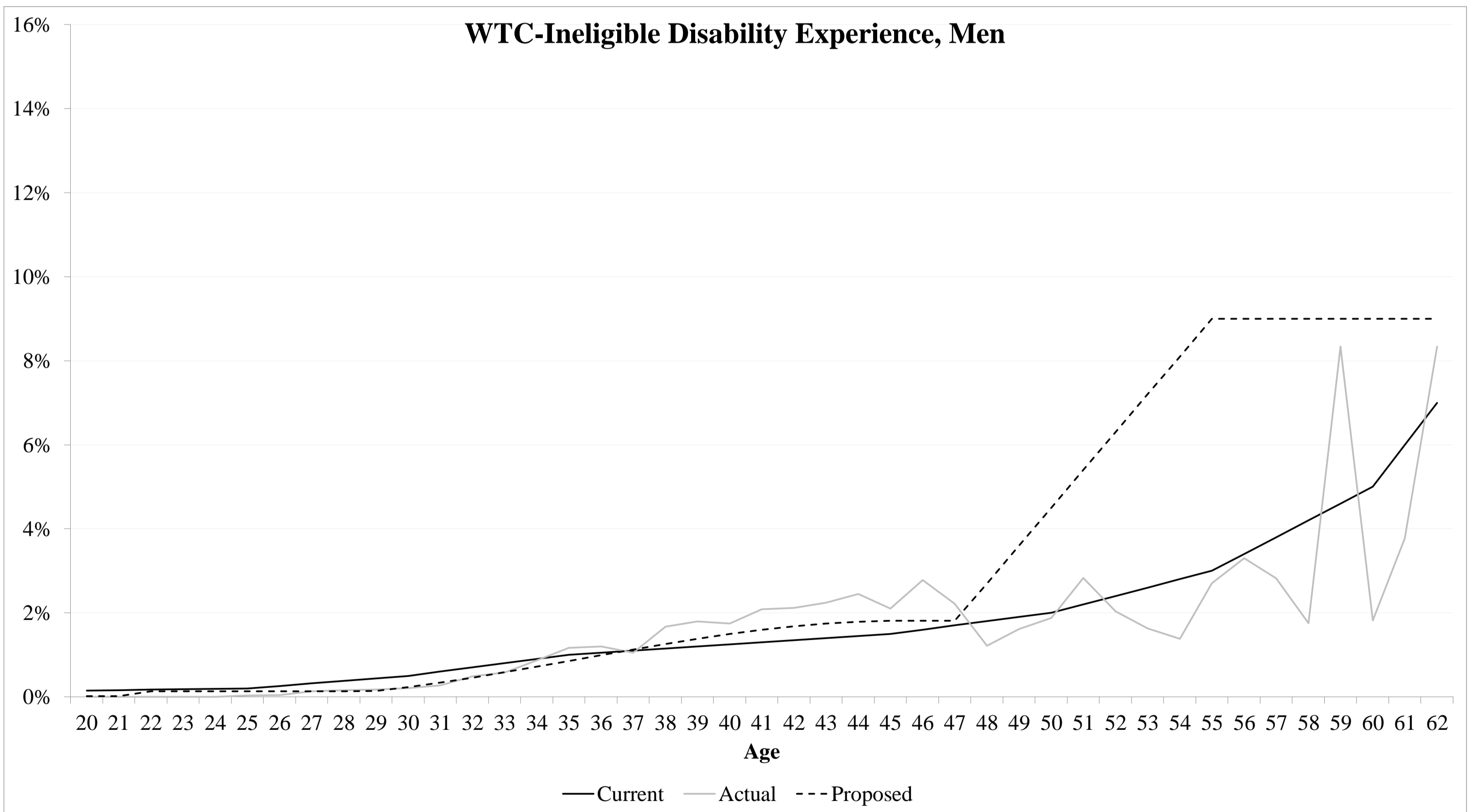
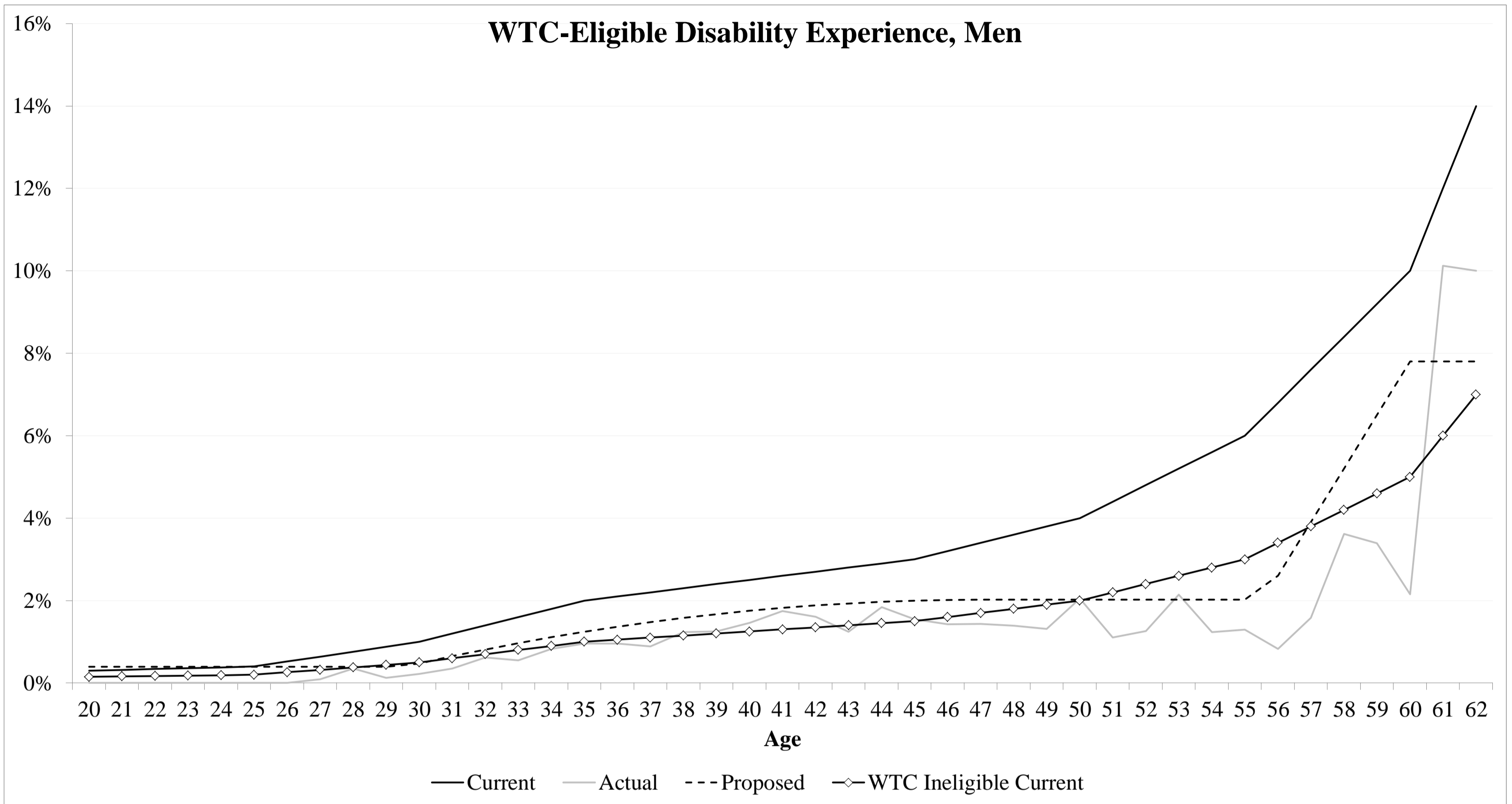
NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Proposed		
1A	Service Retiree Mortality						
1B	Men By Year	96%	520	97%	97%	503	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
2A	Disabled Retiree Mortality						
2B	Men By Year	89%	311	88%	94%	286	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
3A	Active Member Withdrawals						
3B	By Year	82%	318	137%	137%	537	Actual experience has been trending downward. Recommend no change at this time as different timeframes provide different results.
4A	Active Member Service Retirements						
4B	In 1st Year of Eligibility	71%	602	97%	97%	886	Recent experience has been consistent with OA assumption.
4C	In 2nd Year of Eligibility	136%	140	114%	114%	104	
4D	After 2nd Year of Eligibility By Year	101%	382	88%	88%	239	
5A	Active Member Ordinary Mortality						
5B	Men By Year	76%	14	94%	94%	16	Actual experience has been consistent with current assumption, with trend lowering recently. We recommend no change.
6A	Active Member Accidental Mortality						
6B	By Year	45%	3	61%	76%	4	Actual experience appears lower than current assumption. We recommend a lower assumption.
7A	Active Member Ordinary Disability						
7B	By Year	95%	51	118%	118%	63	Recent experience has been consistent with OA assumption.
8A	Active Member Accidental Disability						
8B	WTC Eligible	54%	241	49%	76%	226	Actual experience has been lower than current assumption.
8C	WTC Ineligible By Year	67%	91	105%	104%	134	Members that are and are not eligible for WTC benefits appear to have similar actual experience. New rates, exponentially-fitted to actual data, are proposed for both those eligible and not eligible for WTC Disability.
9A	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Overall, salary experience has outpaced the assumption. We recommend a higher merit portion of the salary scale.
9B	Total	7.54%	8.21%	7.37%	6.34%	8.07%	
9C	Merit Only	4.54%	6.68%	4.37%	2.34%	3.21%	
9D	General Increase over Inflation	0.50%	-0.47%	0.50%	0.50%	0.62%	
10A	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Recommend a flat assumption for OT and OT in year before disability. Recommend a higher OT assumption before retirement.
10B	For All Years	14.76%	16.92%	14.84%	16.00%	17.23%	Members are working less Overtime before becoming disabled.
10C	In Year Before Service Retirement	14.03%	21.12%	14.42%	22.00%	23.89%	
10D	In Year Before Disability Retirement By Year	14.73%	11.13%	14.75%	16.00%	11.54%	

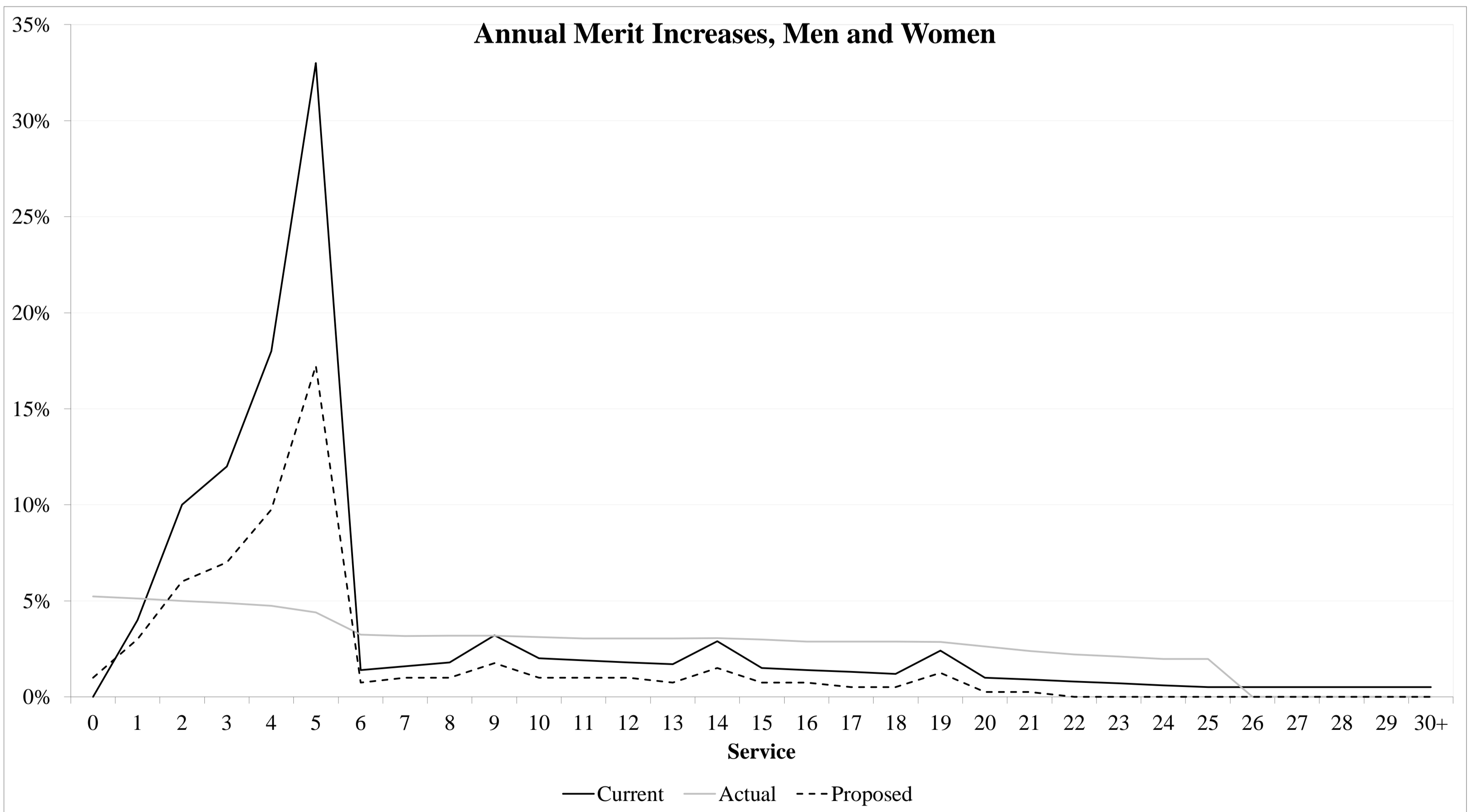
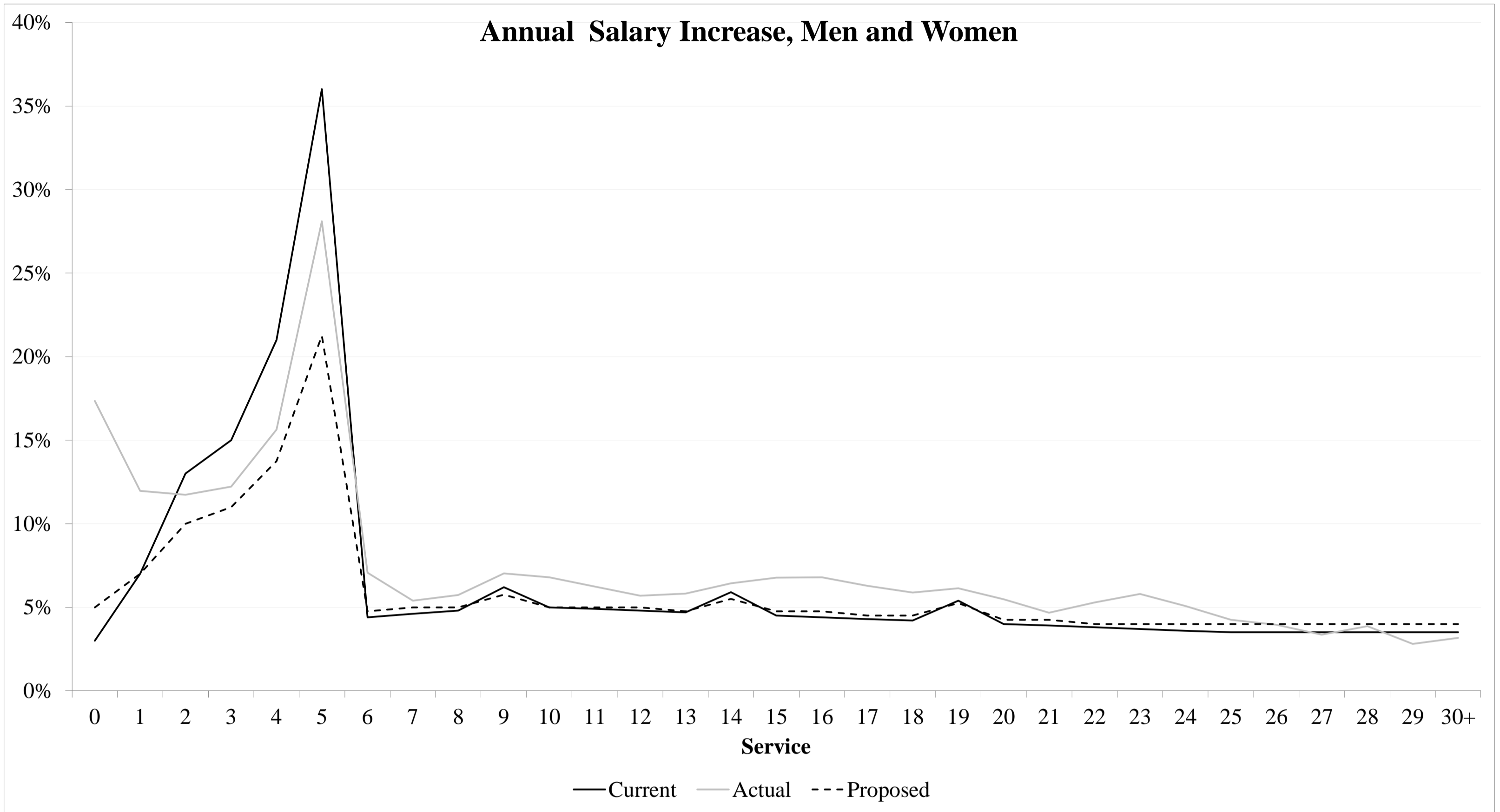
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

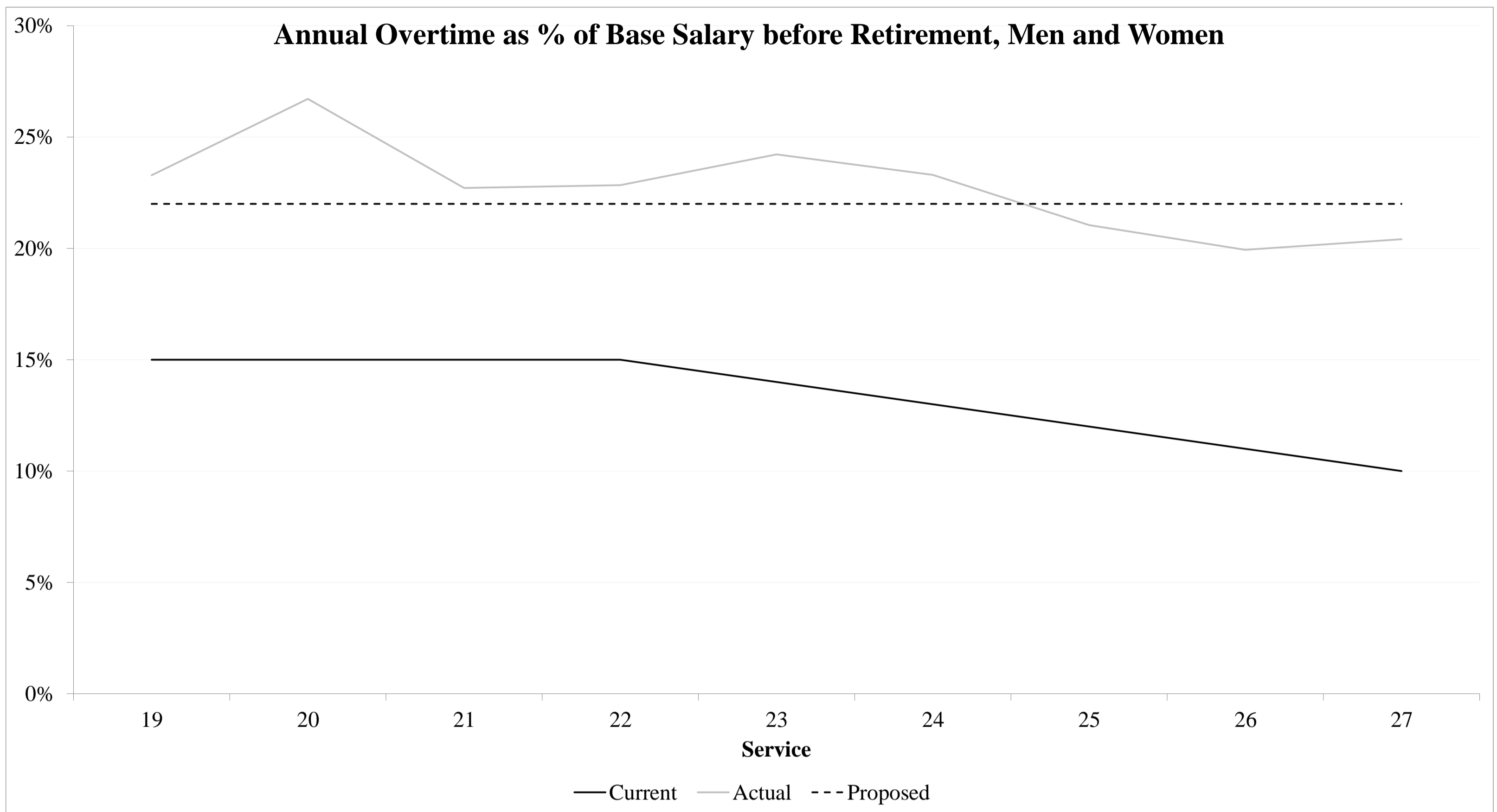
**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
SALARY ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**



NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	308	0.00000	0.115%	0.085%	0.4	0.3	0%	0%
42	1	640	0.00156	0.127%	0.092%	0.8	0.6	123%	169%
43	1	1,100	0.00091	0.138%	0.101%	1.5	1.1	66%	90%
44	0	1,741	0.00000	0.149%	0.110%	2.6	1.9	0%	0%
45	1	2,422	0.00041	0.159%	0.119%	3.9	2.9	26%	35%
46	2	3,013	0.00066	0.169%	0.129%	5.1	3.9	39%	51%
47	2	3,532	0.00057	0.179%	0.140%	6.3	4.9	32%	41%
48	7	3,889	0.00180	0.188%	0.151%	7.3	5.9	96%	119%
49	6	4,103	0.00146	0.196%	0.163%	8.1	6.7	75%	90%
50	7	4,196	0.00167	0.204%	0.176%	8.6	7.4	82%	95%
51	8	4,095	0.00195	0.265%	0.192%	10.9	7.8	74%	102%
52	8	3,760	0.00213	0.323%	0.210%	12.1	7.9	66%	101%
53	10	3,351	0.00298	0.382%	0.232%	12.8	7.8	78%	129%
54	12	2,976	0.00403	0.439%	0.258%	13.1	7.7	92%	156%
55	8	2,529	0.00316	0.474%	0.289%	12.0	7.3	67%	109%
56	6	2,190	0.00274	0.526%	0.325%	11.5	7.1	52%	84%
57	9	1,950	0.00462	0.579%	0.366%	11.3	7.1	80%	126%
58	6	1,763	0.00340	0.634%	0.412%	11.2	7.3	54%	83%
59	9	1,722	0.00523	0.683%	0.464%	11.8	8.0	77%	113%
60	9	1,808	0.00498	0.732%	0.522%	13.2	9.4	68%	95%
61	12	1,905	0.00630	0.822%	0.588%	15.7	11.2	77%	107%
62	8	2,089	0.00383	0.909%	0.661%	19.0	13.8	42%	58%
63	18	2,337	0.00770	1.007%	0.744%	23.5	17.4	76%	103%
64	29	2,482	0.01168	1.101%	0.838%	27.3	20.8	106%	139%
65	21	2,588	0.00811	1.198%	0.943%	31.0	24.4	68%	86%
66	32	2,812	0.01138	1.309%	1.061%	36.8	29.8	87%	107%
67	43	3,056	0.01407	1.413%	1.195%	43.2	36.5	100%	118%
68	46	3,199	0.01438	1.609%	1.345%	51.5	43.0	89%	107%
69	57	3,190	0.01787	1.823%	1.514%	58.2	48.3	98%	118%
70	43	2,940	0.01463	2.028%	1.704%	59.6	50.1	72%	86%
71	38	2,569	0.01479	2.256%	1.918%	57.9	49.3	66%	77%
72	54	2,242	0.02409	2.490%	2.158%	55.8	48.4	97%	112%
73	46	2,041	0.02254	2.770%	2.429%	56.5	49.6	81%	93%
74	59	1,838	0.03210	3.058%	2.734%	56.2	50.3	105%	117%
75	42	1,624	0.02586	3.382%	3.078%	54.9	50.0	76%	84%
76	58	1,515	0.03828	3.690%	3.464%	55.9	52.5	104%	111%
77	50	1,343	0.03723	4.039%	3.899%	54.2	52.4	92%	95%
78	57	1,236	0.04612	4.588%	4.389%	56.7	54.2	101%	105%
79	60	1,174	0.05111	5.160%	4.940%	60.6	58.0	99%	103%
80	78	1,233	0.06326	5.757%	5.560%	71.0	68.6	110%	114%
81	80	1,227	0.06520	6.275%	6.258%	77.0	76.8	104%	104%
82	80	1,167	0.06855	6.800%	7.044%	79.4	82.2	101%	97%
83	86	1,113	0.07727	7.687%	7.929%	85.6	88.2	101%	97%
84	87	962	0.09044	8.643%	8.924%	83.1	85.9	105%	101%
85	82	862	0.09513	9.536%	10.045%	82.2	86.6	100%	95%
86	100	771	0.12970	10.429%	11.306%	80.4	87.2	124%	115%
87	82	720	0.11389	11.414%	12.726%	82.2	91.6	100%	89%
88	102	642	0.15888	12.970%	14.324%	83.3	92.0	122%	111%
89	85	540	0.15741	14.434%	16.122%	77.9	87.1	109%	98%
90	69	449	0.15367	16.026%	18.147%	72.0	81.5	96%	85%
91	65	343	0.18950	17.734%	20.426%	60.8	70.1	107%	93%
92	56	275	0.20364	19.612%	22.990%	53.9	63.2	104%	89%
93	52	214	0.24299	21.351%	25.877%	45.7	55.4	114%	94%
94	34	151	0.22517	23.132%	29.127%	34.9	44.0	97%	77%
95	26	104	0.25000	25.189%	32.784%	26.2	34.1	99%	76%
96	8	55	0.14545	27.102%	36.901%	14.9	20.3	54%	39%
97	10	39	0.25641	28.924%	41.534%	11.3	16.2	89%	62%
98	6	17	0.35294	30.985%	46.749%	5.3	7.9	114%	75%
99	2	7	0.28571	32.630%	50.000%	2.3	3.5	88%	57%
Subtotal	2,075	104,159				2,168.2	2,115.1	96%	98%
100 or more	4	13	0.30769	37.169%	50.000%	4.8	6.5	83%	62%
Total	2,079	104,172				2,173.0	2,121.6	96%	98%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	2	3,789	0.000528	0.1393%	0.1021%	5.3	3.9	38%	52%
45-49	18	16,959	0.001061	0.1805%	0.1430%	30.6	24.2	59%	74%
50-54	45	18,378	0.002449	0.3124%	0.2099%	57.4	38.6	78%	117%
55-59	38	10,154	0.003742	0.5685%	0.3626%	57.7	36.8	66%	103%
60-64	76	10,621	0.007156	0.9297%	0.6839%	98.7	72.6	77%	105%
65-69	199	14,845	0.013405	1.4861%	1.2264%	220.6	182.1	90%	109%
70-74	240	11,630	0.020636	2.4604%	2.1288%	286.1	247.6	84%	97%
75-79	267	6,892	0.038741	4.0968%	3.8751%	282.4	267.1	95%	100%
80-84	411	5,702	0.072080	6.9456%	7.0440%	396.0	401.7	104%	102%
85-89	451	3,535	0.127581	11.4853%	12.5716%	406.0	444.4	111%	101%
90-94	276	1,432	0.192737	18.6688%	21.9359%	267.3	314.1	103%	88%
95-99	52	222	0.234234	26.9974%	36.9533%	59.9	82.0	87%	63%
100+	4	13	0.307692	37.1685%	50.0000%	4.8	6.5	83%	62%
Total	2,079	104,172				2,173.0	2,121.6	96%	98%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND**  
**MORTALITY EXPERIENCE OF SERVICE RETIREES**  
**MEN**

**TABLE 1A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	1	1,587	0.00063	0.118%	0.092%	1.9	1.5	53%	69%
42	4	3,029	0.00132	0.131%	0.101%	4.0	3.0	101%	131%
43	3	4,395	0.00068	0.143%	0.110%	6.3	4.8	48%	62%
44	5	5,635	0.00089	0.154%	0.119%	8.7	6.7	57%	74%
45	5	6,715	0.00074	0.166%	0.130%	11.1	8.7	45%	57%
46	11	7,500	0.00147	0.177%	0.140%	13.2	10.5	83%	105%
47	11	8,015	0.00137	0.187%	0.151%	15.0	12.1	73%	91%
48	18	8,094	0.00222	0.197%	0.162%	15.9	13.1	113%	138%
49	17	7,945	0.00214	0.207%	0.173%	16.4	13.7	104%	124%
50	16	7,665	0.00209	0.216%	0.186%	16.5	14.2	97%	112%
51	20	7,242	0.00276	0.281%	0.201%	20.3	14.5	98%	138%
52	21	6,678	0.00314	0.343%	0.218%	22.9	14.5	92%	144%
53	18	6,102	0.00295	0.405%	0.239%	24.7	14.6	73%	124%
54	19	5,631	0.00337	0.466%	0.263%	26.3	14.8	72%	128%
55	16	5,275	0.00303	0.502%	0.293%	26.5	15.5	60%	104%
56	25	5,161	0.00484	0.556%	0.329%	28.7	17.0	87%	147%
57	25	5,182	0.00482	0.610%	0.370%	31.6	19.2	79%	131%
58	33	5,230	0.00631	0.665%	0.417%	34.8	21.8	95%	151%
59	28	5,418	0.00517	0.717%	0.472%	38.8	25.6	72%	110%
60	29	5,875	0.00494	0.769%	0.534%	45.2	31.4	64%	92%
61	44	6,392	0.00688	0.860%	0.606%	55.0	38.8	80%	114%
62	55	6,781	0.00811	0.951%	0.688%	64.5	46.6	85%	118%
63	68	7,084	0.00960	1.050%	0.780%	74.4	55.3	91%	123%
64	84	7,255	0.01158	1.148%	0.884%	83.3	64.1	101%	131%
65	84	7,253	0.01158	1.250%	1.001%	90.6	72.6	93%	116%
66	100	7,058	0.01417	1.361%	1.132%	96.1	79.9	104%	125%
67	112	6,838	0.01638	1.470%	1.279%	100.5	87.5	111%	128%
68	92	6,607	0.01392	1.678%	1.444%	110.9	95.4	83%	96%
69	115	6,279	0.01832	1.902%	1.630%	119.4	102.3	96%	112%
70	93	5,738	0.01621	2.123%	1.839%	121.8	105.5	76%	88%
71	84	5,138	0.01635	2.360%	2.074%	121.3	106.5	69%	79%
72	123	4,708	0.02613	2.606%	2.338%	122.7	110.1	100%	112%
73	121	4,334	0.02792	2.898%	2.635%	125.6	114.2	96%	106%
74	129	4,126	0.03127	3.200%	2.968%	132.0	122.5	98%	105%
75	116	3,921	0.02958	3.528%	3.342%	138.3	131.1	84%	89%
76	135	3,772	0.03579	3.849%	3.763%	145.2	141.9	93%	95%
77	133	3,588	0.03707	4.201%	4.234%	150.7	151.9	88%	88%
78	183	3,446	0.05311	4.757%	4.762%	163.9	164.1	112%	112%
79	172	3,295	0.05220	5.334%	5.354%	175.8	176.4	98%	97%
80	204	3,170	0.06435	5.934%	6.020%	188.1	190.8	108%	107%
81	198	3,054	0.06483	6.448%	6.767%	196.9	206.7	101%	96%
82	215	2,882	0.07460	6.966%	7.606%	200.8	219.2	107%	98%
83	207	2,673	0.07744	7.874%	8.548%	210.5	228.5	98%	91%
84	203	2,369	0.08569	8.827%	9.608%	209.1	227.6	97%	89%
85	214	2,141	0.09995	9.739%	10.799%	208.5	231.2	103%	93%
86	238	1,915	0.12428	10.651%	12.136%	204.0	232.4	117%	102%
87	189	1,638	0.11538	11.622%	13.638%	190.4	223.4	99%	85%
88	195	1,390	0.14029	13.167%	15.320%	183.0	213.0	107%	92%
89	173	1,117	0.15488	14.653%	17.205%	163.7	192.2	106%	90%
90	148	867	0.17070	16.220%	19.316%	140.6	167.5	105%	88%
91	115	641	0.17941	17.949%	21.680%	115.1	139.0	100%	83%
92	89	471	0.18896	19.790%	24.320%	93.2	114.5	95%	78%
93	84	350	0.24000	21.544%	27.263%	75.4	95.4	111%	88%
94	63	241	0.26141	23.341%	30.571%	56.3	73.7	112%	86%
95	51	170	0.30000	25.341%	34.298%	43.1	58.3	118%	87%
96	25	101	0.24752	27.265%	38.510%	27.5	38.9	91%	64%
97	18	67	0.26866	29.098%	43.241%	19.5	29.0	92%	62%
98	9	40	0.22500	31.078%	48.552%	12.4	19.4	72%	46%
99	11	27	0.40741	32.728%	51.807%	8.8	14.0	124%	79%
Subtotal	5,017	247,311				5,147.7	5,158.4	97%	97%
100 or more	12	28	0.42857	37.169%	51.682%	10.4	14.5	115%	83%
Total	5,029	247,339				5,158.1	5,172.9	97%	97%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41-44	13	14,646	0.000888	0.1421%	0.1097%	20.8	16.1	62%	81%
45-49	62	38,269	0.001620	0.1874%	0.1518%	71.7	58.1	86%	107%
50-54	94	33,318	0.002821	0.3325%	0.2182%	110.8	72.7	85%	129%
55-59	127	26,266	0.004835	0.6105%	0.3767%	160.3	98.9	79%	128%
60-64	280	33,387	0.008386	0.9655%	0.7075%	322.4	236.2	87%	119%
65-69	503	34,035	0.014779	1.5206%	1.2859%	517.5	437.7	97%	115%
70-74	550	24,044	0.022875	2.5926%	2.3239%	623.4	558.8	88%	98%
75-79	739	18,022	0.041005	4.2945%	4.2473%	773.9	765.4	95%	97%
80-84	1,027	14,148	0.072590	7.1060%	7.5826%	1,005.3	1,072.8	102%	96%
85-89	1,009	8,201	0.123034	11.5784%	13.3170%	949.5	1,092.1	106%	92%
90-94	499	2,570	0.194163	18.6981%	22.9603%	480.5	590.1	104%	85%
95-99	114	405	0.281481	27.5013%	39.4029%	111.4	159.6	102%	71%
100+	12	28	0.428571	37.1685%	51.6818%	10.4	14.5	115%	83%
Total	5,029	247,339				5,158.1	5,172.9	97%	97%



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1B		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	22,629	470	346.5	136%	2.0770%	1.5312%
2005	23,879	516	358.9	144%	2.1609%	1.5029%
2006	25,386	458	370.4	124%	1.8041%	1.4592%
2007	26,669	506	383.6	132%	1.8973%	1.4383%
2008	27,655	532	398.0	134%	1.9237%	1.4393%
2009	27,960	526	411.2	128%	1.8813%	1.4708%
2010	27,853	504	423.7	119%	1.8095%	1.5211%
2011	28,138	551	436.2	126%	1.9582%	1.5502%
2012	29,206	506	445.6	114%	1.7325%	1.5257%
2013	30,079	557	459.2	121%	1.8518%	1.5268%
Total	269,454	5,126	4033.4	127%	1.9024%	1.4969%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	4	973	0.00411	0.183%	0.089%	1.8	0.9	225%	461%
42	3	1,107	0.00271	0.200%	0.148%	2.2	1.6	136%	183%
43	2	1,167	0.00171	0.216%	0.207%	2.5	2.4	79%	83%
44	1	1,246	0.00080	0.232%	0.266%	2.9	3.3	35%	30%
45	1	1,331	0.00075	0.248%	0.325%	3.3	4.3	30%	23%
46	3	1,444	0.00208	0.254%	0.384%	3.7	5.6	82%	54%
47	6	1,518	0.00395	0.260%	0.443%	3.9	6.7	152%	89%
48	8	1,499	0.00534	0.264%	0.466%	4.0	7.0	202%	115%
49	8	1,489	0.00537	0.333%	0.488%	5.0	7.3	161%	110%
50	4	1,435	0.00279	0.396%	0.510%	5.7	7.3	70%	55%
51	4	1,303	0.00307	0.450%	0.533%	5.9	6.9	68%	58%
52	4	1,205	0.00332	0.498%	0.555%	6.0	6.7	67%	60%
53	8	1,092	0.00733	0.517%	0.578%	5.6	6.3	142%	127%
54	5	927	0.00539	0.543%	0.600%	5.0	5.6	99%	90%
55	4	786	0.00509	0.595%	0.622%	4.7	4.9	86%	82%
56	7	638	0.01097	0.651%	0.645%	4.2	4.1	169%	170%
57	5	586	0.00853	0.692%	0.667%	4.1	3.9	123%	128%
58	4	613	0.00653	0.732%	0.726%	4.5	4.5	89%	90%
59	8	710	0.01127	0.833%	0.786%	5.9	5.6	135%	143%
60	10	940	0.01064	0.921%	0.845%	8.7	7.9	116%	126%
61	11	1,110	0.00991	1.020%	0.904%	11.3	10.0	97%	110%
62	11	1,335	0.00824	1.116%	0.964%	14.9	12.9	74%	85%
63	14	1,568	0.00893	1.198%	1.097%	18.8	17.2	75%	81%
64	32	1,675	0.01910	1.326%	1.230%	22.2	20.6	144%	155%
65	21	1,755	0.01197	1.432%	1.363%	25.1	23.9	84%	88%
66	30	1,862	0.01611	1.588%	1.496%	29.6	27.9	101%	108%
67	24	1,944	0.01235	1.799%	1.629%	35.0	31.7	69%	76%
68	35	1,952	0.01793	2.002%	1.872%	39.1	36.5	90%	96%
69	36	1,865	0.01930	2.226%	2.116%	41.5	39.5	87%	91%
70	28	1,607	0.01742	2.490%	2.359%	40.0	37.9	70%	74%
71	34	1,302	0.02611	2.770%	2.603%	36.1	33.9	94%	100%
72	31	1,137	0.02726	3.058%	2.846%	34.8	32.4	89%	96%
73	29	972	0.02984	3.427%	3.237%	33.3	31.5	87%	92%
74	31	899	0.03448	3.739%	3.628%	33.6	32.6	92%	95%
75	22	812	0.02709	4.093%	4.019%	33.2	32.6	66%	67%
76	32	719	0.04451	4.710%	4.410%	33.9	31.7	94%	101%
77	28	680	0.04118	5.298%	4.801%	36.0	32.6	78%	86%
78	37	664	0.05572	5.911%	5.376%	39.2	35.7	94%	104%
79	41	665	0.06165	6.442%	5.951%	42.8	39.6	96%	104%
80	48	692	0.06936	6.981%	6.526%	48.3	45.2	99%	106%
81	53	708	0.07486	7.788%	7.101%	55.1	50.3	96%	105%
82	43	698	0.06160	8.757%	7.676%	61.1	53.6	70%	80%
83	58	695	0.08345	9.662%	8.472%	67.1	58.9	86%	99%
84	64	636	0.10063	10.429%	9.268%	66.3	58.9	96%	109%
85	43	527	0.08159	11.565%	10.064%	60.9	53.0	71%	81%
86	53	453	0.11700	13.314%	10.860%	60.3	49.2	88%	108%
87	47	370	0.12703	14.624%	11.656%	54.1	43.1	87%	109%
88	34	272	0.12500	16.236%	12.710%	44.2	34.6	77%	98%
89	37	234	0.15812	17.967%	13.764%	42.0	32.2	88%	115%
90	35	189	0.18519	19.870%	14.817%	37.6	28.0	93%	125%
91	32	145	0.22069	21.631%	15.871%	31.4	23.0	102%	139%
92	25	110	0.22727	23.132%	16.925%	25.4	18.6	98%	134%
93	18	74	0.24324	25.519%	18.273%	18.9	13.5	95%	133%
94	14	47	0.29787	27.458%	19.622%	12.9	9.2	108%	152%
95	6	29	0.20690	28.924%	20.970%	8.4	6.1	72%	99%
96	6	15	0.40000	31.391%	22.319%	4.7	3.3	127%	179%
97	1	8	0.12500	33.058%	23.667%	2.6	1.9	38%	53%
98	0	4	0.00000	34.044%	25.347%	1.4	1.0	0%	0%
99	0	1	0.00000	36.332%	27.027%	0.4	0.3	0%	0%
Subtotal	1,243	52,439				1,393.1	1,247.5	89%	100%
100 or more	0	1	0.00000	39.200%	32.066%	0.4	0.3	0%	0%
Total	1,243	52,440				1,393.5	1,247.8	89%	100%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u>	<u>Actual Deaths</u>	<u>Total Exposed</u>	<u>Actual Rate (2) / (3)</u>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u>	<u>Proposed (8) / (3)</u>	<u>Expected (7)</u>	<u>Proposed (8)</u>	<u>Expected (2) / (7)</u>	<u>Proposed (2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
41-44	10	4,493	0.002226	0.2092%	0.1835%	9.4	8.2	106%	121%
45-49	26	7,281	0.003571	0.2724%	0.4239%	19.8	30.9	131%	84%
50-54	25	5,962	0.004193	0.4735%	0.5506%	28.2	32.8	89%	76%
55-59	28	3,333	0.008401	0.6986%	0.6885%	23.3	22.9	120%	122%
60-64	78	6,628	0.011768	1.1447%	1.0357%	75.9	68.6	103%	114%
65-69	146	9,378	0.015568	1.8156%	1.7001%	170.3	159.4	86%	92%
70-74	153	5,917	0.025858	3.0044%	2.8436%	177.8	168.3	86%	91%
75-79	160	3,540	0.045198	5.2320%	4.8661%	185.2	172.3	86%	93%
80-84	266	3,429	0.077574	8.6920%	7.7819%	298.0	266.8	89%	100%
85-89	214	1,856	0.115302	14.0934%	11.4300%	261.6	212.1	82%	101%
90-94	124	565	0.219469	22.3280%	16.3506%	126.2	92.4	98%	134%
95-99	13	57	0.228070	30.6425%	22.1170%	17.5	12.6	74%	103%
100+	0	1	0.000000	39.2003%	32.0661%	0.4	0.3	0%	0%
Total	1,243	52,440				1,393.5	1,247.8	89%	100%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	8	2,449	0.00327	0.188%	0.097%	4.6	2.4	174%	338%
42	7	2,749	0.00255	0.206%	0.161%	5.7	4.4	124%	158%
43	4	2,960	0.00135	0.223%	0.226%	6.6	6.7	61%	60%
44	8	3,083	0.00259	0.240%	0.290%	7.4	9.0	108%	89%
45	11	3,181	0.00346	0.258%	0.354%	8.2	11.3	134%	98%
46	8	3,218	0.00249	0.265%	0.417%	8.5	13.4	94%	60%
47	9	3,167	0.00284	0.272%	0.478%	8.6	15.1	105%	59%
48	11	3,020	0.00364	0.277%	0.499%	8.4	15.1	131%	73%
49	12	2,805	0.00428	0.351%	0.519%	9.8	14.6	122%	82%
50	6	2,554	0.00235	0.418%	0.539%	10.7	13.8	56%	44%
51	5	2,341	0.00214	0.477%	0.558%	11.2	13.1	45%	38%
52	7	2,208	0.00317	0.529%	0.576%	11.7	12.7	60%	55%
53	15	2,106	0.00712	0.549%	0.594%	11.6	12.5	130%	120%
54	15	2,121	0.00707	0.577%	0.612%	12.2	13.0	122%	116%
55	13	2,206	0.00589	0.630%	0.631%	13.9	13.9	94%	93%
56	16	2,395	0.00668	0.687%	0.651%	16.5	15.6	97%	103%
57	24	2,645	0.00907	0.729%	0.674%	19.3	17.8	125%	135%
58	19	2,920	0.00651	0.769%	0.735%	22.4	21.5	85%	88%
59	28	3,250	0.00862	0.874%	0.799%	28.4	26.0	99%	108%
60	37	3,690	0.01003	0.967%	0.865%	35.7	31.9	104%	116%
61	40	4,089	0.00978	1.068%	0.933%	43.7	38.2	92%	105%
62	43	4,357	0.00987	1.167%	1.002%	50.9	43.7	85%	98%
63	43	4,524	0.00950	1.250%	1.150%	56.5	52.0	76%	83%
64	71	4,481	0.01584	1.384%	1.298%	62.0	58.1	115%	122%
65	59	4,348	0.01357	1.494%	1.446%	65.0	62.9	91%	94%
66	69	4,187	0.01648	1.651%	1.595%	69.1	66.8	100%	103%
67	63	3,904	0.01614	1.871%	1.744%	73.1	68.1	86%	93%
68	67	3,649	0.01836	2.088%	2.011%	76.2	73.4	88%	91%
69	68	3,366	0.02020	2.322%	2.278%	78.2	76.7	87%	89%
70	60	3,008	0.01995	2.606%	2.546%	78.4	76.6	77%	78%
71	76	2,650	0.02868	2.898%	2.815%	76.8	74.6	99%	102%
72	68	2,387	0.02849	3.200%	3.083%	76.4	73.6	89%	92%
73	63	2,214	0.02846	3.586%	3.511%	79.4	77.7	79%	81%
74	83	2,176	0.03814	3.912%	3.939%	85.1	85.7	98%	97%
75	71	2,158	0.03290	4.270%	4.365%	92.1	94.2	77%	75%
76	90	2,120	0.04245	4.914%	4.790%	104.2	101.6	86%	89%
77	101	2,078	0.04860	5.510%	5.213%	114.5	108.3	88%	93%
78	103	2,032	0.05069	6.129%	5.833%	124.5	118.5	83%	87%
79	111	1,967	0.05643	6.659%	6.450%	131.0	126.9	85%	87%
80	135	1,871	0.07215	7.195%	7.066%	134.6	132.2	100%	102%
81	132	1,743	0.07573	8.002%	7.678%	139.5	133.8	95%	99%
82	112	1,576	0.07107	8.970%	8.288%	141.4	130.6	79%	86%
83	119	1,448	0.08218	9.897%	9.134%	143.3	132.3	83%	90%
84	118	1,265	0.09328	10.651%	9.978%	134.7	126.2	88%	93%
85	87	1,070	0.08131	11.811%	10.819%	126.4	115.8	69%	75%
86	109	910	0.11978	13.598%	11.657%	123.7	106.1	88%	103%
87	95	720	0.13194	14.890%	12.491%	107.2	89.9	89%	106%
88	72	539	0.13358	16.482%	13.594%	88.8	73.3	81%	98%
89	59	419	0.14081	18.240%	14.688%	76.4	61.5	77%	96%
90	52	323	0.16099	20.110%	15.772%	65.0	50.9	80%	102%
91	46	236	0.19492	21.893%	16.846%	51.7	39.8	89%	116%
92	36	169	0.21302	23.341%	17.904%	39.4	30.3	91%	119%
93	25	115	0.21739	25.750%	19.252%	29.6	22.1	84%	113%
94	24	72	0.33333	27.706%	20.595%	19.9	14.8	120%	162%
95	12	43	0.27907	29.098%	21.939%	12.5	9.4	96%	127%
96	6	21	0.28571	31.580%	23.292%	6.6	4.9	90%	123%
97	3	11	0.27273	33.257%	24.640%	3.7	2.7	82%	111%
98	1	5	0.20000	34.147%	26.324%	1.7	1.3	59%	76%
99	0	1	0.00000	36.442%	28.004%	0.4	0.3	0%	0%
Subtotal	2,855	127,320				3,244.9	3,039.4	88%	94%
100 or more	0	1	0.00000	39.200%	33.225%	0.4	0.3	0%	0%
Total	2,855	127,321				3,245.3	3,039.8	88%	94%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

<u>Age</u>	<u>Actual Deaths</u>	<u>Total Exposed</u>	<u>Actual Rate (2) / (3)</u>	<u>Assumed Probability</u>		<u>10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u>	<u>Proposed</u>	<u>Expected</u>	<u>Proposed</u>
				<u>(7) / (3)</u>	<u>(8) / (3)</u>	<u>(7)</u>	<u>(8)</u>	<u>(2) / (7)</u>	<u>(2) / (8)</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
41-44	27	11,241	0.002402	0.2160%	0.1997%	24.3	22.4	111%	120%
45-49	51	15,391	0.003314	0.2830%	0.4512%	43.6	69.4	117%	73%
50-54	48	11,330	0.004237	0.5061%	0.5739%	57.3	65.0	84%	74%
55-59	100	13,416	0.007454	0.7490%	0.7065%	100.5	94.8	100%	105%
60-64	234	21,141	0.011069	1.1764%	1.0592%	248.7	223.9	94%	105%
65-69	326	19,454	0.016757	1.8583%	1.7878%	361.5	347.8	90%	94%
70-74	350	12,435	0.028146	3.1852%	3.1220%	396.1	388.2	88%	90%
75-79	476	10,355	0.045968	5.4692%	5.3065%	566.3	549.5	84%	87%
80-84	616	7,903	0.077945	8.7754%	8.2895%	693.5	655.1	89%	94%
85-89	422	3,658	0.115364	14.2862%	12.2089%	522.6	446.6	81%	94%
90-94	183	915	0.200000	22.4733%	17.2597%	205.6	157.9	89%	116%
95-99	22	81	0.271605	30.7085%	23.0019%	24.9	18.6	88%	118%
100+	0	1	0.000000	39.2003%	33.2252%	0.4	0.3	0%	0%
Total	2,855	127,321				3,245.3	3,039.8	88%	94%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2B Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	14,085	243	164.3	148%	1.7252%	1.1663%
2005	14,360	260	173.6	150%	1.8106%	1.2091%
2006	14,552	262	182.0	144%	1.8004%	1.2507%
2007	14,771	287	191.9	150%	1.9430%	1.2991%
2008	14,885	293	199.7	147%	1.9684%	1.3413%
2009	14,971	308	207.4	149%	2.0573%	1.3851%
2010	15,072	296	216.0	137%	1.9639%	1.4330%
2011	15,153	310	223.5	139%	2.0458%	1.4752%
2012	15,241	335	230.2	146%	2.1980%	1.5105%
2013	15,285	342	236.8	144%	2.2375%	1.5494%
Total	148,375	2,936	2025.4	145%	1.9788%	1.3650%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected (3) x (5)</u> (7)	<u>Proposed (3) x (6)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
0	45	1,621	0.0278	4.00%	4.00%	64.8	64.8	69%	69%
1	193	6,823	0.0283	3.00%	3.00%	204.7	204.7	94%	94%
2	248	8,987	0.0276	2.00%	2.00%	179.7	179.7	138%	138%
3	190	9,591	0.0198	2.00%	2.00%	191.8	191.8	99%	99%
4	101	8,613	0.0117	2.00%	2.00%	172.3	172.3	59%	59%
5	100	7,888	0.0127	2.00%	2.00%	157.8	157.8	63%	63%
6	67	6,462	0.0104	1.80%	1.80%	116.3	116.3	58%	58%
7	63	5,582	0.0113	1.60%	1.60%	89.3	89.3	71%	71%
8	55	5,475	0.0100	1.40%	1.40%	76.7	76.7	72%	72%
9	42	5,277	0.0080	1.20%	1.20%	63.3	63.3	66%	66%
10	37	4,994	0.0074	1.00%	1.00%	49.9	49.9	74%	74%
11	16	4,750	0.0034	0.80%	0.80%	38.0	38.0	42%	42%
12	17	5,049	0.0034	0.60%	0.60%	30.3	30.3	56%	56%
13	23	5,109	0.0045	0.50%	0.50%	25.5	25.5	90%	90%
14	18	6,249	0.0029	0.40%	0.40%	25.0	25.0	72%	72%
15	18	6,687	0.0027	0.30%	0.30%	20.1	20.1	90%	90%
16	14	7,382	0.0019	0.20%	0.20%	14.8	14.8	95%	95%
17	10	7,213	0.0014	0.20%	0.20%	14.4	14.4	69%	69%
18	7	6,133	0.0011	0.20%	0.20%	12.3	12.3	57%	57%
19	7	5,045	0.0014	0.20%	0.20%	10.1	10.1	69%	69%
Total	1,271	124,930	0.0102			1,557.1	1,557.1	82%	82%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> (3) x (5) (7)	<u>Proposed</u> (3) x (6) (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
0	329	4,847	0.0679	4.00%	4.00%	193.9	193.9	170%	170%
1	1,085	16,269	0.0667	3.00%	3.00%	488.1	488.1	222%	222%
2	581	16,342	0.0356	2.00%	2.00%	326.8	326.8	178%	178%
3	459	16,383	0.0280	2.00%	2.00%	327.7	327.7	140%	140%
4	288	14,646	0.0197	2.00%	2.00%	292.9	292.9	98%	98%
5	302	13,657	0.0221	2.00%	2.00%	273.1	273.1	111%	111%
6	223	11,871	0.0188	1.80%	1.80%	213.7	213.7	104%	104%
7	196	11,069	0.0177	1.60%	1.60%	177.1	177.1	111%	111%
8	145	11,411	0.0127	1.40%	1.40%	159.8	159.8	91%	91%
9	125	11,110	0.0113	1.20%	1.20%	133.3	133.3	94%	94%
10	127	11,989	0.0106	1.00%	1.00%	119.9	119.9	106%	106%
11	95	12,672	0.0075	0.80%	0.80%	101.4	101.4	94%	94%
12	84	12,582	0.0067	0.60%	0.60%	75.5	75.5	111%	111%
13	77	13,226	0.0058	0.50%	0.50%	66.1	66.1	116%	116%
14	39	12,677	0.0031	0.40%	0.40%	50.7	50.7	77%	77%
15	49	12,553	0.0039	0.30%	0.30%	37.7	37.7	130%	130%
16	37	12,901	0.0029	0.20%	0.20%	25.8	25.8	143%	143%
17	20	13,392	0.0015	0.20%	0.20%	26.8	26.8	75%	75%
18	19	13,303	0.0014	0.20%	0.20%	26.6	26.6	71%	71%
19	18	13,365	0.0013	0.20%	0.20%	26.7	26.7	67%	67%
Total	4,298	256,265	0.0168			3,143.5	3,143.5	137%	137%



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year	TABLE 3B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals	Expected Withdrawals	Actual / Expected	Withdrawal Rate	
					Actual (3) / (2)	Expected (4) / (2)
Ending June 30, (1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	34,258	950	379.4	250%	2.77%	1.11%
2005	32,645	672	371.3	181%	2.06%	1.14%
2006	32,771	823	422.7	195%	2.51%	1.29%
2007	31,661	583	413.1	141%	1.84%	1.30%
2008	31,319	638	406.4	157%	2.04%	1.30%
2009	31,961	278	412.2	67%	0.87%	1.29%
2010	31,686	216	389.8	55%	0.68%	1.23%
2011	29,964	139	348.7	40%	0.46%	1.16%
2012	28,886	89	343.6	26%	0.31%	1.19%
2013	29,148	117	374.7	31%	0.40%	1.29%
Total	314,299	4,505	3861.8	117%	1.43%	1.23%

\*The total exposures and actuals shown above include experience at all service levels. I.e. service over 20 years.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	249	392	0.6352	60.00%	60.00%	235.2	235.2	106%	106%
41	306	773	0.3959	60.00%	60.00%	463.8	463.8	66%	66%
42	319	780	0.4090	60.00%	60.00%	468.0	468.0	68%	68%
43	326	768	0.4245	60.00%	60.00%	460.8	460.8	71%	71%
44	257	650	0.3954	60.00%	60.00%	390.0	390.0	66%	66%
45	228	568	0.4014	60.00%	60.00%	340.8	340.8	67%	67%
46	206	476	0.4328	60.00%	60.00%	285.6	285.6	72%	72%
47	156	375	0.4160	60.00%	60.00%	225.0	225.0	69%	69%
48	108	290	0.3724	60.00%	60.00%	174.0	174.0	62%	62%
49	104	235	0.4426	60.00%	60.00%	141.0	141.0	74%	74%
50	70	174	0.4023	60.00%	60.00%	104.4	104.4	67%	67%
51	47	115	0.4087	60.00%	60.00%	69.0	69.0	68%	68%
52	19	47	0.4043	60.00%	60.00%	28.2	28.2	67%	67%
53	7	22	0.3182	60.00%	60.00%	13.2	13.2	53%	53%
54	3	8	0.3750	60.00%	60.00%	4.8	4.8	63%	63%
55	2	4	0.5000	60.00%	60.00%	2.4	2.4	83%	83%
56	1	2	0.5000	60.00%	60.00%	1.2	1.2	83%	83%
57	0	1	0.0000	60.00%	60.00%	0.6	0.6	0%	0%
58	0	1	0.0000	60.00%	60.00%	0.6	0.6	0%	0%
59	1	1	1.0000	60.00%	60.00%	0.6	0.6	167%	167%
60	0	0	N/A	60.00%	60.00%	0	0	0%	0%
61	0	0	N/A	60.00%	60.00%	0	0	0%	0%
62	0	0	N/A	60.00%	60.00%	0	0	0%	0%
63	0	0	N/A	100.00%	100.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Subtotal	2,409	5,682				3,409.2	3,409.2	71%	71%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	2,409	5,682				3,409.2	3,409.2	71%	71%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4B

Age (1)				4-YEAR PERIOD ENDING 6/30/2013					
	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	12	16	0.7500	15.00%	15.00%	2.4	2.4	500%	500%
41	52	196	0.2653	15.00%	15.00%	29.4	29.4	177%	177%
42	68	388	0.1753	15.00%	15.00%	58.2	58.2	117%	117%
43	71	397	0.1788	15.00%	15.00%	59.6	59.6	119%	119%
44	86	392	0.2194	15.00%	15.00%	58.8	58.8	146%	146%
45	59	325	0.1815	15.00%	15.00%	48.8	48.8	121%	121%
46	51	261	0.1954	15.00%	15.00%	39.2	39.2	130%	130%
47	40	204	0.1961	15.00%	15.00%	30.6	30.6	131%	131%
48	34	162	0.2099	15.00%	15.00%	24.3	24.3	140%	140%
49	37	146	0.2534	15.00%	15.00%	21.9	21.9	169%	169%
50	16	92	0.1739	15.00%	15.00%	13.8	13.8	116%	116%
51	20	91	0.2198	15.00%	15.00%	13.7	13.7	147%	147%
52	8	38	0.2105	15.00%	15.00%	5.7	5.7	140%	140%
53	4	25	0.1600	15.00%	15.00%	3.8	3.8	107%	107%
54	0	6	0.0000	15.00%	15.00%	0.9	0.9	0%	0%
55	1	3	0.3333	15.00%	15.00%	0.5	0.5	222%	222%
56	1	2	0.5000	15.00%	15.00%	0.3	0.3	333%	333%
57	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
58	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
59	0	0	N/A	15.00%	15.00%	0	0	0%	0%
60	0	0	N/A	20.00%	20.00%	0	0	0%	0%
61	0	0	N/A	30.00%	30.00%	0	0	0%	0%
62	0	0	N/A	50.00%	50.00%	0	0	0%	0%
63	0	0	N/A	100.00%	100.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Subtotal	560	2,746				411.9	411.9	136%	136%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	560	2,746				411.9	411.9	136%	136%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4C

Age (1)				4-YEAR PERIOD ENDING 6/30/2013					
	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	3	5	0.6000	10.00%	10.00%	0.5	0.5	600%	600%
41	15	18	0.8333	10.00%	10.00%	1.8	1.8	833%	833%
42	43	196	0.2194	10.00%	10.00%	19.6	19.6	219%	219%
43	70	517	0.1354	10.00%	10.00%	51.7	51.7	135%	135%
44	87	846	0.1028	10.00%	10.00%	84.6	84.6	103%	103%
45	140	1,082	0.1294	10.00%	10.00%	108.2	108.2	129%	129%
46	146	1,128	0.1294	11.00%	11.00%	124.1	124.1	118%	118%
47	155	1,159	0.1337	12.00%	12.00%	139.1	139.1	111%	111%
48	134	1,072	0.1250	13.00%	13.00%	139.4	139.4	96%	96%
49	123	967	0.1272	14.00%	14.00%	135.4	135.4	91%	91%
50	114	844	0.1351	15.00%	15.00%	126.6	126.6	90%	90%
51	96	739	0.1299	15.00%	15.00%	110.9	110.9	87%	87%
52	86	660	0.1303	15.00%	15.00%	99.0	99.0	87%	87%
53	74	532	0.1391	15.00%	15.00%	79.8	79.8	93%	93%
54	63	442	0.1425	15.00%	15.00%	66.3	66.3	95%	95%
55	41	348	0.1178	15.00%	15.00%	52.2	52.2	79%	79%
56	27	249	0.1084	15.00%	15.00%	37.4	37.4	72%	72%
57	28	197	0.1421	15.00%	15.00%	29.6	29.6	95%	95%
58	15	144	0.1042	15.00%	15.00%	21.6	21.6	69%	69%
59	15	100	0.1500	15.00%	15.00%	15.0	15.0	100%	100%
60	5	79	0.0633	20.00%	20.00%	15.8	15.8	32%	32%
61	4	51	0.0784	30.00%	30.00%	15.3	15.3	26%	26%
62	26	41	0.6341	50.00%	50.00%	20.5	20.5	127%	127%
63	15	18	0.8333	100.00%	100.00%	18.0	18.0	83%	83%
64	1	1	1.0000	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Subtotal	1,526	11,435				1,512.2	1,512.2	101%	101%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	1,526	11,435				1,512.2	1,512.2	101%	101%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> <b>(5)</b>	<u>Proposed (8) / (3)</u> <b>(6)</b>	<u>Expected (7)</u> <b>(7)</b>	<u>Proposed (8)</u> <b>(8)</b>	<u>Expected (2) / (7)</u> <b>(9)</b>	<u>Proposed (2) / (8)</u> <b>(10)</b>
40-44	1,457	3,363	0.4332	60.00%	60.00%	2,017.8	2,017.8	72%	72%
45-59	802	1,944	0.4126	60.00%	60.00%	1,166.4	1,166.4	69%	69%
50-54	146	366	0.3989	60.00%	60.00%	219.6	219.6	66%	66%
55-59	4	9	0.4444	60.00%	60.00%	5.4	5.4	74%	74%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2,409</b>	<b>5,682</b>				<b>3,409.2</b>	<b>3,409.2</b>	<b>71%</b>	<b>71%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Retirements</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected (7)</u> (7)	<u>Proposed (8)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
40-44	289	1,389	0.2081	15.00%	15.00%	208.4	208.4	139%	139%
45-59	221	1,098	0.2013	15.00%	15.00%	164.7	164.7	134%	134%
50-54	48	252	0.1905	15.00%	15.00%	37.8	37.8	127%	127%
55-59	2	7	0.2857	15.00%	15.00%	1.1	1.1	190%	190%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>560</b>	<b>2,746</b>				<b>411.9</b>	<b>411.9</b>	<b>136%</b>	<b>136%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4C GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> <b>(5)</b>	<u>Proposed (8) / (3)</u> <b>(6)</b>	<u>Expected (7)</u> <b>(7)</b>	<u>Proposed (8)</u> <b>(8)</b>	<u>Expected (2) / (7)</u> <b>(9)</b>	<u>Proposed (2) / (8)</u> <b>(10)</b>
40-44	218	1,582	0.1378	10.00%	10.00%	158.2	158.2	138%	138%
45-59	698	5,408	0.1291	11.95%	11.95%	646.1	646.1	108%	108%
50-54	433	3,217	0.1346	15.00%	15.00%	482.6	482.6	90%	90%
55-59	126	1,038	0.1214	15.00%	15.00%	155.7	155.7	81%	81%
60-64	51	190	0.2684	36.63%	36.63%	69.6	69.6	73%	73%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,526</b>	<b>11,435</b>				<b>1,512.2</b>	<b>1,512.2</b>	<b>101%</b>	<b>101%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4A

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	1,238	1,646	0.7521	60.00%	60.00%	987.6	987.6	125%	125%
41	1,275	2,332	0.5467	60.00%	60.00%	1,399.2	1,399.2	91%	91%
42	1,175	2,088	0.5627	60.00%	60.00%	1,252.8	1,252.8	94%	94%
43	1,104	1,898	0.5817	60.00%	60.00%	1,138.8	1,138.8	97%	97%
44	924	1,658	0.5573	60.00%	60.00%	994.8	994.8	93%	93%
45	793	1,382	0.5738	60.00%	60.00%	829.2	829.2	96%	96%
46	684	1,154	0.5927	60.00%	60.00%	692.4	692.4	99%	99%
47	504	900	0.5600	60.00%	60.00%	540.0	540.0	93%	93%
48	407	731	0.5568	60.00%	60.00%	438.6	438.6	93%	93%
49	354	611	0.5794	60.00%	60.00%	366.6	366.6	97%	97%
50	210	398	0.5276	60.00%	60.00%	238.8	238.8	88%	88%
51	124	238	0.5210	60.00%	60.00%	142.8	142.8	87%	87%
52	48	93	0.5161	60.00%	60.00%	55.8	55.8	86%	86%
53	10	35	0.2857	60.00%	60.00%	21.0	21.0	48%	48%
54	5	16	0.3125	60.00%	60.00%	9.6	9.6	52%	52%
55	5	7	0.7143	60.00%	60.00%	4.2	4.2	119%	119%
56	3	5	0.6000	60.00%	60.00%	3.0	3.0	100%	100%
57	0	1	0.0000	60.00%	60.00%	0.6	0.6	0%	0%
58	0	1	0.0000	60.00%	60.00%	0.6	0.6	0%	0%
59	1	1	1.0000	60.00%	60.00%	0.6	0.6	167%	167%
60	0	0	N/A	60.00%	60.00%	0	0	0%	0%
61	0	0	N/A	60.00%	60.00%	0	0	0%	0%
62	0	0	N/A	60.00%	60.00%	0	0	0%	0%
63	0	0	N/A	100.00%	100.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Subtotal	8,864	15,195				9,117.0	9,117.0	97%	97%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	8,864	15,195				9,117.0	9,117.0	97%	97%



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4B

Age (1)				10-YEAR PERIOD ENDING 6/30/2013					
	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	15	29	0.5172	15.00%	15.00%	4.4	4.4	345%	345%
41	99	498	0.1988	15.00%	15.00%	74.7	74.7	133%	133%
42	140	991	0.1413	15.00%	15.00%	148.7	148.7	94%	94%
43	139	887	0.1567	15.00%	15.00%	133.1	133.1	104%	104%
44	138	767	0.1799	15.00%	15.00%	115.1	115.1	120%	120%
45	127	686	0.1851	15.00%	15.00%	102.9	102.9	123%	123%
46	95	541	0.1756	15.00%	15.00%	81.2	81.2	117%	117%
47	74	423	0.1749	15.00%	15.00%	63.5	63.5	117%	117%
48	51	352	0.1449	15.00%	15.00%	52.8	52.8	97%	97%
49	66	316	0.2089	15.00%	15.00%	47.4	47.4	139%	139%
50	31	217	0.1429	15.00%	15.00%	32.6	32.6	95%	95%
51	39	190	0.2053	15.00%	15.00%	28.5	28.5	137%	137%
52	14	83	0.1687	15.00%	15.00%	12.5	12.5	112%	112%
53	6	43	0.1395	15.00%	15.00%	6.5	6.5	93%	93%
54	2	16	0.1250	15.00%	15.00%	2.4	2.4	83%	83%
55	1	9	0.1111	15.00%	15.00%	1.4	1.4	74%	74%
56	1	2	0.5000	15.00%	15.00%	0.3	0.3	333%	333%
57	1	3	0.3333	15.00%	15.00%	0.5	0.5	222%	222%
58	0	1	0.0000	15.00%	15.00%	0.2	0.2	0%	0%
59	0	0	N/A	15.00%	15.00%	0	0	0%	0%
60	0	0	N/A	20.00%	20.00%	0	0	0%	0%
61	0	0	N/A	30.00%	30.00%	0	0	0%	0%
62	0	0	N/A	50.00%	50.00%	0	0	0%	0%
63	0	0	N/A	100.00%	100.00%	0	0	0%	0%
64	0	0	N/A	0.00%	0.00%	0	0	0%	0%
65	0	0	N/A	0.00%	0.00%	0	0	0%	0%
66	0	0	N/A	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Subtotal	1,039	6,054				908.1	908.1	114%	114%
Other	0	0	N/A	0.00%	0.00%	2.0	0	0%	0%
Total	1,039	6,054				910.1	908.1	114%	114%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4C

Age (1)				Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
	Actual Retirements	Total Exposed	Actual Rate (2) / (3)	Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
40	3	6	0.5000	10.00%	10.00%	0.6	0.6	500%	500%
41	17	30	0.5667	10.00%	10.00%	3.0	3.0	567%	567%
42	61	406	0.1502	10.00%	10.00%	40.6	40.6	150%	150%
43	112	1,104	0.1014	10.00%	10.00%	110.4	110.4	101%	101%
44	154	1,618	0.0952	10.00%	10.00%	161.8	161.8	95%	95%
45	212	1,897	0.1118	10.00%	10.00%	189.7	189.7	112%	112%
46	216	1,977	0.1093	11.00%	11.00%	217.5	217.5	99%	99%
47	234	1,961	0.1193	12.00%	12.00%	235.3	235.3	99%	99%
48	207	1,809	0.1144	13.00%	13.00%	235.2	235.2	88%	88%
49	171	1,622	0.1054	14.00%	14.00%	227.1	227.1	75%	75%
50	176	1,467	0.1200	15.00%	15.00%	220.1	220.1	80%	80%
51	154	1,288	0.1196	15.00%	15.00%	193.2	193.2	80%	80%
52	131	1,118	0.1172	15.00%	15.00%	167.7	167.7	78%	78%
53	102	899	0.1135	15.00%	15.00%	134.9	134.9	76%	76%
54	91	739	0.1231	15.00%	15.00%	110.9	110.9	82%	82%
55	58	575	0.1009	15.00%	15.00%	86.3	86.3	67%	67%
56	52	453	0.1148	15.00%	15.00%	68.0	68.0	77%	77%
57	40	366	0.1093	15.00%	15.00%	54.9	54.9	73%	73%
58	32	291	0.1100	15.00%	15.00%	43.7	43.7	73%	73%
59	28	219	0.1279	15.00%	15.00%	32.9	32.9	85%	85%
60	16	193	0.0829	20.00%	20.00%	38.6	38.6	41%	41%
61	19	154	0.1234	30.00%	30.00%	46.2	46.2	41%	41%
62	68	125	0.5440	50.00%	50.00%	62.5	62.5	109%	109%
63	39	46	0.8478	100.00%	100.00%	46.0	46.0	85%	85%
64	1	2	0.5000	0.00%	0.00%	0	0	0%	0%
65	0	1	0.0000	0.00%	0.00%	0	0	0%	0%
66	0	1	0.0000	0.00%	0.00%	0	0	0%	0%
67	0	0	N/A	0.00%	0.00%	0	0	0%	0%
68	0	0	N/A	0.00%	0.00%	0	0	0%	0%
69	0	0	N/A	0.00%	0.00%	0	0	0%	0%
70	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Subtotal	2,394	20,367				2,726.7	2,726.7	88%	88%
Other	0	0	N/A	0.00%	0.00%	0	0	0%	0%
Total	2,394	20,367				2,726.7	2,726.7	88%	88%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4A GROUPED**

<u>Age</u> <b>(1)</b>	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>10-YEAR PERIOD ENDING 6/30/2013</u> <u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> <b>(5)</b>	<u>Proposed (8) / (3)</u> <b>(6)</b>	<u>Expected</u> <b>(7)</b>	<u>Proposed</u> <b>(8)</b>	<u>Expected (2) / (7)</u> <b>(9)</b>	<u>Proposed (2) / (8)</u> <b>(10)</b>
				40-44	5,716	9,622	0.5941	60.00%	60.00%
45-59	2,742	4,778	0.5739	60.00%	60.00%	2,866.8	2,866.8	96%	96%
50-54	397	780	0.5090	60.00%	60.00%	468.0	468.0	85%	85%
55-59	9	15	0.6000	60.00%	60.00%	9.0	9.0	100%	100%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>8,864</b>	<b>15,195</b>				<b>9,117.0</b>	<b>9,117.0</b>	<b>97%</b>	<b>97%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4B GROUPED**

<u>Age</u> (1)	<u>Actual Retirements</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>10-YEAR PERIOD ENDING 6/30/2013</u> <u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
				40-44	531	3,172	0.1674	15.00%	15.00%
45-59	413	2,318	0.1782	15.00%	15.00%	347.7	347.7	119%	119%
50-54	92	549	0.1676	15.00%	15.00%	82.4	82.4	112%	112%
55-59	3	15	0.2000	15.00%	15.00%	2.3	2.3	133%	133%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			2.0	0	0%	0%
<b>Total</b>	<b>1,039</b>	<b>6,054</b>				<b>910.1</b>	<b>908.1</b>	<b>114%</b>	<b>114%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4C GROUPED**

<u>Age</u> (1)	<u>Actual Retirements</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>10-YEAR PERIOD ENDING 6/30/2013</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected Retirements</u>		<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
						<u>Expected</u> (7)	<u>Proposed</u> (8)		
40-44	347	3,164	0.1097	10.00%	10.00%	316.4	316.4	110%	110%
45-59	1,040	9,266	0.1122	11.92%	11.92%	1,104.7	1,104.7	94%	94%
50-54	654	5,511	0.1187	15.00%	15.00%	826.7	826.7	79%	79%
55-59	210	1,904	0.1103	15.00%	15.00%	285.6	285.6	74%	74%
60-64	143	520	0.2750	37.17%	37.17%	193.3	193.3	74%	74%
65-69	0	2	0.0000	0.00%	0.00%	0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2,394</b>	<b>20,367</b>				<b>2,726.7</b>	<b>2,726.7</b>	<b>88%</b>	<b>88%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE - ALL EXPERIENCE COMBINED  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 4D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Retirements (3)	Expected Retirements (4)	Actual / Expected (5)	Retirement Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	3,172	1,697	620.8	273%	53.50%	19.57%
2005	3,811	1,971	851.2	232%	51.72%	22.34%
2006	3,836	1,747	803.2	218%	45.54%	20.94%
2007	4,048	1,453	862.4	168%	35.89%	21.30%
2008	3,716	809	890.7	91%	21.77%	23.97%
2009	3,491	399	752.2	53%	11.43%	21.55%
2010	4,077	817	935.4	87%	20.04%	22.94%
2011	5,468	1,532	1500.0	102%	28.02%	27.43%
2012	5,209	1,354	1008.5	134%	25.99%	19.36%
2013	5,164	832	1309.0	64%	16.11%	25.35%
Total	41,992	12,611	9,533.4	132%	30.03%	22.70%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 5A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.040%	0.040%	0	0	0%	0%
21	0	1	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	0	259	0.00000	0.040%	0.040%	0.1	0.1	0%	0%
23	0	1,038	0.00000	0.040%	0.040%	0.4	0.4	0%	0%
24	1	1,925	0.00052	0.040%	0.040%	0.8	0.8	130%	130%
25	3	2,817	0.00106	0.040%	0.040%	1.1	1.1	266%	266%
26	1	3,464	0.00029	0.040%	0.040%	1.4	1.4	72%	72%
27	5	3,911	0.00128	0.040%	0.040%	1.6	1.6	320%	320%
28	3	4,187	0.00072	0.040%	0.040%	1.7	1.7	179%	179%
29	2	4,339	0.00046	0.040%	0.040%	1.7	1.7	115%	115%
30	2	4,433	0.00045	0.040%	0.040%	1.8	1.8	113%	113%
31	2	4,352	0.00046	0.040%	0.040%	1.7	1.7	115%	115%
32	2	4,294	0.00047	0.040%	0.040%	1.7	1.7	116%	116%
33	1	4,176	0.00024	0.040%	0.040%	1.7	1.7	60%	60%
34	1	4,203	0.00024	0.040%	0.040%	1.7	1.7	59%	59%
35	1	4,171	0.00024	0.040%	0.040%	1.7	1.7	60%	60%
36	1	4,184	0.00024	0.042%	0.042%	1.8	1.8	57%	57%
37	1	4,382	0.00023	0.044%	0.044%	1.9	1.9	52%	52%
38	2	4,861	0.00041	0.046%	0.046%	2.2	2.2	89%	89%
39	4	5,468	0.00073	0.048%	0.048%	2.6	2.6	152%	152%
40	2	5,922	0.00034	0.050%	0.050%	3.0	3.0	68%	68%
41	2	5,931	0.00034	0.060%	0.060%	3.6	3.6	56%	56%
42	3	5,684	0.00053	0.070%	0.070%	4.0	4.0	75%	75%
43	1	5,225	0.00019	0.080%	0.080%	4.2	4.2	24%	24%
44	3	4,748	0.00063	0.090%	0.090%	4.3	4.3	70%	70%
45	2	4,215	0.00047	0.100%	0.100%	4.2	4.2	47%	47%
46	1	3,520	0.00028	0.110%	0.110%	3.9	3.9	26%	26%
47	1	2,902	0.00034	0.120%	0.120%	3.5	3.5	29%	29%
48	3	2,338	0.00128	0.130%	0.130%	3.0	3.0	99%	99%
49	1	1,857	0.00054	0.140%	0.140%	2.6	2.6	38%	38%
50	2	1,396	0.00143	0.150%	0.150%	2.1	2.1	96%	96%
51	1	1,065	0.00094	0.160%	0.160%	1.7	1.7	59%	59%
52	0	805	0.00000	0.170%	0.170%	1.4	1.4	0%	0%
53	0	609	0.00000	0.180%	0.180%	1.1	1.1	0%	0%
54	0	472	0.00000	0.190%	0.190%	0.9	0.9	0%	0%
55	0	367	0.00000	0.200%	0.200%	0.7	0.7	0%	0%
56	0	256	0.00000	0.220%	0.220%	0.6	0.6	0%	0%
57	0	197	0.00000	0.240%	0.240%	0.5	0.5	0%	0%
58	0	148	0.00000	0.260%	0.260%	0.4	0.4	0%	0%
59	0	103	0.00000	0.280%	0.280%	0.3	0.3	0%	0%
60	1	81	0.01235	0.300%	0.300%	0.2	0.2	412%	412%
61	1	58	0.01724	0.320%	0.320%	0.2	0.2	539%	539%
62	0	44	0.00000	0.340%	0.340%	0.1	0.1	0%	0%
63	0	0	N/A	0.340%	0.340%	0	0	0%	0%
64	0	0	N/A	0.340%	0.340%	0	0	0%	0%
65	0	0	N/A	0.340%	0.340%	0	0	0%	0%
66	0	0	N/A	0.340%	0.340%	0	0	0%	0%
67	0	0	N/A	0.340%	0.340%	0	0	0%	0%
68	0	0	N/A	0.340%	0.340%	0	0	0%	0%
69	0	0	N/A	0.340%	0.340%	0	0	0%	0%
70	0	0	N/A	0.340%	0.340%	0	0	0%	0%
71	0	0	N/A	0.340%	0.340%	0	0	0%	0%
72	0	0	N/A	0.340%	0.340%	0	0	0%	0%
73	0	0	N/A	0.340%	0.340%	0	0	0%	0%
74	0	0	N/A	0.340%	0.340%	0	0	0%	0%
<b>Total</b>	<b>56</b>	<b>114,408</b>				<b>73.9</b>	<b>73.9</b>	<b>76%</b>	<b>76%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 5A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	1	3,223	0.00031	0.040%	0.040%	1.3	1.3	78%	78%
25-29	14	18,718	0.00075	0.040%	0.040%	7.5	7.5	187%	187%
30-34	8	21,458	0.00037	0.040%	0.040%	8.6	8.6	93%	93%
35-39	9	23,066	0.00039	0.044%	0.044%	10.2	10.2	88%	88%
40-44	11	27,510	0.00040	0.069%	0.069%	19.0	19.0	58%	58%
45-49	8	14,832	0.00054	0.116%	0.116%	17.2	17.2	46%	46%
50-54	3	4,347	0.00069	0.165%	0.165%	7.2	7.2	42%	42%
55-59	0	1,071	0.00000	0.228%	0.228%	2.4	2.4	0%	0%
60-64	2	183	0.01093	0.316%	0.316%	0.6	0.6	346%	346%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>56</b>	<b>114,408</b>				<b>73.9</b>	<b>73.9</b>	<b>76%</b>	<b>76%</b>



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 5A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.040%	0.040%	0	0	0%	0%
21	0	17	0.00000	0.040%	0.040%	0.0	0.0	0%	0%
22	1	1,281	0.00078	0.040%	0.040%	0.5	0.5	195%	195%
23	3	3,572	0.00084	0.040%	0.040%	1.4	1.4	210%	210%
24	6	5,588	0.00107	0.040%	0.040%	2.2	2.2	268%	268%
25	7	7,219	0.00097	0.040%	0.040%	2.9	2.9	242%	242%
26	1	8,426	0.00012	0.040%	0.040%	3.4	3.4	30%	30%
27	8	9,169	0.00087	0.040%	0.040%	3.7	3.7	218%	218%
28	8	9,751	0.00082	0.040%	0.040%	3.9	3.9	205%	205%
29	6	10,082	0.00060	0.040%	0.040%	4.0	4.0	149%	149%
30	4	10,430	0.00038	0.040%	0.040%	4.2	4.2	96%	96%
31	4	10,681	0.00037	0.040%	0.040%	4.3	4.3	94%	94%
32	3	11,273	0.00027	0.040%	0.040%	4.5	4.5	67%	67%
33	3	12,018	0.00025	0.040%	0.040%	4.8	4.8	62%	62%
34	9	12,781	0.00070	0.040%	0.040%	5.1	5.1	176%	176%
35	1	13,385	0.00007	0.040%	0.040%	5.4	5.4	19%	19%
36	7	14,064	0.00050	0.042%	0.042%	5.9	5.9	119%	119%
37	7	14,717	0.00048	0.044%	0.044%	6.5	6.5	108%	108%
38	7	15,457	0.00045	0.046%	0.046%	7.1	7.1	98%	98%
39	8	15,978	0.00050	0.048%	0.048%	7.7	7.7	104%	104%
40	9	16,058	0.00056	0.050%	0.050%	8.0	8.0	112%	112%
41	6	15,022	0.00040	0.060%	0.060%	9.0	9.0	67%	67%
42	7	13,431	0.00052	0.070%	0.070%	9.4	9.4	74%	74%
43	5	11,729	0.00043	0.080%	0.080%	9.4	9.4	53%	53%
44	8	10,054	0.00080	0.090%	0.090%	9.0	9.0	88%	88%
45	3	8,482	0.00035	0.100%	0.100%	8.5	8.5	35%	35%
46	4	6,901	0.00058	0.110%	0.110%	7.6	7.6	53%	53%
47	3	5,494	0.00055	0.120%	0.120%	6.6	6.6	46%	46%
48	9	4,321	0.00208	0.130%	0.130%	5.6	5.6	160%	160%
49	3	3,362	0.00089	0.140%	0.140%	4.7	4.7	64%	64%
50	4	2,489	0.00161	0.150%	0.150%	3.7	3.7	107%	107%
51	3	1,851	0.00162	0.160%	0.160%	3.0	3.0	101%	101%
52	1	1,345	0.00074	0.170%	0.170%	2.3	2.3	44%	44%
53	0	996	0.00000	0.180%	0.180%	1.8	1.8	0%	0%
54	1	787	0.00127	0.190%	0.190%	1.5	1.5	67%	67%
55	0	604	0.00000	0.200%	0.200%	1.2	1.2	0%	0%
56	1	462	0.00216	0.220%	0.220%	1.0	1.0	98%	98%
57	0	372	0.00000	0.240%	0.240%	0.9	0.9	0%	0%
58	0	297	0.00000	0.260%	0.260%	0.8	0.8	0%	0%
59	1	225	0.00444	0.280%	0.280%	0.6	0.6	159%	159%
60	1	198	0.00505	0.300%	0.300%	0.6	0.6	168%	168%
61	1	163	0.00613	0.320%	0.320%	0.5	0.5	192%	192%
62	0	132	0.00000	0.340%	0.340%	0.4	0.4	0%	0%
63	0	0	N/A	0.340%	0.340%	0	0	0%	0%
64	0	0	N/A	0.340%	0.340%	0	0	0%	0%
65	0	0	N/A	0.340%	0.340%	0	0	0%	0%
66	0	0	N/A	0.340%	0.340%	0	0	0%	0%
67	0	0	N/A	0.340%	0.340%	0	0	0%	0%
68	0	0	N/A	0.340%	0.340%	0	0	0%	0%
69	0	0	N/A	0.340%	0.340%	0	0	0%	0%
70	0	0	N/A	0.340%	0.340%	0	0	0%	0%
71	0	0	N/A	0.340%	0.340%	0	0	0%	0%
72	0	0	N/A	0.340%	0.340%	0	0	0%	0%
73	0	0	N/A	0.340%	0.340%	0	0	0%	0%
74	0	0	N/A	0.340%	0.340%	0	0	0%	0%
<b>Total</b>	<b>163</b>	<b>290,664</b>				<b>173.7</b>	<b>173.7</b>	<b>94%</b>	<b>94%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 5A GROUPED**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	10	10,458	0.00096	0.040%	0.040%	4.2	4.2	239%	239%
25-29	30	44,647	0.00067	0.040%	0.040%	17.9	17.9	168%	168%
30-34	23	57,183	0.00040	0.040%	0.040%	22.9	22.9	101%	101%
35-39	30	73,601	0.00041	0.044%	0.044%	32.5	32.5	92%	92%
40-44	35	66,294	0.00053	0.068%	0.068%	44.9	44.9	78%	78%
45-49	22	28,560	0.00077	0.116%	0.116%	33.0	33.0	67%	67%
50-54	9	7,468	0.00121	0.164%	0.164%	12.3	12.3	73%	73%
55-59	2	1,960	0.00102	0.231%	0.231%	4.5	4.5	44%	44%
60-64	2	493	0.00406	0.317%	0.317%	1.6	1.6	128%	128%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>163</b>	<b>290,664</b>				<b>173.7</b>	<b>173.7</b>	<b>94%</b>	<b>94%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 5B Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	36,179	28	19.1	146%	0.077%	0.053%
2005	35,106	15	18.8	80%	0.043%	0.053%
2006	35,431	12	18.9	64%	0.034%	0.053%
2007	35,278	24	18.9	127%	0.068%	0.054%
2008	34,946	17	19.0	89%	0.049%	0.054%
2009	35,402	27	19.8	136%	0.076%	0.056%
2010	35,564	23	20.8	111%	0.065%	0.058%
2011	34,578	10	21.1	47%	0.029%	0.061%
2012	33,685	15	21.1	71%	0.045%	0.063%
2013	34,218	17	21.7	78%	0.050%	0.063%
Total	350,387	188	199.2	94%	0.054%	0.057%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 6A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.010%	0.008%	0	0	0%	0%
21	0	1	0.00000	0.010%	0.008%	0.0	0.0	0%	0%
22	0	294	0.00000	0.010%	0.008%	0.0	0.0	0%	0%
23	0	1,207	0.00000	0.010%	0.008%	0.1	0.1	0%	0%
24	0	2,276	0.00000	0.010%	0.008%	0.2	0.2	0%	0%
25	0	3,315	0.00000	0.010%	0.008%	0.3	0.3	0%	0%
26	0	4,085	0.00000	0.010%	0.008%	0.4	0.3	0%	0%
27	0	4,649	0.00000	0.010%	0.008%	0.5	0.4	0%	0%
28	0	5,015	0.00000	0.010%	0.008%	0.5	0.4	0%	0%
29	0	5,275	0.00000	0.010%	0.008%	0.5	0.4	0%	0%
30	0	5,394	0.00000	0.010%	0.008%	0.5	0.4	0%	0%
31	0	5,322	0.00000	0.011%	0.009%	0.6	0.5	0%	0%
32	0	5,333	0.00000	0.012%	0.010%	0.6	0.5	0%	0%
33	0	5,190	0.00000	0.013%	0.010%	0.7	0.5	0%	0%
34	0	5,222	0.00000	0.014%	0.011%	0.7	0.6	0%	0%
35	0	5,190	0.00000	0.015%	0.012%	0.8	0.6	0%	0%
36	0	5,143	0.00000	0.016%	0.013%	0.8	0.7	0%	0%
37	0	5,346	0.00000	0.017%	0.014%	0.9	0.7	0%	0%
38	1	5,919	0.00017	0.018%	0.014%	1.1	0.9	94%	117%
39	1	6,603	0.00015	0.019%	0.015%	1.3	1.0	80%	100%
40	1	7,148	0.00014	0.020%	0.016%	1.4	1.1	70%	87%
41	0	7,105	0.00000	0.021%	0.017%	1.5	1.2	0%	0%
42	1	6,773	0.00015	0.022%	0.018%	1.5	1.2	67%	84%
43	1	6,187	0.00016	0.023%	0.018%	1.4	1.1	70%	88%
44	0	5,591	0.00000	0.024%	0.019%	1.3	1.1	0%	0%
45	0	5,027	0.00000	0.025%	0.020%	1.3	1.0	0%	0%
46	1	4,234	0.00024	0.026%	0.021%	1.1	0.9	91%	114%
47	1	3,534	0.00028	0.027%	0.022%	1.0	0.8	105%	131%
48	0	2,873	0.00000	0.028%	0.022%	0.8	0.6	0%	0%
49	3	2,271	0.00132	0.029%	0.023%	0.7	0.5	456%	569%
50	0	1,705	0.00000	0.030%	0.024%	0.5	0.4	0%	0%
51	1	1,277	0.00078	0.031%	0.025%	0.4	0.3	253%	316%
52	0	949	0.00000	0.032%	0.026%	0.3	0.2	0%	0%
53	0	704	0.00000	0.033%	0.026%	0.2	0.2	0%	0%
54	0	536	0.00000	0.034%	0.027%	0.2	0.1	0%	0%
55	0	409	0.00000	0.035%	0.028%	0.1	0.1	0%	0%
56	0	275	0.00000	0.036%	0.029%	0.1	0.1	0%	0%
57	0	211	0.00000	0.037%	0.030%	0.1	0.1	0%	0%
58	0	158	0.00000	0.038%	0.030%	0.1	0.0	0%	0%
59	0	109	0.00000	0.039%	0.031%	0.0	0.0	0%	0%
60	0	86	0.00000	0.040%	0.032%	0.0	0.0	0%	0%
61	0	59	0.00000	0.041%	0.033%	0.0	0.0	0%	0%
62	0	45	0.00000	0.042%	0.034%	0.0	0.0	0%	0%
63	0	0	N/A	0.042%	0.034%	0	0	0%	0%
64	0	0	N/A	0.042%	0.034%	0	0	0%	0%
65	0	0	N/A	0.042%	0.034%	0	0	0%	0%
66	0	0	N/A	0.042%	0.034%	0	0	0%	0%
67	0	0	N/A	0.042%	0.034%	0	0	0%	0%
68	0	0	N/A	0.042%	0.034%	0	0	0%	0%
69	0	0	N/A	0.042%	0.034%	0	0	0%	0%
70	0	0	N/A	0.042%	0.034%	0	0	0%	0%
71	0	0	N/A	0.042%	0.034%	0	0	0%	0%
72	0	0	N/A	0.042%	0.034%	0	0	0%	0%
73	0	0	N/A	0.042%	0.034%	0	0	0%	0%
74	0	0	N/A	0.042%	0.034%	0	0	0%	0%
<b>Total</b>	<b>11</b>	<b>138,045</b>				<b>24.7</b>	<b>19.8</b>	<b>45%</b>	<b>56%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 6A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected (7)</u> (7)	<u>Proposed (8)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
20-24	0	3,778	0.00000	0.010%	0.008%	0.4	0.3	0%	0%
25-29	0	22,339	0.00000	0.010%	0.008%	2.2	1.8	0%	0%
30-34	0	26,461	0.00000	0.012%	0.010%	3.2	2.5	0%	0%
35-39	2	28,201	0.00007	0.017%	0.014%	4.8	3.9	41%	52%
40-44	3	32,804	0.00009	0.022%	0.018%	7.2	5.7	42%	52%
45-49	5	17,939	0.00028	0.027%	0.021%	4.8	3.8	105%	131%
50-54	1	5,171	0.00019	0.031%	0.025%	1.6	1.3	62%	77%
55-59	0	1,162	0.00000	0.036%	0.029%	0.4	0.3	0%	0%
60-64	0	190	0.00000	0.041%	0.033%	0.1	0.1	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>11</b>	<b>138,045</b>				<b>24.7</b>	<b>19.8</b>	<b>45%</b>	<b>56%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 6A**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20	0	0	N/A	0.010%	0.008%	0	0	0%	0%
21	0	20	0.00000	0.010%	0.008%	0.0	0.0	0%	0%
22	0	1,468	0.00000	0.010%	0.008%	0.1	0.1	0%	0%
23	0	4,210	0.00000	0.010%	0.008%	0.4	0.3	0%	0%
24	1	6,645	0.00015	0.010%	0.008%	0.7	0.5	150%	188%
25	0	8,586	0.00000	0.010%	0.008%	0.9	0.7	0%	0%
26	0	10,131	0.00000	0.010%	0.008%	1.0	0.8	0%	0%
27	1	11,086	0.00009	0.010%	0.008%	1.1	0.9	90%	113%
28	1	11,827	0.00008	0.010%	0.008%	1.2	0.9	85%	106%
29	0	12,307	0.00000	0.010%	0.008%	1.2	1.0	0%	0%
30	0	12,746	0.00000	0.010%	0.008%	1.3	1.0	0%	0%
31	1	13,064	0.00008	0.011%	0.009%	1.4	1.1	70%	87%
32	0	13,797	0.00000	0.012%	0.010%	1.7	1.3	0%	0%
33	0	14,647	0.00000	0.013%	0.010%	1.9	1.5	0%	0%
34	1	15,567	0.00006	0.014%	0.011%	2.2	1.7	46%	57%
35	1	16,244	0.00006	0.015%	0.012%	2.4	1.9	41%	51%
36	1	16,991	0.00006	0.016%	0.013%	2.7	2.2	37%	46%
37	1	17,677	0.00006	0.017%	0.014%	3.0	2.4	33%	42%
38	2	18,516	0.00011	0.018%	0.014%	3.3	2.7	60%	75%
39	6	19,153	0.00031	0.019%	0.015%	3.6	2.9	165%	206%
40	1	19,256	0.00005	0.020%	0.016%	3.9	3.1	26%	32%
41	2	18,024	0.00011	0.021%	0.017%	3.8	3.0	53%	66%
42	2	16,182	0.00012	0.022%	0.018%	3.6	2.8	56%	70%
43	2	14,158	0.00014	0.023%	0.018%	3.3	2.6	61%	77%
44	1	12,116	0.00008	0.024%	0.019%	2.9	2.3	34%	43%
45	1	10,240	0.00010	0.025%	0.020%	2.6	2.0	39%	49%
46	3	8,354	0.00036	0.026%	0.021%	2.2	1.7	138%	173%
47	2	6,701	0.00030	0.027%	0.022%	1.8	1.4	111%	138%
48	0	5,285	0.00000	0.028%	0.022%	1.5	1.2	0%	0%
49	4	4,076	0.00098	0.029%	0.023%	1.2	0.9	338%	423%
50	0	2,988	0.00000	0.030%	0.024%	0.9	0.7	0%	0%
51	1	2,185	0.00046	0.031%	0.025%	0.7	0.5	148%	185%
52	0	1,550	0.00000	0.032%	0.026%	0.5	0.4	0%	0%
53	0	1,134	0.00000	0.033%	0.026%	0.4	0.3	0%	0%
54	0	873	0.00000	0.034%	0.027%	0.3	0.2	0%	0%
55	0	661	0.00000	0.035%	0.028%	0.2	0.2	0%	0%
56	0	491	0.00000	0.036%	0.029%	0.2	0.1	0%	0%
57	0	390	0.00000	0.037%	0.030%	0.1	0.1	0%	0%
58	0	308	0.00000	0.038%	0.030%	0.1	0.1	0%	0%
59	0	232	0.00000	0.039%	0.031%	0.1	0.1	0%	0%
60	1	204	0.00490	0.040%	0.032%	0.1	0.1	1225%	1532%
61	1	164	0.00610	0.041%	0.033%	0.1	0.1	1487%	1859%
62	0	133	0.00000	0.042%	0.034%	0.1	0.0	0%	0%
63	0	0	N/A	0.042%	0.034%	0	0	0%	0%
64	0	0	N/A	0.042%	0.034%	0	0	0%	0%
65	0	0	N/A	0.042%	0.034%	0	0	0%	0%
66	0	0	N/A	0.042%	0.034%	0	0	0%	0%
67	0	0	N/A	0.042%	0.034%	0	0	0%	0%
68	0	0	N/A	0.042%	0.034%	0	0	0%	0%
69	0	0	N/A	0.042%	0.034%	0	0	0%	0%
70	0	0	N/A	0.042%	0.034%	0	0	0%	0%
71	0	0	N/A	0.042%	0.034%	0	0	0%	0%
72	0	0	N/A	0.042%	0.034%	0	0	0%	0%
73	0	0	N/A	0.042%	0.034%	0	0	0%	0%
74	0	0	N/A	0.042%	0.034%	0	0	0%	0%
<b>Total</b>	<b>37</b>	<b>350,387</b>				<b>60.5</b>	<b>48.4</b>	<b>61%</b>	<b>76%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 6A GROUPED**

Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20-24	1	12,343	0.00008	0.010%	0.008%	1.2	1.0	81%	101%
25-29	2	53,937	0.00004	0.010%	0.008%	5.4	4.3	37%	46%
30-34	2	69,821	0.00003	0.012%	0.010%	8.5	6.8	24%	30%
35-39	11	88,581	0.00012	0.017%	0.014%	15.1	12.1	73%	91%
40-44	8	79,736	0.00010	0.022%	0.017%	17.4	13.9	46%	58%
45-49	10	34,656	0.00029	0.027%	0.021%	9.2	7.4	109%	136%
50-54	1	8,730	0.00011	0.031%	0.025%	2.7	2.2	36%	46%
55-59	0	2,082	0.00000	0.037%	0.029%	0.8	0.6	0%	0%
60-64	2	501	0.00399	0.041%	0.033%	0.2	0.2	977%	1221%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>37</b>	<b>350,387</b>				<b>60.5</b>	<b>48.4</b>	<b>61%</b>	<b>76%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 6B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	36,179	4	6.1	66%	0.011%	0.017%
2005	35,106	3	6.0	50%	0.009%	0.017%
2006	35,431	8	6.0	134%	0.023%	0.017%
2007	35,278	4	5.9	68%	0.011%	0.017%
2008	34,946	6	5.9	102%	0.017%	0.017%
2009	35,402	1	6.0	17%	0.003%	0.017%
2010	35,564	3	6.2	48%	0.008%	0.017%
2011	34,578	2	6.2	32%	0.006%	0.018%
2012	33,685	3	6.1	49%	0.009%	0.018%
2013	34,218	3	6.2	49%	0.009%	0.018%
Total	350,387	37	60.5	61%	0.011%	0.017%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 7A**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.05%	0.05%	0	0	0%	0%
21	0	10	0.0000	0.06%	0.06%	0.0	0.0	0%	0%
22	0	656	0.0000	0.06%	0.06%	0.4	0.4	0%	0%
23	0	1,971	0.0000	0.07%	0.07%	1.3	1.3	0%	0%
24	2	3,086	0.0006	0.07%	0.07%	2.2	2.2	93%	93%
25	0	3,910	0.0000	0.08%	0.08%	2.9	2.9	0%	0%
26	0	4,528	0.0000	0.08%	0.08%	3.6	3.6	0%	0%
27	1	4,913	0.0002	0.09%	0.09%	4.2	4.2	24%	24%
28	2	5,094	0.0004	0.09%	0.09%	4.6	4.6	44%	44%
29	1	5,124	0.0002	0.10%	0.10%	4.9	4.9	21%	21%
30	4	5,183	0.0008	0.10%	0.10%	5.2	5.2	77%	77%
31	3	5,095	0.0006	0.11%	0.11%	5.3	5.3	56%	56%
32	2	5,154	0.0004	0.11%	0.11%	5.7	5.7	35%	35%
33	3	5,174	0.0006	0.12%	0.12%	6.0	6.0	50%	50%
34	4	5,127	0.0008	0.12%	0.12%	6.2	6.2	65%	65%
35	10	5,379	0.0019	0.13%	0.13%	6.7	6.7	149%	149%
36	14	6,020	0.0023	0.13%	0.13%	7.8	7.8	179%	179%
37	15	6,751	0.0022	0.14%	0.14%	9.1	9.1	165%	165%
38	17	7,443	0.0023	0.14%	0.14%	10.4	10.4	163%	163%
39	29	7,725	0.0038	0.15%	0.15%	11.2	11.2	259%	259%
40	19	7,714	0.0025	0.15%	0.15%	11.6	11.6	164%	164%
41	17	7,216	0.0024	0.16%	0.16%	11.2	11.2	152%	152%
42	14	6,661	0.0021	0.16%	0.16%	10.7	10.7	131%	131%
43	7	6,060	0.0012	0.17%	0.17%	10.0	10.0	70%	70%
44	8	5,178	0.0015	0.17%	0.17%	8.8	8.8	91%	91%
45	6	4,377	0.0014	0.18%	0.18%	7.7	7.7	78%	78%
46	6	3,586	0.0017	0.18%	0.18%	6.5	6.5	93%	93%
47	8	2,808	0.0028	0.19%	0.19%	5.2	5.2	154%	154%
48	6	2,177	0.0028	0.19%	0.19%	4.1	4.1	145%	145%
49	1	1,661	0.0006	0.20%	0.20%	3.2	3.2	31%	31%
50	1	1,246	0.0008	0.20%	0.20%	2.5	2.5	40%	40%
51	0	913	0.0000	0.25%	0.25%	2.3	2.3	0%	0%
52	0	701	0.0000	0.30%	0.30%	2.1	2.1	0%	0%
53	0	518	0.0000	0.40%	0.40%	2.1	2.1	0%	0%
54	0	350	0.0000	0.60%	0.60%	2.1	2.1	0%	0%
55	0	263	0.0000	0.80%	0.80%	2.1	2.1	0%	0%
56	0	202	0.0000	1.00%	1.00%	2.0	2.0	0%	0%
57	0	140	0.0000	2.00%	2.00%	2.8	2.8	0%	0%
58	2	126	0.0159	3.00%	3.00%	3.8	3.8	53%	53%
59	1	79	0.0127	4.00%	4.00%	3.2	3.2	32%	32%
60	1	58	0.0172	6.00%	6.00%	3.5	3.5	29%	29%
61	0	66	0.0000	8.00%	8.00%	5.3	5.3	0%	0%
62	0	47	0.0000	10.00%	10.00%	4.7	4.7	0%	0%
63	0	0	N/A	10.00%	10.00%	0	0	0%	0%
64	0	0	N/A	10.00%	10.00%	0	0	0%	0%
65	0	0	N/A	10.00%	10.00%	0	0	0%	0%
66	0	0	N/A	10.00%	10.00%	0	0	0%	0%
67	0	0	N/A	10.00%	10.00%	0	0	0%	0%
68	0	0	N/A	10.00%	10.00%	0	0	0%	0%
69	0	0	N/A	10.00%	10.00%	0	0	0%	0%
70	0	0	N/A	10.00%	10.00%	0	0	0%	0%
71	0	0	N/A	10.00%	10.00%	0	0	0%	0%
72	0	0	N/A	10.00%	10.00%	0	0	0%	0%
73	0	0	N/A	10.00%	10.00%	0	0	0%	0%
74	0	0	N/A	10.00%	10.00%	0	0	0%	0%
<b>Total</b>	<b>204</b>	<b>140,490</b>				<b>214.9</b>	<b>214.9</b>	<b>95%</b>	<b>95%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

TABLE 8A

4-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.30%	0.39%	0	0	0%	0%
21	0	0	N/A	0.32%	0.39%	0	0	0%	0%
22	0	0	N/A	0.34%	0.39%	0	0	0%	0%
23	0	0	N/A	0.36%	0.39%	0	0	0%	0%
24	0	0	N/A	0.38%	0.39%	0	0	0%	0%
25	0	0	N/A	0.40%	0.39%	0	0	0%	0%
26	0	2	0.0000	0.52%	0.39%	0.0	0.0	0%	0%
27	0	22	0.0000	0.64%	0.39%	0.1	0.1	0%	0%
28	3	105	0.0286	0.76%	0.39%	0.8	0.4	376%	733%
29	2	304	0.0066	0.88%	0.39%	2.7	1.2	75%	169%
30	3	652	0.0046	1.00%	0.48%	6.5	3.1	46%	97%
31	6	1,066	0.0056	1.20%	0.65%	12.8	6.9	47%	87%
32	19	1,549	0.0123	1.40%	0.81%	21.7	12.6	88%	151%
33	15	1,957	0.0077	1.60%	0.97%	31.3	18.9	48%	79%
34	26	2,356	0.0110	1.80%	1.11%	42.4	26.2	61%	99%
35	25	2,775	0.0090	2.00%	1.24%	55.5	34.5	45%	72%
36	40	3,434	0.0116	2.10%	1.37%	72.1	46.9	55%	85%
37	44	4,180	0.0105	2.20%	1.48%	92.0	61.7	48%	71%
38	65	4,797	0.0136	2.30%	1.58%	110.3	75.7	59%	86%
39	81	5,222	0.0155	2.40%	1.67%	125.3	87.2	65%	93%
40	92	5,374	0.0171	2.50%	1.75%	134.4	94.0	68%	98%
41	96	5,220	0.0184	2.60%	1.82%	135.7	95.0	71%	101%
42	85	4,959	0.0171	2.70%	1.88%	133.9	93.2	63%	91%
43	66	4,573	0.0144	2.80%	1.93%	128.0	88.2	52%	75%
44	82	3,967	0.0207	2.90%	1.97%	115.0	78.1	71%	105%
45	50	3,341	0.0150	3.00%	2.00%	100.2	66.7	50%	75%
46	40	2,750	0.0145	3.20%	2.02%	88.0	55.4	45%	72%
47	29	2,180	0.0133	3.40%	2.02%	74.1	44.1	39%	66%
48	20	1,712	0.0117	3.60%	2.02%	61.6	34.6	32%	58%
49	13	1,317	0.0099	3.80%	2.02%	50.0	26.6	26%	49%
50	19	982	0.0193	4.00%	2.02%	39.3	19.9	48%	96%
51	7	722	0.0097	4.40%	2.02%	31.8	14.6	22%	48%
52	6	553	0.0108	4.80%	2.02%	26.5	11.2	23%	54%
53	8	402	0.0199	5.20%	2.02%	20.9	8.1	38%	98%
54	3	270	0.0111	5.60%	2.02%	15.1	5.5	20%	55%
55	2	203	0.0099	6.00%	2.02%	12.2	4.1	16%	49%
56	1	151	0.0066	6.80%	2.60%	10.3	3.9	10%	25%
57	1	110	0.0091	7.60%	3.90%	8.4	4.3	12%	23%
58	2	98	0.0204	8.40%	5.20%	8.2	5.1	24%	39%
59	2	60	0.0333	9.20%	6.50%	5.5	3.9	36%	51%
60	1	48	0.0208	10.00%	7.80%	4.8	3.7	21%	27%
61	5	52	0.0962	12.00%	7.80%	6.2	4.1	80%	123%
62	4	36	0.1111	14.00%	7.80%	5.0	2.8	79%	142%
63	0	0	N/A	14.00%	7.80%	0	0	0%	0%
64	0	0	N/A	14.00%	7.80%	0	0	0%	0%
65	0	0	N/A	14.00%	7.80%	0	0	0%	0%
66	0	0	N/A	14.00%	7.80%	0	0	0%	0%
67	0	0	N/A	14.00%	7.80%	0	0	0%	0%
68	0	0	N/A	14.00%	7.80%	0	0	0%	0%
69	0	0	N/A	14.00%	7.80%	0	0	0%	0%
70	0	0	N/A	14.00%	7.80%	0	0	0%	0%
71	0	0	N/A	14.00%	7.80%	0	0	0%	0%
72	0	0	N/A	14.00%	7.80%	0	0	0%	0%
73	0	0	N/A	14.00%	7.80%	0	0	0%	0%
74	0	0	N/A	14.00%	7.80%	0	0	0%	0%
Total	963	67,501				1,788.9	1,142.6	54%	84%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 7A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	2	5,723	0.0003	0.07%	0.07%	3.8	3.8	52%	52%
25-29	4	23,569	0.0002	0.09%	0.09%	20.2	20.2	20%	20%
30-34	16	25,733	0.0006	0.11%	0.11%	28.3	28.3	57%	57%
35-39	85	33,318	0.0026	0.14%	0.14%	45.3	45.3	188%	188%
40-44	65	32,829	0.0020	0.16%	0.16%	52.2	52.2	124%	124%
45-49	27	14,609	0.0018	0.18%	0.18%	26.7	26.7	101%	101%
50-54	1	3,728	0.0003	0.30%	0.30%	11.0	11.0	9%	9%
55-59	3	810	0.0037	1.71%	1.71%	13.9	13.9	22%	22%
60-64	1	171	0.0058	7.87%	7.87%	13.5	13.5	7%	7%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>204</b>	<b>140,490</b>				<b>214.9</b>	<b>214.9</b>	<b>95%</b>	<b>95%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	5	433	0.0115	0.84%	0.39%	3.6	1.7	138%	296%
30-34	69	7,580	0.0091	1.51%	0.89%	114.7	67.7	60%	102%
35-39	255	20,408	0.0125	2.23%	1.50%	455.2	306.0	56%	83%
40-44	421	24,093	0.0175	2.69%	1.86%	647.1	448.6	65%	94%
45-49	152	11,300	0.0135	3.31%	2.01%	374.0	227.5	41%	67%
50-54	43	2,929	0.0147	4.56%	2.02%	133.6	59.2	32%	73%
55-59	8	622	0.0129	7.16%	3.43%	44.6	21.3	18%	38%
60-64	10	136	0.0735	11.82%	7.80%	16.1	10.6	62%	94%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>963</b>	<b>67,501</b>				<b>1,788.9</b>	<b>1,142.6</b>	<b>54%</b>	<b>84%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 7A**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.05%	0.05%	0	0	0%	0%
21	0	20	0.0000	0.06%	0.06%	0.0	0.0	0%	0%
22	0	1,347	0.0000	0.06%	0.06%	0.8	0.8	0%	0%
23	0	3,711	0.0000	0.07%	0.07%	2.4	2.4	0%	0%
24	2	5,708	0.0004	0.07%	0.07%	4.0	4.0	50%	50%
25	1	7,113	0.0001	0.08%	0.08%	5.3	5.3	19%	19%
26	3	8,195	0.0004	0.08%	0.08%	6.6	6.6	46%	46%
27	2	8,822	0.0002	0.09%	0.09%	7.5	7.5	27%	27%
28	6	9,415	0.0006	0.09%	0.09%	8.5	8.5	71%	71%
29	3	9,713	0.0003	0.10%	0.10%	9.2	9.2	33%	33%
30	8	9,939	0.0008	0.10%	0.10%	9.9	9.9	80%	80%
31	9	10,245	0.0009	0.11%	0.11%	10.8	10.8	84%	84%
32	13	11,115	0.0012	0.11%	0.11%	12.2	12.2	106%	106%
33	23	12,065	0.0019	0.12%	0.12%	13.9	13.9	166%	166%
34	24	12,858	0.0019	0.12%	0.12%	15.4	15.4	156%	156%
35	51	13,609	0.0037	0.13%	0.13%	17.0	17.0	300%	300%
36	36	14,448	0.0025	0.13%	0.13%	18.8	18.8	192%	192%
37	50	15,114	0.0033	0.14%	0.14%	20.4	20.4	245%	245%
38	49	15,948	0.0031	0.14%	0.14%	22.3	22.3	219%	219%
39	47	16,423	0.0029	0.15%	0.15%	23.8	23.8	197%	197%
40	34	16,029	0.0021	0.15%	0.15%	24.0	24.0	141%	141%
41	33	14,525	0.0023	0.16%	0.16%	22.5	22.5	147%	147%
42	24	12,837	0.0019	0.16%	0.16%	20.5	20.5	117%	117%
43	20	11,181	0.0018	0.17%	0.17%	18.4	18.4	108%	108%
44	16	9,359	0.0017	0.17%	0.17%	15.9	15.9	101%	101%
45	13	7,697	0.0017	0.18%	0.18%	13.5	13.5	97%	97%
46	7	6,164	0.0011	0.18%	0.18%	11.1	11.1	63%	63%
47	10	4,795	0.0021	0.19%	0.19%	8.9	8.9	113%	113%
48	7	3,719	0.0019	0.19%	0.19%	7.1	7.1	99%	99%
49	1	2,815	0.0004	0.20%	0.20%	5.5	5.5	18%	18%
50	1	1,992	0.0005	0.20%	0.20%	4.0	4.0	25%	25%
51	1	1,438	0.0007	0.25%	0.25%	3.6	3.6	28%	28%
52	0	1,040	0.0000	0.30%	0.30%	3.1	3.1	0%	0%
53	0	744	0.0000	0.40%	0.40%	3.0	3.0	0%	0%
54	0	551	0.0000	0.60%	0.60%	3.3	3.3	0%	0%
55	2	420	0.0048	0.80%	0.80%	3.4	3.4	60%	60%
56	0	332	0.0000	1.00%	1.00%	3.3	3.3	0%	0%
57	0	261	0.0000	2.00%	2.00%	5.2	5.2	0%	0%
58	3	223	0.0135	3.00%	3.00%	6.7	6.7	45%	45%
59	2	166	0.0120	4.00%	4.00%	6.6	6.6	30%	30%
60	1	148	0.0068	6.00%	6.00%	8.9	8.9	11%	11%
61	0	132	0.0000	8.00%	8.00%	10.6	10.6	0%	0%
62	3	108	0.0278	10.00%	10.00%	10.8	10.8	28%	28%
63	0	0	N/A	10.00%	10.00%	0	0	0%	0%
64	0	0	N/A	10.00%	10.00%	0	0	0%	0%
65	0	0	N/A	10.00%	10.00%	0	0	0%	0%
66	0	0	N/A	10.00%	10.00%	0	0	0%	0%
67	0	0	N/A	10.00%	10.00%	0	0	0%	0%
68	0	0	N/A	10.00%	10.00%	0	0	0%	0%
69	0	0	N/A	10.00%	10.00%	0	0	0%	0%
70	0	0	N/A	10.00%	10.00%	0	0	0%	0%
71	0	0	N/A	10.00%	10.00%	0	0	0%	0%
72	0	0	N/A	10.00%	10.00%	0	0	0%	0%
73	0	0	N/A	10.00%	10.00%	0	0	0%	0%
74	0	0	N/A	10.00%	10.00%	0	0	0%	0%
<b>Total</b>	<b>505</b>	<b>282,484</b>				<b>428.8</b>	<b>428.8</b>	<b>118%</b>	<b>118%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

TABLE 8A

8-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.30%	0.39%	0	0	0%	0%
21	0	0	N/A	0.32%	0.39%	0	0	0%	0%
22	0	0	N/A	0.34%	0.39%	0	0	0%	0%
23	0	22	0.0000	0.36%	0.39%	0.1	0.1	0%	0%
24	0	105	0.0000	0.38%	0.39%	0.4	0.4	0%	0%
25	0	316	0.0000	0.40%	0.39%	1.3	1.2	0%	0%
26	0	681	0.0000	0.52%	0.39%	3.5	2.7	0%	0%
27	1	1,145	0.0009	0.64%	0.39%	7.3	4.5	14%	22%
28	6	1,733	0.0035	0.76%	0.39%	13.2	6.8	46%	89%
29	3	2,355	0.0013	0.88%	0.39%	20.7	9.2	14%	33%
30	7	3,120	0.0022	1.00%	0.48%	31.2	14.8	22%	47%
31	14	3,995	0.0035	1.20%	0.65%	47.9	26.0	29%	54%
32	32	5,184	0.0062	1.40%	0.81%	72.6	42.2	44%	76%
33	35	6,398	0.0055	1.60%	0.97%	102.4	61.9	34%	57%
34	62	7,465	0.0083	1.80%	1.11%	134.4	82.9	46%	75%
35	80	8,362	0.0096	2.00%	1.24%	167.2	103.9	48%	77%
36	89	9,281	0.0096	2.10%	1.37%	194.9	126.7	46%	70%
37	90	10,170	0.0088	2.20%	1.48%	223.7	150.2	40%	60%
38	136	10,988	0.0124	2.30%	1.58%	252.7	173.4	54%	78%
39	145	11,582	0.0125	2.40%	1.67%	278.0	193.3	52%	75%
40	167	11,452	0.0146	2.50%	1.75%	286.3	200.4	58%	83%
41	183	10,499	0.0174	2.60%	1.82%	273.0	191.1	67%	96%
42	151	9,391	0.0161	2.70%	1.88%	253.6	176.5	60%	86%
43	102	8,235	0.0124	2.80%	1.93%	230.6	158.9	44%	64%
44	128	6,953	0.0184	2.90%	1.97%	201.6	136.8	63%	94%
45	89	5,746	0.0155	3.00%	2.00%	172.4	114.7	52%	78%
46	66	4,619	0.0143	3.20%	2.02%	147.8	93.1	45%	71%
47	52	3,623	0.0144	3.40%	2.02%	123.2	73.3	42%	71%
48	39	2,814	0.0139	3.60%	2.02%	101.3	56.9	38%	69%
49	28	2,133	0.0131	3.80%	2.02%	81.1	43.1	35%	65%
50	31	1,513	0.0205	4.00%	2.02%	60.5	30.6	51%	101%
51	12	1,084	0.0111	4.40%	2.02%	47.7	21.9	25%	55%
52	10	794	0.0126	4.80%	2.02%	38.1	16.1	26%	62%
53	12	560	0.0214	5.20%	2.02%	29.1	11.3	41%	106%
54	5	406	0.0123	5.60%	2.02%	22.7	8.2	22%	61%
55	4	309	0.0129	6.00%	2.02%	18.5	6.3	22%	64%
56	2	241	0.0083	6.80%	2.60%	16.4	6.3	12%	32%
57	3	190	0.0158	7.60%	3.90%	14.4	7.4	21%	40%
58	6	166	0.0361	8.40%	5.20%	13.9	8.6	43%	70%
59	4	118	0.0339	9.20%	6.50%	10.9	7.7	37%	52%
60	2	93	0.0215	10.00%	7.80%	9.3	7.3	22%	28%
61	8	79	0.1013	12.00%	7.80%	9.5	6.2	84%	130%
62	6	60	0.1000	14.00%	7.80%	8.4	4.7	71%	128%
63	0	0	N/A	14.00%	7.80%	0	0	0%	0%
64	0	0	N/A	14.00%	7.80%	0	0	0%	0%
65	0	0	N/A	14.00%	7.80%	0	0	0%	0%
66	0	0	N/A	14.00%	7.80%	0	0	0%	0%
67	0	0	N/A	14.00%	7.80%	0	0	0%	0%
68	0	0	N/A	14.00%	7.80%	0	0	0%	0%
69	0	0	N/A	14.00%	7.80%	0	0	0%	0%
70	0	0	N/A	14.00%	7.80%	0	0	0%	0%
71	0	0	N/A	14.00%	7.80%	0	0	0%	0%
72	0	0	N/A	14.00%	7.80%	0	0	0%	0%
73	0	0	N/A	14.00%	7.80%	0	0	0%	0%
74	0	0	N/A	14.00%	7.80%	0	0	0%	0%
<b>Total</b>	<b>1,810</b>	<b>153,980</b>				<b>3,721.8</b>	<b>2,387.4</b>	<b>49%</b>	<b>76%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 7A GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	2	10,786	0.0002	0.07%	0.07%	7.2	7.2	28%	28%
25-29	15	43,258	0.0003	0.09%	0.09%	37.1	37.1	40%	40%
30-34	77	56,222	0.0014	0.11%	0.11%	62.2	62.2	124%	124%
35-39	233	75,542	0.0031	0.14%	0.14%	102.3	102.3	228%	228%
40-44	127	63,931	0.0020	0.16%	0.16%	101.5	101.5	125%	125%
45-49	38	25,190	0.0015	0.18%	0.18%	46.0	46.0	83%	83%
50-54	2	5,765	0.0003	0.29%	0.29%	17.0	17.0	12%	12%
55-59	7	1,402	0.0050	1.80%	1.80%	25.2	25.2	28%	28%
60-64	4	388	0.0103	7.79%	7.79%	30.2	30.2	13%	13%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>505</b>	<b>282,484</b>				<b>428.8</b>	<b>428.8</b>	<b>118%</b>	<b>118%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

**TABLE 8A GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	127	0.0000	0.38%	0.39%	0.5	0.5	0%	0%
25-29	10	6,230	0.0016	0.74%	0.39%	46.0	24.3	22%	41%
30-34	150	26,162	0.0057	1.48%	0.87%	388.5	227.8	39%	66%
35-39	540	50,383	0.0107	2.22%	1.48%	1,116.6	747.5	48%	72%
40-44	731	46,530	0.0157	2.68%	1.86%	1,245.0	863.7	59%	85%
45-49	274	18,935	0.0145	3.30%	2.01%	625.7	381.2	44%	72%
50-54	70	4,357	0.0161	4.55%	2.02%	198.2	88.1	35%	79%
55-59	19	1,024	0.0186	7.24%	3.54%	74.2	36.2	26%	52%
60-64	16	232	0.0690	11.72%	7.80%	27.2	18.1	59%	88%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,810</b>	<b>153,980</b>				<b>3,721.8</b>	<b>2,387.4</b>	<b>49%</b>	<b>76%</b>



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 7B		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	36,179	94	55.1	170%	0.26%	0.15%
2005	35,106	93	53.4	174%	0.26%	0.15%
2006	35,431	70	53.5	131%	0.20%	0.15%
2007	35,278	45	51.9	87%	0.13%	0.15%
2008	34,946	39	52.2	75%	0.11%	0.15%
2009	35,402	53	53.2	100%	0.15%	0.15%
2010	35,564	60	54.2	111%	0.17%	0.15%
2011	34,578	52	55.2	94%	0.15%	0.16%
2012	33,685	39	56.2	69%	0.12%	0.17%
2013	34,218	43	57.8	74%	0.13%	0.17%
Total	350,387	588	542.8	108%	0.17%	0.15%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.15%	0.02%	0	0	0%	0%
21	0	10	0.0000	0.16%	0.02%	0.0	0.0	0%	0%
22	0	656	0.0000	0.17%	0.14%	1.1	0.9	0%	0%
23	0	1,971	0.0000	0.18%	0.14%	3.5	2.7	0%	0%
24	0	3,086	0.0000	0.19%	0.14%	5.9	4.2	0%	0%
25	1	3,910	0.0003	0.20%	0.14%	7.8	5.3	13%	19%
26	1	4,526	0.0002	0.26%	0.14%	11.8	6.1	8%	16%
27	9	4,891	0.0018	0.32%	0.14%	15.7	6.6	58%	136%
28	9	4,989	0.0018	0.38%	0.14%	19.0	6.7	47%	134%
29	7	4,820	0.0015	0.44%	0.14%	21.2	6.6	33%	105%
30	9	4,531	0.0020	0.50%	0.23%	22.7	10.5	40%	86%
31	11	4,029	0.0027	0.60%	0.34%	24.2	13.7	46%	81%
32	6	3,605	0.0017	0.70%	0.46%	25.2	16.5	24%	36%
33	7	3,217	0.0022	0.80%	0.59%	25.7	18.8	27%	37%
34	14	2,771	0.0051	0.90%	0.72%	24.9	19.9	56%	70%
35	19	2,604	0.0073	1.00%	0.86%	26.0	22.3	73%	85%
36	15	2,586	0.0058	1.05%	0.99%	27.2	25.7	55%	58%
37	17	2,571	0.0066	1.10%	1.13%	28.3	29.0	60%	59%
38	21	2,646	0.0079	1.15%	1.26%	30.4	33.3	69%	63%
39	34	2,503	0.0136	1.20%	1.38%	30.0	34.6	113%	98%
40	28	2,340	0.0120	1.25%	1.49%	29.3	35.0	96%	80%
41	24	1,996	0.0120	1.30%	1.59%	25.9	31.8	92%	75%
42	27	1,702	0.0159	1.35%	1.68%	23.0	28.6	118%	95%
43	15	1,487	0.0101	1.40%	1.74%	20.8	25.9	72%	58%
44	22	1,211	0.0182	1.45%	1.79%	17.6	21.6	125%	102%
45	18	1,036	0.0174	1.50%	1.81%	15.5	18.7	116%	96%
46	17	836	0.0203	1.60%	1.81%	13.4	15.1	127%	112%
47	9	628	0.0143	1.70%	1.81%	10.7	11.4	84%	79%
48	5	465	0.0108	1.80%	2.70%	8.4	12.6	60%	40%
49	6	344	0.0174	1.90%	3.60%	6.5	12.4	92%	48%
50	3	264	0.0114	2.00%	4.50%	5.3	11.9	57%	25%
51	4	191	0.0209	2.20%	5.40%	4.2	10.3	95%	39%
52	1	148	0.0068	2.40%	6.30%	3.6	9.3	28%	11%
53	1	116	0.0086	2.60%	7.20%	3.0	8.4	33%	12%
54	0	80	0.0000	2.80%	8.10%	2.2	6.5	0%	0%
55	1	60	0.0167	3.00%	9.00%	1.8	5.4	56%	19%
56	1	51	0.0196	3.40%	9.00%	1.7	4.6	58%	22%
57	0	30	0.0000	3.80%	9.00%	1.1	2.7	0%	0%
58	0	28	0.0000	4.20%	9.00%	1.2	2.5	0%	0%
59	1	19	0.0526	4.60%	9.00%	0.9	1.7	114%	58%
60	0	10	0.0000	5.00%	9.00%	0.5	0.9	0%	0%
61	0	14	0.0000	6.00%	9.00%	0.8	1.3	0%	0%
62	2	11	0.1818	7.00%	9.00%	0.8	1.0	260%	202%
63	0	0	N/A	7.00%	9.00%	0	0	0%	0%
64	0	0	N/A	7.00%	9.00%	0	0	0%	0%
65	0	0	N/A	7.00%	9.00%	0	0	0%	0%
66	0	0	N/A	7.00%	9.00%	0	0	0%	0%
67	0	0	N/A	7.00%	9.00%	0	0	0%	0%
68	0	0	N/A	7.00%	9.00%	0	0	0%	0%
69	0	0	N/A	7.00%	9.00%	0	0	0%	0%
70	0	0	N/A	7.00%	9.00%	0	0	0%	0%
71	0	0	N/A	7.00%	9.00%	0	0	0%	0%
72	0	0	N/A	7.00%	9.00%	0	0	0%	0%
73	0	0	N/A	7.00%	9.00%	0	0	0%	0%
74	0	0	N/A	7.00%	9.00%	0	0	0%	0%
<b>Total</b>	<b>365</b>	<b>72,989</b>				<b>548.8</b>	<b>542.9</b>	<b>67%</b>	<b>67%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	5,723	0.0000	0.18%	0.13%	10.5	7.7	0%	0%
25-29	27	23,136	0.0012	0.33%	0.14%	75.4	31.4	36%	86%
30-34	47	18,153	0.0026	0.68%	0.44%	122.7	79.4	38%	59%
35-39	106	12,910	0.0082	1.10%	1.12%	141.9	144.9	75%	73%
40-44	116	8,736	0.0133	1.33%	1.64%	116.6	142.9	100%	81%
45-49	55	3,309	0.0166	1.65%	2.12%	54.5	70.1	101%	78%
50-54	9	799	0.0113	2.29%	5.80%	18.3	46.4	49%	19%
55-59	3	188	0.0160	3.58%	9.00%	6.7	16.9	45%	18%
60-64	2	35	0.0571	6.03%	9.00%	2.1	3.2	95%	63%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>365</b>	<b>72,989</b>				<b>548.8</b>	<b>542.9</b>	<b>67%</b>	<b>67%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.15%	0.02%	0	0	0%	0%
21	0	20	0.0000	0.16%	0.02%	0.0	0.0	0%	0%
22	0	1,347	0.0000	0.17%	0.14%	2.3	1.8	0%	0%
23	0	3,689	0.0000	0.18%	0.14%	6.6	5.0	0%	0%
24	0	5,603	0.0000	0.19%	0.14%	10.6	7.6	0%	0%
25	2	6,797	0.0003	0.20%	0.14%	13.6	9.2	15%	22%
26	3	7,514	0.0004	0.26%	0.14%	19.5	10.1	15%	30%
27	10	7,677	0.0013	0.32%	0.14%	24.6	10.4	41%	96%
28	12	7,682	0.0016	0.38%	0.14%	29.2	10.4	41%	116%
29	13	7,358	0.0018	0.44%	0.14%	32.4	10.1	40%	128%
30	14	6,819	0.0021	0.50%	0.23%	34.1	15.8	41%	89%
31	17	6,250	0.0027	0.60%	0.34%	37.5	21.2	45%	80%
32	29	5,931	0.0049	0.70%	0.46%	41.5	27.2	70%	107%
33	33	5,667	0.0058	0.80%	0.59%	45.3	33.2	73%	99%
34	47	5,393	0.0087	0.90%	0.72%	48.5	38.8	97%	121%
35	61	5,247	0.0116	1.00%	0.86%	52.5	44.9	116%	136%
36	62	5,167	0.0120	1.05%	0.99%	54.3	51.3	114%	121%
37	52	4,944	0.0105	1.10%	1.13%	54.4	55.8	96%	93%
38	83	4,960	0.0167	1.15%	1.26%	57.0	62.4	146%	133%
39	87	4,841	0.0180	1.20%	1.38%	58.1	66.9	150%	130%
40	80	4,577	0.0175	1.25%	1.49%	57.2	68.4	140%	117%
41	84	4,026	0.0209	1.30%	1.59%	52.3	64.2	160%	131%
42	73	3,446	0.0212	1.35%	1.68%	46.5	57.8	157%	126%
43	66	2,946	0.0224	1.40%	1.74%	41.2	51.4	160%	129%
44	59	2,406	0.0245	1.45%	1.79%	34.9	43.0	169%	137%
45	41	1,951	0.0210	1.50%	1.81%	29.3	35.3	140%	116%
46	43	1,545	0.0278	1.60%	1.81%	24.7	27.9	174%	154%
47	26	1,172	0.0222	1.70%	1.81%	19.9	21.2	130%	123%
48	11	905	0.0122	1.80%	2.70%	16.3	24.4	68%	45%
49	11	682	0.0161	1.90%	3.60%	13.0	24.6	85%	45%
50	9	479	0.0188	2.00%	4.50%	9.6	21.6	94%	42%
51	10	354	0.0282	2.20%	5.40%	7.8	19.1	128%	52%
52	5	246	0.0203	2.40%	6.30%	5.9	15.5	85%	32%
53	3	184	0.0163	2.60%	7.20%	4.8	13.2	63%	23%
54	2	145	0.0138	2.80%	8.10%	4.1	11.7	49%	17%
55	3	111	0.0270	3.00%	9.00%	3.3	10.0	90%	30%
56	3	91	0.0330	3.40%	9.00%	3.1	8.2	97%	37%
57	2	71	0.0282	3.80%	9.00%	2.7	6.4	74%	31%
58	1	57	0.0175	4.20%	9.00%	2.4	5.1	42%	19%
59	4	48	0.0833	4.60%	9.00%	2.2	4.3	181%	93%
60	1	55	0.0182	5.00%	9.00%	2.8	5.0	36%	20%
61	2	53	0.0377	6.00%	9.00%	3.2	4.8	63%	42%
62	4	48	0.0833	7.00%	9.00%	3.4	4.3	119%	93%
63	0	0	N/A	7.00%	9.00%	0	0	0%	0%
64	0	0	N/A	7.00%	9.00%	0	0	0%	0%
65	0	0	N/A	7.00%	9.00%	0	0	0%	0%
66	0	0	N/A	7.00%	9.00%	0	0	0%	0%
67	0	0	N/A	7.00%	9.00%	0	0	0%	0%
68	0	0	N/A	7.00%	9.00%	0	0	0%	0%
69	0	0	N/A	7.00%	9.00%	0	0	0%	0%
70	0	0	N/A	7.00%	9.00%	0	0	0%	0%
71	0	0	N/A	7.00%	9.00%	0	0	0%	0%
72	0	0	N/A	7.00%	9.00%	0	0	0%	0%
73	0	0	N/A	7.00%	9.00%	0	0	0%	0%
74	0	0	N/A	7.00%	9.00%	0	0	0%	0%
<b>Total</b>	<b>1,068</b>	<b>128,504</b>				<b>1,012.6</b>	<b>1,029.4</b>	<b>105%</b>	<b>104%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	10,659	0.0000	0.18%	0.13%	19.6	14.4	0%	0%
25-29	40	37,028	0.0011	0.32%	0.14%	119.3	50.2	34%	80%
30-34	140	30,060	0.0047	0.69%	0.45%	207.0	136.1	68%	103%
35-39	345	25,159	0.0137	1.10%	1.12%	276.2	281.4	125%	123%
40-44	362	17,401	0.0208	1.33%	1.64%	232.2	284.7	156%	127%
45-49	132	6,255	0.0211	1.65%	2.13%	103.2	133.4	128%	99%
50-54	29	1,408	0.0206	2.28%	5.76%	32.1	81.2	90%	36%
55-59	13	378	0.0344	3.63%	9.00%	13.7	34.0	95%	38%
60-64	7	156	0.0449	5.96%	9.00%	9.3	14.0	75%	50%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,068</b>	<b>128,504</b>				<b>1,012.6</b>	<b>1,029.4</b>	<b>105%</b>	<b>104%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 8C Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities (3)	Expected Disabilities (4)	Actual / Expected (5)	Disability Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	36,179	425	619.7	69%	1.17%	1.71%
2005	35,106	377	608.9	62%	1.07%	1.73%
2006	35,431	398	596.7	67%	1.12%	1.68%
2007	35,278	353	582.0	61%	1.00%	1.65%
2008	34,946	340	570.7	60%	0.97%	1.63%
2009	35,402	365	579.8	63%	1.03%	1.64%
2010	35,564	289	592.5	49%	0.81%	1.67%
2011	34,578	335	595.6	56%	0.97%	1.72%
2012	33,685	298	580.4	51%	0.88%	1.72%
2013	34,218	297	572.6	52%	0.87%	1.67%
Total	350,387	3,477	5898.9	59%	0.99%	1.68%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 9A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,239	\$ 61,713,672	\$ 67,543,835	\$ 63,565,082	315%	9.45%	3.00%
1	5,144	259,980,103	287,682,027	278,178,710	152%	10.66%	7.00%
2	5,205	274,445,387	319,328,156	310,123,287	126%	16.35%	13.00%
3	6,515	376,946,561	434,650,459	433,488,545	102%	15.31%	15.00%
4	8,511	552,782,513	653,075,000	668,866,841	86%	18.14%	21.00%
5	8,840	662,457,525	829,591,756	900,942,234	70%	25.23%	36.00%
6	8,171	762,338,110	823,404,546	795,880,987	182%	8.01%	4.40%
7	7,489	727,610,955	765,952,517	761,081,059	115%	5.27%	4.60%
8	6,119	602,598,666	632,091,769	631,523,402	102%	4.89%	4.80%
9	5,458	536,540,819	573,410,389	569,806,350	600%	6.87%	6.20%
10	5,123	517,113,740	551,358,204	542,969,427	132%	6.62%	5.00%
11	5,087	520,214,188	553,177,393	545,704,683	129%	6.34%	4.90%
12	4,795	502,559,766	532,814,146	526,682,635	125%	6.02%	4.80%
13	4,523	484,130,244	512,181,750	506,884,365	123%	5.79%	4.70%
14	4,710	505,206,677	539,975,892	535,013,871	117%	6.88%	5.90%
15	4,798	519,248,823	558,364,089	542,615,020	167%	7.53%	4.50%
16	5,842	633,044,373	680,823,859	660,898,325	172%	7.55%	4.40%
17	6,359	703,991,647	748,558,854	734,263,288	147%	6.33%	4.30%
18	6,733	756,317,121	801,463,802	788,082,440	142%	5.97%	4.20%
19	5,421	621,799,740	660,727,900	655,376,926	116%	6.26%	5.40%
20	3,194	387,246,988	406,438,315	402,736,868	124%	4.96%	4.00%
21	2,153	270,230,617	279,976,013	280,769,611	92%	3.61%	3.90%
22	1,754	217,079,054	227,927,268	225,328,058	132%	5.00%	3.80%
23	1,504	184,413,067	196,174,753	191,236,350	172%	6.38%	3.70%
24	1,422	178,633,467	187,903,254	185,064,272	144%	5.19%	3.60%
25	1,251	161,815,401	168,103,866	167,478,940	111%	3.89%	3.50%
26	984	129,650,219	133,850,369	134,187,977	93%	3.24%	3.50%
27	730	97,410,497	100,139,559	100,819,864	80%	2.80%	3.50%
28	651	88,182,484	91,367,854	91,268,871	103%	3.61%	3.50%
29	487	69,139,284	70,833,584	71,559,159	70%	2.45%	3.50%
30+	846	130,013,036	132,008,700	134,563,492	44%	1.53%	3.50%
Total	131,058	12,494,854,744	13,520,899,878	13,436,960,940	109%	8.21%	7.54%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Proposed Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1,239	\$ 61,713,672	\$ 67,543,835	\$ 64,799,356	189%	9.45%	5.00%
1	5,144	259,980,103	287,682,027	278,178,710	152%	10.66%	7.00%
2	5,205	274,445,387	319,328,156	301,889,926	164%	16.35%	10.00%
3	6,515	376,946,561	434,650,459	418,410,683	139%	15.31%	11.00%
4	8,511	552,782,513	653,075,000	628,790,109	132%	18.14%	13.75%
5	8,840	662,457,525	829,591,756	803,229,749	119%	25.23%	21.25%
6	8,171	762,338,110	823,404,546	798,549,170	169%	8.01%	4.75%
7	7,489	727,610,955	765,952,517	763,991,503	105%	5.27%	5.00%
8	6,119	602,598,666	632,091,769	632,728,599	98%	4.89%	5.00%
9	5,458	536,540,819	573,410,389	567,391,916	120%	6.87%	5.75%
10	5,123	517,113,740	551,358,204	542,969,427	132%	6.62%	5.00%
11	5,087	520,214,188	553,177,393	546,224,897	127%	6.34%	5.00%
12	4,795	502,559,766	532,814,146	527,687,754	120%	6.02%	5.00%
13	4,523	484,130,244	512,181,750	507,126,431	122%	5.79%	4.75%
14	4,710	505,206,677	539,975,892	532,993,044	125%	6.88%	5.50%
15	4,798	519,248,823	558,364,089	543,913,142	159%	7.53%	4.75%
16	5,842	633,044,373	680,823,859	663,113,981	159%	7.55%	4.75%
17	6,359	703,991,647	748,558,854	735,671,271	141%	6.33%	4.50%
18	6,733	756,317,121	801,463,802	790,351,391	133%	5.97%	4.50%
19	5,421	621,799,740	660,727,900	654,444,226	119%	6.26%	5.25%
20	3,194	387,246,988	406,438,315	403,704,985	117%	4.96%	4.25%
21	2,153	270,230,617	279,976,013	281,715,418	85%	3.61%	4.25%
22	1,754	217,079,054	227,927,268	225,762,216	125%	5.00%	4.00%
23	1,504	184,413,067	196,174,753	191,789,590	159%	6.38%	4.00%
24	1,422	178,633,467	187,903,254	185,778,806	130%	5.19%	4.00%
25	1,251	161,815,401	168,103,866	168,288,017	97%	3.89%	4.00%
26	984	129,650,219	133,850,369	134,836,228	81%	3.24%	4.00%
27	730	97,410,497	100,139,559	101,306,917	70%	2.80%	4.00%
28	651	88,182,484	91,367,854	91,709,783	90%	3.61%	4.00%
29	487	69,139,284	70,833,584	71,904,855	61%	2.45%	4.00%
30+	846	130,013,036	132,008,700	135,213,557	38%	1.53%	4.00%
Total	131,058	12,494,854,744	13,520,899,878	13,294,465,658	128%	8.21%	6.40%



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Expected Merit Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,239	\$ 61,713,672	\$ 66,596,547	\$ 61,713,672		7.91%	0.00%
1	5,144	259,980,103	283,691,405	270,379,307	228%	9.12%	4.00%
2	5,205	274,445,387	315,115,496	301,889,926	148%	14.82%	10.00%
3	6,515	376,946,561	428,864,434	422,180,148	115%	13.77%	12.00%
4	8,511	552,782,513	644,589,942	652,283,365	92%	16.61%	18.00%
5	8,840	662,457,525	819,423,217	881,068,508	72%	23.69%	33.00%
6	8,171	762,338,110	811,702,868	773,010,844	463%	6.48%	1.40%
7	7,489	727,610,955	754,783,891	739,252,730	233%	3.73%	1.60%
8	6,119	602,598,666	622,842,047	613,445,442	187%	3.36%	1.80%
9	5,458	536,540,819	565,174,636	553,710,125	167%	5.34%	3.20%
10	5,123	517,113,740	543,420,652	527,456,015	254%	5.09%	2.00%
11	5,087	520,214,188	545,192,250	530,098,258	253%	4.80%	1.90%
12	4,795	502,559,766	525,099,993	511,605,842	249%	4.49%	1.80%
13	4,523	484,130,244	504,750,485	492,360,458	251%	4.26%	1.70%
14	4,710	505,206,677	532,221,110	519,857,671	184%	5.35%	2.90%
15	4,798	519,248,823	550,393,764	527,037,555	400%	6.00%	1.50%
16	5,842	633,044,373	671,106,804	641,906,994	429%	6.01%	1.40%
17	6,359	703,991,647	737,752,778	713,143,538	369%	4.80%	1.30%
18	6,733	756,317,121	789,854,544	765,392,926	370%	4.43%	1.20%
19	5,421	621,799,740	651,183,447	636,722,934	197%	4.73%	2.40%
20	3,194	387,246,988	400,494,181	391,119,458	342%	3.42%	1.00%
21	2,153	270,230,617	275,828,048	272,662,693	230%	2.07%	0.90%
22	1,754	217,079,054	224,595,165	218,815,686	433%	3.46%	0.80%
23	1,504	184,413,067	193,344,064	185,703,958	692%	4.84%	0.70%
24	1,422	178,633,467	185,161,280	179,705,268	609%	3.65%	0.60%
25	1,251	161,815,401	165,620,045	162,624,478	470%	2.35%	0.50%
26	984	129,650,219	131,860,274	130,298,470	341%	1.70%	0.50%
27	730	97,410,497	98,644,335	97,897,549	253%	1.27%	0.50%
28	651	88,182,484	90,014,277	88,623,396	415%	2.08%	0.50%
29	487	69,139,284	69,772,315	69,484,980	183%	0.92%	0.50%
30+	846	130,013,036	130,013,036	130,663,101		0.00%	0.50%
Total	131,058	12,494,854,744	13,329,107,327	13,062,115,298	147%	6.68%	4.54%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.00%. Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1,239	\$ 61,713,672	\$ 66,596,547	\$ 62,330,809	791%	7.91%	1.00%
1	5,144	259,980,103	283,691,405	267,779,506	304%	9.12%	3.00%
2	5,205	274,445,387	315,115,496	290,912,110	247%	14.82%	6.00%
3	6,515	376,946,561	428,864,434	403,332,820	197%	13.77%	7.00%
4	8,511	552,782,513	644,589,942	606,678,808	170%	16.61%	9.75%
5	8,840	662,457,525	819,423,217	776,731,448	137%	23.69%	17.25%
6	8,171	762,338,110	811,702,868	768,055,646	863%	6.48%	0.75%
7	7,489	727,610,955	754,783,891	734,887,065	373%	3.73%	1.00%
8	6,119	602,598,666	622,842,047	608,624,653	336%	3.36%	1.00%
9	5,458	536,540,819	565,174,636	545,930,283	305%	5.34%	1.75%
10	5,123	517,113,740	543,420,652	522,284,877	509%	5.09%	1.00%
11	5,087	520,214,188	545,192,250	525,416,330	480%	4.80%	1.00%
12	4,795	502,559,766	525,099,993	507,585,364	449%	4.49%	1.00%
13	4,523	484,130,244	504,750,485	487,761,221	568%	4.26%	0.75%
14	4,710	505,206,677	532,221,110	512,784,777	356%	5.35%	1.50%
15	4,798	519,248,823	550,393,764	523,143,189	800%	6.00%	0.75%
16	5,842	633,044,373	671,106,804	637,792,206	802%	6.01%	0.75%
17	6,359	703,991,647	737,752,778	707,511,605	959%	4.80%	0.50%
18	6,733	756,317,121	789,854,544	760,098,707	887%	4.43%	0.50%
19	5,421	621,799,740	651,183,447	629,572,237	378%	4.73%	1.25%
20	3,194	387,246,988	400,494,181	388,215,105	1368%	3.42%	0.25%
21	2,153	270,230,617	275,828,048	270,906,194	829%	2.07%	0.25%
22	1,754	217,079,054	224,595,165	217,079,054		3.46%	0.00%
23	1,504	184,413,067	193,344,064	184,413,067		4.84%	0.00%
24	1,422	178,633,467	185,161,280	178,633,467		3.65%	0.00%
25	1,251	161,815,401	165,620,045	161,815,401		2.35%	0.00%
26	984	129,650,219	131,860,274	129,650,219		1.70%	0.00%
27	730	97,410,497	98,644,335	97,410,497		1.27%	0.00%
28	651	88,182,484	90,014,277	88,182,484		2.08%	0.00%
29	487	69,139,284	69,772,315	69,139,284		0.92%	0.00%
30+	846	130,013,036	130,013,036	130,013,036		0.00%	0.00%
Total	131,058	12,494,854,744	13,329,107,327	12,794,671,468	278%	6.68%	2.40%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 9A

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	5,406	\$ 227,244,580	\$ 266,690,553	\$ 234,061,917	579%	17.36%	3.00%
1	17,887	799,313,304	894,924,387	855,265,235	171%	11.96%	7.00%
2	17,285	847,983,394	947,538,539	958,221,235	90%	11.74%	13.00%
3	18,132	970,562,018	1,089,122,536	1,116,146,321	81%	12.22%	15.00%
4	17,852	1,056,626,081	1,221,770,984	1,278,517,558	74%	15.63%	21.00%
5	17,406	1,154,655,410	1,479,062,321	1,570,331,358	78%	28.10%	36.00%
6	16,245	1,344,841,281	1,440,002,801	1,404,014,297	161%	7.08%	4.40%
7	15,246	1,292,803,590	1,362,610,869	1,352,272,555	117%	5.40%	4.60%
8	14,427	1,211,664,041	1,281,197,014	1,269,823,915	120%	5.74%	4.80%
9	13,745	1,149,650,522	1,230,459,778	1,220,928,854	113%	7.03%	6.20%
10	14,277	1,204,921,824	1,286,701,600	1,265,167,915	136%	6.79%	5.00%
11	14,889	1,265,974,866	1,344,931,247	1,328,007,634	127%	6.24%	4.90%
12	14,585	1,265,945,413	1,337,939,835	1,326,710,793	118%	5.69%	4.80%
13	15,220	1,324,210,139	1,401,138,466	1,386,448,016	124%	5.81%	4.70%
14	14,763	1,318,171,425	1,402,916,963	1,395,943,539	109%	6.43%	5.90%
15	14,217	1,297,271,947	1,385,041,732	1,355,649,185	150%	6.77%	4.50%
16	14,736	1,373,308,501	1,466,501,056	1,433,734,075	154%	6.79%	4.40%
17	15,885	1,496,229,459	1,590,125,200	1,560,567,326	146%	6.28%	4.30%
18	16,154	1,538,757,697	1,629,360,326	1,603,385,520	140%	5.89%	4.20%
19	10,768	1,086,794,643	1,153,373,297	1,145,481,554	113%	6.13%	5.40%
20	6,345	677,476,665	714,536,596	704,575,732	137%	5.47%	4.00%
21	4,889	533,577,273	558,450,672	554,386,787	120%	4.66%	3.90%
22	3,996	440,437,195	463,748,879	457,173,808	139%	5.29%	3.80%
23	3,134	352,962,994	373,454,114	366,022,625	157%	5.81%	3.70%
24	2,583	302,183,275	317,509,254	313,061,873	141%	5.07%	3.60%
25	2,023	247,754,736	258,252,238	256,426,152	121%	4.24%	3.50%
26	1,562	197,538,305	205,336,134	204,452,146	113%	3.95%	3.50%
27	1,108	144,644,994	149,496,138	149,707,569	96%	3.35%	3.50%
28	802	107,347,378	111,489,169	111,104,536	110%	3.86%	3.50%
29	584	80,499,087	82,757,751	83,316,555	80%	2.81%	3.50%
30+	1,809	243,467,544	251,155,188	251,988,908	90%	3.16%	3.50%
Total	327,960	26,554,819,581	28,697,595,637	28,512,895,492	109%	8.07%	7.37%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Actual Salary EOY</u>	<u>Proposed Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	5,406	\$ 227,244,580	\$ 266,690,553	\$ 238,606,809	347%	17.36%	5.00%
1	17,887	799,313,304	894,924,387	855,265,235	171%	11.96%	7.00%
2	17,285	847,983,394	947,538,539	932,781,733	117%	11.74%	10.00%
3	18,132	970,562,018	1,089,122,536	1,077,323,840	111%	12.22%	11.00%
4	17,852	1,056,626,081	1,221,770,984	1,201,912,167	114%	15.63%	13.75%
5	17,406	1,154,655,410	1,479,062,321	1,400,019,685	132%	28.10%	21.25%
6	16,245	1,344,841,281	1,440,002,801	1,408,721,242	149%	7.08%	4.75%
7	15,246	1,292,803,590	1,362,610,869	1,357,443,770	108%	5.40%	5.00%
8	14,427	1,211,664,041	1,281,197,014	1,272,247,243	115%	5.74%	5.00%
9	13,745	1,149,650,522	1,230,459,778	1,215,755,427	122%	7.03%	5.75%
10	14,277	1,204,921,824	1,286,701,600	1,265,167,915	136%	6.79%	5.00%
11	14,889	1,265,974,866	1,344,931,247	1,329,273,609	125%	6.24%	5.00%
12	14,585	1,265,945,413	1,337,939,835	1,329,242,684	114%	5.69%	5.00%
13	15,220	1,324,210,139	1,401,138,466	1,387,110,121	122%	5.81%	4.75%
14	14,763	1,318,171,425	1,402,916,963	1,390,670,853	117%	6.43%	5.50%
15	14,217	1,297,271,947	1,385,041,732	1,358,892,364	142%	6.77%	4.75%
16	14,736	1,373,308,501	1,466,501,056	1,438,540,655	143%	6.79%	4.75%
17	15,885	1,496,229,459	1,590,125,200	1,563,559,785	139%	6.28%	4.50%
18	16,154	1,538,757,697	1,629,360,326	1,608,001,793	131%	5.89%	4.50%
19	10,768	1,086,794,643	1,153,373,297	1,143,851,362	117%	6.13%	5.25%
20	6,345	677,476,665	714,536,596	706,269,423	129%	5.47%	4.25%
21	4,889	533,577,273	558,450,672	556,254,307	110%	4.66%	4.25%
22	3,996	440,437,195	463,748,879	458,054,683	132%	5.29%	4.00%
23	3,134	352,962,994	373,454,114	367,081,514	145%	5.81%	4.00%
24	2,583	302,183,275	317,509,254	314,270,606	127%	5.07%	4.00%
25	2,023	247,754,736	258,252,238	257,664,925	106%	4.24%	4.00%
26	1,562	197,538,305	205,336,134	205,439,837	99%	3.95%	4.00%
27	1,108	144,644,994	149,496,138	150,430,794	84%	3.35%	4.00%
28	802	107,347,378	111,489,169	111,641,273	96%	3.86%	4.00%
29	584	80,499,087	82,757,751	83,719,050	70%	2.81%	4.00%
30+	1,809	243,467,544	251,155,188	253,206,246	79%	3.16%	4.00%
Total	327,960	26,554,819,581	28,697,595,637	28,238,420,951	127%	8.07%	6.34%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	5,406	\$ 227,244,580	\$ 239,124,567	\$ 227,244,580		5.23%	0.00%
1	17,887	799,313,304	840,227,592	831,285,836	128%	5.12%	4.00%
2	17,285	847,983,394	890,286,435	932,781,733	50%	4.99%	10.00%
3	18,132	970,562,018	1,017,943,661	1,087,029,460	41%	4.88%	12.00%
4	17,852	1,056,626,081	1,106,675,229	1,246,818,776	26%	4.74%	18.00%
5	17,406	1,154,655,410	1,205,357,250	1,535,691,695	13%	4.39%	33.00%
6	16,245	1,344,841,281	1,388,519,441	1,363,669,059	232%	3.25%	1.40%
7	15,246	1,292,803,590	1,333,791,993	1,313,488,447	198%	3.17%	1.60%
8	14,427	1,211,664,041	1,250,217,153	1,233,473,994	177%	3.18%	1.80%
9	13,745	1,149,650,522	1,186,182,361	1,186,439,339	99%	3.18%	3.20%
10	14,277	1,204,921,824	1,242,477,530	1,229,020,260	156%	3.12%	2.00%
11	14,889	1,265,974,866	1,304,521,257	1,290,028,388	160%	3.04%	1.90%
12	14,585	1,265,945,413	1,304,377,385	1,288,732,430	169%	3.04%	1.80%
13	15,220	1,324,210,139	1,364,514,218	1,346,721,711	179%	3.04%	1.70%
14	14,763	1,318,171,425	1,358,468,991	1,356,398,396	105%	3.06%	2.90%
15	14,217	1,297,271,947	1,336,030,567	1,316,731,026	199%	2.99%	1.50%
16	14,736	1,373,308,501	1,412,786,022	1,392,534,820	205%	2.87%	1.40%
17	15,885	1,496,229,459	1,539,150,121	1,515,680,442	221%	2.87%	1.30%
18	16,154	1,538,757,697	1,582,924,694	1,557,222,789	239%	2.87%	1.20%
19	10,768	1,086,794,643	1,117,892,950	1,112,877,714	119%	2.86%	2.40%
20	6,345	677,476,665	695,216,050	684,251,432	262%	2.62%	1.00%
21	4,889	533,577,273	546,305,332	538,379,468	265%	2.39%	0.90%
22	3,996	440,437,195	450,167,995	443,960,693	276%	2.21%	0.80%
23	3,134	352,962,994	360,371,866	355,433,735	300%	2.10%	0.70%
24	2,583	302,183,275	308,147,825	303,996,375	329%	1.97%	0.60%
25	2,023	247,754,736	252,652,577	248,993,510	395%	1.98%	0.50%
26	1,562	197,538,305	197,538,305	198,525,997		0.00%	0.50%
27	1,108	144,644,994	144,644,994	145,368,219		0.00%	0.50%
28	802	107,347,378	107,347,378	107,884,115		0.00%	0.50%
29	584	80,499,087	80,499,087	80,901,582		0.00%	0.50%
30+	1,809	243,467,544	243,467,544	244,684,882		0.00%	0.50%
Total	327,960	26,554,819,581	27,407,828,369	27,716,250,905	73%	3.21%	4.37%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%. Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Estimated Actual Merit Salary EOY</u>	<u>Proposed Merit Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	5,406	\$ 227,244,580	\$ 239,124,567	\$ 229,517,026	523%	5.23%	1.00%
1	17,887	799,313,304	840,227,592	823,292,703	171%	5.12%	3.00%
2	17,285	847,983,394	890,286,435	898,862,398	83%	4.99%	6.00%
3	18,132	970,562,018	1,017,943,661	1,038,501,359	70%	4.88%	7.00%
4	17,852	1,056,626,081	1,106,675,229	1,159,647,124	49%	4.74%	9.75%
5	17,406	1,154,655,410	1,205,357,250	1,353,833,468	25%	4.39%	17.25%
6	16,245	1,344,841,281	1,388,519,441	1,354,927,591	433%	3.25%	0.75%
7	15,246	1,292,803,590	1,333,791,993	1,305,731,626	317%	3.17%	1.00%
8	14,427	1,211,664,041	1,250,217,153	1,223,780,681	318%	3.18%	1.00%
9	13,745	1,149,650,522	1,186,182,361	1,169,769,406	182%	3.18%	1.75%
10	14,277	1,204,921,824	1,242,477,530	1,216,971,042	312%	3.12%	1.00%
11	14,889	1,265,974,866	1,304,521,257	1,278,634,615	304%	3.04%	1.00%
12	14,585	1,265,945,413	1,304,377,385	1,278,604,867	304%	3.04%	1.00%
13	15,220	1,324,210,139	1,364,514,218	1,334,141,715	406%	3.04%	0.75%
14	14,763	1,318,171,425	1,358,468,991	1,337,943,996	204%	3.06%	1.50%
15	14,217	1,297,271,947	1,336,030,567	1,307,001,487	398%	2.99%	0.75%
16	14,736	1,373,308,501	1,412,786,022	1,383,608,315	383%	2.87%	0.75%
17	15,885	1,496,229,459	1,539,150,121	1,503,710,606	574%	2.87%	0.50%
18	16,154	1,538,757,697	1,582,924,694	1,546,451,485	574%	2.87%	0.50%
19	10,768	1,086,794,643	1,117,892,950	1,100,379,576	229%	2.86%	1.25%
20	6,345	677,476,665	695,216,050	679,170,357	1047%	2.62%	0.25%
21	4,889	533,577,273	546,305,332	534,911,216	954%	2.39%	0.25%
22	3,996	440,437,195	450,167,995	440,437,195		2.21%	0.00%
23	3,134	352,962,994	360,371,866	352,962,994		2.10%	0.00%
24	2,583	302,183,275	308,147,825	302,183,275		1.97%	0.00%
25	2,023	247,754,736	252,652,577	247,754,736		1.98%	0.00%
26	1,562	197,538,305	197,538,305	197,538,305		0.00%	0.00%
27	1,108	144,644,994	144,644,994	144,644,994		0.00%	0.00%
28	802	107,347,378	107,347,378	107,347,378		0.00%	0.00%
29	584	80,499,087	80,499,087	80,499,087		0.00%	0.00%
30+	1,809	243,467,544	243,467,544	243,467,544		0.00%	0.00%
Total	327,960	26,554,819,581	27,407,828,369	27,176,228,167	2.34%	3.21%	2.34%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 9C		10-YEAR PERIOD ENDING 6/30/2013				
	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (5)	Increase %	
						Actual (4) / (3)	Expected (5) / (3)
2004	32,984	\$ 2,112,071,947	\$ 2,382,615,850	\$ 2,257,125,616	187%	12.81%	6.87%
2005	31,988	2,242,984,595	2,375,818,283	2,395,404,839	87%	5.92%	6.80%
2006	32,264	2,289,757,894	2,409,198,769	2,460,043,264	70%	5.22%	7.44%
2007	32,453	2,314,853,674	2,483,933,934	2,482,075,885	101%	7.30%	7.22%
2008	33,013	2,422,431,999	2,664,821,649	2,604,870,851	133%	10.01%	7.53%
2009	34,200	2,677,864,728	2,860,307,274	2,876,414,097	92%	6.81%	7.41%
2010	34,100	2,788,396,413	3,353,358,741	3,010,909,088	254%	20.26%	7.98%
2011	32,452	3,148,251,928	3,409,102,059	3,401,238,940	103%	8.29%	8.04%
2012	31,780	3,252,352,542	3,345,729,411	3,492,503,614	39%	2.87%	7.38%
2013	32,726	3,305,853,861	3,412,709,667	3,532,309,298	47%	3.23%	6.85%
Total	327,960	26,554,819,581	28,697,595,637	28,512,895,492	109%	8.07%	7.37%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Salary during the Year</u>	<u>Actual Overtime</u>	<u>Expected Overtime</u>	<u>Actual / Expected</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Expected %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,015	\$ 43,988,338	\$ 1,852,404	\$ 6,598,251	28%	4.21%	15.00%
1	4,954	217,475,276	14,525,347	32,621,291	45%	6.68%	15.00%
2	5,120	234,488,883	24,381,675	35,173,333	69%	10.40%	15.00%
3	6,391	321,618,436	38,550,810	48,242,765	80%	11.99%	15.00%
4	8,375	472,977,856	64,090,949	70,946,678	90%	13.55%	15.00%
5	8,698	567,102,185	78,264,255	85,065,328	92%	13.80%	15.00%
6	8,042	652,835,902	95,588,061	97,925,385	98%	14.64%	15.00%
7	7,359	622,103,793	94,537,577	93,315,569	101%	15.20%	15.00%
8	6,003	514,347,661	79,743,272	77,152,149	103%	15.50%	15.00%
9	5,336	456,519,029	71,802,995	68,477,854	105%	15.73%	15.00%
10	5,009	439,888,171	71,417,677	65,983,226	108%	16.24%	15.00%
11	4,955	440,959,007	71,915,926	66,143,851	109%	16.31%	15.00%
12	4,641	422,904,555	70,558,904	63,435,683	111%	16.68%	15.00%
13	4,348	404,491,165	68,424,137	60,673,675	113%	16.92%	15.00%
14	4,520	420,488,562	73,654,111	63,073,284	117%	17.52%	15.00%
15	4,568	427,929,612	78,451,746	64,189,442	122%	18.33%	15.00%
16	5,511	516,198,913	96,721,767	77,429,837	125%	18.74%	15.00%
17	6,008	574,361,924	110,212,877	86,154,289	128%	19.19%	15.00%
18	6,377	616,965,735	124,010,231	92,544,860	134%	20.10%	15.00%
19	5,064	498,127,117	106,024,460	74,719,067	142%	21.28%	15.00%
20	2,919	301,958,283	65,649,959	45,293,743	145%	21.74%	15.00%
21	1,921	204,701,384	44,996,964	30,705,208	147%	21.98%	15.00%
22	1,546	161,323,653	36,903,165	24,198,548	153%	22.88%	15.00%
23	1,300	135,202,076	30,741,835	18,928,291	162%	22.74%	14.00%
24	1,198	128,468,201	28,035,136	16,700,866	168%	21.82%	13.00%
25	1,022	112,656,436	24,802,785	13,518,772	183%	22.02%	12.00%
26	793	89,365,576	19,773,780	9,830,213	201%	22.13%	11.00%
27	574	65,515,744	13,998,528	6,551,574	214%	21.37%	10.00%
28	468	53,943,745	11,048,399	4,854,937	228%	20.48%	9.00%
29	308	36,712,532	7,285,192	2,937,003	248%	19.84%	8.00%
30	180	22,195,348	4,140,784	1,553,674	267%	18.66%	7.00%
31	110	13,981,351	2,380,961	838,881	284%	17.03%	6.00%
32	39	5,024,605	698,495	301,476	232%	13.90%	6.00%
33	19	2,485,906	427,676	149,154	287%	17.20%	6.00%
34	6	766,596	161,247	45,996	351%	21.03%	6.00%
35	9	1,025,286	221,095	61,517	359%	21.56%	6.00%
36	18	2,128,119	460,136	127,687	360%	21.62%	6.00%
37	13	1,692,485	283,731	101,549	279%	16.76%	6.00%
38	12	1,527,887	292,572	91,673	319%	19.15%	6.00%
39	7	868,673	199,452	52,120	383%	22.96%	6.00%
40	4	473,451	91,838	28,407	323%	19.40%	6.00%
41	3	382,949	80,350	22,977	350%	20.98%	6.00%
42	1	135,445	9,972	8,127	123%	7.36%	6.00%
43	0	-	-	-	-	-	6.00%
44	0	-	-	-	-	-	6.00%
45	0	-	-	-	-	-	6.00%
<b>Total</b>	<b>124,764</b>	<b>10,208,307,849</b>	<b>1,727,413,233</b>	<b>1,506,768,212</b>	<b>115%</b>	<b>16.92%</b>	<b>14.76%</b>



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Salary during the Year</u>	<u>Actual Overtime</u>	<u>Proposed Overtime</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	1,015	\$ 43,988,338	\$ 1,852,404	\$ 7,038,134	26%	4.21%	16.00%
1	4,954	217,475,276	14,525,347	34,796,044	42%	6.68%	16.00%
2	5,120	234,488,883	24,381,675	37,518,221	65%	10.40%	16.00%
3	6,391	321,618,436	38,550,810	51,458,950	75%	11.99%	16.00%
4	8,375	472,977,856	64,090,949	75,676,457	85%	13.55%	16.00%
5	8,698	567,102,185	78,264,255	90,736,350	86%	13.80%	16.00%
6	8,042	652,835,902	95,588,061	104,453,744	92%	14.64%	16.00%
7	7,359	622,103,793	94,537,577	99,536,607	95%	15.20%	16.00%
8	6,003	514,347,661	79,743,272	82,295,626	97%	15.50%	16.00%
9	5,336	456,519,029	71,802,995	73,043,045	98%	15.73%	16.00%
10	5,009	439,888,171	71,417,677	70,382,107	101%	16.24%	16.00%
11	4,955	440,959,007	71,915,926	70,553,441	102%	16.31%	16.00%
12	4,641	422,904,555	70,558,904	67,664,729	104%	16.68%	16.00%
13	4,348	404,491,165	68,424,137	64,718,586	106%	16.92%	16.00%
14	4,520	420,488,562	73,654,111	67,278,170	109%	17.52%	16.00%
15	4,568	427,929,612	78,451,746	68,468,738	115%	18.33%	16.00%
16	5,511	516,198,913	96,721,767	82,591,826	117%	18.74%	16.00%
17	6,008	574,361,924	110,212,877	91,897,908	120%	19.19%	16.00%
18	6,377	616,965,735	124,010,231	98,714,518	126%	20.10%	16.00%
19	5,064	498,127,117	106,024,460	79,700,339	133%	21.28%	16.00%
20	2,919	301,958,283	65,649,959	48,313,325	136%	21.74%	16.00%
21	1,921	204,701,384	44,996,964	32,752,221	137%	21.98%	16.00%
22	1,546	161,323,653	36,903,165	25,811,784	143%	22.88%	16.00%
23	1,300	135,202,076	30,741,835	21,632,332	142%	22.74%	16.00%
24	1,198	128,468,201	28,035,136	20,554,912	136%	21.82%	16.00%
25	1,022	112,656,436	24,802,785	18,025,030	138%	22.02%	16.00%
26	793	89,365,576	19,773,780	14,298,492	138%	22.13%	16.00%
27	574	65,515,744	13,998,528	10,482,519	134%	21.37%	16.00%
28	468	53,943,745	11,048,399	8,630,999	128%	20.48%	16.00%
29	308	36,712,532	7,285,192	5,874,005	124%	19.84%	16.00%
30	180	22,195,348	4,140,784	3,551,256	117%	18.66%	16.00%
31	110	13,981,351	2,380,961	2,237,016	106%	17.03%	16.00%
32	39	5,024,605	698,495	803,937	87%	13.90%	16.00%
33	19	2,485,906	427,676	397,745	108%	17.20%	16.00%
34	6	766,596	161,247	122,655	131%	21.03%	16.00%
35	9	1,025,286	221,095	164,046	135%	21.56%	16.00%
36	18	2,128,119	460,136	340,499	135%	21.62%	16.00%
37	13	1,692,485	283,731	270,798	105%	16.76%	16.00%
38	12	1,527,887	292,572	244,462	120%	19.15%	16.00%
39	7	868,673	199,452	138,988	144%	22.96%	16.00%
40	4	473,451	91,838	75,752	121%	19.40%	16.00%
41	3	382,949	80,350	61,272	131%	20.98%	16.00%
42	1	135,445	9,972	21,671	46%	7.36%	16.00%
43	0	-	-	-	-	-	16.00%
44	0	-	-	-	-	-	16.00%
45	0	-	-	-	-	-	16.00%
<b>Total</b>	<b>124,764</b>	<b>10,208,307,849</b>	<b>1,727,413,233</b>	<b>1,633,329,256</b>	<b>106%</b>	<b>16.92%</b>	<b>16.00%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-		0.00%	15.00%
1	0	-	-	-		0.00%	15.00%
2	0	-	-	-		0.00%	15.00%
3	0	-	-	-		0.00%	15.00%
4	0	-	-	-		0.00%	15.00%
5	0	-	-	-		0.00%	15.00%
6	0	-	-	-		0.00%	15.00%
7	0	-	-	-		0.00%	15.00%
8	0	-	-	-		0.00%	15.00%
9	1	\$ 133,352	\$ 31,619	\$ 20,003	158%	23.71%	15.00%
10	0	-	-	-		0.00%	15.00%
11	0	-	-	-		0.00%	15.00%
12	1	93,345	10,398	14,002	74%	11.14%	15.00%
13	1	84,330	11,734	12,649	93%	13.91%	15.00%
14	4	417,123	130,067	62,569	208%	31.18%	15.00%
15	0	-	-	-		0.00%	15.00%
16	25	2,424,390	507,564	363,659	140%	20.94%	15.00%
17	37	3,484,096	773,384	522,614	148%	22.20%	15.00%
18	22	2,216,037	430,722	332,406	130%	19.44%	15.00%
19	1,248	120,257,845	23,470,686	18,038,677	130%	19.52%	15.00%
20	1,134	110,890,648	24,694,804	16,633,597	148%	22.27%	15.00%
21	372	39,153,581	8,142,091	5,873,037	139%	20.80%	15.00%
22	191	20,007,858	4,310,245	3,001,179	144%	21.54%	15.00%
23	149	16,106,878	3,851,719	2,254,963	171%	23.91%	14.00%
24	158	17,034,560	4,095,520	2,214,493	185%	24.04%	13.00%
25	225	24,720,437	5,108,754	2,966,452	172%	20.67%	12.00%
26	130	14,901,568	2,970,306	1,639,173	181%	19.93%	11.00%
27	78	9,244,109	2,009,377	924,411	217%	21.74%	10.00%
28	50	5,879,475	1,372,085	529,153	259%	23.34%	9.00%
29	57	6,957,396	1,375,725	556,592	247%	19.77%	8.00%
30	34	4,225,372	864,960	295,776	292%	20.47%	7.00%
31	11	1,400,927	282,743	84,056	336%	20.18%	6.00%
32	6	766,989	153,822	46,019	334%	20.06%	6.00%
33	2	242,025	35,447	14,521	244%	14.65%	6.00%
34	2	257,039	48,762	15,422	316%	18.97%	6.00%
35	2	216,207	63,276	12,972	488%	29.27%	6.00%
36	2	224,548	18,786	13,473	139%	8.37%	6.00%
37	5	641,410	178,951	38,485	465%	27.90%	6.00%
38	2	217,454	11,480	13,047	88%	5.28%	6.00%
39	3	369,976	76,347	22,199	344%	20.64%	6.00%
40	0	-	-	-		0.00%	6.00%
41	1	122,291	21,366	7,337	291%	17.47%	6.00%
42	1	132,173	40,643	7,930	512%	30.75%	6.00%
43	1	109,734	27,279	6,584	414%	24.86%	6.00%
44	1	127,836	20,936	7,670	273%	16.38%	6.00%
45	0	-	-	-		0.00%	6.00%
<b>Total</b>	<b>3,956</b>	<b>403,061,010</b>	<b>85,141,598</b>	<b>56,545,119</b>	<b>151%</b>	<b>21.12%</b>	<b>14.03%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Salary during the Year</u>	<u>Actual Overtime</u>	<u>Proposed Overtime</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	0	-	-	-		0.00%	22.00%
1	0	-	-	-		0.00%	22.00%
2	0	-	-	-		0.00%	22.00%
3	0	-	-	-		0.00%	22.00%
4	0	-	-	-		0.00%	22.00%
5	0	-	-	-		0.00%	22.00%
6	0	-	-	-		0.00%	22.00%
7	0	-	-	-		0.00%	22.00%
8	0	-	-	-		0.00%	22.00%
9	1	\$ 133,352	\$ 31,619	\$ 29,337	108%	23.71%	22.00%
10	0	-	-	-		0.00%	22.00%
11	0	-	-	-		0.00%	22.00%
12	1	93,345	10,398	20,536	51%	11.14%	22.00%
13	1	84,330	11,734	18,553	63%	13.91%	22.00%
14	4	417,123	130,067	91,767	142%	31.18%	22.00%
15	0	-	-	-		0.00%	22.00%
16	25	2,424,390	507,564	533,366	95%	20.94%	22.00%
17	37	3,484,096	773,384	766,501	101%	22.20%	22.00%
18	22	2,216,037	430,722	487,528	88%	19.44%	22.00%
19	1,248	120,257,845	23,470,686	26,456,726	89%	19.52%	22.00%
20	1,134	110,890,648	24,694,804	24,395,943	101%	22.27%	22.00%
21	372	39,153,581	8,142,091	8,613,788	95%	20.80%	22.00%
22	191	20,007,858	4,310,245	4,401,729	98%	21.54%	22.00%
23	149	16,106,878	3,851,719	3,543,513	109%	23.91%	22.00%
24	158	17,034,560	4,095,520	3,747,603	109%	24.04%	22.00%
25	225	24,720,437	5,108,754	5,438,496	94%	20.67%	22.00%
26	130	14,901,568	2,970,306	3,278,345	91%	19.93%	22.00%
27	78	9,244,109	2,009,377	2,033,704	99%	21.74%	22.00%
28	50	5,879,475	1,372,085	1,293,485	106%	23.34%	22.00%
29	57	6,957,396	1,375,725	1,530,627	90%	19.77%	22.00%
30	34	4,225,372	864,960	929,582	93%	20.47%	22.00%
31	11	1,400,927	282,743	308,204	92%	20.18%	22.00%
32	6	766,989	153,822	168,738	91%	20.06%	22.00%
33	2	242,025	35,447	53,245	67%	14.65%	22.00%
34	2	257,039	48,762	56,549	86%	18.97%	22.00%
35	2	216,207	63,276	47,565	133%	29.27%	22.00%
36	2	224,548	18,786	49,401	38%	8.37%	22.00%
37	5	641,410	178,951	141,110	127%	27.90%	22.00%
38	2	217,454	11,480	47,840	24%	5.28%	22.00%
39	3	369,976	76,347	81,395	94%	20.64%	22.00%
40	0	-	-	-		0.00%	22.00%
41	1	122,291	21,366	26,904	79%	17.47%	22.00%
42	1	132,173	40,643	29,078	140%	30.75%	22.00%
43	1	109,734	27,279	24,141	113%	24.86%	22.00%
44	1	127,836	20,936	28,124	74%	16.38%	22.00%
45	0	-	-	-		0.00%	22.00%
<b>Total</b>	<b>3,956</b>	<b>403,061,010</b>	<b>85,141,598</b>	<b>88,673,422</b>	<b>96%</b>	<b>21.12%</b>	<b>22.00%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

TABLE 10C

4-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			15.00%
1	0	-	-	-			15.00%
2	2	\$ 175,051	\$ 4,736	\$ 26,258	18%	2.71%	15.00%
3	2	95,750	3,917	14,363	27%	4.09%	15.00%
4	5	279,601	23,820	41,940	57%	8.52%	15.00%
5	14	944,148	67,612	141,622	48%	7.16%	15.00%
6	27	2,209,441	128,667	331,416	39%	5.82%	15.00%
7	34	2,902,966	149,589	435,445	34%	5.15%	15.00%
8	39	3,370,303	174,068	505,545	34%	5.16%	15.00%
9	34	2,942,480	216,284	441,372	49%	7.35%	15.00%
10	42	3,586,520	231,992	537,978	43%	6.47%	15.00%
11	43	3,818,594	360,561	572,789	63%	9.44%	15.00%
12	44	3,924,573	299,824	588,686	51%	7.64%	15.00%
13	35	3,080,185	350,592	462,028	76%	11.38%	15.00%
14	42	3,758,138	307,935	563,721	55%	8.19%	15.00%
15	58	5,502,071	473,748	825,311	57%	8.61%	15.00%
16	77	7,183,773	722,264	1,077,566	67%	10.05%	15.00%
17	74	7,170,463	739,918	1,075,570	69%	10.32%	15.00%
18	68	6,574,839	886,978	986,226	90%	13.49%	15.00%
19	106	10,505,968	1,299,591	1,575,895	82%	12.37%	15.00%
20	83	8,549,852	1,367,394	1,282,478	107%	15.99%	15.00%
21	32	3,372,563	493,689	505,884	98%	14.64%	15.00%
22	22	2,346,157	338,578	351,923	96%	14.43%	15.00%
23	17	1,899,556	374,591	265,938	141%	19.72%	14.00%
24	14	1,514,085	185,030	196,831	94%	12.22%	13.00%
25	18	2,146,299	397,255	257,556	154%	18.51%	12.00%
26	7	812,022	160,454	89,322	180%	19.76%	11.00%
27	7	770,643	168,399	77,064	219%	21.85%	10.00%
28	0	-	-	-			9.00%
29	1	131,302	17,291	10,504	165%	13.17%	8.00%
30	1	111,388	10,812	7,797	139%	9.71%	7.00%
31	1	136,481	24,083	8,189	294%	17.65%	6.00%
32	0	-	-	-			6.00%
33	0	-	-	-			6.00%
34	0	-	-	-			6.00%
35	1	81,817	16,645	4,909	339%	20.34%	6.00%
36	0	-	-	-			6.00%
37	0	-	-	-			6.00%
38	0	-	-	-			6.00%
39	0	-	-	-			6.00%
40	0	-	-	-			6.00%
41	0	-	-	-			6.00%
42	1	130,884	33,699	7,853	429%	25.75%	6.00%
43	0	-	-	-			6.00%
44	1	113,890	409	6,833	6%	0.36%	6.00%
45	0	-	-	-			6.00%
Total	952	90,141,802	10,030,425	13,276,813	76%	11.13%	14.73%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

TABLE 10C

4-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			16.00%
1	0	-	-	-			16.00%
2	2	\$ 175,051	\$ 4,736	\$ 28,008	17%	2.71%	16.00%
3	2	95,750	3,917	15,320	26%	4.09%	16.00%
4	5	279,601	23,820	44,736	53%	8.52%	16.00%
5	14	944,148	67,612	151,064	45%	7.16%	16.00%
6	27	2,209,441	128,667	353,511	36%	5.82%	16.00%
7	34	2,902,966	149,589	464,475	32%	5.15%	16.00%
8	39	3,370,303	174,068	539,248	32%	5.16%	16.00%
9	34	2,942,480	216,284	470,797	46%	7.35%	16.00%
10	42	3,586,520	231,992	573,843	40%	6.47%	16.00%
11	43	3,818,594	360,561	610,975	59%	9.44%	16.00%
12	44	3,924,573	299,824	627,932	48%	7.64%	16.00%
13	35	3,080,185	350,592	492,830	71%	11.38%	16.00%
14	42	3,758,138	307,935	601,302	51%	8.19%	16.00%
15	58	5,502,071	473,748	880,331	54%	8.61%	16.00%
16	77	7,183,773	722,264	1,149,404	63%	10.05%	16.00%
17	74	7,170,463	739,918	1,147,274	64%	10.32%	16.00%
18	68	6,574,839	886,978	1,051,974	84%	13.49%	16.00%
19	106	10,505,968	1,299,591	1,680,955	77%	12.37%	16.00%
20	83	8,549,852	1,367,394	1,367,976	100%	15.99%	16.00%
21	32	3,372,563	493,689	539,610	91%	14.64%	16.00%
22	22	2,346,157	338,578	375,385	90%	14.43%	16.00%
23	17	1,899,556	374,591	303,929	123%	19.72%	16.00%
24	14	1,514,085	185,030	242,254	76%	12.22%	16.00%
25	18	2,146,299	397,255	343,408	116%	18.51%	16.00%
26	7	812,022	160,454	129,923	123%	19.76%	16.00%
27	7	770,643	168,399	123,303	137%	21.85%	16.00%
28	0	-	-	-			16.00%
29	1	131,302	17,291	21,008	82%	13.17%	16.00%
30	1	111,388	10,812	17,822	61%	9.71%	16.00%
31	1	136,481	24,083	21,837	110%	17.65%	16.00%
32	0	-	-	-			16.00%
33	0	-	-	-			16.00%
34	0	-	-	-			16.00%
35	1	81,817	16,645	13,091	127%	20.34%	16.00%
36	0	-	-	-			16.00%
37	0	-	-	-			16.00%
38	0	-	-	-			16.00%
39	0	-	-	-			16.00%
40	0	-	-	-			16.00%
41	0	-	-	-			16.00%
42	1	130,884	33,699	20,941	161%	25.75%	16.00%
43	0	-	-	-			16.00%
44	1	113,890	409	18,222	2%	0.36%	16.00%
45	0	-	-	-			16.00%
Total	952	90,141,802	10,030,425	14,422,688	70%	11.13%	16.00%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Salary during the Year</u>	<u>Actual Overtime</u>	<u>Expected Overtime</u>	<u>Actual / Expected</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Expected %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	4,353	\$ 153,833,623	\$ 4,368,426	\$ 23,075,044	19%	2.84%	15.00%
1	17,517	680,907,229	51,255,908	102,136,084	50%	7.53%	15.00%
2	17,151	731,041,066	94,481,977	109,656,160	86%	12.92%	15.00%
3	17,941	834,668,347	118,105,356	125,200,252	94%	14.15%	15.00%
4	17,611	905,926,550	132,425,299	135,888,983	97%	14.62%	15.00%
5	17,137	988,745,291	147,110,214	148,311,794	99%	14.88%	15.00%
6	16,027	1,153,727,380	179,616,733	173,059,107	104%	15.57%	15.00%
7	15,013	1,106,966,037	176,822,796	166,044,905	106%	15.97%	15.00%
8	14,155	1,034,079,335	168,278,847	155,111,900	108%	16.27%	15.00%
9	13,416	976,597,230	159,496,881	146,489,585	109%	16.33%	15.00%
10	13,929	1,022,801,430	168,926,281	153,420,214	110%	16.52%	15.00%
11	14,481	1,071,628,581	178,980,571	160,744,287	111%	16.70%	15.00%
12	14,101	1,064,044,175	181,847,388	159,606,626	114%	17.09%	15.00%
13	14,662	1,107,081,022	193,578,448	166,062,153	117%	17.49%	15.00%
14	14,152	1,094,357,042	195,391,739	164,153,556	119%	17.85%	15.00%
15	13,522	1,066,103,852	197,040,906	159,915,578	123%	18.48%	15.00%
16	13,940	1,120,021,505	212,287,297	168,003,226	126%	18.95%	15.00%
17	14,968	1,213,540,219	237,947,478	182,031,033	131%	19.61%	15.00%
18	15,269	1,250,195,105	259,007,773	187,529,266	138%	20.72%	15.00%
19	10,025	864,582,833	192,561,264	129,687,425	148%	22.27%	15.00%
20	5,747	521,113,075	114,978,756	78,166,961	147%	22.06%	15.00%
21	4,279	393,488,540	87,265,342	59,023,281	148%	22.18%	15.00%
22	3,407	313,737,533	70,357,492	47,060,630	150%	22.43%	15.00%
23	2,591	244,273,386	54,011,946	34,198,274	158%	22.11%	14.00%
24	2,071	203,692,183	44,292,855	26,479,984	167%	21.74%	13.00%
25	1,558	160,664,657	34,928,906	19,279,759	181%	21.74%	12.00%
26	1,162	123,764,777	26,533,200	13,614,125	195%	21.44%	11.00%
27	786	86,228,070	18,005,920	8,622,807	209%	20.88%	10.00%
28	542	61,022,761	12,238,808	5,492,049	223%	20.06%	9.00%
29	364	41,743,495	8,117,039	3,339,480	243%	19.45%	8.00%
30	255	28,521,739	5,297,787	1,996,522	265%	18.57%	7.00%
31	170	19,387,504	3,417,385	1,163,250	294%	17.63%	6.00%
32	90	9,662,941	1,583,366	579,776	273%	16.39%	6.00%
33	65	6,746,326	1,223,878	404,780	302%	18.14%	6.00%
34	59	5,719,852	932,039	343,191	272%	16.29%	6.00%
35	58	5,435,738	998,950	326,144	306%	18.38%	6.00%
36	55	5,424,924	980,359	325,495	301%	18.07%	6.00%
37	54	5,476,371	966,623	328,582	294%	17.65%	6.00%
38	46	4,691,929	790,874	281,516	281%	16.86%	6.00%
39	23	2,435,876	457,429	146,153	313%	18.78%	6.00%
40	12	1,268,701	230,095	76,122	302%	18.14%	6.00%
41	5	581,398	104,984	34,884	301%	18.06%	6.00%
42	3	342,892	38,364	20,574	186%	11.19%	6.00%
43	1	107,109	1,245	6,427	19%	1.16%	6.00%
44	0	-	-	-	-	-	6.00%
45	0	-	-	-	-	-	6.00%
Total	312,773	21,686,379,630	3,737,285,224	3,217,437,943	116%	17.23%	14.84%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Salary during the Year</u>	<u>Actual Overtime</u>	<u>Proposed Overtime</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	4,353	153,833,623	\$ 4,368,426	\$ 24,613,380	18%	2.84%	16.00%
1	17,517	680,907,229	51,255,908	108,945,157	47%	7.53%	16.00%
2	17,151	731,041,066	94,481,977	116,966,571	81%	12.92%	16.00%
3	17,941	834,668,347	118,105,356	133,546,936	88%	14.15%	16.00%
4	17,611	905,926,550	132,425,299	144,948,248	91%	14.62%	16.00%
5	17,137	988,745,291	147,110,214	158,199,247	93%	14.88%	16.00%
6	16,027	1,153,727,380	179,616,733	184,596,381	97%	15.57%	16.00%
7	15,013	1,106,966,037	176,822,796	177,114,566	100%	15.97%	16.00%
8	14,155	1,034,079,335	168,278,847	165,452,694	102%	16.27%	16.00%
9	13,416	976,597,230	159,496,881	156,255,557	102%	16.33%	16.00%
10	13,929	1,022,801,430	168,926,281	163,648,229	103%	16.52%	16.00%
11	14,481	1,071,628,581	178,980,571	171,460,573	104%	16.70%	16.00%
12	14,101	1,064,044,175	181,847,388	170,247,068	107%	17.09%	16.00%
13	14,662	1,107,081,022	193,578,448	177,132,963	109%	17.49%	16.00%
14	14,152	1,094,357,042	195,391,739	175,097,127	112%	17.85%	16.00%
15	13,522	1,066,103,852	197,040,906	170,576,616	116%	18.48%	16.00%
16	13,940	1,120,021,505	212,287,297	179,203,441	118%	18.95%	16.00%
17	14,968	1,213,540,219	237,947,478	194,166,435	123%	19.61%	16.00%
18	15,269	1,250,195,105	259,007,773	200,031,217	129%	20.72%	16.00%
19	10,025	864,582,833	192,561,264	138,333,253	139%	22.27%	16.00%
20	5,747	521,113,075	114,978,756	83,378,092	138%	22.06%	16.00%
21	4,279	393,488,540	87,265,342	62,958,166	139%	22.18%	16.00%
22	3,407	313,737,533	70,357,492	50,198,005	140%	22.43%	16.00%
23	2,591	244,273,386	54,011,946	39,083,742	138%	22.11%	16.00%
24	2,071	203,692,183	44,292,855	32,590,749	136%	21.74%	16.00%
25	1,558	160,664,657	34,928,906	25,706,345	136%	21.74%	16.00%
26	1,162	123,764,777	26,533,200	19,802,364	134%	21.44%	16.00%
27	786	86,228,070	18,005,920	13,796,491	131%	20.88%	16.00%
28	542	61,022,761	12,238,808	9,763,642	125%	20.06%	16.00%
29	364	41,743,495	8,117,039	6,678,959	122%	19.45%	16.00%
30	255	28,521,739	5,297,787	4,563,478	116%	18.57%	16.00%
31	170	19,387,504	3,417,385	3,102,001	110%	17.63%	16.00%
32	90	9,662,941	1,583,366	1,546,070	102%	16.39%	16.00%
33	65	6,746,326	1,223,878	1,079,412	113%	18.14%	16.00%
34	59	5,719,852	932,039	915,176	102%	16.29%	16.00%
35	58	5,435,738	998,950	869,718	115%	18.38%	16.00%
36	55	5,424,924	980,359	867,988	113%	18.07%	16.00%
37	54	5,476,371	966,623	876,219	110%	17.65%	16.00%
38	46	4,691,929	790,874	750,709	105%	16.86%	16.00%
39	23	2,435,876	457,429	389,740	117%	18.78%	16.00%
40	12	1,268,701	230,095	202,992	113%	18.14%	16.00%
41	5	581,398	104,984	93,024	113%	18.06%	16.00%
42	3	342,892	38,364	54,863	70%	11.19%	16.00%
43	1	107,109	1,245	17,138	7%	1.16%	16.00%
44	0	0	-	-			16.00%
45	0	0	-	-			16.00%
<b>Total</b>	<b>312,773</b>	<b>21,686,379,630</b>	<b>3,737,285,224</b>	<b>3,469,820,741</b>	<b>108%</b>	<b>17.23%</b>	<b>16.00%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

TABLE 10B

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			15.00%
1	0	-	-	-			15.00%
2	0	-	-	-			15.00%
3	0	-	-	-			15.00%
4	0	-	-	-			15.00%
5	1	\$ 60,788	\$ 23,422	\$ 9,118	257%	38.53%	15.00%
6	1	67,020	16,650	10,053	166%	24.84%	15.00%
7	2	127,295	43,759	19,094	229%	34.38%	15.00%
8	2	128,228	16,570	19,234	86%	12.92%	15.00%
9	2	198,856	49,455	29,828	166%	24.87%	15.00%
10	3	192,897	32,939	28,935	114%	17.08%	15.00%
11	4	259,475	61,364	38,921	158%	23.65%	15.00%
12	5	352,992	75,623	52,949	143%	21.42%	15.00%
13	9	624,049	142,220	93,607	152%	22.79%	15.00%
14	17	1,326,411	328,967	198,962	165%	24.80%	15.00%
15	7	469,230	116,051	70,384	165%	24.73%	15.00%
16	70	5,463,610	1,238,063	819,541	151%	22.66%	15.00%
17	113	8,638,130	2,096,593	1,295,719	162%	24.27%	15.00%
18	168	12,040,591	2,533,087	1,806,089	140%	21.04%	15.00%
19	5,353	399,627,043	93,040,993	59,944,057	155%	23.28%	15.00%
20	3,133	257,879,623	68,900,850	38,681,943	178%	26.72%	15.00%
21	802	72,588,980	16,488,215	10,888,347	151%	22.71%	15.00%
22	411	37,426,430	8,551,185	5,613,965	152%	22.85%	15.00%
23	269	26,289,341	6,368,722	3,680,508	173%	24.23%	14.00%
24	241	24,413,423	5,689,538	3,173,745	179%	23.30%	13.00%
25	307	31,754,059	6,681,364	3,810,487	175%	21.04%	12.00%
26	163	17,860,283	3,561,437	1,964,631	181%	19.94%	11.00%
27	102	11,608,794	2,370,393	1,160,879	204%	20.42%	10.00%
28	59	6,747,404	1,585,510	607,266	261%	23.50%	9.00%
29	65	7,568,348	1,562,161	605,468	258%	20.64%	8.00%
30	45	5,102,048	1,054,187	357,143	295%	20.66%	7.00%
31	16	1,863,235	371,772	111,794	333%	19.95%	6.00%
32	13	1,396,230	220,829	83,774	264%	15.82%	6.00%
33	8	762,387	172,023	45,743	376%	22.56%	6.00%
34	11	1,158,075	225,863	69,484	325%	19.50%	6.00%
35	10	954,280	190,621	57,257	333%	19.98%	6.00%
36	8	706,242	62,028	42,374	146%	8.78%	6.00%
37	15	1,533,795	318,967	92,028	347%	20.80%	6.00%
38	13	1,285,724	190,085	77,143	246%	14.78%	6.00%
39	15	1,497,594	273,120	89,856	304%	18.24%	6.00%
40	6	593,790	111,436	35,627	313%	18.77%	6.00%
41	7	666,400	109,781	39,984	275%	16.47%	6.00%
42	1	132,173	40,643	7,930	512%	30.75%	6.00%
43	1	109,734	27,279	6,584	414%	24.86%	6.00%
44	1	127,836	20,936	7,670	273%	16.38%	6.00%
45	0	-	-	-			6.00%
Total	11,479	941,602,840	224,964,701	135,748,124	166%	23.89%	14.42%



**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 10B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			22.00%
1	0	-	-	-			22.00%
2	0	-	-	-			22.00%
3	0	-	-	-			22.00%
4	0	-	-	-			22.00%
5	1	\$ 60,788	\$ 23,422	\$ 13,373	175%	38.53%	22.00%
6	1	67,020	16,650	14,744	113%	24.84%	22.00%
7	2	127,295	43,759	28,005	156%	34.38%	22.00%
8	2	128,228	16,570	28,210	59%	12.92%	22.00%
9	2	198,856	49,455	43,748	113%	24.87%	22.00%
10	3	192,897	32,939	42,437	78%	17.08%	22.00%
11	4	259,475	61,364	57,084	107%	23.65%	22.00%
12	5	352,992	75,623	77,658	97%	21.42%	22.00%
13	9	624,049	142,220	137,291	104%	22.79%	22.00%
14	17	1,326,411	328,967	291,810	113%	24.80%	22.00%
15	7	469,230	116,051	103,231	112%	24.73%	22.00%
16	70	5,463,610	1,238,063	1,201,994	103%	22.66%	22.00%
17	113	8,638,130	2,096,593	1,900,389	110%	24.27%	22.00%
18	168	12,040,591	2,533,087	2,648,930	96%	21.04%	22.00%
19	5,353	399,627,043	93,040,993	87,917,950	106%	23.28%	22.00%
20	3,133	257,879,623	68,900,850	56,733,517	121%	26.72%	22.00%
21	802	72,588,980	16,488,215	15,969,576	103%	22.71%	22.00%
22	411	37,426,430	8,551,185	8,233,815	104%	22.85%	22.00%
23	269	26,289,341	6,368,722	5,783,655	110%	24.23%	22.00%
24	241	24,413,423	5,689,538	5,370,953	106%	23.30%	22.00%
25	307	31,754,059	6,681,364	6,985,893	96%	21.04%	22.00%
26	163	17,860,283	3,561,437	3,929,262	91%	19.94%	22.00%
27	102	11,608,794	2,370,393	2,553,935	93%	20.42%	22.00%
28	59	6,747,404	1,585,510	1,484,429	107%	23.50%	22.00%
29	65	7,568,348	1,562,161	1,665,037	94%	20.64%	22.00%
30	45	5,102,048	1,054,187	1,122,450	94%	20.66%	22.00%
31	16	1,863,235	371,772	409,912	91%	19.95%	22.00%
32	13	1,396,230	220,829	307,171	72%	15.82%	22.00%
33	8	762,387	172,023	167,725	103%	22.56%	22.00%
34	11	1,158,075	225,863	254,776	89%	19.50%	22.00%
35	10	954,280	190,621	209,942	91%	19.98%	22.00%
36	8	706,242	62,028	155,373	40%	8.78%	22.00%
37	15	1,533,795	318,967	337,435	95%	20.80%	22.00%
38	13	1,285,724	190,085	282,859	67%	14.78%	22.00%
39	15	1,497,594	273,120	329,471	83%	18.24%	22.00%
40	6	593,790	111,436	130,634	85%	18.77%	22.00%
41	7	666,400	109,781	146,608	75%	16.47%	22.00%
42	1	132,173	40,643	29,078	140%	30.75%	22.00%
43	1	109,734	27,279	24,141	113%	24.86%	22.00%
44	1	127,836	20,936	28,124	74%	16.38%	22.00%
45	0	-	-	-			22.00%
<b>Total</b>	<b>11,479</b>	<b>941,602,840</b>	<b>224,964,701</b>	<b>207,152,625</b>	<b>109%</b>	<b>23.89%</b>	<b>22.00%</b>

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

TABLE 10C

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1	\$ 35,978	\$ 256	\$ 5,397	5%	0.71%	15.00%
1	1	41,004	273	6,151	4%	0.67%	15.00%
2	6	341,137	12,436	51,170	24%	3.65%	15.00%
3	14	627,214	40,719	94,082	43%	6.49%	15.00%
4	13	654,293	48,757	98,144	50%	7.45%	15.00%
5	34	1,972,910	147,296	295,937	50%	7.47%	15.00%
6	62	4,464,517	235,570	669,678	35%	5.28%	15.00%
7	79	5,713,290	344,101	856,993	40%	6.02%	15.00%
8	93	6,717,194	365,373	1,007,579	36%	5.44%	15.00%
9	113	7,870,752	569,319	1,180,613	48%	7.23%	15.00%
10	169	11,658,323	1,042,098	1,748,749	60%	8.94%	15.00%
11	195	13,636,103	1,291,842	2,045,416	63%	9.47%	15.00%
12	192	13,703,929	1,071,332	2,055,589	52%	7.82%	15.00%
13	202	14,234,606	1,143,538	2,135,191	54%	8.03%	15.00%
14	198	14,593,703	1,263,908	2,189,055	58%	8.66%	15.00%
15	188	14,733,530	1,173,088	2,210,030	53%	7.96%	15.00%
16	185	14,748,963	1,578,105	2,212,344	71%	10.70%	15.00%
17	201	16,144,423	1,770,787	2,421,664	73%	10.97%	15.00%
18	221	17,073,437	2,431,301	2,561,015	95%	14.24%	15.00%
19	325	25,993,265	3,967,204	3,898,990	102%	15.26%	15.00%
20	202	17,369,961	3,064,811	2,605,494	118%	17.64%	15.00%
21	70	6,424,141	1,085,501	963,621	113%	16.90%	15.00%
22	54	4,955,561	930,403	743,334	125%	18.77%	15.00%
23	34	3,357,882	684,055	470,104	146%	20.37%	14.00%
24	31	3,028,704	460,144	393,732	117%	15.19%	13.00%
25	28	3,063,265	582,167	367,592	158%	19.00%	12.00%
26	9	994,067	211,648	109,347	194%	21.29%	11.00%
27	7	770,643	168,399	77,064	219%	21.85%	10.00%
28	2	199,288	46,342	17,936	258%	23.25%	9.00%
29	1	131,302	17,291	10,504	165%	13.17%	8.00%
30	2	212,758	48,719	14,893	327%	22.90%	7.00%
31	4	372,808	54,249	22,369	243%	14.55%	6.00%
32	6	601,861	187,500	36,112	519%	31.15%	6.00%
33	2	146,699	915	8,802	10%	0.62%	6.00%
34	2	189,048	1,009	11,343	9%	0.53%	6.00%
35	6	567,837	108,402	34,070	318%	19.09%	6.00%
36	0	-	-	-	-	-	6.00%
37	0	-	-	-	-	-	6.00%
38	4	375,098	83,552	22,506	371%	22.27%	6.00%
39	2	195,514	41,619	11,731	355%	21.29%	6.00%
40	2	214,005	31,028	12,840	242%	14.50%	6.00%
41	1	110,158	21,785	6,610	330%	19.78%	6.00%
42	1	130,884	33,699	7,853	429%	25.75%	6.00%
43	0	-	-	-	-	-	6.00%
44	1	113,890	409	6,833	6%	0.36%	6.00%
45	0	-	-	-	-	-	6.00%
Total	2,963	228,483,947	26,360,950	33,698,475	78%	11.54%	14.75%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

TABLE 10C

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1	\$ 35,978	\$ 256	\$ 5,757	4%	0.71%	16.00%
1	1	41,004	273	6,561	4%	0.67%	16.00%
2	6	341,137	12,436	54,582	23%	3.65%	16.00%
3	14	627,214	40,719	100,354	41%	6.49%	16.00%
4	13	654,293	48,757	104,687	47%	7.45%	16.00%
5	34	1,972,910	147,296	315,666	47%	7.47%	16.00%
6	62	4,464,517	235,570	714,323	33%	5.28%	16.00%
7	79	5,713,290	344,101	914,126	38%	6.02%	16.00%
8	93	6,717,194	365,373	1,074,751	34%	5.44%	16.00%
9	113	7,870,752	569,319	1,259,320	45%	7.23%	16.00%
10	169	11,658,323	1,042,098	1,865,332	56%	8.94%	16.00%
11	195	13,636,103	1,291,842	2,181,777	59%	9.47%	16.00%
12	192	13,703,929	1,071,332	2,192,629	49%	7.82%	16.00%
13	202	14,234,606	1,143,538	2,277,537	50%	8.03%	16.00%
14	198	14,593,703	1,263,908	2,334,992	54%	8.66%	16.00%
15	188	14,733,530	1,173,088	2,357,365	50%	7.96%	16.00%
16	185	14,748,963	1,578,105	2,359,834	67%	10.70%	16.00%
17	201	16,144,423	1,770,787	2,583,108	69%	10.97%	16.00%
18	221	17,073,437	2,431,301	2,731,750	89%	14.24%	16.00%
19	325	25,993,265	3,967,204	4,158,922	95%	15.26%	16.00%
20	202	17,369,961	3,064,811	2,779,194	110%	17.64%	16.00%
21	70	6,424,141	1,085,501	1,027,863	106%	16.90%	16.00%
22	54	4,955,561	930,403	792,890	117%	18.77%	16.00%
23	34	3,357,882	684,055	537,261	127%	20.37%	16.00%
24	31	3,028,704	460,144	484,593	95%	15.19%	16.00%
25	28	3,063,265	582,167	490,122	119%	19.00%	16.00%
26	9	994,067	211,648	159,051	133%	21.29%	16.00%
27	7	770,643	168,399	123,303	137%	21.85%	16.00%
28	2	199,288	46,342	31,886	145%	23.25%	16.00%
29	1	131,302	17,291	21,008	82%	13.17%	16.00%
30	2	212,758	48,719	34,041	143%	22.90%	16.00%
31	4	372,808	54,249	59,649	91%	14.55%	16.00%
32	6	601,861	187,500	96,298	195%	31.15%	16.00%
33	2	146,699	915	23,472	4%	0.62%	16.00%
34	2	189,048	1,009	30,248	3%	0.53%	16.00%
35	6	567,837	108,402	90,854	119%	19.09%	16.00%
36	0	-	-	-	-	-	16.00%
37	0	-	-	-	-	-	16.00%
38	4	375,098	83,552	60,016	139%	22.27%	16.00%
39	2	195,514	41,619	31,282	133%	21.29%	16.00%
40	2	214,005	31,028	34,241	91%	14.50%	16.00%
41	1	110,158	21,785	17,625	124%	19.78%	16.00%
42	1	130,884	33,699	20,941	161%	25.75%	16.00%
43	0	-	-	-	-	-	16.00%
44	1	113,890	409	18,222	2%	0.36%	16.00%
45	0	-	-	-	-	-	16.00%
Total	2,963	228,483,947	26,360,950	36,557,432	72%	11.54%	16.00%

**NEW YORK CITY POLICE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 10D			10-YEAR PERIOD ENDING 6/30/2013		
		Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
					Actual (4) / (3)	Expected (5) / (3)	(8)
2004	31,226	\$ 1,711,055,841	\$ 289,620,351	\$ 255,580,075	113%	16.93%	14.94%
2005	29,906	1,804,597,602	300,560,118	269,446,862	112%	16.66%	14.93%
2006	31,131	1,889,292,299	338,543,714	282,038,312	120%	17.92%	14.93%
2007	31,410	1,913,049,377	325,531,705	285,147,594	114%	17.02%	14.91%
2008	31,701	1,980,941,656	349,746,673	294,781,085	119%	17.66%	14.88%
2009	32,635	2,179,135,007	405,869,430	323,675,802	125%	18.63%	14.85%
2010	32,422	2,260,946,662	407,000,355	334,886,168	122%	18.00%	14.81%
2011	30,898	2,571,504,420	418,628,636	379,748,493	110%	16.28%	14.77%
2012	30,343	2,665,938,470	423,841,369	393,190,424	108%	15.90%	14.75%
2013	31,101	2,709,918,297	477,942,873	398,943,127	120%	17.64%	14.72%
Total	312,773	21,686,379,630	3,737,285,224	3,217,437,943	116%	17.23%	14.84%

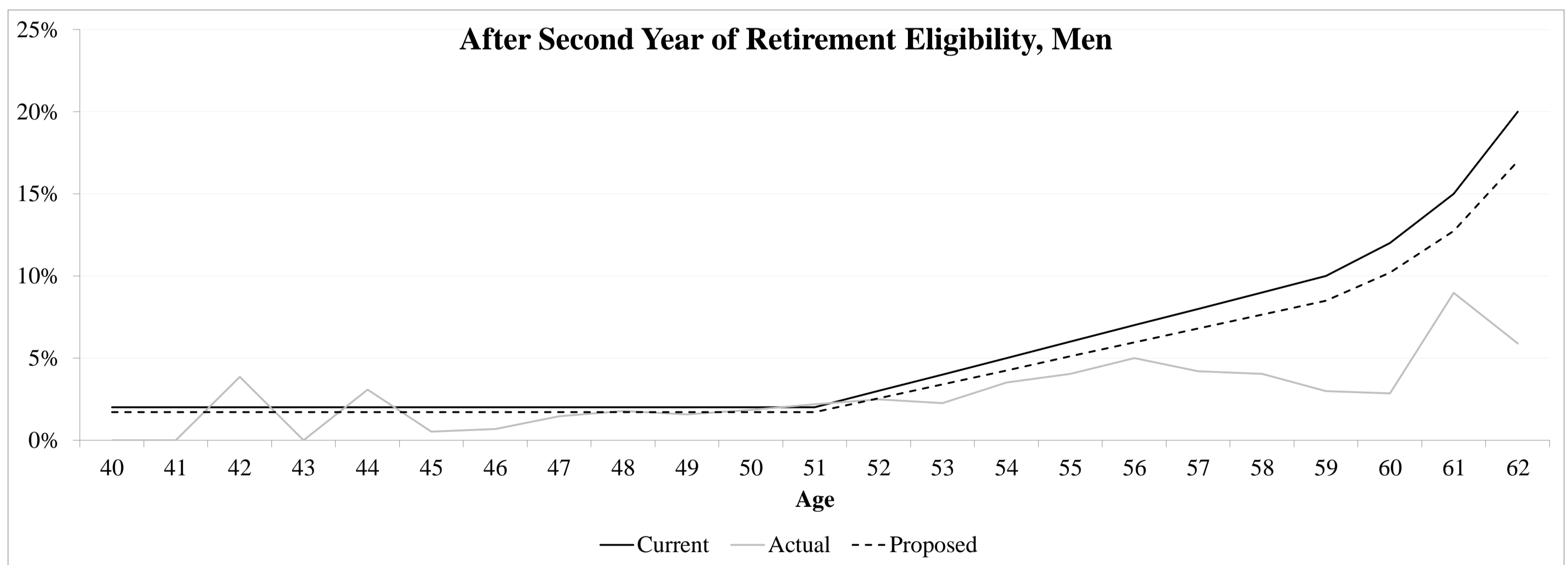
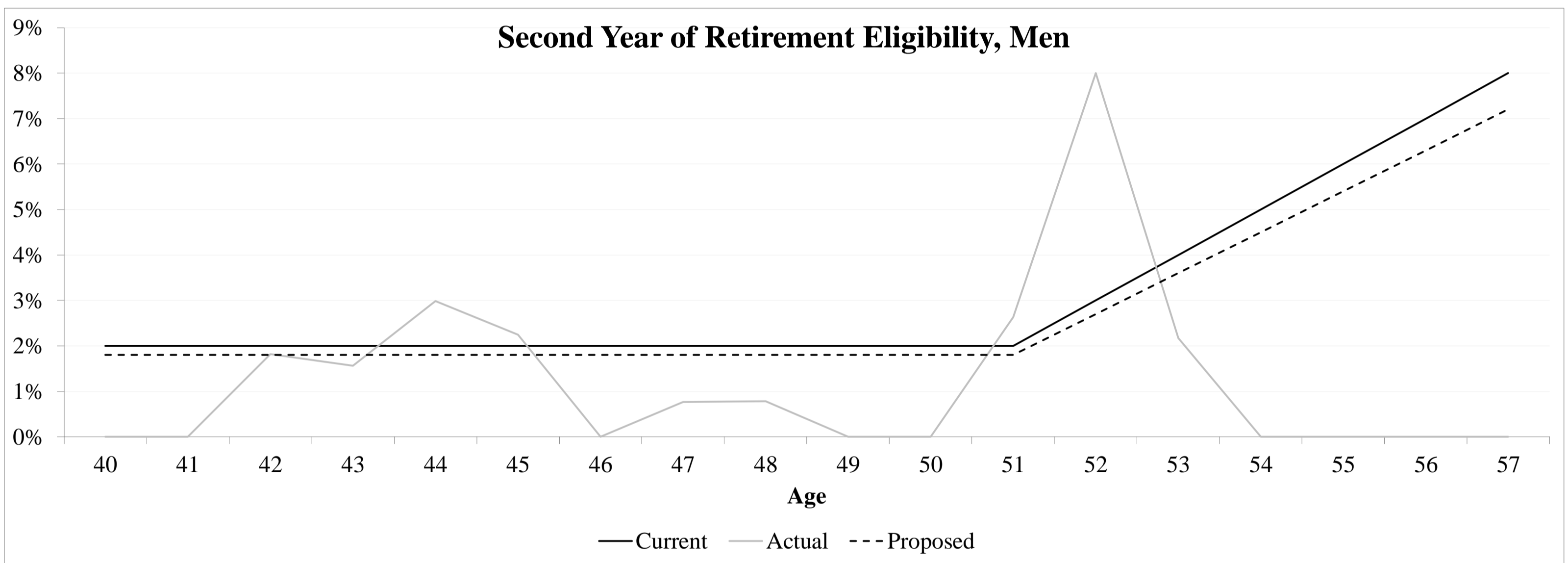
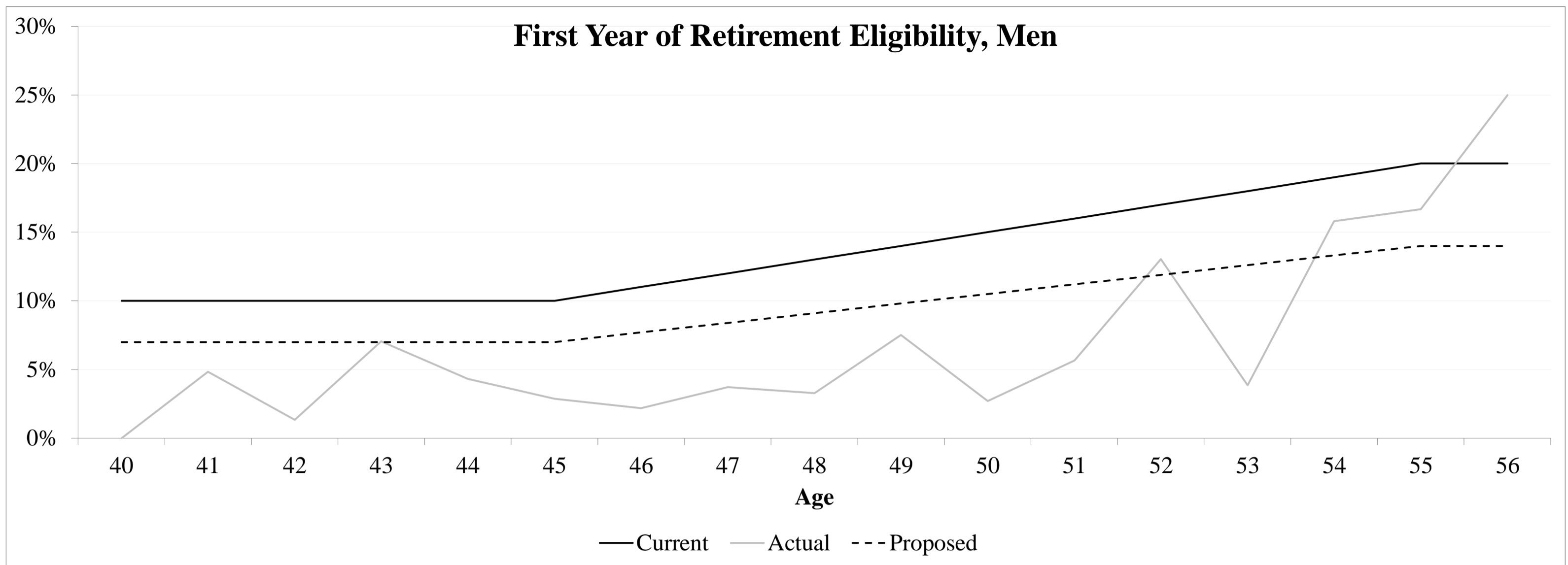
NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
EXPERIENCE STUDY RESULTS  
OVERVIEW

Table Number	Table Type	4-YEAR PERIOD ENDING 6/30/2013*		10-YEAR PERIOD ENDING 6/30/2013*		Average Number of Decrements per Year	Comments
		Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Proposed		
1A	Service Retiree Mortality						
1B	Men By Year	102%	194	102%	93%	192	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
2A	Disabled Retiree Mortality						
2B	Men By Year	95%	220	94%	93%	204	The proposed assumption is based on actual plan experience. Future mortality improvements will be projected using scale MP-2014.
3A	Active Member Withdrawals						
3B	By Year	91%	25	106%	106%	34	Recommend no change.
4A	Active Member Service Retirements						
4B	In 1st Year of Eligibility	38%	14	71%	101%	28	Actual experience has been trending downward. We recommend a lower assumption. The proposed assumptions are 70%, 90%, and 85% of the current assumption for members retiring in the first, second, and after second year of eligibility, respectively, with other small adjustments at specific ages as warranted. We anticipate the use of the MSTATC field will lead to more accurate data in future experience studies.
4C	In 2nd Year of Eligibility	62%	4	96%	107%	6	
4D	After 2nd Year of Eligibility	53%	52	62%	73%	48	
4D	By Year						
5A	Active Member Ordinary Mortality						
5B	Men By Year	46%	4	61%	101%	5	Actual experience has been trending downward. The proposed assumption is 60% of the current assumption.
6A	Active Member Accidental Mortality						
6B	By Year	58%	3	73%	98%	4	Actual experience has been trending downward. The proposed assumption is 75% of the current assumption.
7A	Active Member Ordinary Disability						
7B	By Year	6%	2	11%	13%	3	Materially different results emerged than were expected. Expectations should be lowered. The proposed assumption is 80% of the current assumption.
8A	Active Member Accidental Disability						
8B	WTC Eligible	134%	328	152%	124%	365	Expectations should be moved towards experience in both cases. New rates, exponentially-fitted to actual data, are proposed for both those eligible and not eligible for WTC Disability.
8C	WTC Ineligible	52%	6	45%	79%	4	
8C	By Year						
9A	Salary Increases**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Overall, salary experience has been higher than the current assumption.
9B	Total	6.26%	7.08%	6.98%	6.68%	7.62%	
9C	Merit Only	3.26%	4.55%	3.98%	3.68%	4.52%	
9C	General Increase over Inflation By Year	0.50%	0.52%	0.50%	0.50%	0.68%	
10A	Overtime Pay**	<b>Expected</b>	<b>Actual</b>	<b>Expected</b>	<b>Proposed</b>	<b>Actual</b>	Actual OT rates appear to increase over member's working career. The current assumption assumes overtime rates will decline over time. We recommend a materially higher, flat dual-service OT assumption.
10B	For All Years	14.71%	19.29%	14.85%	17.00%	19.54%	
10C	In Year Before Service Retirement	15.46%	25.12%	17.67%	24.00%	30.41%	
10D	In Year Before Disability Retirement By Year	14.74%	20.56%	15.36%	20.00%	23.98%	

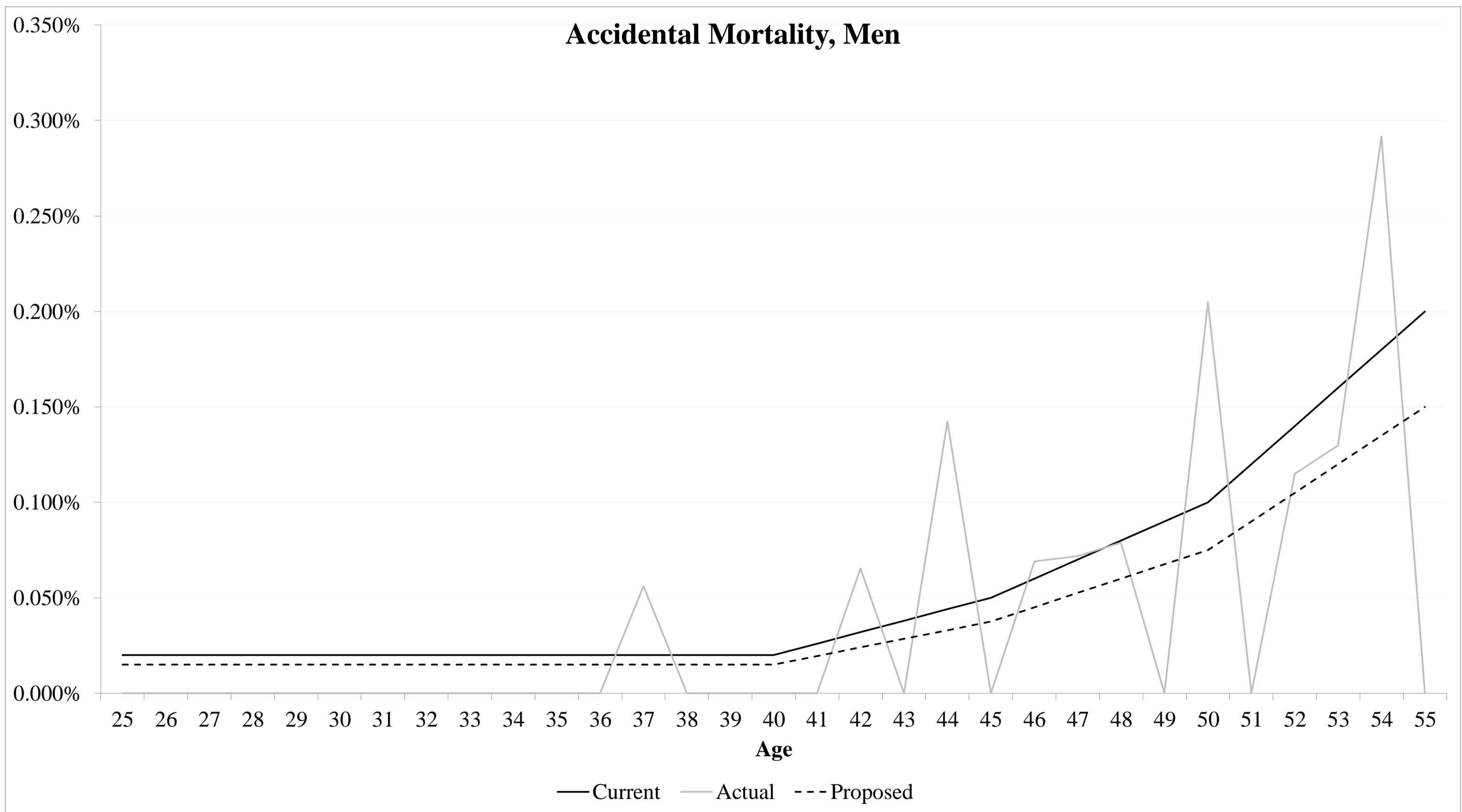
\* Four-year and eight-year periods ending 6/30/2011 were studied for the Withdrawal and Disability Decrements.

\*\* For Salary Increases, average annual percentage increase in salary is shown. For Overtime Pay, average annual overtime pay is expressed as a percentage of salary.

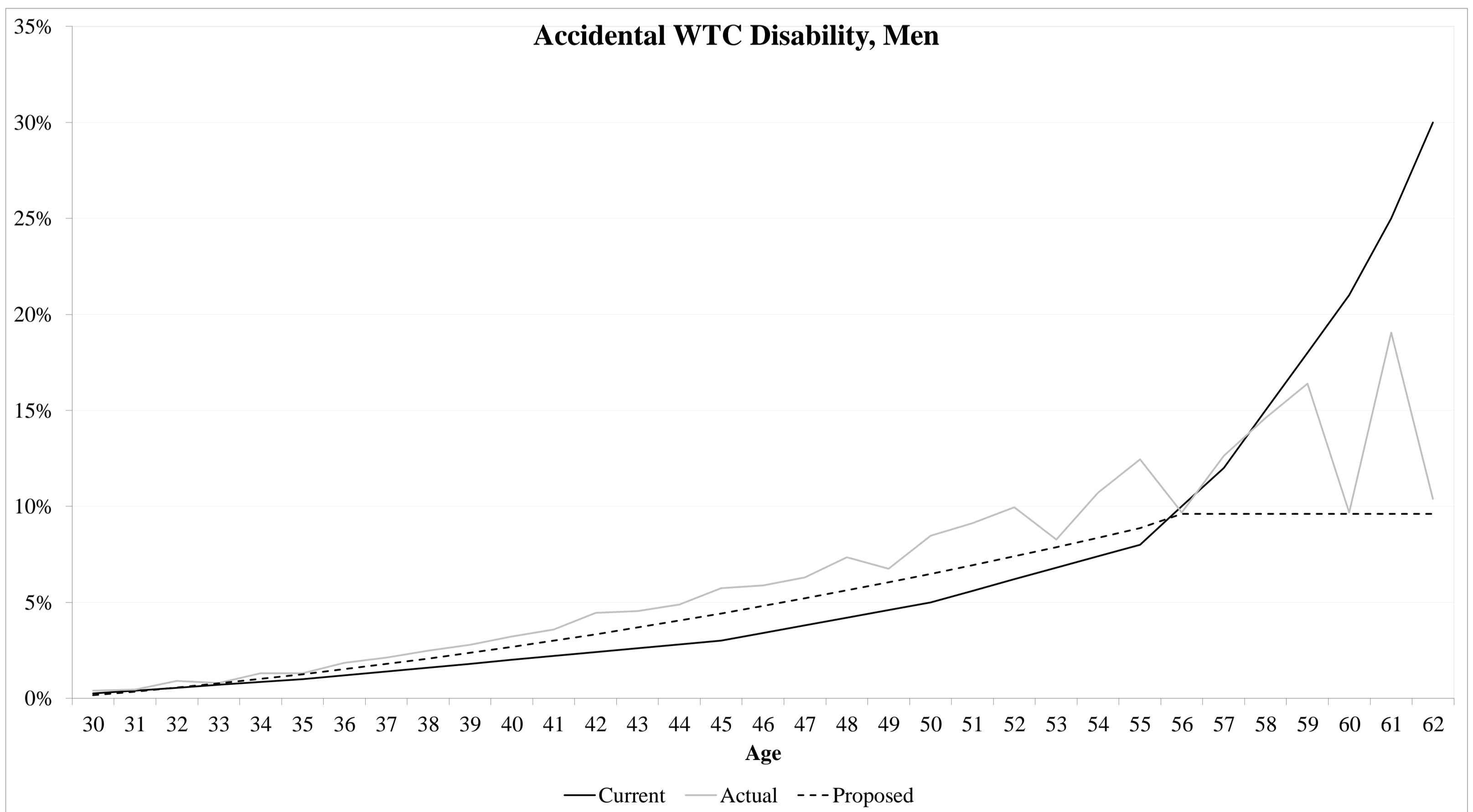
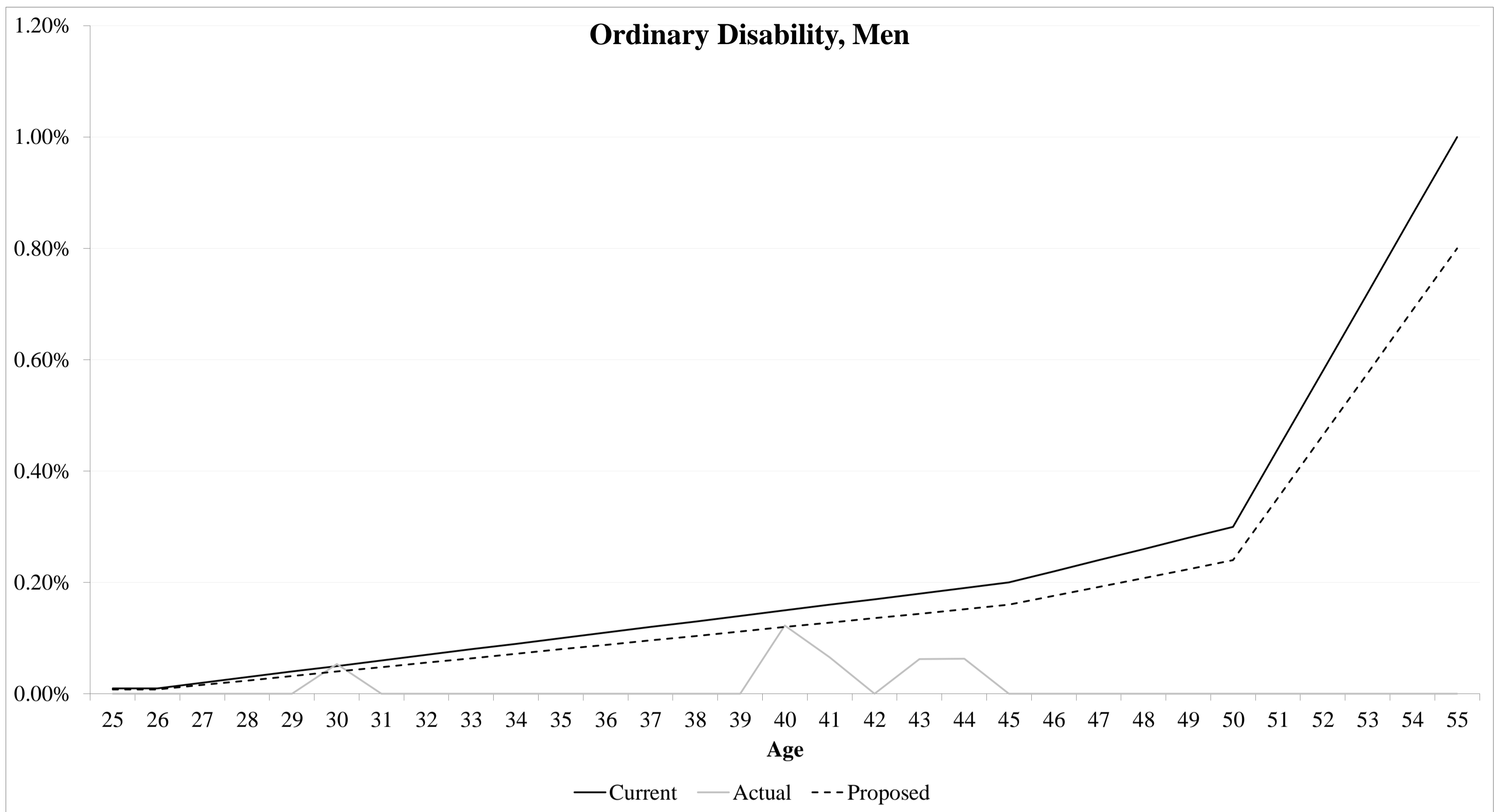
**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT ASSUMPTIONS AND EXPERIENCE  
FOR THE FOUR-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACTIVE MORTALITY ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**

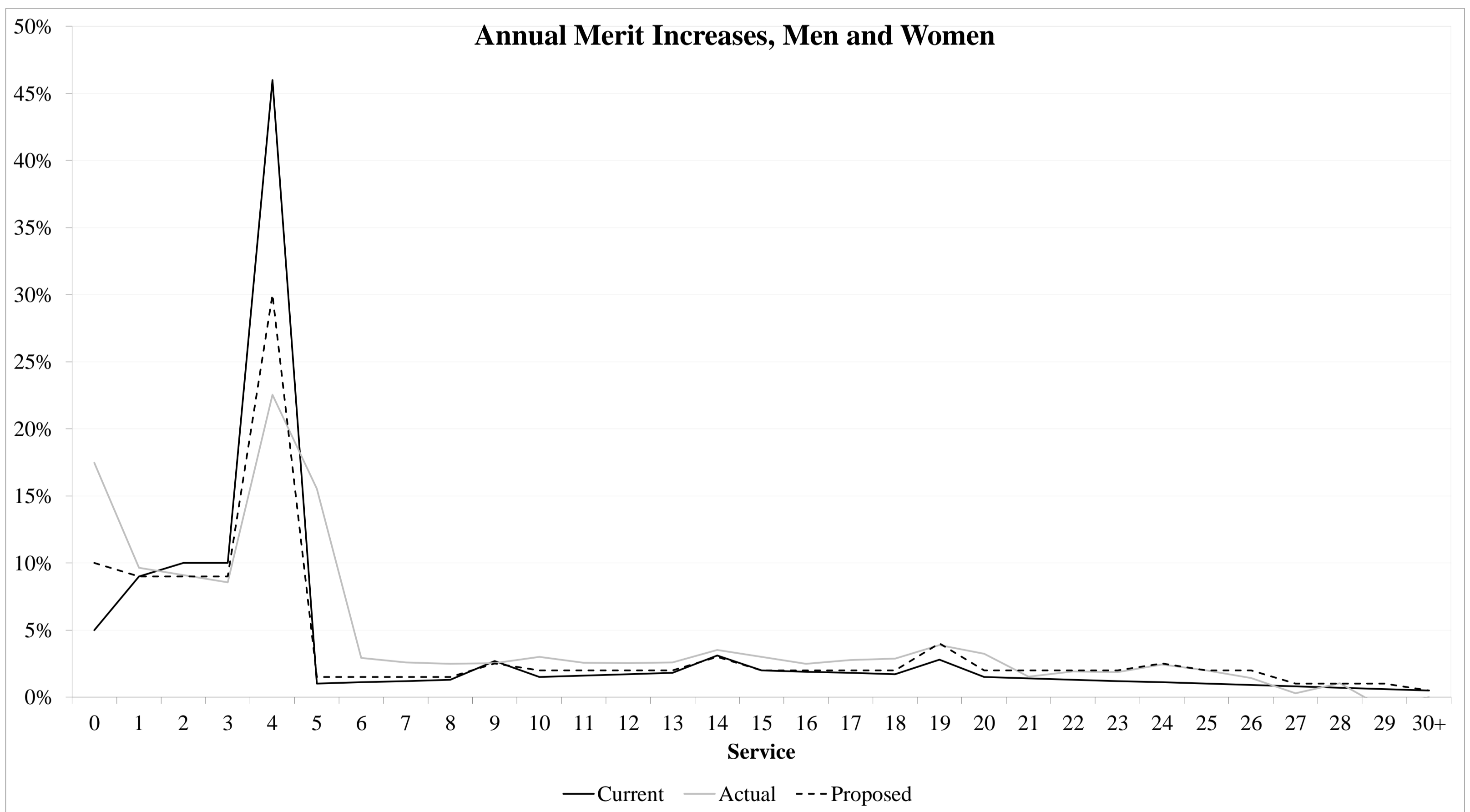
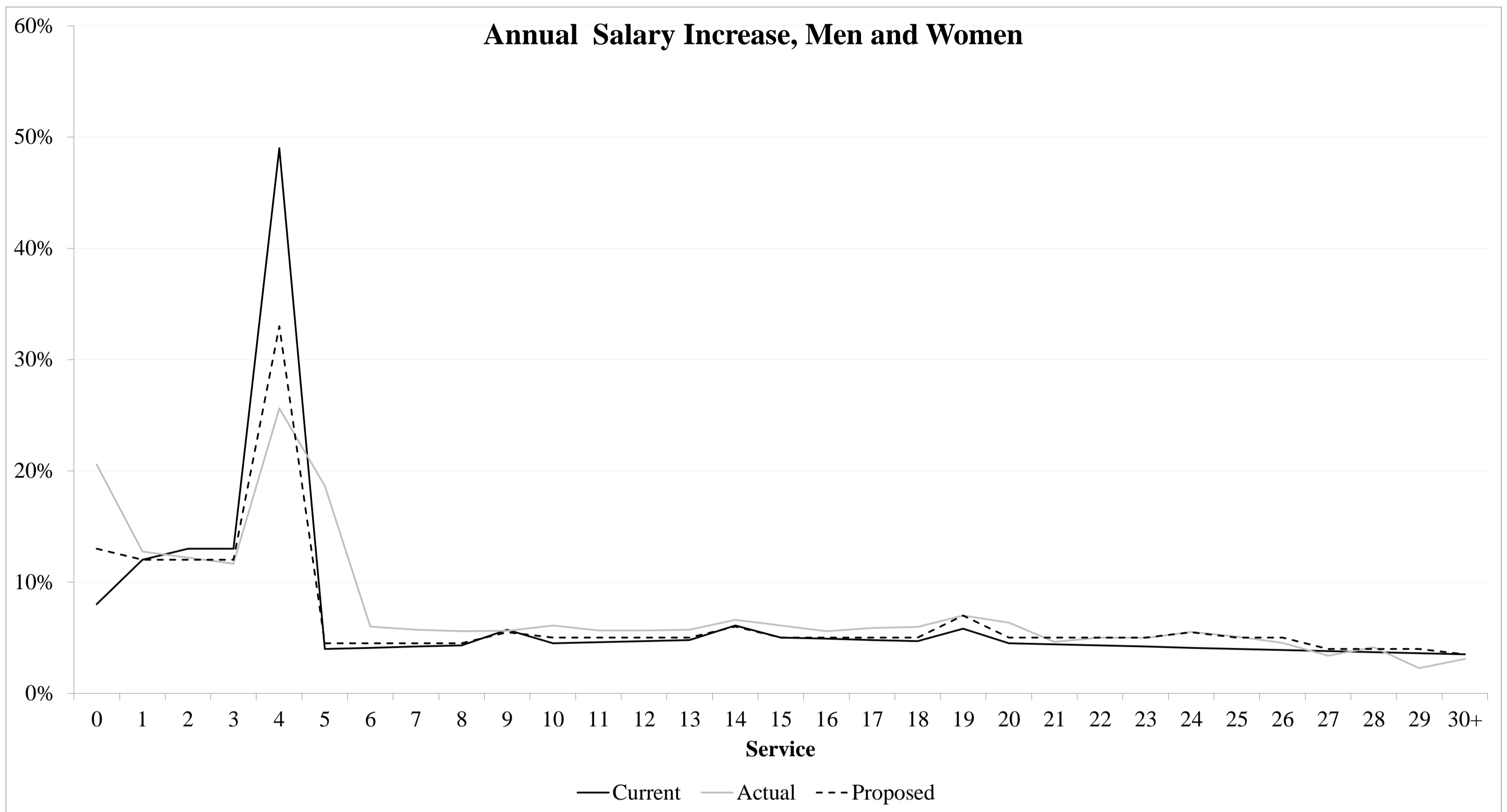


**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
DISABILITY ASSUMPTIONS AND EXPERIENCE  
FOR THE EIGHT-YEAR PERIOD ENDING 6/30/2011**

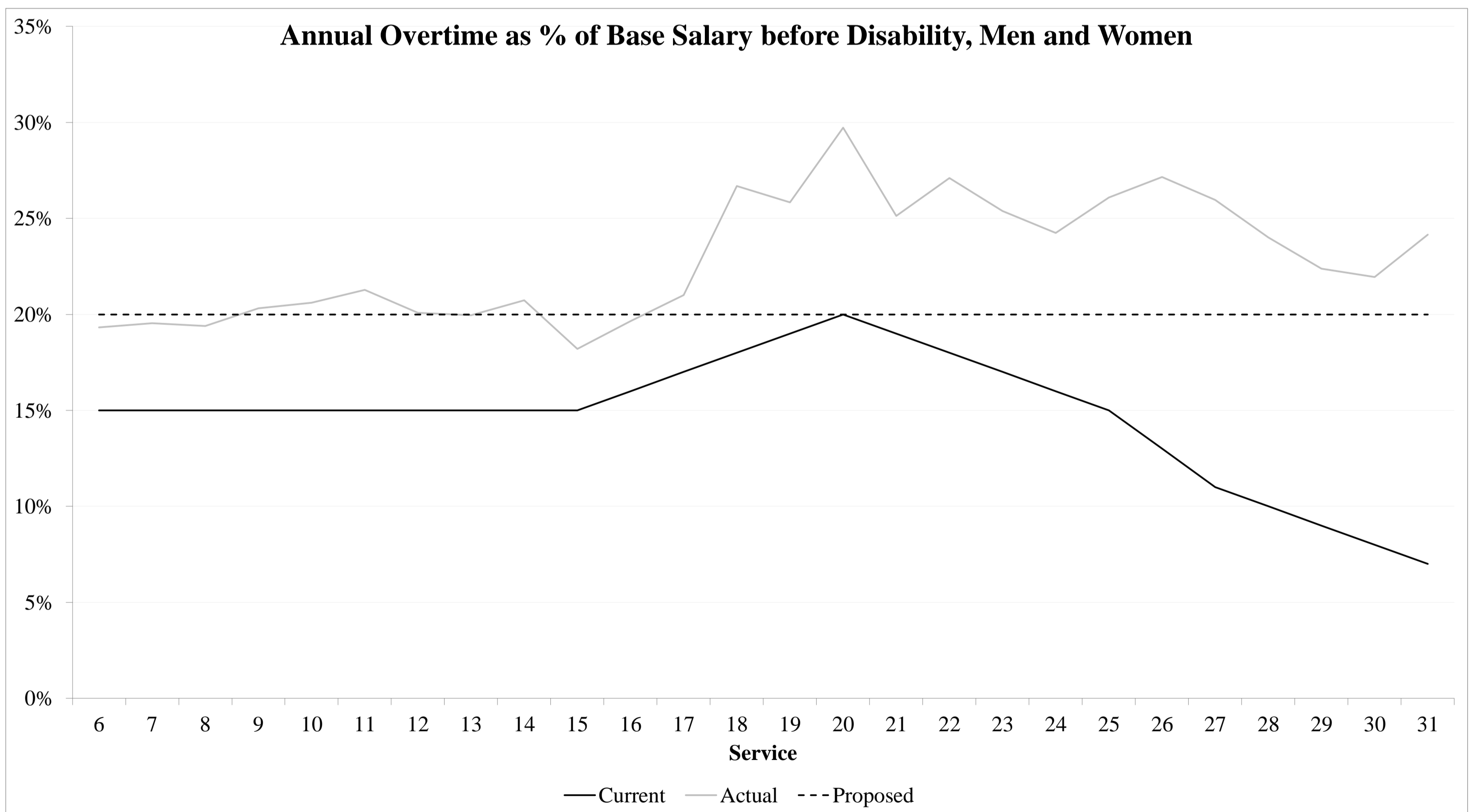
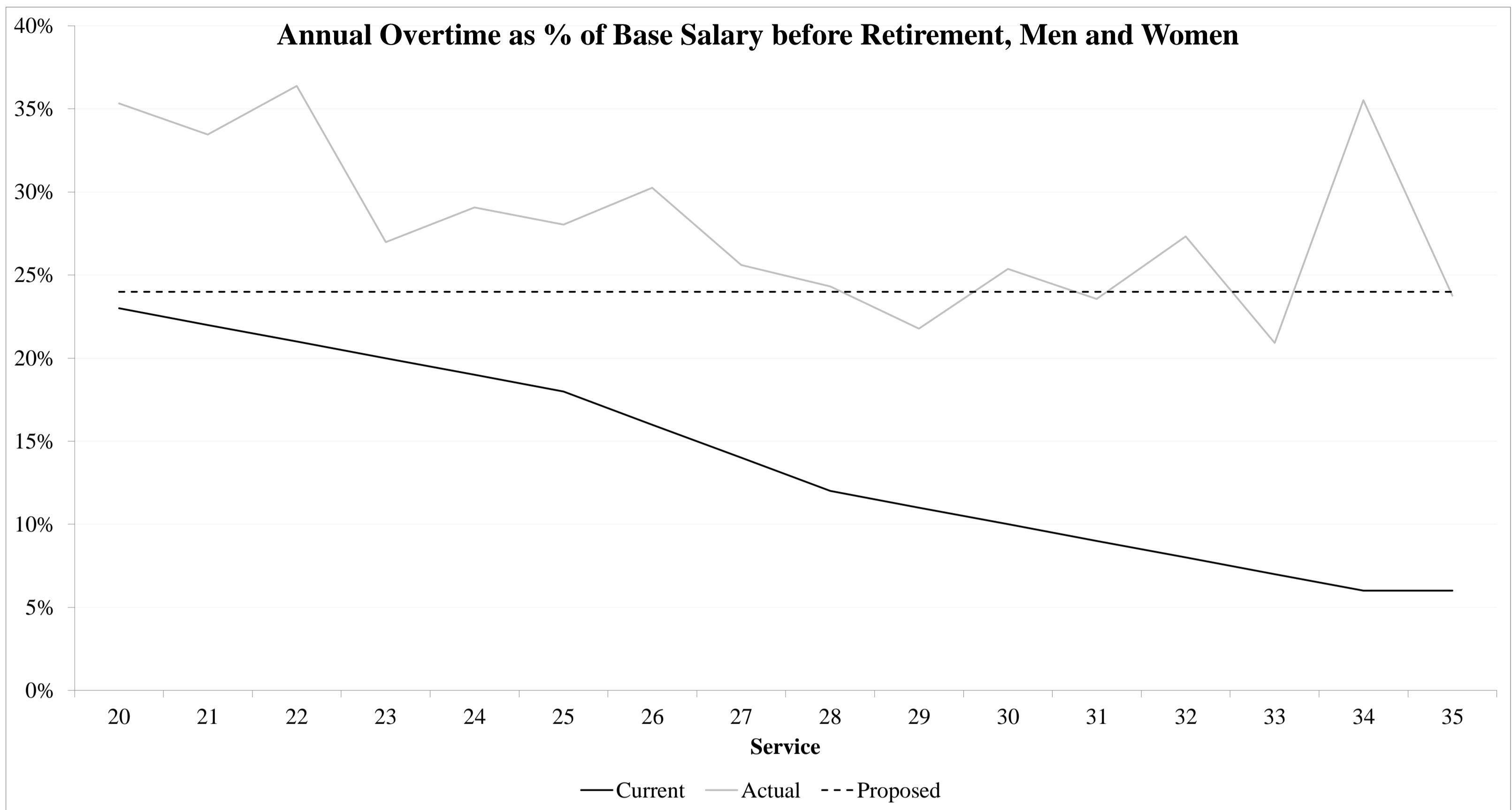




**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
SALARY ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME ASSUMPTIONS AND EXPERIENCE  
FOR THE TEN-YEAR PERIOD ENDING 6/30/2013**



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> (3) x (5) (7)	<u>Proposed</u> (3) x (6) (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41	0	4	0.000000	0.1408%	0.1059%	0.0	0.0	0%	0%
42	0	6	0.000000	0.1521%	0.1155%	0.0	0.0	0%	0%
43	0	10	0.000000	0.1629%	0.1259%	0.0	0.0	0%	0%
44	0	18	0.000000	0.1736%	0.1370%	0.0	0.0	0%	0%
45	0	39	0.000000	0.1843%	0.1489%	0.1	0.1	0%	0%
46	0	55	0.000000	0.1946%	0.1614%	0.1	0.1	0%	0%
47	0	71	0.000000	0.2050%	0.1746%	0.1	0.1	0%	0%
48	0	98	0.000000	0.2150%	0.1886%	0.2	0.2	0%	0%
49	0	115	0.000000	0.2248%	0.2033%	0.3	0.2	0%	0%
50	1	182	0.005495	0.2344%	0.2191%	0.4	0.4	234%	251%
51	1	260	0.003846	0.2813%	0.2368%	0.7	0.6	137%	162%
52	0	354	0.000000	0.3237%	0.2572%	1.1	0.9	0%	0%
53	0	468	0.000000	0.3642%	0.2811%	1.7	1.3	0%	0%
54	1	509	0.001965	0.4012%	0.3093%	2.0	1.6	49%	64%
55	0	492	0.000000	0.4376%	0.3426%	2.2	1.7	0%	0%
56	3	484	0.006198	0.4806%	0.3817%	2.3	1.8	129%	162%
57	0	495	0.000000	0.5221%	0.4253%	2.6	2.1	0%	0%
58	3	469	0.006397	0.5625%	0.4739%	2.6	2.2	114%	135%
59	3	465	0.006452	0.5965%	0.5281%	2.8	2.5	108%	122%
60	1	464	0.002155	0.6285%	0.5884%	2.9	2.7	34%	37%
61	3	432	0.006944	0.6941%	0.6556%	3.0	2.8	100%	106%
62	4	463	0.008639	0.7564%	0.7305%	3.5	3.4	114%	118%
63	4	554	0.007220	0.8407%	0.8140%	4.7	4.5	86%	89%
64	6	576	0.010417	0.9389%	0.9070%	5.4	5.2	111%	115%
65	7	609	0.011494	1.0475%	1.0106%	6.4	6.2	110%	114%
66	7	623	0.011236	1.1320%	1.1261%	7.1	7.0	99%	100%
67	1	640	0.001563	1.2166%	1.2547%	7.8	8.0	13%	12%
68	8	702	0.011396	1.2948%	1.3981%	9.1	9.8	88%	82%
69	12	770	0.015584	1.3638%	1.5578%	10.5	12.0	114%	100%
70	15	849	0.017668	1.5093%	1.7358%	12.8	14.7	117%	102%
71	17	882	0.019274	1.6956%	1.9341%	15.0	17.1	114%	100%
72	18	907	0.019846	1.8816%	2.1550%	17.1	19.5	105%	92%
73	16	943	0.016967	2.1274%	2.4012%	20.1	22.6	80%	71%
74	32	917	0.034896	2.3730%	2.6756%	21.8	24.5	147%	130%
75	33	861	0.038328	2.6401%	2.9812%	22.7	25.7	145%	129%
76	28	826	0.033898	2.8878%	3.3218%	23.9	27.4	117%	102%
77	23	749	0.030708	3.1611%	3.7013%	23.7	27.7	97%	83%
78	36	700	0.051429	3.6536%	4.1242%	25.6	28.9	141%	125%
79	31	609	0.050903	4.1539%	4.5954%	25.3	28.0	123%	111%
80	20	554	0.036101	4.6620%	5.1204%	25.8	28.4	77%	71%
81	27	484	0.055785	5.2357%	5.7054%	25.3	27.6	107%	98%
82	21	450	0.046667	5.8289%	6.3572%	26.2	28.6	80%	73%
83	34	436	0.077982	6.8439%	7.0835%	29.8	30.9	114%	110%
84	28	385	0.072727	7.9429%	7.8927%	30.6	30.4	92%	92%
85	29	361	0.080332	9.0073%	8.7945%	32.5	31.7	89%	91%
86	36	339	0.106195	10.0924%	9.7992%	34.2	33.2	105%	108%
87	37	291	0.127148	11.2885%	10.9187%	32.8	31.8	113%	116%
88	31	232	0.133621	12.3089%	12.1661%	28.6	28.2	109%	110%
89	27	200	0.135000	13.2548%	13.5561%	26.5	27.1	102%	100%
90	25	161	0.155280	14.3320%	15.1048%	23.1	24.3	108%	103%
91	26	140	0.185714	15.8678%	16.8305%	22.2	23.6	117%	110%
92	21	122	0.172131	17.6967%	18.7533%	21.6	22.9	97%	92%
93	14	94	0.148936	20.4895%	20.8958%	19.3	19.6	73%	71%
94	20	84	0.238095	23.0688%	23.2831%	19.4	19.6	103%	102%
95	20	75	0.266667	25.6822%	25.9432%	19.3	19.5	104%	103%
96	10	56	0.178571	27.5980%	28.9071%	15.5	16.2	65%	62%
97	10	44	0.227273	29.3449%	32.2096%	12.9	14.2	77%	71%
98	11	34	0.323529	31.2831%	35.8895%	10.6	12.2	103%	90%
99	7	20	0.350000	32.7470%	39.9897%	6.5	8.0	107%	88%
Subtotal	768	23,232				750.3	791.7	102%	97%
100 or more	8	20	0.400000	37.1685%	50.0000%	7.4	10.0	108%	80%
Total	776	23,252				757.7	801.7	102%	97%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Deaths</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate</u> <b>(2) / (3)</b> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> <b>(7) / (3)</b> <b>(5)</b>	<u>Proposed</u> <b>(8) / (3)</b> <b>(6)</b>	<u>Expected</u> <b>(7)</b>	<u>Proposed</u> <b>(8)</b>	<u>Expected</u> <b>(2) / (7)</b> <b>(9)</b>	<u>Proposed</u> <b>(2) / (8)</b> <b>(10)</b>
41-44	0	38	0.000000	0.1639%	0.1274%	0.1	0.0	0%	0%
45-49	0	378	0.000000	0.2100%	0.1824%	0.8	0.7	0%	0%
50-54	3	1,773	0.001692	0.3413%	0.2716%	6.1	4.8	50%	62%
55-59	9	2,405	0.003742	0.5187%	0.4290%	12.5	10.3	72%	87%
60-64	18	2,489	0.007232	0.7827%	0.7504%	19.5	18.7	92%	96%
65-69	35	3,344	0.010467	1.2204%	1.2862%	40.8	43.0	86%	81%
70-74	98	4,498	0.021787	1.9266%	2.1903%	86.7	98.5	113%	99%
75-79	151	3,745	0.040320	3.2345%	3.6765%	121.1	137.7	125%	110%
80-84	130	2,309	0.056301	5.9687%	6.3170%	137.8	145.9	94%	89%
85-89	160	1,423	0.112439	10.8676%	10.6872%	154.6	152.1	103%	105%
90-94	106	601	0.176373	17.5570%	18.2963%	105.5	110.0	100%	96%
95-99	58	229	0.253275	28.3030%	30.5755%	64.8	70.0	89%	83%
100+	8	20	0.400000	37.1685%	50.0000%	7.4	10.0	108%	80%
<b>Total</b>	<b>776</b>	<b>23,252</b>				<b>757.7</b>	<b>801.7</b>	<b>102%</b>	<b>97%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	0	27	0.000000	0.1447%	0.1149%	0.0	0.0	0%	0%
42	0	47	0.000000	0.1568%	0.1258%	0.1	0.1	0%	0%
43	0	62	0.000000	0.1684%	0.1373%	0.1	0.1	0%	0%
44	0	121	0.000000	0.1800%	0.1494%	0.2	0.2	0%	0%
45	1	218	0.004587	0.1917%	0.1619%	0.4	0.4	239%	283%
46	0	320	0.000000	0.2030%	0.1749%	0.6	0.6	0%	0%
47	1	437	0.002288	0.2145%	0.1882%	0.9	0.8	107%	122%
48	3	558	0.005376	0.2256%	0.2021%	1.3	1.1	238%	266%
49	2	658	0.003040	0.2367%	0.2163%	1.6	1.4	128%	141%
50	3	745	0.004027	0.2475%	0.2313%	1.8	1.7	163%	174%
51	2	869	0.002301	0.2979%	0.2479%	2.6	2.2	77%	93%
52	3	976	0.003074	0.3439%	0.2668%	3.4	2.6	89%	115%
53	3	1,079	0.002780	0.3870%	0.2890%	4.2	3.1	72%	96%
54	6	1,120	0.005357	0.4262%	0.3155%	4.8	3.5	126%	170%
55	5	1,134	0.004409	0.4635%	0.3474%	5.3	3.9	95%	127%
56	6	1,176	0.005102	0.5075%	0.3857%	6.0	4.5	101%	132%
57	3	1,238	0.002423	0.5497%	0.4295%	6.8	5.3	44%	56%
58	6	1,238	0.004847	0.5904%	0.4797%	7.3	5.9	82%	101%
59	10	1,299	0.007698	0.6261%	0.5370%	8.1	7.0	123%	143%
60	9	1,356	0.006637	0.6596%	0.6024%	8.9	8.2	101%	110%
61	7	1,419	0.004933	0.7263%	0.6765%	10.3	9.6	68%	73%
62	8	1,506	0.005312	0.7915%	0.7599%	11.9	11.4	67%	70%
63	19	1,646	0.011543	0.8770%	0.8532%	14.4	14.0	132%	135%
64	24	1,783	0.013460	0.9795%	0.9571%	17.5	17.1	137%	141%
65	18	1,921	0.009370	1.0928%	1.0725%	21.0	20.6	86%	87%
66	21	2,000	0.010500	1.1773%	1.2007%	23.5	24.0	89%	87%
67	19	2,084	0.009117	1.2653%	1.3432%	26.4	28.0	72%	68%
68	27	2,185	0.012357	1.3508%	1.5013%	29.5	32.8	91%	82%
69	31	2,231	0.013895	1.4227%	1.6774%	31.7	37.4	98%	83%
70	43	2,265	0.018985	1.5793%	1.8733%	35.8	42.4	120%	101%
71	36	2,224	0.016187	1.7742%	2.0914%	39.5	46.5	91%	77%
72	47	2,194	0.021422	1.9689%	2.3342%	43.2	51.2	109%	92%
73	48	2,089	0.022978	2.2261%	2.6043%	46.5	54.4	103%	88%
74	54	1,975	0.027342	2.4831%	2.9045%	49.0	57.4	110%	94%
75	63	1,833	0.034370	2.7542%	3.2377%	50.5	59.3	125%	106%
76	59	1,738	0.033947	3.0126%	3.6083%	52.4	62.7	113%	94%
77	47	1,601	0.029357	3.2876%	4.0193%	52.6	64.3	89%	73%
78	67	1,498	0.044726	3.7883%	4.4748%	56.7	67.0	118%	100%
79	63	1,391	0.045291	4.2941%	4.9810%	59.7	69.3	105%	91%
80	55	1,281	0.042935	4.8047%	5.5437%	61.5	71.0	89%	77%
81	76	1,171	0.064902	5.3796%	6.1689%	63.0	72.2	121%	105%
82	61	1,064	0.057331	5.9711%	6.8638%	63.5	73.0	96%	84%
83	76	1,016	0.074803	7.0108%	7.6370%	71.2	77.6	107%	98%
84	64	911	0.070252	8.1121%	8.4973%	73.9	77.4	87%	83%
85	76	841	0.090369	9.1991%	9.4545%	77.4	79.5	98%	96%
86	75	742	0.101078	10.3074%	10.5184%	76.5	78.0	98%	96%
87	85	667	0.127436	11.4941%	11.7010%	76.7	78.0	111%	109%
88	80	608	0.131579	12.4954%	13.0124%	76.0	79.1	105%	101%
89	80	542	0.147601	13.4556%	14.4665%	72.9	78.4	110%	102%
90	72	469	0.153518	14.5054%	16.0781%	68.0	75.4	106%	95%
91	80	417	0.191847	16.0598%	17.8639%	67.0	74.5	119%	107%
92	61	341	0.178886	17.8569%	19.8379%	60.9	67.6	100%	90%
93	51	268	0.190299	20.6750%	22.0145%	55.4	59.0	92%	86%
94	45	201	0.223881	23.2776%	24.4375%	46.8	49.1	96%	92%
95	46	152	0.302632	25.8369%	27.1410%	39.3	41.3	117%	112%
96	16	97	0.164948	27.7643%	30.1682%	26.9	29.3	59%	55%
97	15	75	0.200000	29.5217%	33.5331%	22.1	25.1	68%	60%
98	19	54	0.351852	31.3772%	37.2735%	16.9	20.1	112%	94%
99	10	29	0.344828	32.8454%	41.4352%	9.5	12.0	105%	83%
Subtotal	1,907	61,207				1,862.1	2,040.2	102%	93%
100 or more	13	30	0.433333	37.1685%	51.6818%	11.2	15.5	117%	84%
Total	1,920	61,237				1,873.3	2,055.7	102%	93%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN**

**TABLE 1A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	0	257	0.000000	0.1693%	0.1385%	0.4	0.4	0%	0%
45-49	7	2,191	0.003195	0.2200%	0.1956%	4.8	4.3	145%	163%
50-54	17	4,789	0.003550	0.3495%	0.2743%	16.7	13.1	102%	129%
55-59	30	6,085	0.004930	0.5501%	0.4389%	33.5	26.7	90%	112%
60-64	67	7,710	0.008690	0.8180%	0.7824%	63.1	60.3	106%	111%
65-69	116	10,421	0.011131	1.2682%	1.3707%	132.2	142.8	88%	81%
70-74	228	10,747	0.021215	1.9910%	2.3441%	214.0	251.9	107%	91%
75-79	299	8,061	0.037092	3.3737%	4.0036%	272.0	322.7	110%	93%
80-84	332	5,443	0.060996	6.1217%	6.8213%	333.2	371.3	100%	89%
85-89	396	3,400	0.116471	11.1592%	11.5626%	379.4	393.1	104%	101%
90-94	309	1,696	0.182193	17.5760%	19.2019%	298.1	325.7	104%	95%
95-99	106	407	0.260442	28.2097%	31.4033%	114.8	127.8	92%	83%
100+	13	30	0.433333	37.1685%	51.6818%	11.2	15.5	117%	84%
<b>Total</b>	<b>1,920</b>	<b>61,237</b>				<b>1,873.3</b>	<b>2,055.7</b>	<b>102%</b>	<b>93%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF SERVICE RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 1B		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	6,596	222	159.7	139%	3.3657%	2.4219%
2005	6,520	182	158.9	115%	2.7914%	2.4370%
2006	6,439	197	162.0	122%	3.0595%	2.5160%
2007	6,355	206	163.2	126%	3.2415%	2.5684%
2008	6,241	196	161.2	122%	3.1405%	2.5832%
2009	6,092	186	164.4	113%	3.0532%	2.6982%
2010	5,948	186	165.3	113%	3.1271%	2.7793%
2011	5,884	203	165.5	123%	3.4500%	2.8129%
2012	5,830	179	167.3	107%	3.0703%	2.8688%
2013	5,645	221	171.2	129%	3.9150%	3.0336%
Total	61,550	1,978	1638.8	121%	3.2136%	2.6625%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
41	2	263	0.007605	0.2338%	0.1964%	0.6	0.5	325%	387%
42	1	299	0.003344	0.2465%	0.1964%	0.7	0.6	136%	170%
43	0	342	0.000000	0.2597%	0.1964%	0.9	0.7	0%	0%
44	0	428	0.000000	0.2734%	0.1964%	1.2	0.8	0%	0%
45	4	508	0.007874	0.2877%	0.1964%	1.5	1.0	274%	401%
46	1	627	0.001595	0.3026%	0.1964%	1.9	1.2	53%	81%
47	1	740	0.001351	0.3180%	0.1964%	2.4	1.5	42%	69%
48	4	789	0.005070	0.3341%	0.2366%	2.6	1.9	152%	214%
49	3	819	0.003663	0.3508%	0.2768%	2.9	2.3	104%	132%
50	1	914	0.001094	0.3681%	0.3171%	3.4	2.9	30%	35%
51	6	1,056	0.005682	0.3861%	0.3573%	4.1	3.8	147%	159%
52	5	1,222	0.004092	0.4048%	0.3975%	4.9	4.9	101%	103%
53	6	1,404	0.004274	0.4341%	0.4476%	6.1	6.3	98%	95%
54	6	1,417	0.004234	0.4826%	0.4977%	6.8	7.1	88%	85%
55	4	1,394	0.002869	0.5351%	0.5478%	7.5	7.6	54%	52%
56	6	1,283	0.004677	0.5887%	0.5979%	7.6	7.7	79%	78%
57	8	1,125	0.007111	0.6432%	0.6481%	7.2	7.3	111%	110%
58	5	1,008	0.004960	0.6983%	0.7043%	7.0	7.1	71%	70%
59	10	891	0.011223	0.7484%	0.7605%	6.7	6.8	150%	148%
60	4	804	0.004975	0.8063%	0.8168%	6.5	6.6	62%	61%
61	3	761	0.003942	0.8859%	0.8730%	6.7	6.6	44%	45%
62	5	743	0.006729	0.9789%	0.9293%	7.3	6.9	69%	72%
63	10	761	0.013141	1.0895%	1.0147%	8.3	7.7	121%	130%
64	8	772	0.010363	1.2030%	1.1001%	9.3	8.5	86%	94%
65	12	736	0.016304	1.3075%	1.1855%	9.6	8.7	125%	138%
66	8	746	0.010724	1.4305%	1.2710%	10.7	9.5	75%	84%
67	12	801	0.014981	1.5242%	1.3564%	12.2	10.9	98%	110%
68	14	833	0.016807	1.7077%	1.5209%	14.2	12.7	98%	111%
69	12	904	0.013274	1.8993%	1.6854%	17.2	15.2	70%	79%
70	15	949	0.015806	2.0489%	1.8499%	19.4	17.6	77%	85%
71	13	981	0.013252	2.2692%	2.0145%	22.3	19.8	58%	66%
72	22	1,027	0.021422	2.4785%	2.1790%	25.5	22.4	86%	98%
73	14	1,052	0.013308	2.6769%	2.4993%	28.2	26.3	50%	53%
74	29	1,078	0.026902	2.8645%	2.8197%	30.9	30.4	94%	95%
75	27	1,019	0.026497	3.1007%	3.1400%	31.6	32.0	85%	84%
76	38	940	0.040426	3.5149%	3.4604%	33.0	32.5	115%	117%
77	28	862	0.032483	3.9509%	3.7807%	34.1	32.6	82%	86%
78	29	795	0.036478	4.3835%	4.3605%	34.8	34.7	83%	84%
79	26	724	0.035912	4.8121%	4.9403%	34.8	35.8	75%	73%
80	36	644	0.055901	5.2992%	5.5201%	34.1	35.5	105%	101%
81	24	545	0.044037	6.2049%	6.0999%	33.8	33.2	71%	72%
82	33	496	0.066532	7.1247%	6.6797%	35.3	33.1	93%	100%
83	29	442	0.065611	7.9946%	7.6494%	35.3	33.8	82%	86%
84	39	429	0.090909	8.9360%	8.6191%	38.3	37.0	102%	105%
85	46	403	0.114144	9.8127%	9.5888%	39.5	38.6	116%	119%
86	37	322	0.114907	10.6293%	10.5584%	34.2	34.0	108%	109%
87	33	253	0.130435	11.5548%	11.5281%	29.2	29.2	113%	113%
88	32	225	0.142222	12.5113%	13.0450%	28.2	29.4	114%	109%
89	32	189	0.169312	13.4297%	14.5618%	25.4	27.5	126%	116%
90	17	159	0.106918	14.5059%	16.0787%	23.1	25.6	74%	66%
91	25	139	0.179856	17.1004%	17.5955%	23.8	24.5	105%	102%
92	32	103	0.310680	19.7249%	19.1124%	20.3	19.7	158%	163%
93	14	66	0.212121	22.0640%	21.3605%	14.6	14.1	96%	99%
94	11	49	0.224490	24.2129%	23.6087%	11.9	11.6	93%	95%
95	13	38	0.342105	26.4716%	25.8569%	10.1	9.8	129%	132%
96	9	31	0.290323	28.3318%	28.1050%	8.8	8.7	102%	103%
97	7	16	0.437500	30.0103%	30.3532%	4.8	4.9	146%	144%
98	2	6	0.333333	31.5559%	33.5437%	1.9	2.0	106%	99%
99	1	2	0.500000	32.9285%	36.7341%	0.7	0.7	152%	136%
Subtotal	874	38,374				925.7	901.9	94%	97%
100 or more	4	4	1.000000	33.6045%	46.3055%	1.3	1.9	298%	216%
Total	878	38,378				927.1	903.8	95%	97%



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	3	1,332	0.002252	0.2560%	0.1964%	3.4	2.6	88%	115%
45-49	13	3,483	0.003732	0.3222%	0.2245%	11.2	7.8	116%	166%
50-54	24	6,013	0.003991	0.4211%	0.4135%	25.3	24.9	95%	97%
55-59	33	5,701	0.005788	0.6307%	0.6398%	36.0	36.5	92%	90%
60-64	30	3,841	0.007810	0.9913%	0.9458%	38.1	36.3	79%	83%
65-69	58	4,020	0.014428	1.5895%	1.4173%	63.9	57.0	91%	102%
70-74	93	5,087	0.018282	2.4808%	2.2879%	126.2	116.4	74%	80%
75-79	148	4,340	0.034101	3.8798%	3.8606%	168.4	167.5	88%	88%
80-84	161	2,556	0.062989	6.9231%	6.7571%	177.0	172.7	91%	93%
85-89	180	1,392	0.129310	11.2455%	11.3994%	156.5	158.7	115%	113%
90-94	99	516	0.191860	18.1351%	18.4835%	93.6	95.4	106%	104%
95-99	32	93	0.344086	28.1674%	28.1097%	26.2	26.1	122%	122%
100+	4	4	1.000000	33.6045%	46.3055%	1.3	1.9	298%	216%
<b>Total</b>	<b>878</b>	<b>38,378</b>				<b>927.1</b>	<b>903.8</b>	<b>95%</b>	<b>97%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u>	<u>Actual Deaths</u>	<u>Total Exposed</u>	<u>Actual Rate</u> (2) / (3)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u>	<u>Proposed</u>	<u>Expected</u> (3) x (5)	<u>Proposed</u> (3) x (6)	<u>Expected</u> (2) / (7)	<u>Proposed</u> (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	2	644	0.003106	0.2403%	0.2132%	1.5	1.4	129%	146%
42	1	775	0.001290	0.2540%	0.2139%	2.0	1.7	51%	60%
43	1	912	0.001096	0.2684%	0.2143%	2.4	2.0	41%	51%
44	2	1,140	0.001754	0.2835%	0.2141%	3.2	2.4	62%	82%
45	5	1,370	0.003650	0.2992%	0.2137%	4.1	2.9	122%	171%
46	3	1,630	0.001840	0.3156%	0.2128%	5.1	3.5	58%	86%
47	2	1,933	0.001035	0.3328%	0.2118%	6.4	4.1	31%	49%
48	7	2,134	0.003280	0.3507%	0.2536%	7.5	5.4	94%	129%
49	8	2,293	0.003489	0.3693%	0.2946%	8.5	6.8	94%	118%
50	2	2,389	0.000837	0.3887%	0.3348%	9.3	8.0	22%	25%
51	11	2,507	0.004388	0.4090%	0.3741%	10.3	9.4	107%	117%
52	11	2,593	0.004242	0.4301%	0.4124%	11.2	10.7	99%	103%
53	8	2,665	0.003002	0.4612%	0.4602%	12.3	12.3	65%	65%
54	14	2,588	0.005410	0.5127%	0.5076%	13.3	13.1	106%	107%
55	10	2,484	0.004026	0.5668%	0.5555%	14.1	13.8	71%	72%
56	11	2,364	0.004653	0.6217%	0.6041%	14.7	14.3	75%	77%
57	15	2,203	0.006809	0.6772%	0.6545%	14.9	14.4	101%	104%
58	14	2,095	0.006683	0.7329%	0.7129%	15.4	14.9	91%	94%
59	21	1,973	0.010644	0.7855%	0.7735%	15.5	15.3	136%	138%
60	10	1,924	0.005198	0.8463%	0.8363%	16.3	16.1	61%	62%
61	10	1,966	0.005086	0.9270%	0.9008%	18.2	17.7	55%	56%
62	17	2,007	0.008470	1.0243%	0.9667%	20.6	19.4	83%	88%
63	23	2,066	0.011133	1.1365%	1.0636%	23.5	22.0	98%	105%
64	23	2,155	0.010673	1.2549%	1.1609%	27.0	25.0	85%	92%
65	35	2,273	0.015398	1.3639%	1.2582%	31.0	28.6	113%	122%
66	36	2,361	0.015248	1.4877%	1.3552%	35.1	32.0	102%	113%
67	38	2,426	0.015664	1.5853%	1.4521%	38.5	35.2	99%	108%
68	37	2,514	0.014718	1.7815%	1.6332%	44.8	41.1	83%	90%
69	44	2,596	0.016949	1.9813%	1.8149%	51.4	47.1	86%	93%
70	47	2,603	0.018056	2.1439%	1.9965%	55.8	52.0	84%	90%
71	51	2,564	0.019891	2.3744%	2.1783%	60.9	55.9	84%	91%
72	49	2,537	0.019314	2.5935%	2.3601%	65.8	59.9	74%	82%
73	44	2,480	0.017742	2.8011%	2.7107%	69.5	67.2	63%	65%
74	71	2,358	0.030110	2.9973%	3.0610%	70.7	72.2	100%	98%
75	73	2,151	0.033938	3.2346%	3.4102%	69.6	73.4	105%	100%
76	84	2,013	0.041729	3.6668%	3.7588%	73.8	75.7	114%	111%
77	72	1,856	0.038793	4.1091%	4.1056%	76.3	76.2	94%	94%
78	58	1,687	0.034381	4.5452%	4.7313%	76.7	79.8	76%	73%
79	62	1,569	0.039516	4.9745%	5.3549%	78.0	84.0	79%	74%
80	78	1,452	0.053719	5.4615%	5.9766%	79.3	86.8	98%	90%
81	86	1,289	0.066718	6.3755%	6.5955%	82.2	85.0	105%	101%
82	82	1,139	0.071993	7.2985%	7.2120%	83.1	82.1	99%	100%
83	68	1,013	0.067127	8.1896%	8.2471%	83.0	83.5	82%	81%
84	76	929	0.081808	9.1263%	9.2792%	84.8	86.2	90%	88%
85	89	837	0.106332	10.0217%	10.3084%	83.9	86.3	106%	103%
86	76	698	0.108883	10.8556%	11.3334%	75.8	79.1	100%	96%
87	71	593	0.119730	11.7653%	12.3540%	69.8	73.3	102%	97%
88	72	496	0.145161	12.7008%	13.9524%	63.0	69.2	114%	104%
89	58	403	0.143921	13.6332%	15.5398%	54.9	62.6	106%	93%
90	45	338	0.133136	14.6813%	17.1147%	49.6	57.8	91%	78%
91	48	281	0.170819	17.3072%	18.6759%	48.6	52.5	99%	91%
92	51	210	0.242857	19.9035%	20.2177%	41.8	42.5	122%	120%
93	36	140	0.257143	22.2637%	22.5041%	31.2	31.5	115%	114%
94	20	94	0.212766	24.4321%	24.7792%	23.0	23.3	87%	86%
95	24	70	0.342857	26.6310%	27.0507%	18.6	18.9	129%	127%
96	11	43	0.255814	28.5024%	29.3312%	12.3	12.6	90%	87%
97	9	25	0.360000	30.1911%	31.6004%	7.5	7.9	119%	114%
98	5	12	0.416667	31.6507%	34.8372%	3.8	4.2	132%	120%
99	1	5	0.200000	33.0275%	38.0620%	1.7	1.9	61%	53%
Subtotal	2,038	90,865				2,172.8	2,183.9	94%	93%
100 or more	5	9	0.555556	37.1685%	47.9793%	3.3	4.3	149%	116%
Total	2,043	90,874				2,176.2	2,188.2	94%	93%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN**

**TABLE 2A GROUPED**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
41-44	6	3,471	0.001729	0.2649%	0.2140%	9.2	7.4	65%	81%
45-49	25	9,360	0.002671	0.3379%	0.2421%	31.6	22.7	79%	110%
50-54	46	12,742	0.003610	0.4415%	0.4196%	56.3	53.5	82%	86%
55-59	71	11,119	0.006385	0.6704%	0.6538%	74.5	72.7	95%	98%
60-64	83	10,118	0.008203	1.0436%	0.9902%	105.6	100.2	79%	83%
65-69	190	12,170	0.015612	1.6500%	1.5119%	200.8	184.0	95%	103%
70-74	262	12,542	0.020890	2.5724%	2.4486%	322.6	307.1	81%	85%
75-79	349	9,276	0.037624	4.0360%	4.1942%	374.4	389.1	93%	90%
80-84	390	5,822	0.066987	7.0827%	7.2773%	412.4	423.7	95%	92%
85-89	366	3,027	0.120912	11.4754%	12.2391%	347.4	370.5	105%	99%
90-94	200	1,063	0.188147	18.2680%	19.5280%	194.2	207.6	103%	96%
95-99	50	155	0.322581	28.3193%	29.3752%	43.9	45.5	114%	110%
100+	5	9	0.555556	37.1685%	47.9793%	3.3	4.3	149%	116%
<b>Total</b>	<b>2,043</b>	<b>90,874</b>				<b>2,176.2</b>	<b>2,188.2</b>	<b>94%</b>	<b>93%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MORTALITY EXPERIENCE OF DISABILITY RETIREES  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 2B Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	8,469	193	155.6	124%	2.2789%	1.8373%
2005	8,619	171	162.2	105%	1.9840%	1.8816%
2006	8,879	193	170.1	113%	2.1737%	1.9156%
2007	9,086	200	176.8	113%	2.2012%	1.9462%
2008	9,302	210	182.8	115%	2.2576%	1.9656%
2009	9,469	218	189.2	115%	2.3022%	1.9978%
2010	9,578	205	193.8	106%	2.1403%	2.0233%
2011	9,779	249	201.4	124%	2.5463%	2.0600%
2012	9,846	219	205.5	107%	2.2243%	2.0875%
2013	9,998	211	210.8	100%	2.1104%	2.1084%
Total	93,025	2,069	1848.3	112%	2.2241%	1.9869%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 41.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3A**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Service</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Withdrawals</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (5)	<u>Proposed</u> (6)	<u>Expected</u> (3) x (5) (7)	<u>Proposed</u> (3) x (6) (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
0	12	464	0.0259	2.00%	2.00%	9.3	9.3	129%	129%
1	20	1,590	0.0126	0.80%	0.80%	12.7	12.7	157%	157%
2	9	2,110	0.0043	0.40%	0.40%	8.4	8.4	107%	107%
3	11	2,473	0.0044	0.40%	0.40%	9.9	9.9	111%	111%
4	12	2,739	0.0044	0.40%	0.40%	11.0	11.0	110%	110%
5	5	2,850	0.0018	0.40%	0.40%	11.4	11.4	44%	44%
6	7	2,721	0.0026	0.36%	0.36%	9.8	9.8	71%	71%
7	9	2,409	0.0037	0.32%	0.32%	7.7	7.7	117%	117%
8	2	2,198	0.0009	0.28%	0.28%	6.2	6.2	32%	32%
9	4	2,013	0.0020	0.24%	0.24%	4.8	4.8	83%	83%
10	2	1,773	0.0011	0.20%	0.20%	3.5	3.5	56%	56%
11	0	1,752	0.0000	0.18%	0.18%	3.2	3.2	0%	0%
12	2	1,671	0.0012	0.16%	0.16%	2.7	2.7	75%	75%
13	1	1,543	0.0006	0.14%	0.14%	2.2	2.2	46%	46%
14	1	1,561	0.0006	0.12%	0.12%	1.9	1.9	53%	53%
15	2	1,392	0.0014	0.10%	0.10%	1.4	1.4	144%	144%
16	0	1,277	0.0000	0.10%	0.10%	1.3	1.3	0%	0%
17	0	1,398	0.0000	0.10%	0.10%	1.4	1.4	0%	0%
18	1	1,292	0.0008	0.10%	0.10%	1.3	1.3	77%	77%
19	1	1,242	0.0008	0.10%	0.10%	1.2	1.2	81%	81%
<b>Total</b>	<b>101</b>	<b>36,468</b>	<b>0.0028</b>			<b>111.2</b>	<b>111.2</b>	<b>91%</b>	<b>91%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 3A**

**8-YEAR PERIOD ENDING 6/30/2011**

Service (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Withdrawals		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
0	52	2,474	0.0210	2.00%	2.00%	49.5	49.5	105%	105%
1	49	4,574	0.0107	0.80%	0.80%	36.6	36.6	134%	134%
2	28	4,941	0.0057	0.40%	0.40%	19.8	19.8	142%	142%
3	21	4,944	0.0042	0.40%	0.40%	19.8	19.8	106%	106%
4	23	4,953	0.0046	0.40%	0.40%	19.8	19.8	116%	116%
5	15	4,861	0.0031	0.40%	0.40%	19.4	19.4	77%	77%
6	12	4,480	0.0027	0.36%	0.36%	16.1	16.1	74%	74%
7	19	4,162	0.0046	0.32%	0.32%	13.3	13.3	143%	143%
8	7	3,896	0.0018	0.28%	0.28%	10.9	10.9	64%	64%
9	11	3,659	0.0030	0.24%	0.24%	8.8	8.8	125%	125%
10	7	3,491	0.0020	0.20%	0.20%	7.0	7.0	100%	100%
11	3	3,293	0.0009	0.18%	0.18%	5.9	5.9	51%	51%
12	4	3,102	0.0013	0.16%	0.16%	5.0	5.0	81%	81%
13	5	3,098	0.0016	0.14%	0.14%	4.3	4.3	115%	115%
14	4	3,033	0.0013	0.12%	0.12%	3.6	3.6	110%	110%
15	3	2,878	0.0010	0.10%	0.10%	2.9	2.9	104%	104%
16	2	2,685	0.0007	0.10%	0.10%	2.7	2.7	74%	74%
17	1	2,655	0.0004	0.10%	0.10%	2.7	2.7	38%	38%
18	1	2,622	0.0004	0.10%	0.10%	2.6	2.6	38%	38%
19	2	2,759	0.0007	0.10%	0.10%	2.8	2.8	72%	72%
Total	269	72,560	0.0037			253.5	253.5	106%	106%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
WITHDRAWAL EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year	TABLE 3B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Withdrawals	Expected Withdrawals	Actual / Expected	Withdrawal Rate	
Ending June 30,					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	8,682	32	34.2	93%	0.37%	0.39%
2005	9,045	58	36.6	158%	0.64%	0.40%
2006	9,117	47	36.1	130%	0.52%	0.40%
2007	9,248	31	35.3	88%	0.34%	0.38%
2008	9,249	47	32.1	146%	0.51%	0.35%
2009	9,377	27	30.7	88%	0.29%	0.33%
2010	9,222	16	26.4	61%	0.17%	0.29%
2011	8,620	11	22.0	50%	0.13%	0.26%
2012	8,178	8	19.6	41%	0.10%	0.24%
2013	7,875	12	17.4	69%	0.15%	0.22%
Total	88,613	289	290.4	100%	0.33%	0.33%

\*The total exposures and actuals shown above include experience at all service levels. I.e. service over 20 years.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	28	0.0000	10.00%	7.00%	2.8	2.0	0%	0%
41	3	62	0.0484	10.00%	7.00%	6.2	4.3	48%	69%
42	1	75	0.0133	10.00%	7.00%	7.5	5.3	13%	19%
43	6	85	0.0706	10.00%	7.00%	8.5	6.0	71%	101%
44	4	93	0.0430	10.00%	7.00%	9.3	6.5	43%	61%
45	3	105	0.0286	10.00%	7.00%	10.5	7.4	29%	41%
46	3	137	0.0219	11.00%	7.70%	15.1	10.5	20%	28%
47	5	135	0.0370	12.00%	8.40%	16.2	11.3	31%	44%
48	4	122	0.0328	13.00%	9.10%	15.9	11.1	25%	36%
49	6	80	0.0750	14.00%	9.80%	11.2	7.8	54%	77%
50	2	74	0.0270	15.00%	10.50%	11.1	7.8	18%	26%
51	3	53	0.0566	16.00%	11.20%	8.5	5.9	35%	51%
52	6	46	0.1304	17.00%	11.90%	7.8	5.5	77%	110%
53	1	26	0.0385	18.00%	12.60%	4.7	3.3	21%	31%
54	3	19	0.1579	19.00%	13.30%	3.6	2.5	83%	119%
55	2	12	0.1667	20.00%	14.00%	2.4	1.7	83%	119%
56	2	8	0.2500	20.00%	14.00%	1.6	1.1	125%	179%
57	0	0	N/A	20.00%	14.00%	0	0	0%	0%
58	0	0	N/A	20.00%	14.00%	0	0	0%	0%
59	0	0	N/A	20.00%	14.00%	0	0	0%	0%
60	0	0	N/A	20.00%	14.00%	0	0	0%	0%
61	0	0	N/A	30.00%	21.00%	0	0	0%	0%
62	0	0	N/A	40.00%	28.00%	0	0	0%	0%
63	0	0	N/A	100.00%	70.00%	0	0	0%	0%
64	0	0	N/A	100.00%	70.00%	0	0	0%	0%
65	0	0	N/A	100.00%	70.00%	0	0	0%	0%
66	0	0	N/A	100.00%	70.00%	0	0	0%	0%
67	0	0	N/A	100.00%	70.00%	0	0	0%	0%
68	0	0	N/A	100.00%	70.00%	0	0	0%	0%
69	0	0	N/A	100.00%	70.00%	0	0	0%	0%
70	0	0	N/A	100.00%	70.00%	0	0	0%	0%
Subtotal	54	1,160				142.8	100.0	38%	54%
71 or more	0	0	N/A	100.00%	70.00%	0	0	0%	0%
Total	54	1,160				142.8	100.0	38%	54%



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4B**

Age (1)				Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
	Actual Retirements	Total Exposed	Actual Rate (2) / (3)	Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
40	0	3	0.0000	2.00%	1.80%	0.1	0.1	0%	0%
41	0	25	0.0000	2.00%	1.80%	0.5	0.5	0%	0%
42	1	55	0.0182	2.00%	1.80%	1.1	1.0	91%	101%
43	1	64	0.0156	2.00%	1.80%	1.3	1.2	78%	87%
44	2	67	0.0299	2.00%	1.80%	1.3	1.2	149%	166%
45	2	89	0.0225	2.00%	1.80%	1.8	1.6	112%	125%
46	0	97	0.0000	2.00%	1.80%	1.9	1.7	0%	0%
47	1	131	0.0076	2.00%	1.80%	2.6	2.4	38%	42%
48	1	128	0.0078	2.00%	1.80%	2.6	2.3	39%	43%
49	0	100	0.0000	2.00%	1.80%	2.0	1.8	0%	0%
50	0	69	0.0000	2.00%	1.80%	1.4	1.2	0%	0%
51	2	76	0.0263	2.00%	1.80%	1.5	1.4	132%	146%
52	4	50	0.0800	3.00%	2.70%	1.5	1.4	267%	296%
53	1	46	0.0217	4.00%	3.60%	1.8	1.7	54%	60%
54	0	21	0.0000	5.00%	4.50%	1.1	0.9	0%	0%
55	0	15	0.0000	6.00%	5.40%	0.9	0.8	0%	0%
56	0	7	0.0000	7.00%	6.30%	0.5	0.4	0%	0%
57	0	5	0.0000	8.00%	7.20%	0.4	0.4	0%	0%
58	0	0	N/A	9.00%	8.10%	0	0	0%	0%
59	0	0	N/A	10.00%	9.00%	0	0	0%	0%
60	0	0	N/A	12.00%	10.80%	0	0	0%	0%
61	0	0	N/A	15.00%	13.50%	0	0	0%	0%
62	0	0	N/A	20.00%	18.00%	0	0	0%	0%
63	0	0	N/A	100.00%	90.00%	0	0	0%	0%
64	0	0	N/A	100.00%	90.00%	0	0	0%	0%
65	0	0	N/A	100.00%	90.00%	0	0	0%	0%
66	0	0	N/A	100.00%	90.00%	0	0	0%	0%
67	0	0	N/A	100.00%	90.00%	0	0	0%	0%
68	0	0	N/A	100.00%	90.00%	0	0	0%	0%
69	0	0	N/A	100.00%	90.00%	0	0	0%	0%
70	0	0	N/A	100.00%	90.00%	0	0	0%	0%
Subtotal	15	1,048				24.3	21.8	62%	69%
71 or more	0	0	N/A	100.00%	90.00%	0	0	0%	0%
Total	15	1,048				24.3	21.8	62%	69%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4C

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	0	1	0.0000	2.00%	1.70%	0.0	0.0	0%	0%
41	0	4	0.0000	2.00%	1.70%	0.1	0.1	0%	0%
42	1	26	0.0385	2.00%	1.70%	0.5	0.4	192%	226%
43	0	84	0.0000	2.00%	1.70%	1.7	1.4	0%	0%
44	4	130	0.0308	2.00%	1.70%	2.6	2.2	154%	181%
45	1	192	0.0052	2.00%	1.70%	3.8	3.3	26%	31%
46	2	290	0.0069	2.00%	1.70%	5.8	4.9	34%	41%
47	6	411	0.0146	2.00%	1.70%	8.2	7.0	73%	86%
48	9	510	0.0176	2.00%	1.70%	10.2	8.7	88%	104%
49	9	575	0.0157	2.00%	1.70%	11.5	9.8	78%	92%
50	11	598	0.0184	2.00%	1.70%	12.0	10.2	92%	108%
51	14	638	0.0219	2.00%	1.70%	12.8	10.8	110%	129%
52	17	685	0.0248	3.00%	2.55%	20.6	17.5	83%	97%
53	15	663	0.0226	4.00%	3.40%	26.5	22.5	57%	67%
54	22	627	0.0351	5.00%	4.25%	31.4	26.6	70%	83%
55	21	521	0.0403	6.00%	5.10%	31.3	26.6	67%	79%
56	21	421	0.0499	7.00%	5.95%	29.5	25.0	71%	84%
57	14	334	0.0419	8.00%	6.80%	26.7	22.7	52%	62%
58	10	248	0.0403	9.00%	7.65%	22.3	19.0	45%	53%
59	5	168	0.0298	10.00%	8.50%	16.8	14.3	30%	35%
60	3	105	0.0286	12.00%	10.20%	12.6	10.7	24%	28%
61	7	78	0.0897	15.00%	12.75%	11.7	9.9	60%	70%
62	3	51	0.0588	20.00%	17.00%	10.2	8.7	29%	35%
63	2	38	0.0526	100.00%	85.00%	38.0	32.3	5%	6%
64	7	28	0.2500	100.00%	85.00%	28.0	23.8	25%	29%
65	4	11	0.3636	100.00%	85.00%	11.0	9.4	36%	43%
66	0	2	0.0000	100.00%	85.00%	2.0	1.7	0%	0%
67	0	2	0.0000	100.00%	85.00%	2.0	1.7	0%	0%
68	0	0	N/A	100.00%	85.00%	0	0	0%	0%
69	0	0	N/A	100.00%	85.00%	0	0	0%	0%
70	0	0	N/A	100.00%	85.00%	0	0	0%	0%
Subtotal	208	7,441				389.7	331.2	53%	63%
71 or more	0	0	N/A	100.00%	85.00%	0	0	0%	0%
Total	208	7,441				389.7	331.2	53%	63%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> <b>(5)</b>	<u>Proposed (8) / (3)</u> <b>(6)</b>	<u>Expected (7)</u> <b>(7)</b>	<u>Proposed (8)</u> <b>(8)</b>	<u>Expected (2) / (7)</u> <b>(9)</b>	<u>Proposed (2) / (8)</u> <b>(10)</b>
40-44	14	343	0.0408	10.00%	7.00%	34.3	24.0	41%	58%
45-59	21	579	0.0363	11.89%	8.32%	68.8	48.2	31%	44%
50-54	15	218	0.0688	16.37%	11.46%	35.7	25.0	42%	60%
55-59	4	20	0.2000	20.00%	14.00%	4.0	2.8	100%	143%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>54</b>	<b>1,160</b>				<b>142.8</b>	<b>100.0</b>	<b>38%</b>	<b>54%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> <b>(1)</b>	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> <b>(5)</b>	<u>Proposed (8) / (3)</u> <b>(6)</b>	<u>Expected (7)</u> <b>(7)</b>	<u>Proposed (8)</u> <b>(8)</b>	<u>Expected (2) / (7)</u> <b>(9)</b>	<u>Proposed (2) / (8)</u> <b>(10)</b>
40-44	4	214	0.0187	2.00%	1.80%	4.3	3.9	93%	104%
45-59	4	545	0.0073	2.00%	1.80%	10.9	9.8	37%	41%
50-54	7	262	0.0267	2.78%	2.50%	7.3	6.6	96%	107%
55-59	0	27	0.0000	6.63%	5.97%	1.8	1.6	0%	0%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>15</b>	<b>1,048</b>				<b>24.3</b>	<b>21.8</b>	<b>62%</b>	<b>69%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4C GROUPED**

<u>Age</u> <b>(1)</b>	<b>TABLE 4C GROUPED</b>			<b>4-YEAR PERIOD ENDING 6/30/2013</b>					
	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> <b>(5)</b>	<u>Proposed (8) / (3)</u> <b>(6)</b>	<u>Expected (7)</u> <b>(7)</b>	<u>Proposed (8)</u> <b>(8)</b>	<u>Expected (2) / (7)</u> <b>(9)</b>	<u>Proposed (2) / (8)</u> <b>(10)</b>
40-44	5	245	0.0204	2.00%	1.70%	4.9	4.2	102%	120%
45-59	27	1,978	0.0137	2.00%	1.70%	39.6	33.6	68%	80%
50-54	79	3,211	0.0246	3.21%	2.73%	103.1	87.7	77%	90%
55-59	71	1,692	0.0420	7.48%	6.36%	126.6	107.6	56%	66%
60-64	22	300	0.0733	33.50%	28.48%	100.5	85.4	22%	26%
65-69	4	15	0.2667	100.00%	85.00%	15.0	12.8	27%	31%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>208</b>	<b>7,441</b>				<b>389.7</b>	<b>331.2</b>	<b>53%</b>	<b>63%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4A**

Age (1)	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
40	19	103	0.1845	10.00%	7.00%	10.3	7.2	184%	264%
41	18	238	0.0756	10.00%	7.00%	23.8	16.7	76%	108%
42	10	224	0.0446	10.00%	7.00%	22.4	15.7	45%	64%
43	17	243	0.0700	10.00%	7.00%	24.3	17.0	70%	100%
44	27	319	0.0846	10.00%	7.00%	31.9	22.3	85%	121%
45	22	358	0.0615	10.00%	7.00%	35.8	25.1	61%	88%
46	27	385	0.0701	11.00%	7.70%	42.4	29.6	64%	91%
47	29	327	0.0887	12.00%	8.40%	39.2	27.5	74%	106%
48	24	290	0.0828	13.00%	9.10%	37.7	26.4	64%	91%
49	18	230	0.0783	14.00%	9.80%	32.2	22.5	56%	80%
50	14	188	0.0745	15.00%	10.50%	28.2	19.7	50%	71%
51	16	126	0.1270	16.00%	11.20%	20.2	14.1	79%	113%
52	15	114	0.1316	17.00%	11.90%	19.4	13.6	77%	111%
53	9	59	0.1525	18.00%	12.60%	10.6	7.4	85%	121%
54	6	36	0.1667	19.00%	13.30%	6.8	4.8	88%	125%
55	3	16	0.1875	20.00%	14.00%	3.2	2.2	94%	134%
56	2	10	0.2000	20.00%	14.00%	2.0	1.4	100%	143%
57	0	1	0.0000	20.00%	14.00%	0.2	0.1	0%	0%
58	0	0	N/A	20.00%	14.00%	0	0	0%	0%
59	0	0	N/A	20.00%	14.00%	0	0	0%	0%
60	0	0	N/A	20.00%	14.00%	0	0	0%	0%
61	0	0	N/A	30.00%	21.00%	0	0	0%	0%
62	0	0	N/A	40.00%	28.00%	0	0	0%	0%
63	0	0	N/A	100.00%	70.00%	0	0	0%	0%
64	0	0	N/A	100.00%	70.00%	0	0	0%	0%
65	0	0	N/A	100.00%	70.00%	0	0	0%	0%
66	0	0	N/A	100.00%	70.00%	0	0	0%	0%
67	0	0	N/A	100.00%	70.00%	0	0	0%	0%
68	0	0	N/A	100.00%	70.00%	0	0	0%	0%
69	0	0	N/A	100.00%	70.00%	0	0	0%	0%
70	0	0	N/A	100.00%	70.00%	0	0	0%	0%
Subtotal	276	3,267				390.6	273.4	71%	101%
71 or more	0	0	N/A	100.00%	70.00%	0	0	0%	0%
Total	276	3,267				390.6	273.4	71%	101%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4B**

Age (1)				10-YEAR PERIOD ENDING 6/30/2013					
	Actual Retirements (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Retirements		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
40	0	9	0.0000	2.00%	1.80%	0.2	0.2	0%	0%
41	1	72	0.0139	2.00%	1.80%	1.4	1.3	69%	77%
42	2	198	0.0101	2.00%	1.80%	4.0	3.6	51%	56%
43	4	188	0.0213	2.00%	1.80%	3.8	3.4	106%	118%
44	5	244	0.0205	2.00%	1.80%	4.9	4.4	102%	114%
45	9	291	0.0309	2.00%	1.80%	5.8	5.2	155%	172%
46	3	334	0.0090	2.00%	1.80%	6.7	6.0	45%	50%
47	3	336	0.0089	2.00%	1.80%	6.7	6.0	45%	50%
48	10	279	0.0358	2.00%	1.80%	5.6	5.0	179%	199%
49	7	246	0.0285	2.00%	1.80%	4.9	4.4	142%	158%
50	4	194	0.0206	2.00%	1.80%	3.9	3.5	103%	115%
51	3	162	0.0185	2.00%	1.80%	3.2	2.9	93%	103%
52	7	98	0.0714	3.00%	2.70%	2.9	2.6	238%	265%
53	2	90	0.0222	4.00%	3.60%	3.6	3.2	56%	62%
54	0	41	0.0000	5.00%	4.50%	2.1	1.8	0%	0%
55	0	23	0.0000	6.00%	5.40%	1.4	1.2	0%	0%
56	0	10	0.0000	7.00%	6.30%	0.7	0.6	0%	0%
57	0	7	0.0000	8.00%	7.20%	0.6	0.5	0%	0%
58	0	0	N/A	9.00%	8.10%	0	0	0%	0%
59	0	0	N/A	10.00%	9.00%	0	0	0%	0%
60	0	0	N/A	12.00%	10.80%	0	0	0%	0%
61	0	0	N/A	15.00%	13.50%	0	0	0%	0%
62	0	0	N/A	20.00%	18.00%	0	0	0%	0%
63	0	0	N/A	100.00%	90.00%	0	0	0%	0%
64	0	0	N/A	100.00%	90.00%	0	0	0%	0%
65	0	0	N/A	100.00%	90.00%	0	0	0%	0%
66	0	0	N/A	100.00%	90.00%	0	0	0%	0%
67	0	0	N/A	100.00%	90.00%	0	0	0%	0%
68	0	0	N/A	100.00%	90.00%	0	0	0%	0%
69	0	0	N/A	100.00%	90.00%	0	0	0%	0%
70	0	0	N/A	100.00%	90.00%	0	0	0%	0%
Subtotal	60	2,822				62.3	56.1	96%	107%
71 or more	0	0	N/A	100.00%	90.00%	0	0	0%	0%
Total	60	2,822				62.3	56.1	96%	107%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

TABLE 4C

Age (1)				Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Retirements		Actual/Expected	
	Actual Retirements	Total Exposed	Actual Rate (2) / (3)	Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
40	0	5	0.0000	2.00%	1.70%	0.1	0.1	0%	0%
41	0	12	0.0000	2.00%	1.70%	0.2	0.2	0%	0%
42	1	77	0.0130	2.00%	1.70%	1.5	1.3	65%	76%
43	1	245	0.0041	2.00%	1.70%	4.9	4.2	20%	24%
44	7	417	0.0168	2.00%	1.70%	8.3	7.1	84%	99%
45	8	674	0.0119	2.00%	1.70%	13.5	11.5	59%	70%
46	19	943	0.0201	2.00%	1.70%	18.9	16.0	101%	119%
47	20	1,254	0.0159	2.00%	1.70%	25.1	21.3	80%	94%
48	30	1,484	0.0202	2.00%	1.70%	29.7	25.2	101%	119%
49	30	1,598	0.0188	2.00%	1.70%	32.0	27.2	94%	110%
50	36	1,622	0.0222	2.00%	1.70%	32.4	27.6	111%	131%
51	36	1,565	0.0230	2.00%	1.70%	31.3	26.6	115%	135%
52	45	1,491	0.0302	3.00%	2.55%	44.7	38.0	101%	118%
53	32	1,316	0.0243	4.00%	3.40%	52.6	44.7	61%	72%
54	37	1,156	0.0320	5.00%	4.25%	57.8	49.1	64%	75%
55	41	935	0.0439	6.00%	5.10%	56.1	47.7	73%	86%
56	33	719	0.0459	7.00%	5.95%	50.3	42.8	66%	77%
57	22	559	0.0394	8.00%	6.80%	44.7	38.0	49%	58%
58	23	409	0.0562	9.00%	7.65%	36.8	31.3	62%	74%
59	11	277	0.0397	10.00%	8.50%	27.7	23.5	40%	47%
60	5	194	0.0258	12.00%	10.20%	23.3	19.8	21%	25%
61	13	151	0.0861	15.00%	12.75%	22.7	19.3	57%	68%
62	7	101	0.0693	20.00%	17.00%	20.2	17.2	35%	41%
63	6	75	0.0800	100.00%	85.00%	75.0	63.8	8%	9%
64	9	49	0.1837	100.00%	85.00%	49.0	41.7	18%	22%
65	8	20	0.4000	100.00%	85.00%	20.0	17.0	40%	47%
66	0	0	N/A	100.00%	85.00%	0	0	0%	0%
67	0	0	N/A	100.00%	85.00%	0	0	0%	0%
68	0	0	N/A	100.00%	85.00%	0	0	0%	0%
69	0	0	N/A	100.00%	85.00%	0	0	0%	0%
70	0	0	N/A	100.00%	85.00%	0	0	0%	0%
Subtotal	480	17,348				778.9	662.0	62%	73%
71 or more	0	0	N/A	100.00%	85.00%	1.0	0	0%	0%
Total	480	17,348				779.9	662.0	62%	73%



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN FIRST YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4A GROUPED**

<u>Age</u> <b>(1)</b>	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate</u> <b>(2) / (3)</b> <b>(4)</b>	<u>Assumed Probability</u>		<u>10-YEAR PERIOD ENDING 6/30/2013</u> <b>Expected Retirements</b>		<u>Actual/Expected</u>	
				<u>Expected</u> <b>(7) / (3)</b> <b>(5)</b>	<u>Proposed</u> <b>(8) / (3)</b> <b>(6)</b>	<u>Expected</u> <b>(7)</b>	<u>Proposed</u> <b>(8)</b>	<u>Expected</u> <b>(2) / (7)</b> <b>(9)</b>	<u>Proposed</u> <b>(2) / (8)</b> <b>(10)</b>
				40-44	91	1,127	0.0807	10.00%	7.00%
45-59	120	1,590	0.0755	11.78%	8.25%	187.3	131.1	64%	92%
50-54	60	523	0.1147	16.29%	11.40%	85.2	59.6	70%	101%
55-59	5	27	0.1852	20.00%	14.00%	5.4	3.8	93%	132%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>276</b>	<b>3,267</b>				<b>390.6</b>	<b>273.4</b>	<b>71%</b>	<b>101%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE IN SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4B GROUPED**

<u>Age</u> (1)	<u>Actual Retirements</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>10-YEAR PERIOD ENDING 6/30/2013</u> <u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
				40-44	12	711	0.0169	2.00%	1.80%
45-59	32	1,486	0.0215	2.00%	1.80%	29.7	26.7	108%	120%
50-54	16	585	0.0274	2.69%	2.42%	15.7	14.1	102%	113%
55-59	0	40	0.0000	6.60%	5.94%	2.6	2.4	0%	0%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70+	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>60</b>	<b>2,822</b>				<b>62.3</b>	<b>56.1</b>	<b>96%</b>	<b>107%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE OF THOSE AFTER SECOND YEAR OF ELIGIBILITY  
MEN AND WOMEN**

**TABLE 4C GROUPED**

<u>Age</u> <b>(1)</b>	<u>Actual Retirements</u> <b>(2)</b>	<u>Total Exposed</u> <b>(3)</b>	<u>Actual Rate (2) / (3)</u> <b>(4)</b>	<u>Assumed Probability</u>		<u>10-YEAR PERIOD ENDING 6/30/2013</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u>	<u>Proposed (8) / (3)</u>	<u>Expected Retirements</u>		<u>Actual/Expected</u>	
				<b>(5)</b>	<b>(6)</b>	<u>Expected (7)</u>	<u>Proposed (8)</u>	<u>Expected (2) / (7)</u>	<u>Proposed (2) / (8)</u>
40-44	9	756	0.0119	2.00%	1.70%	15.1	12.9	60%	70%
45-59	107	5,953	0.0180	2.00%	1.70%	119.1	101.2	90%	106%
50-54	186	7,150	0.0260	3.06%	2.60%	218.9	186.1	85%	100%
55-59	130	2,899	0.0448	7.44%	6.32%	215.7	183.3	60%	71%
60-64	40	570	0.0702	33.36%	28.35%	190.1	161.6	21%	25%
65-69	8	20	0.4000	100.00%	85.00%	20.0	17.0	40%	47%
70+	0	0	N/A			1.0	0	0%	0%
<b>Total</b>	<b>480</b>	<b>17,348</b>				<b>779.9</b>	<b>662.0</b>	<b>62%</b>	<b>73%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
RETIREMENT EXPERIENCE - ALL EXPERIENCE COMBINED  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	TABLE 4D		10-YEAR PERIOD ENDING 6/30/2013			
	Life Years Exposed (2)	Actual Retirements (3)	Expected Retirements (4)	Actual / Expected (5)	Retirement Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2004	2,237	146	116.7	125%	6.53%	5.21%
2005	2,293	103	115.8	89%	4.49%	5.05%
2006	2,418	113	122.7	92%	4.67%	5.07%
2007	2,352	93	107.5	86%	3.95%	4.57%
2008	2,294	45	109.3	41%	1.96%	4.77%
2009	2,215	41	104.0	39%	1.85%	4.70%
2010	2,233	45	117.6	38%	2.02%	5.27%
2011	2,515	90	157.4	57%	3.58%	6.26%
2012	2,487	52	144.8	36%	2.09%	5.82%
2013	2,426	90	139.8	64%	3.71%	5.76%
Total	23,470	818	1,235.6	66%	3.49%	5.26%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 40 .

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

TABLE 5A

4-YEAR PERIOD ENDING 6/30/2013

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.040%	0.024%	0	0	0%	0%
21	0	0	N/A	0.040%	0.024%	0	0	0%	0%
22	0	6	0.00000	0.040%	0.024%	0.0	0.0	0%	0%
23	0	21	0.00000	0.040%	0.024%	0.0	0.0	0%	0%
24	0	93	0.00000	0.040%	0.024%	0.0	0.0	0%	0%
25	0	292	0.00000	0.040%	0.024%	0.1	0.1	0%	0%
26	0	592	0.00000	0.040%	0.024%	0.2	0.1	0%	0%
27	1	912	0.00110	0.040%	0.024%	0.4	0.2	274%	457%
28	0	1,186	0.00000	0.040%	0.024%	0.5	0.3	0%	0%
29	1	1,402	0.00071	0.040%	0.024%	0.6	0.3	178%	297%
30	0	1,558	0.00000	0.040%	0.024%	0.6	0.4	0%	0%
31	1	1,739	0.00058	0.040%	0.024%	0.7	0.4	144%	240%
32	2	1,904	0.00105	0.040%	0.024%	0.8	0.5	263%	438%
33	1	1,959	0.00051	0.040%	0.024%	0.8	0.5	128%	213%
34	0	1,920	0.00000	0.040%	0.024%	0.8	0.5	0%	0%
35	1	1,875	0.00053	0.040%	0.024%	0.8	0.5	133%	222%
36	1	1,815	0.00055	0.042%	0.025%	0.8	0.5	131%	219%
37	0	1,770	0.00000	0.044%	0.026%	0.8	0.5	0%	0%
38	0	1,804	0.00000	0.046%	0.028%	0.8	0.5	0%	0%
39	0	1,768	0.00000	0.048%	0.029%	0.8	0.5	0%	0%
40	1	1,709	0.00059	0.050%	0.030%	0.9	0.5	117%	195%
41	1	1,603	0.00062	0.060%	0.036%	1.0	0.6	104%	173%
42	1	1,529	0.00065	0.070%	0.042%	1.1	0.6	93%	156%
43	1	1,432	0.00070	0.080%	0.048%	1.1	0.7	87%	145%
44	0	1,403	0.00000	0.090%	0.054%	1.3	0.8	0%	0%
45	0	1,456	0.00000	0.100%	0.060%	1.5	0.9	0%	0%
46	0	1,447	0.00000	0.110%	0.066%	1.6	1.0	0%	0%
47	1	1,390	0.00072	0.120%	0.072%	1.7	1.0	60%	100%
48	2	1,269	0.00158	0.130%	0.078%	1.6	1.0	121%	202%
49	1	1,116	0.00090	0.140%	0.084%	1.6	0.9	64%	107%
50	0	976	0.00000	0.150%	0.090%	1.5	0.9	0%	0%
51	0	936	0.00000	0.160%	0.096%	1.5	0.9	0%	0%
52	0	868	0.00000	0.170%	0.102%	1.5	0.9	0%	0%
53	0	769	0.00000	0.180%	0.108%	1.4	0.8	0%	0%
54	0	686	0.00000	0.190%	0.114%	1.3	0.8	0%	0%
55	0	556	0.00000	0.200%	0.120%	1.1	0.7	0%	0%
56	0	437	0.00000	0.220%	0.132%	1.0	0.6	0%	0%
57	0	343	0.00000	0.240%	0.144%	0.8	0.5	0%	0%
58	0	251	0.00000	0.260%	0.156%	0.7	0.4	0%	0%
59	0	170	0.00000	0.280%	0.168%	0.5	0.3	0%	0%
60	0	107	0.00000	0.300%	0.180%	0.3	0.2	0%	0%
61	0	78	0.00000	0.320%	0.192%	0.2	0.1	0%	0%
62	0	52	0.00000	0.340%	0.204%	0.2	0.1	0%	0%
63	0	0	N/A	0.340%	0.204%	0	0	0%	0%
64	0	0	N/A	0.340%	0.204%	0	0	0%	0%
65	0	0	N/A	0.340%	0.204%	0	0	0%	0%
66	0	0	N/A	0.340%	0.204%	0	0	0%	0%
67	0	0	N/A	0.340%	0.204%	0	0	0%	0%
68	0	0	N/A	0.340%	0.204%	0	0	0%	0%
69	0	0	N/A	0.340%	0.204%	0	0	0%	0%
70	0	0	N/A	0.340%	0.204%	0	0	0%	0%
71	0	0	N/A	0.340%	0.204%	0	0	0%	0%
72	0	0	N/A	0.340%	0.204%	0	0	0%	0%
73	0	0	N/A	0.340%	0.204%	0	0	0%	0%
74	0	0	N/A	0.340%	0.204%	0	0	0%	0%
Total	16	43,199				34.5	20.7	46%	77%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 5A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7) (7)	Proposed (8) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	120	0.00000	0.040%	0.024%	0.0	0.0	0%	0%
25-29	2	4,384	0.00046	0.040%	0.024%	1.8	1.1	114%	190%
30-34	4	9,080	0.00044	0.040%	0.024%	3.6	2.2	110%	184%
35-39	2	9,032	0.00022	0.044%	0.026%	4.0	2.4	50%	84%
40-44	4	7,676	0.00052	0.069%	0.041%	5.3	3.2	76%	126%
45-49	4	6,678	0.00060	0.119%	0.071%	7.9	4.8	50%	84%
50-54	0	4,235	0.00000	0.168%	0.101%	7.1	4.3	0%	0%
55-59	0	1,757	0.00000	0.229%	0.137%	4.0	2.4	0%	0%
60-64	0	237	0.00000	0.315%	0.189%	0.7	0.4	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>16</b>	<b>43,199</b>				<b>34.5</b>	<b>20.7</b>	<b>46%</b>	<b>77%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 5A**

**10-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	4	0.00000	0.040%	0.024%	0.0	0.0	0%	0%
21	0	34	0.00000	0.040%	0.024%	0.0	0.0	0%	0%
22	0	178	0.00000	0.040%	0.024%	0.1	0.0	0%	0%
23	0	534	0.00000	0.040%	0.024%	0.2	0.1	0%	0%
24	0	1,066	0.00000	0.040%	0.024%	0.4	0.3	0%	0%
25	0	1,653	0.00000	0.040%	0.024%	0.7	0.4	0%	0%
26	0	2,275	0.00000	0.040%	0.024%	0.9	0.5	0%	0%
27	1	2,871	0.00035	0.040%	0.024%	1.1	0.7	87%	145%
28	1	3,398	0.00029	0.040%	0.024%	1.4	0.8	74%	123%
29	3	3,755	0.00080	0.040%	0.024%	1.5	0.9	200%	333%
30	2	4,047	0.00049	0.040%	0.024%	1.6	1.0	124%	206%
31	2	4,348	0.00046	0.040%	0.024%	1.7	1.0	115%	192%
32	2	4,586	0.00044	0.040%	0.024%	1.8	1.1	109%	182%
33	3	4,695	0.00064	0.040%	0.024%	1.9	1.1	160%	266%
34	0	4,743	0.00000	0.040%	0.024%	1.9	1.1	0%	0%
35	2	4,634	0.00043	0.040%	0.024%	1.9	1.1	108%	180%
36	2	4,550	0.00044	0.042%	0.025%	1.9	1.1	105%	174%
37	2	4,450	0.00045	0.044%	0.026%	2.0	1.2	102%	170%
38	2	4,453	0.00045	0.046%	0.028%	2.0	1.2	98%	163%
39	1	4,443	0.00023	0.048%	0.029%	2.1	1.3	47%	78%
40	2	4,444	0.00045	0.050%	0.030%	2.2	1.3	90%	150%
41	1	4,332	0.00023	0.060%	0.036%	2.6	1.6	38%	64%
42	2	4,155	0.00048	0.070%	0.042%	2.9	1.7	69%	115%
43	2	3,973	0.00050	0.080%	0.048%	3.2	1.9	63%	105%
44	1	3,841	0.00026	0.090%	0.054%	3.5	2.1	29%	48%
45	1	3,793	0.00026	0.100%	0.060%	3.8	2.3	26%	44%
46	2	3,637	0.00055	0.110%	0.066%	4.0	2.4	50%	83%
47	2	3,455	0.00058	0.120%	0.072%	4.1	2.5	48%	80%
48	2	3,199	0.00063	0.130%	0.078%	4.2	2.5	48%	80%
49	3	2,885	0.00104	0.140%	0.084%	4.0	2.4	74%	124%
50	0	2,540	0.00000	0.150%	0.090%	3.8	2.3	0%	0%
51	3	2,217	0.00135	0.160%	0.096%	3.5	2.1	85%	141%
52	0	1,899	0.00000	0.170%	0.102%	3.2	1.9	0%	0%
53	3	1,554	0.00193	0.180%	0.108%	2.8	1.7	107%	179%
54	1	1,273	0.00079	0.190%	0.114%	2.4	1.5	41%	69%
55	1	989	0.00101	0.200%	0.120%	2.0	1.2	51%	84%
56	1	743	0.00135	0.220%	0.132%	1.6	1.0	61%	102%
57	1	572	0.00175	0.240%	0.144%	1.4	0.8	73%	121%
58	0	415	0.00000	0.260%	0.156%	1.1	0.6	0%	0%
59	0	281	0.00000	0.280%	0.168%	0.8	0.5	0%	0%
60	0	197	0.00000	0.300%	0.180%	0.6	0.4	0%	0%
61	0	152	0.00000	0.320%	0.192%	0.5	0.3	0%	0%
62	0	103	0.00000	0.340%	0.204%	0.4	0.2	0%	0%
63	0	0	N/A	0.340%	0.204%	0	0	0%	0%
64	0	0	N/A	0.340%	0.204%	0	0	0%	0%
65	0	0	N/A	0.340%	0.204%	0	0	0%	0%
66	0	0	N/A	0.340%	0.204%	0	0	0%	0%
67	0	0	N/A	0.340%	0.204%	0	0	0%	0%
68	0	0	N/A	0.340%	0.204%	0	0	0%	0%
69	0	0	N/A	0.340%	0.204%	0	0	0%	0%
70	0	0	N/A	0.340%	0.204%	0	0	0%	0%
71	0	0	N/A	0.340%	0.204%	0	0	0%	0%
72	0	0	N/A	0.340%	0.204%	0	0	0%	0%
73	0	0	N/A	0.340%	0.204%	0	0	0%	0%
74	0	0	N/A	0.340%	0.204%	0	0	0%	0%
<b>Total</b>	<b>51</b>	<b>111,366</b>				<b>83.8</b>	<b>50.3</b>	<b>61%</b>	<b>101%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN**

**TABLE 5A GROUPED**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	0	1,816	0.00000	0.040%	0.024%	0.7	0.4	0%	0%
25-29	5	13,952	0.00036	0.040%	0.024%	5.6	3.3	90%	149%
30-34	9	22,419	0.00040	0.040%	0.024%	9.0	5.4	100%	167%
35-39	9	22,530	0.00040	0.044%	0.026%	9.9	5.9	91%	151%
40-44	8	20,745	0.00039	0.069%	0.042%	14.4	8.6	56%	93%
45-49	10	16,969	0.00059	0.119%	0.071%	20.1	12.1	50%	83%
50-54	7	9,483	0.00074	0.167%	0.100%	15.8	9.5	44%	74%
55-59	3	3,000	0.00100	0.228%	0.137%	6.9	4.1	44%	73%
60-64	0	452	0.00000	0.316%	0.190%	1.4	0.9	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>51</b>	<b>111,366</b>				<b>83.8</b>	<b>50.3</b>	<b>61%</b>	<b>101%</b>



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 5B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	10,892	6	7.8	77%	0.055%	0.072%
2005	11,316	5	8.1	62%	0.044%	0.071%
2006	11,479	8	8.2	98%	0.070%	0.071%
2007	11,607	3	8.4	36%	0.026%	0.072%
2008	11,518	5	8.4	60%	0.043%	0.073%
2009	11,574	7	8.6	82%	0.060%	0.074%
2010	11,445	4	8.7	46%	0.035%	0.076%
2011	11,058	6	8.7	69%	0.054%	0.078%
2012	10,620	7	8.6	81%	0.066%	0.081%
2013	10,240	0	8.7	0%	0.000%	0.085%
Total	111,749	51	84.0	61%	0.046%	0.075%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 6A**

**4-YEAR PERIOD ENDING 6/30/2013**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Deaths		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.020%	0.015%	0	0	0%	0%
21	0	0	N/A	0.020%	0.015%	0	0	0%	0%
22	0	6	0.00000	0.020%	0.015%	0.0	0.0	0%	0%
23	0	21	0.00000	0.020%	0.015%	0.0	0.0	0%	0%
24	0	93	0.00000	0.020%	0.015%	0.0	0.0	0%	0%
25	0	292	0.00000	0.020%	0.015%	0.1	0.0	0%	0%
26	0	594	0.00000	0.020%	0.015%	0.1	0.1	0%	0%
27	0	914	0.00000	0.020%	0.015%	0.2	0.1	0%	0%
28	0	1,190	0.00000	0.020%	0.015%	0.2	0.2	0%	0%
29	0	1,408	0.00000	0.020%	0.015%	0.3	0.2	0%	0%
30	0	1,565	0.00000	0.020%	0.015%	0.3	0.2	0%	0%
31	0	1,748	0.00000	0.020%	0.015%	0.3	0.3	0%	0%
32	0	1,918	0.00000	0.020%	0.015%	0.4	0.3	0%	0%
33	0	1,973	0.00000	0.020%	0.015%	0.4	0.3	0%	0%
34	0	1,938	0.00000	0.020%	0.015%	0.4	0.3	0%	0%
35	0	1,890	0.00000	0.020%	0.015%	0.4	0.3	0%	0%
36	0	1,826	0.00000	0.020%	0.015%	0.4	0.3	0%	0%
37	1	1,780	0.00056	0.020%	0.015%	0.4	0.3	281%	375%
38	0	1,810	0.00000	0.020%	0.015%	0.4	0.3	0%	0%
39	0	1,774	0.00000	0.020%	0.015%	0.4	0.3	0%	0%
40	0	1,716	0.00000	0.020%	0.015%	0.3	0.3	0%	0%
41	0	1,608	0.00000	0.026%	0.020%	0.4	0.3	0%	0%
42	1	1,532	0.00065	0.032%	0.024%	0.5	0.4	204%	272%
43	0	1,435	0.00000	0.038%	0.029%	0.5	0.4	0%	0%
44	2	1,405	0.00142	0.044%	0.033%	0.6	0.5	324%	431%
45	0	1,458	0.00000	0.050%	0.038%	0.7	0.5	0%	0%
46	1	1,448	0.00069	0.060%	0.045%	0.9	0.7	115%	153%
47	1	1,391	0.00072	0.070%	0.053%	1.0	0.7	103%	137%
48	1	1,269	0.00079	0.080%	0.060%	1.0	0.8	99%	131%
49	0	1,116	0.00000	0.090%	0.068%	1.0	0.8	0%	0%
50	2	977	0.00205	0.100%	0.075%	1.0	0.7	205%	273%
51	0	938	0.00000	0.120%	0.090%	1.1	0.8	0%	0%
52	1	870	0.00115	0.140%	0.105%	1.2	0.9	82%	109%
53	1	771	0.00130	0.160%	0.120%	1.2	0.9	81%	108%
54	2	686	0.00292	0.180%	0.135%	1.2	0.9	162%	216%
55	0	556	0.00000	0.200%	0.150%	1.1	0.8	0%	0%
56	0	437	0.00000	0.220%	0.165%	1.0	0.7	0%	0%
57	0	343	0.00000	0.240%	0.180%	0.8	0.6	0%	0%
58	0	252	0.00000	0.260%	0.195%	0.7	0.5	0%	0%
59	0	172	0.00000	0.280%	0.210%	0.5	0.4	0%	0%
60	0	109	0.00000	0.300%	0.225%	0.3	0.2	0%	0%
61	0	80	0.00000	0.400%	0.300%	0.3	0.2	0%	0%
62	0	54	0.00000	0.500%	0.375%	0.3	0.2	0%	0%
63	0	0	N/A	0.500%	0.375%	0	0	0%	0%
64	0	0	N/A	0.500%	0.375%	0	0	0%	0%
65	0	0	N/A	0.500%	0.375%	0	0	0%	0%
66	0	0	N/A	0.500%	0.375%	0	0	0%	0%
67	0	0	N/A	0.500%	0.375%	0	0	0%	0%
68	0	0	N/A	0.500%	0.375%	0	0	0%	0%
69	0	0	N/A	0.500%	0.375%	0	0	0%	0%
70	0	0	N/A	0.500%	0.375%	0	0	0%	0%
71	0	0	N/A	0.500%	0.375%	0	0	0%	0%
72	0	0	N/A	0.500%	0.375%	0	0	0%	0%
73	0	0	N/A	0.500%	0.375%	0	0	0%	0%
74	0	0	N/A	0.500%	0.375%	0	0	0%	0%
<b>Total</b>	<b>13</b>	<b>43,363</b>				<b>22.3</b>	<b>16.7</b>	<b>58%</b>	<b>78%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 6A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2013**

<u>Age</u> (1)	<u>Actual Deaths</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate (2) / (3)</u> (4)	<u>Assumed Probability</u>		<u>Expected Deaths</u>		<u>Actual/Expected</u>	
				<u>Expected (7) / (3)</u> (5)	<u>Proposed (8) / (3)</u> (6)	<u>Expected (7)</u> (7)	<u>Proposed (8)</u> (8)	<u>Expected (2) / (7)</u> (9)	<u>Proposed (2) / (8)</u> (10)
20-24	0	120	0.00000	0.020%	0.015%	0.0	0.0	0%	0%
25-29	0	4,398	0.00000	0.020%	0.015%	0.9	0.7	0%	0%
30-34	0	9,142	0.00000	0.020%	0.015%	1.8	1.4	0%	0%
35-39	1	9,080	0.00011	0.020%	0.015%	1.8	1.4	55%	73%
40-44	3	7,696	0.00039	0.031%	0.024%	2.4	1.8	124%	166%
45-49	3	6,682	0.00045	0.069%	0.052%	4.6	3.4	65%	87%
50-54	6	4,242	0.00141	0.136%	0.102%	5.8	4.3	104%	138%
55-59	0	1,760	0.00000	0.229%	0.172%	4.0	3.0	0%	0%
60-64	0	243	0.00000	0.377%	0.283%	0.9	0.7	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>13</b>	<b>43,363</b>				<b>22.3</b>	<b>16.7</b>	<b>58%</b>	<b>78%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 6A

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected	Proposed	Expected (3) x (5)	Proposed (3) x (6)	Expected (2) / (7)	Proposed (2) / (8)
				(5)	(6)	(7)	(8)	(9)	(10)
20	0	4	0.00000	0.020%	0.015%	0.0	0.0	0%	0%
21	0	34	0.00000	0.020%	0.015%	0.0	0.0	0%	0%
22	0	180	0.00000	0.020%	0.015%	0.0	0.0	0%	0%
23	1	537	0.00186	0.020%	0.015%	0.1	0.1	931%	1241%
24	0	1,069	0.00000	0.020%	0.015%	0.2	0.2	0%	0%
25	1	1,659	0.00060	0.020%	0.015%	0.3	0.2	301%	402%
26	0	2,282	0.00000	0.020%	0.015%	0.5	0.3	0%	0%
27	0	2,881	0.00000	0.020%	0.015%	0.6	0.4	0%	0%
28	0	3,412	0.00000	0.020%	0.015%	0.7	0.5	0%	0%
29	0	3,773	0.00000	0.020%	0.015%	0.8	0.6	0%	0%
30	1	4,067	0.00025	0.020%	0.015%	0.8	0.6	123%	164%
31	0	4,371	0.00000	0.020%	0.015%	0.9	0.7	0%	0%
32	0	4,610	0.00000	0.020%	0.015%	0.9	0.7	0%	0%
33	0	4,721	0.00000	0.020%	0.015%	0.9	0.7	0%	0%
34	1	4,770	0.00021	0.020%	0.015%	1.0	0.7	105%	140%
35	1	4,659	0.00021	0.020%	0.015%	0.9	0.7	107%	143%
36	0	4,569	0.00000	0.020%	0.015%	0.9	0.7	0%	0%
37	3	4,467	0.00067	0.020%	0.015%	0.9	0.7	336%	448%
38	2	4,464	0.00045	0.020%	0.015%	0.9	0.7	224%	299%
39	0	4,454	0.00000	0.020%	0.015%	0.9	0.7	0%	0%
40	1	4,454	0.00022	0.020%	0.015%	0.9	0.7	112%	150%
41	1	4,341	0.00023	0.026%	0.020%	1.1	0.8	89%	118%
42	2	4,161	0.00048	0.032%	0.024%	1.3	1.0	150%	200%
43	0	3,978	0.00000	0.038%	0.029%	1.5	1.1	0%	0%
44	3	3,844	0.00078	0.044%	0.033%	1.7	1.3	177%	236%
45	1	3,799	0.00026	0.050%	0.038%	1.9	1.4	53%	70%
46	4	3,644	0.00110	0.060%	0.045%	2.2	1.6	183%	244%
47	1	3,463	0.00029	0.070%	0.053%	2.4	1.8	41%	55%
48	1	3,204	0.00031	0.080%	0.060%	2.6	1.9	39%	52%
49	1	2,890	0.00035	0.090%	0.068%	2.6	2.0	38%	51%
50	2	2,545	0.00079	0.100%	0.075%	2.5	1.9	79%	105%
51	2	2,221	0.00090	0.120%	0.090%	2.7	2.0	75%	100%
52	3	1,905	0.00157	0.140%	0.105%	2.7	2.0	112%	150%
53	2	1,561	0.00128	0.160%	0.120%	2.5	1.9	80%	107%
54	3	1,277	0.00235	0.180%	0.135%	2.3	1.7	131%	174%
55	1	993	0.00101	0.200%	0.150%	2.0	1.5	50%	67%
56	0	747	0.00000	0.220%	0.165%	1.6	1.2	0%	0%
57	0	575	0.00000	0.240%	0.180%	1.4	1.0	0%	0%
58	0	418	0.00000	0.260%	0.195%	1.1	0.8	0%	0%
59	0	284	0.00000	0.280%	0.210%	0.8	0.6	0%	0%
60	0	200	0.00000	0.300%	0.225%	0.6	0.5	0%	0%
61	0	155	0.00000	0.400%	0.300%	0.6	0.5	0%	0%
62	0	105	0.00000	0.500%	0.375%	0.5	0.4	0%	0%
63	0	0	N/A	0.500%	0.375%	0	0	0%	0%
64	0	0	N/A	0.500%	0.375%	0	0	0%	0%
65	0	0	N/A	0.500%	0.375%	0	0	0%	0%
66	0	0	N/A	0.500%	0.375%	0	0	0%	0%
67	0	0	N/A	0.500%	0.375%	0	0	0%	0%
68	0	0	N/A	0.500%	0.375%	0	0	0%	0%
69	0	0	N/A	0.500%	0.375%	0	0	0%	0%
70	0	0	N/A	0.500%	0.375%	0	0	0%	0%
71	0	0	N/A	0.500%	0.375%	0	0	0%	0%
72	0	0	N/A	0.500%	0.375%	0	0	0%	0%
73	0	0	N/A	0.500%	0.375%	0	0	0%	0%
74	0	0	N/A	0.500%	0.375%	0	0	0%	0%
Total	38	111,747				51.7	38.8	73%	98%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 6A GROUPED**

Age (1)	Actual Deaths (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		10-YEAR PERIOD ENDING 6/30/2013 Expected Deaths		Actual/Expected	
				Expected (7) / (3) (5)	Proposed (8) / (3) (6)	Expected (7)	Proposed (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20-24	1	1,824	0.00055	0.020%	0.015%	0.4	0.3	274%	365%
25-29	1	14,007	0.00007	0.020%	0.015%	2.8	2.1	36%	48%
30-34	2	22,539	0.00009	0.020%	0.015%	4.5	3.4	44%	59%
35-39	6	22,613	0.00027	0.020%	0.015%	4.5	3.4	133%	177%
40-44	7	20,778	0.00034	0.032%	0.024%	6.6	4.9	107%	142%
45-49	8	17,000	0.00047	0.069%	0.052%	11.7	8.8	69%	91%
50-54	12	9,509	0.00126	0.133%	0.100%	12.7	9.5	95%	126%
55-59	1	3,017	0.00033	0.228%	0.171%	6.9	5.2	15%	19%
60-64	0	460	0.00000	0.379%	0.285%	1.7	1.3	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>38</b>	<b>111,747</b>				<b>51.7</b>	<b>38.8</b>	<b>73%</b>	<b>98%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL MORTALITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 6B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Deaths	Expected Deaths	Actual / Expected	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	10,892	6	4.6	132%	0.055%	0.042%
2005	11,316	4	4.7	85%	0.035%	0.042%
2006	11,479	3	4.8	62%	0.026%	0.042%
2007	11,607	5	5.0	100%	0.043%	0.043%
2008	11,518	5	5.1	99%	0.043%	0.044%
2009	11,574	2	5.3	38%	0.017%	0.046%
2010	11,445	5	5.4	92%	0.044%	0.047%
2011	11,058	1	5.5	18%	0.009%	0.050%
2012	10,620	3	5.6	54%	0.028%	0.053%
2013	10,240	4	5.8	70%	0.039%	0.056%
Total	111,749	38	51.7	73%	0.034%	0.046%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 7A

4-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
21	0	1	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
22	0	21	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
23	0	186	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
24	0	467	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
25	0	783	0.0000	0.01%	0.01%	0.1	0.1	0%	0%
26	0	1,062	0.0000	0.01%	0.01%	0.1	0.1	0%	0%
27	0	1,301	0.0000	0.02%	0.02%	0.3	0.2	0%	0%
28	0	1,480	0.0000	0.03%	0.02%	0.4	0.4	0%	0%
29	0	1,668	0.0000	0.04%	0.03%	0.7	0.5	0%	0%
30	1	1,869	0.0005	0.05%	0.04%	0.9	0.7	107%	134%
31	0	1,968	0.0000	0.06%	0.05%	1.2	0.9	0%	0%
32	0	1,951	0.0000	0.07%	0.06%	1.4	1.1	0%	0%
33	0	1,885	0.0000	0.08%	0.06%	1.5	1.2	0%	0%
34	0	1,833	0.0000	0.09%	0.07%	1.6	1.3	0%	0%
35	0	1,821	0.0000	0.10%	0.08%	1.8	1.5	0%	0%
36	0	1,864	0.0000	0.11%	0.09%	2.1	1.6	0%	0%
37	0	1,849	0.0000	0.12%	0.10%	2.2	1.8	0%	0%
38	0	1,794	0.0000	0.13%	0.10%	2.3	1.9	0%	0%
39	0	1,701	0.0000	0.14%	0.11%	2.4	1.9	0%	0%
40	2	1,633	0.0012	0.15%	0.12%	2.4	2.0	82%	102%
41	1	1,529	0.0007	0.16%	0.13%	2.4	2.0	41%	51%
42	0	1,547	0.0000	0.17%	0.14%	2.6	2.1	0%	0%
43	1	1,604	0.0006	0.18%	0.14%	2.9	2.3	35%	43%
44	1	1,590	0.0006	0.19%	0.15%	3.0	2.4	33%	41%
45	0	1,558	0.0000	0.20%	0.16%	3.1	2.5	0%	0%
46	0	1,427	0.0000	0.22%	0.18%	3.1	2.5	0%	0%
47	0	1,281	0.0000	0.24%	0.19%	3.1	2.5	0%	0%
48	0	1,155	0.0000	0.26%	0.21%	3.0	2.4	0%	0%
49	0	1,103	0.0000	0.28%	0.22%	3.1	2.5	0%	0%
50	0	1,051	0.0000	0.30%	0.24%	3.2	2.5	0%	0%
51	0	991	0.0000	0.44%	0.35%	4.4	3.5	0%	0%
52	0	869	0.0000	0.58%	0.46%	5.0	4.0	0%	0%
53	0	706	0.0000	0.72%	0.58%	5.1	4.1	0%	0%
54	0	579	0.0000	0.86%	0.69%	5.0	4.0	0%	0%
55	0	454	0.0000	1.00%	0.80%	4.5	3.6	0%	0%
56	0	339	0.0000	2.00%	1.60%	6.8	5.4	0%	0%
57	0	236	0.0000	3.00%	2.40%	7.1	5.7	0%	0%
58	0	151	0.0000	4.00%	3.20%	6.0	4.8	0%	0%
59	0	106	0.0000	5.00%	4.00%	5.3	4.2	0%	0%
60	1	78	0.0128	6.00%	4.80%	4.7	3.7	21%	27%
61	0	62	0.0000	8.00%	6.40%	5.0	4.0	0%	0%
62	0	41	0.0000	10.00%	8.00%	4.1	3.3	0%	0%
63	0	0	N/A	10.00%	8.00%	0	0	0%	0%
64	0	0	N/A	10.00%	8.00%	0	0	0%	0%
65	0	0	N/A	10.00%	8.00%	0	0	0%	0%
66	0	0	N/A	10.00%	8.00%	0	0	0%	0%
67	0	0	N/A	10.00%	8.00%	0	0	0%	0%
68	0	0	N/A	10.00%	8.00%	0	0	0%	0%
69	0	0	N/A	10.00%	8.00%	0	0	0%	0%
70	0	0	N/A	10.00%	8.00%	0	0	0%	0%
71	0	0	N/A	10.00%	8.00%	0	0	0%	0%
72	0	0	N/A	10.00%	8.00%	0	0	0%	0%
73	0	0	N/A	10.00%	8.00%	0	0	0%	0%
74	0	0	N/A	10.00%	8.00%	0	0	0%	0%
Total	7	45,595				114.0	91.2	6%	8%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

TABLE 8A

4-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.05%	0.16%	0	0	0%	0%
21	0	0	N/A	0.05%	0.16%	0	0	0%	0%
22	0	0	N/A	0.05%	0.16%	0	0	0%	0%
23	0	0	N/A	0.05%	0.16%	0	0	0%	0%
24	0	0	N/A	0.05%	0.16%	0	0	0%	0%
25	0	0	N/A	0.05%	0.16%	0	0	0%	0%
26	0	6	0.0000	0.09%	0.16%	0.0	0.0	0%	0%
27	0	57	0.0000	0.13%	0.16%	0.1	0.1	0%	0%
28	0	129	0.0000	0.17%	0.16%	0.2	0.2	0%	0%
29	0	249	0.0000	0.21%	0.16%	0.5	0.4	0%	0%
30	1	411	0.0024	0.25%	0.16%	1.0	0.7	97%	152%
31	3	513	0.0058	0.40%	0.35%	2.1	1.8	146%	169%
32	5	617	0.0081	0.55%	0.55%	3.4	3.4	147%	146%
33	5	714	0.0070	0.70%	0.77%	5.0	5.5	100%	90%
34	4	828	0.0048	0.85%	1.01%	7.0	8.3	57%	48%
35	11	1,009	0.0109	1.00%	1.25%	10.1	12.7	109%	87%
36	21	1,199	0.0175	1.20%	1.51%	14.4	18.1	146%	116%
37	30	1,341	0.0224	1.40%	1.79%	18.8	23.9	160%	125%
38	35	1,440	0.0243	1.60%	2.07%	23.0	29.8	152%	117%
39	38	1,462	0.0260	1.80%	2.37%	26.3	34.6	144%	110%
40	46	1,501	0.0306	2.00%	2.68%	30.0	40.2	153%	114%
41	44	1,487	0.0296	2.20%	3.00%	32.7	44.6	134%	99%
42	60	1,536	0.0391	2.40%	3.34%	36.9	51.3	163%	117%
43	72	1,597	0.0451	2.60%	3.69%	41.5	58.9	173%	122%
44	59	1,586	0.0372	2.80%	4.05%	44.4	64.2	133%	92%
45	70	1,556	0.0450	3.00%	4.42%	46.7	68.8	150%	102%
46	77	1,426	0.0540	3.40%	4.81%	48.5	68.6	159%	112%
47	74	1,280	0.0578	3.80%	5.21%	48.6	66.7	152%	111%
48	79	1,154	0.0685	4.20%	5.62%	48.5	64.9	163%	122%
49	65	1,102	0.0590	4.60%	6.05%	50.7	66.6	128%	98%
50	71	1,050	0.0676	5.00%	6.49%	52.5	68.1	135%	104%
51	84	990	0.0848	5.60%	6.94%	55.4	68.7	152%	122%
52	82	869	0.0944	6.20%	7.40%	53.9	64.3	152%	127%
53	53	706	0.0751	6.80%	7.88%	48.0	55.6	110%	95%
54	55	579	0.0950	7.40%	8.37%	42.8	48.5	128%	114%
55	50	453	0.1104	8.00%	8.87%	36.2	40.2	138%	124%
56	32	337	0.0950	10.00%	9.60%	33.7	32.4	95%	99%
57	31	234	0.1325	12.00%	9.60%	28.1	22.5	110%	138%
58	17	149	0.1141	15.00%	9.60%	22.4	14.3	76%	119%
59	17	105	0.1619	18.00%	9.60%	18.9	10.1	90%	169%
60	6	78	0.0769	21.00%	9.60%	16.4	7.5	37%	80%
61	12	62	0.1935	25.00%	9.60%	15.5	6.0	77%	202%
62	4	41	0.0976	30.00%	9.60%	12.3	3.9	33%	102%
63	0	0	N/A	30.00%	9.60%	0	0	0%	0%
64	0	0	N/A	30.00%	9.60%	0	0	0%	0%
65	0	0	N/A	30.00%	9.60%	0	0	0%	0%
66	0	0	N/A	30.00%	9.60%	0	0	0%	0%
67	0	0	N/A	30.00%	9.60%	0	0	0%	0%
68	0	0	N/A	30.00%	9.60%	0	0	0%	0%
69	0	0	N/A	30.00%	9.60%	0	0	0%	0%
70	0	0	N/A	30.00%	9.60%	0	0	0%	0%
71	0	0	N/A	30.00%	9.60%	0	0	0%	0%
72	0	0	N/A	30.00%	9.60%	0	0	0%	0%
73	0	0	N/A	30.00%	9.60%	0	0	0%	0%
74	0	0	N/A	30.00%	9.60%	0	0	0%	0%
<b>Total</b>	<b>1,313</b>	<b>29,853</b>				<b>976.6</b>	<b>1,176.3</b>	<b>134%</b>	<b>112%</b>



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 7A GROUPED**

Age	Actual	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		4-YEAR PERIOD ENDING 6/30/2011 Expected Disabilities		Actual/Expected	
				Expected	Proposed	Expected	Proposed	Expected	Proposed
				(7) / (3)	(8) / (3)	(7)	(8)	(2) / (7)	(2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	676	0.0000	0.01%	0.01%	0.1	0.1	0%	0%
25-29	0	6,294	0.0000	0.02%	0.02%	1.6	1.2	0%	0%
30-34	1	9,506	0.0001	0.07%	0.06%	6.6	5.3	15%	19%
35-39	0	9,029	0.0000	0.12%	0.10%	10.8	8.6	0%	0%
40-44	5	7,903	0.0006	0.17%	0.14%	13.4	10.7	37%	47%
45-49	0	6,524	0.0000	0.24%	0.19%	15.4	12.3	0%	0%
50-54	0	4,196	0.0000	0.54%	0.43%	22.6	18.1	0%	0%
55-59	0	1,286	0.0000	2.31%	1.85%	29.7	23.8	0%	0%
60-64	1	181	0.0055	7.59%	6.07%	13.7	11.0	7%	9%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>7</b>	<b>45,595</b>				<b>114.0</b>	<b>91.2</b>	<b>6%</b>	<b>8%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

**TABLE 8A GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	0	N/A			0	0	0%	0%
25-29	0	441	0.0000	0.19%	0.16%	0.8	0.7	0%	0%
30-34	18	3,083	0.0058	0.60%	0.64%	18.5	19.7	97%	91%
35-39	135	6,451	0.0209	1.44%	1.85%	92.6	119.2	146%	113%
40-44	281	7,707	0.0365	2.41%	3.36%	185.5	259.2	151%	108%
45-49	365	6,518	0.0560	3.73%	5.15%	243.0	335.6	150%	109%
50-54	345	4,194	0.0823	6.02%	7.28%	252.7	305.2	137%	113%
55-59	147	1,278	0.1150	10.90%	9.34%	139.3	119.4	106%	123%
60-64	22	181	0.1215	24.41%	9.60%	44.2	17.4	50%	127%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>1,313</b>	<b>29,853</b>				<b>976.6</b>	<b>1,176.3</b>	<b>134%</b>	<b>112%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 7A

8-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	4	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
21	0	34	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
22	0	180	0.0000	0.01%	0.01%	0.0	0.0	0%	0%
23	0	537	0.0000	0.01%	0.01%	0.1	0.0	0%	0%
24	0	1,063	0.0000	0.01%	0.01%	0.1	0.1	0%	0%
25	0	1,638	0.0000	0.01%	0.01%	0.2	0.1	0%	0%
26	0	2,196	0.0000	0.01%	0.01%	0.2	0.2	0%	0%
27	0	2,611	0.0000	0.02%	0.02%	0.5	0.4	0%	0%
28	0	2,910	0.0000	0.03%	0.02%	0.9	0.7	0%	0%
29	0	3,134	0.0000	0.04%	0.03%	1.3	1.0	0%	0%
30	1	3,382	0.0003	0.05%	0.04%	1.7	1.4	59%	74%
31	0	3,604	0.0000	0.06%	0.05%	2.2	1.7	0%	0%
32	1	3,740	0.0003	0.07%	0.06%	2.6	2.1	38%	48%
33	0	3,757	0.0000	0.08%	0.06%	3.0	2.4	0%	0%
34	1	3,740	0.0003	0.09%	0.07%	3.4	2.7	30%	37%
35	0	3,666	0.0000	0.10%	0.08%	3.7	2.9	0%	0%
36	0	3,670	0.0000	0.11%	0.09%	4.0	3.2	0%	0%
37	0	3,587	0.0000	0.12%	0.10%	4.3	3.4	0%	0%
38	2	3,568	0.0006	0.13%	0.10%	4.6	3.7	43%	54%
39	0	3,585	0.0000	0.14%	0.11%	5.0	4.0	0%	0%
40	2	3,582	0.0006	0.15%	0.12%	5.4	4.3	37%	47%
41	1	3,480	0.0003	0.16%	0.13%	5.6	4.5	18%	22%
42	0	3,366	0.0000	0.17%	0.14%	5.7	4.6	0%	0%
43	2	3,276	0.0006	0.18%	0.14%	5.9	4.7	34%	42%
44	3	3,177	0.0009	0.19%	0.15%	6.0	4.8	50%	62%
45	0	3,131	0.0000	0.20%	0.16%	6.3	5.0	0%	0%
46	1	2,967	0.0003	0.22%	0.18%	6.5	5.2	15%	19%
47	0	2,756	0.0000	0.24%	0.19%	6.6	5.3	0%	0%
48	0	2,512	0.0000	0.26%	0.21%	6.5	5.2	0%	0%
49	0	2,285	0.0000	0.28%	0.22%	6.4	5.1	0%	0%
50	1	2,051	0.0005	0.30%	0.24%	6.2	4.9	16%	20%
51	0	1,784	0.0000	0.44%	0.35%	7.8	6.3	0%	0%
52	1	1,502	0.0007	0.58%	0.46%	8.7	7.0	11%	14%
53	0	1,166	0.0000	0.72%	0.58%	8.4	6.7	0%	0%
54	0	908	0.0000	0.86%	0.69%	7.8	6.2	0%	0%
55	1	697	0.0014	1.00%	0.80%	7.0	5.6	14%	18%
56	0	510	0.0000	2.00%	1.60%	10.2	8.2	0%	0%
57	2	375	0.0053	3.00%	2.40%	11.3	9.0	18%	22%
58	1	269	0.0037	4.00%	3.20%	10.8	8.6	9%	12%
59	0	178	0.0000	5.00%	4.00%	8.9	7.1	0%	0%
60	1	125	0.0080	6.00%	4.80%	7.5	6.0	13%	17%
61	0	106	0.0000	8.00%	6.40%	8.5	6.8	0%	0%
62	1	78	0.0128	10.00%	8.00%	7.8	6.2	13%	16%
63	0	0	N/A	10.00%	8.00%	0	0	0%	0%
64	0	0	N/A	10.00%	8.00%	0	0	0%	0%
65	0	0	N/A	10.00%	8.00%	0	0	0%	0%
66	0	0	N/A	10.00%	8.00%	0	0	0%	0%
67	0	0	N/A	10.00%	8.00%	0	0	0%	0%
68	0	0	N/A	10.00%	8.00%	0	0	0%	0%
69	0	0	N/A	10.00%	8.00%	0	0	0%	0%
70	0	0	N/A	10.00%	8.00%	0	0	0%	0%
71	0	0	N/A	10.00%	8.00%	0	0	0%	0%
72	0	0	N/A	10.00%	8.00%	0	0	0%	0%
73	0	0	N/A	10.00%	8.00%	0	0	0%	0%
74	0	0	N/A	10.00%	8.00%	0	0	0%	0%
<b>Total</b>	<b>22</b>	<b>90,887</b>				<b>209.4</b>	<b>167.5</b>	<b>11%</b>	<b>13%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

TABLE 8A

8-YEAR PERIOD ENDING 6/30/2011

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	0	N/A	0.05%	0.16%	0	0	0%	0%
21	0	0	N/A	0.05%	0.16%	0	0	0%	0%
22	0	2	0.0000	0.05%	0.16%	0.0	0.0	0%	0%
23	0	52	0.0000	0.05%	0.16%	0.0	0.1	0%	0%
24	0	120	0.0000	0.05%	0.16%	0.1	0.2	0%	0%
25	0	241	0.0000	0.05%	0.16%	0.1	0.4	0%	0%
26	0	391	0.0000	0.09%	0.16%	0.4	0.6	0%	0%
27	2	556	0.0036	0.13%	0.16%	0.7	0.9	277%	225%
28	0	737	0.0000	0.17%	0.16%	1.3	1.2	0%	0%
29	1	966	0.0010	0.21%	0.16%	2.0	1.5	49%	65%
30	5	1,242	0.0040	0.25%	0.16%	3.1	2.0	161%	252%
31	7	1,542	0.0045	0.40%	0.35%	6.2	5.3	113%	131%
32	17	1,864	0.0091	0.55%	0.55%	10.3	10.3	166%	165%
33	17	2,136	0.0080	0.70%	0.77%	15.0	16.5	114%	103%
34	31	2,384	0.0130	0.85%	1.01%	20.3	24.0	153%	129%
35	34	2,612	0.0130	1.00%	1.25%	26.1	32.8	130%	104%
36	53	2,866	0.0185	1.20%	1.51%	34.4	43.4	154%	122%
37	64	3,029	0.0211	1.40%	1.79%	42.4	54.1	151%	118%
38	79	3,197	0.0247	1.60%	2.07%	51.2	66.2	154%	119%
39	93	3,334	0.0279	1.80%	2.37%	60.0	78.9	155%	118%
40	111	3,441	0.0323	2.00%	2.68%	68.8	92.2	161%	120%
41	123	3,430	0.0359	2.20%	3.00%	75.5	103.0	163%	119%
42	149	3,347	0.0445	2.40%	3.34%	80.3	111.7	185%	133%
43	148	3,263	0.0454	2.60%	3.69%	84.8	120.3	174%	123%
44	155	3,170	0.0489	2.80%	4.05%	88.8	128.3	175%	121%
45	179	3,122	0.0573	3.00%	4.42%	93.7	138.1	191%	130%
46	174	2,957	0.0588	3.40%	4.81%	100.5	142.2	173%	122%
47	173	2,751	0.0629	3.80%	5.21%	104.5	143.3	165%	121%
48	184	2,507	0.0734	4.20%	5.62%	105.3	141.0	175%	131%
49	154	2,279	0.0676	4.60%	6.05%	104.8	137.8	147%	112%
50	173	2,045	0.0846	5.00%	6.49%	102.3	132.6	169%	130%
51	162	1,778	0.0911	5.60%	6.94%	99.6	123.4	163%	131%
52	149	1,496	0.0996	6.20%	7.40%	92.8	110.7	161%	135%
53	96	1,161	0.0827	6.80%	7.88%	78.9	91.5	122%	105%
54	97	905	0.1072	7.40%	8.37%	67.0	75.7	145%	128%
55	86	691	0.1245	8.00%	8.87%	55.3	61.3	156%	140%
56	49	506	0.0968	10.00%	9.60%	50.6	48.6	97%	101%
57	47	372	0.1263	12.00%	9.60%	44.6	35.7	105%	132%
58	39	267	0.1461	15.00%	9.60%	40.1	25.6	97%	152%
59	29	177	0.1638	18.00%	9.60%	31.9	17.0	91%	171%
60	12	124	0.0968	21.00%	9.60%	26.0	11.9	46%	101%
61	20	105	0.1905	25.00%	9.60%	26.3	10.1	76%	198%
62	8	77	0.1039	30.00%	9.60%	23.1	7.4	35%	108%
63	0	0	N/A	30.00%	9.60%	0	0	0%	0%
64	0	0	N/A	30.00%	9.60%	0	0	0%	0%
65	0	0	N/A	30.00%	9.60%	0	0	0%	0%
66	0	0	N/A	30.00%	9.60%	0	0	0%	0%
67	0	0	N/A	30.00%	9.60%	0	0	0%	0%
68	0	0	N/A	30.00%	9.60%	0	0	0%	0%
69	0	0	N/A	30.00%	9.60%	0	0	0%	0%
70	0	0	N/A	30.00%	9.60%	0	0	0%	0%
71	0	0	N/A	30.00%	9.60%	0	0	0%	0%
72	0	0	N/A	30.00%	9.60%	0	0	0%	0%
73	0	0	N/A	30.00%	9.60%	0	0	0%	0%
74	0	0	N/A	30.00%	9.60%	0	0	0%	0%
<b>Total</b>	<b>2,920</b>	<b>67,242</b>				<b>1,918.8</b>	<b>2,347.8</b>	<b>152%</b>	<b>124%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 7A GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	1,818	0.0000	0.01%	0.01%	0.2	0.1	0%	0%
25-29	0	12,489	0.0000	0.02%	0.02%	3.0	2.4	0%	0%
30-34	3	18,223	0.0002	0.07%	0.06%	12.8	10.3	23%	29%
35-39	2	18,076	0.0001	0.12%	0.10%	21.7	17.3	9%	12%
40-44	8	16,881	0.0005	0.17%	0.14%	28.6	22.9	28%	35%
45-49	1	13,651	0.0001	0.24%	0.19%	32.3	25.9	3%	4%
50-54	2	7,411	0.0003	0.53%	0.42%	38.9	31.1	5%	6%
55-59	4	2,029	0.0020	2.37%	1.90%	48.1	38.5	8%	10%
60-64	2	309	0.0065	7.70%	6.16%	23.8	19.0	8%	11%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>22</b>	<b>90,887</b>				<b>209.4</b>	<b>167.5</b>	<b>11%</b>	<b>13%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN ELIGIBLE FOR WTC BENEFITS**

**TABLE 8A GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	174	0.0000	0.05%	0.16%	0.1	0.3	0%	0%
25-29	3	2,891	0.0010	0.15%	0.16%	4.5	4.6	67%	65%
30-34	77	9,168	0.0084	0.60%	0.63%	54.7	58.2	141%	132%
35-39	323	15,038	0.0215	1.42%	1.83%	214.1	275.4	151%	117%
40-44	686	16,651	0.0412	2.39%	3.34%	398.2	555.4	172%	124%
45-49	864	13,616	0.0635	3.74%	5.16%	508.9	702.4	170%	123%
50-54	677	7,385	0.0917	5.96%	7.23%	440.5	533.9	154%	127%
55-59	250	2,013	0.1242	11.05%	9.35%	222.4	188.2	112%	133%
60-64	40	306	0.1307	24.64%	9.60%	75.4	29.4	53%	136%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>2,920</b>	<b>67,242</b>				<b>1,918.8</b>	<b>2,347.8</b>	<b>152%</b>	<b>124%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ORDINARY DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 7B Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities	Expected Disabilities	Actual / Expected	Disability Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	10,892	6	23.4	26%	0.06%	0.22%
2005	11,316	2	23.8	8%	0.02%	0.21%
2006	11,479	4	23.7	17%	0.03%	0.21%
2007	11,607	4	24.5	16%	0.03%	0.21%
2008	11,518	4	25.4	16%	0.03%	0.22%
2009	11,574	2	27.4	7%	0.02%	0.24%
2010	11,445	1	29.5	3%	0.01%	0.26%
2011	11,058	1	31.7	3%	0.01%	0.29%
2012	10,620	2	33.9	6%	0.02%	0.32%
2013	10,240	0	37.6	0%	0.00%	0.37%
Total	111,749	26	280.9	9%	0.02%	0.25%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B**

**4-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	1	0.0000	0.03%	0.02%	0.0	0.0	0%	0%
21	0	1	0.0000	0.03%	0.02%	0.0	0.0	0%	0%
22	0	21	0.0000	0.03%	0.02%	0.0	0.0	0%	0%
23	0	186	0.0000	0.03%	0.02%	0.1	0.0	0%	0%
24	0	467	0.0000	0.03%	0.02%	0.1	0.1	0%	0%
25	0	783	0.0000	0.03%	0.02%	0.2	0.2	0%	0%
26	0	1,056	0.0000	0.04%	0.02%	0.4	0.2	0%	0%
27	2	1,244	0.0016	0.05%	0.03%	0.6	0.3	322%	595%
28	0	1,351	0.0000	0.07%	0.04%	0.9	0.5	0%	0%
29	0	1,419	0.0000	0.10%	0.06%	1.4	0.8	0%	0%
30	2	1,458	0.0014	0.15%	0.08%	2.2	1.1	91%	176%
31	2	1,455	0.0014	0.24%	0.11%	3.5	1.6	57%	128%
32	1	1,334	0.0007	0.33%	0.14%	4.4	1.9	23%	53%
33	4	1,171	0.0034	0.42%	0.18%	4.9	2.1	81%	187%
34	2	1,005	0.0020	0.51%	0.23%	5.1	2.3	39%	87%
35	2	812	0.0025	0.60%	0.28%	4.9	2.3	41%	87%
36	1	665	0.0015	0.72%	0.34%	4.8	2.3	21%	44%
37	4	508	0.0079	0.85%	0.41%	4.3	2.1	93%	193%
38	1	354	0.0028	0.99%	0.48%	3.5	1.7	29%	59%
39	1	239	0.0042	1.14%	0.56%	2.7	1.3	37%	75%
40	1	132	0.0076	1.30%	0.64%	1.7	0.8	58%	119%
41	0	42	0.0000	1.44%	1.00%	0.6	0.4	0%	0%
42	1	11	0.0909	1.58%	2.00%	0.2	0.2	575%	455%
43	1	7	0.1429	1.72%	3.00%	0.1	0.2	831%	476%
44	0	4	0.0000	1.86%	4.00%	0.1	0.2	0%	0%
45	0	2	0.0000	2.00%	5.00%	0.0	0.1	0%	0%
46	0	1	0.0000	2.30%	6.00%	0.0	0.1	0%	0%
47	0	1	0.0000	2.60%	7.00%	0.0	0.1	0%	0%
48	0	1	0.0000	2.90%	8.00%	0.0	0.1	0%	0%
49	0	1	0.0000	3.20%	9.00%	0.0	0.1	0%	0%
50	0	1	0.0000	3.50%	10.00%	0.0	0.1	0%	0%
51	0	1	0.0000	3.80%	10.00%	0.0	0.1	0%	0%
52	0	0	N/A	4.10%	10.00%	0	0	0%	0%
53	0	0	N/A	4.40%	10.00%	0	0	0%	0%
54	0	0	N/A	4.70%	10.00%	0	0	0%	0%
55	0	1	0.0000	5.00%	10.00%	0.1	0.1	0%	0%
56	0	2	0.0000	7.00%	10.00%	0.1	0.2	0%	0%
57	0	2	0.0000	9.00%	10.00%	0.2	0.2	0%	0%
58	0	2	0.0000	11.00%	10.00%	0.2	0.2	0%	0%
59	0	1	0.0000	13.00%	10.00%	0.1	0.1	0%	0%
60	0	0	N/A	15.00%	10.00%	0	0	0%	0%
61	0	0	N/A	17.00%	10.00%	0	0	0%	0%
62	0	0	N/A	19.00%	10.00%	0	0	0%	0%
63	0	0	N/A	19.00%	10.00%	0	0	0%	0%
64	0	0	N/A	19.00%	10.00%	0	0	0%	0%
65	0	0	N/A	19.00%	10.00%	0	0	0%	0%
66	0	0	N/A	19.00%	10.00%	0	0	0%	0%
67	0	0	N/A	19.00%	10.00%	0	0	0%	0%
68	0	0	N/A	19.00%	10.00%	0	0	0%	0%
69	0	0	N/A	19.00%	10.00%	0	0	0%	0%
70	0	0	N/A	19.00%	10.00%	0	0	0%	0%
71	0	0	N/A	19.00%	10.00%	0	0	0%	0%
72	0	0	N/A	19.00%	10.00%	0	0	0%	0%
73	0	0	N/A	19.00%	10.00%	0	0	0%	0%
74	0	0	N/A	19.00%	10.00%	0	0	0%	0%
<b>Total</b>	<b>25</b>	<b>15,742</b>				<b>47.8</b>	<b>24.1</b>	<b>52%</b>	<b>104%</b>



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B GROUPED**

**4-YEAR PERIOD ENDING 6/30/2011**

<u>Age</u> (1)	<u>Actual</u> (2)	<u>Total Exposed</u> (3)	<u>Actual Rate</u> (2) / (3) (4)	<u>Assumed Probability</u>		<u>Expected Disabilities</u>		<u>Actual/Expected</u>	
				<u>Expected</u> (7) / (3) (5)	<u>Proposed</u> (8) / (3) (6)	<u>Expected</u> (7)	<u>Proposed</u> (8)	<u>Expected</u> (2) / (7) (9)	<u>Proposed</u> (2) / (8) (10)
20-24	0	676	0.0000	0.03%	0.02%	0.2	0.1	0%	0%
25-29	2	5,853	0.0003	0.06%	0.04%	3.6	2.1	55%	97%
30-34	11	6,423	0.0017	0.31%	0.14%	20.1	9.0	55%	122%
35-39	9	2,578	0.0035	0.78%	0.37%	20.2	9.7	45%	93%
40-44	3	196	0.0153	1.37%	0.94%	2.7	1.9	112%	162%
45-49	0	6	0.0000	2.50%	6.67%	0.2	0.4	0%	0%
50-54	0	2	0.0000	3.65%	10.00%	0.1	0.2	0%	0%
55-59	0	8	0.0000	9.00%	10.00%	0.7	0.8	0%	0%
60-64	0	0	N/A			0	0	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>25</b>	<b>15,742</b>				<b>47.8</b>	<b>24.1</b>	<b>52%</b>	<b>104%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B**

**8-YEAR PERIOD ENDING 6/30/2011**

Age (1)	Actual (2)	Total Exposed (3)	Actual Rate (2) / (3) (4)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (5)	Proposed (6)	Expected (3) x (5) (7)	Proposed (3) x (6) (8)	Expected (2) / (7) (9)	Proposed (2) / (8) (10)
20	0	4	0.0000	0.03%	0.02%	0.0	0.0	0%	0%
21	0	34	0.0000	0.03%	0.02%	0.0	0.0	0%	0%
22	0	178	0.0000	0.03%	0.02%	0.1	0.0	0%	0%
23	0	485	0.0000	0.03%	0.02%	0.1	0.1	0%	0%
24	0	943	0.0000	0.03%	0.02%	0.3	0.2	0%	0%
25	0	1,397	0.0000	0.03%	0.02%	0.4	0.3	0%	0%
26	0	1,805	0.0000	0.04%	0.02%	0.7	0.4	0%	0%
27	2	2,055	0.0010	0.05%	0.03%	1.0	0.6	195%	360%
28	0	2,173	0.0000	0.07%	0.04%	1.5	0.8	0%	0%
29	0	2,168	0.0000	0.10%	0.06%	2.2	1.2	0%	0%
30	2	2,140	0.0009	0.15%	0.08%	3.2	1.7	62%	120%
31	2	2,062	0.0010	0.24%	0.11%	4.9	2.2	40%	91%
32	2	1,876	0.0011	0.33%	0.14%	6.2	2.7	32%	75%
33	5	1,621	0.0031	0.42%	0.18%	6.8	3.0	73%	169%
34	2	1,356	0.0015	0.51%	0.23%	6.9	3.1	29%	64%
35	2	1,054	0.0019	0.60%	0.28%	6.3	3.0	32%	67%
36	1	804	0.0012	0.72%	0.34%	5.8	2.7	17%	36%
37	4	558	0.0072	0.85%	0.41%	4.7	2.3	84%	176%
38	1	371	0.0027	0.99%	0.48%	3.7	1.8	27%	56%
39	1	251	0.0040	1.14%	0.56%	2.9	1.4	35%	72%
40	1	141	0.0071	1.30%	0.64%	1.8	0.9	55%	111%
41	0	50	0.0000	1.44%	1.00%	0.7	0.5	0%	0%
42	1	19	0.0526	1.58%	2.00%	0.3	0.4	333%	263%
43	1	13	0.0769	1.72%	3.00%	0.2	0.4	447%	256%
44	0	7	0.0000	1.86%	4.00%	0.1	0.3	0%	0%
45	0	9	0.0000	2.00%	5.00%	0.2	0.5	0%	0%
46	1	10	0.1000	2.30%	6.00%	0.2	0.6	435%	167%
47	0	5	0.0000	2.60%	7.00%	0.1	0.4	0%	0%
48	0	5	0.0000	2.90%	8.00%	0.1	0.4	0%	0%
49	0	6	0.0000	3.20%	9.00%	0.2	0.5	0%	0%
50	0	6	0.0000	3.50%	10.00%	0.2	0.6	0%	0%
51	0	6	0.0000	3.80%	10.00%	0.2	0.6	0%	0%
52	1	6	0.1667	4.10%	10.00%	0.2	0.6	407%	167%
53	0	5	0.0000	4.40%	10.00%	0.2	0.5	0%	0%
54	0	3	0.0000	4.70%	10.00%	0.1	0.3	0%	0%
55	0	6	0.0000	5.00%	10.00%	0.3	0.6	0%	0%
56	0	4	0.0000	7.00%	10.00%	0.3	0.4	0%	0%
57	0	3	0.0000	9.00%	10.00%	0.3	0.3	0%	0%
58	0	2	0.0000	11.00%	10.00%	0.2	0.2	0%	0%
59	0	1	0.0000	13.00%	10.00%	0.1	0.1	0%	0%
60	0	1	0.0000	15.00%	10.00%	0.2	0.1	0%	0%
61	0	1	0.0000	17.00%	10.00%	0.2	0.1	0%	0%
62	0	1	0.0000	19.00%	10.00%	0.2	0.1	0%	0%
63	0	0	N/A	19.00%	10.00%	0	0	0%	0%
64	0	0	N/A	19.00%	10.00%	0	0	0%	0%
65	0	0	N/A	19.00%	10.00%	0	0	0%	0%
66	0	0	N/A	19.00%	10.00%	0	0	0%	0%
67	0	0	N/A	19.00%	10.00%	0	0	0%	0%
68	0	0	N/A	19.00%	10.00%	0	0	0%	0%
69	0	0	N/A	19.00%	10.00%	0	0	0%	0%
70	0	0	N/A	19.00%	10.00%	0	0	0%	0%
71	0	0	N/A	19.00%	10.00%	0	0	0%	0%
72	0	0	N/A	19.00%	10.00%	0	0	0%	0%
73	0	0	N/A	19.00%	10.00%	0	0	0%	0%
74	0	0	N/A	19.00%	10.00%	0	0	0%	0%
<b>Total</b>	<b>29</b>	<b>23,645</b>				<b>64.7</b>	<b>36.7</b>	<b>45%</b>	<b>79%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN NOT ELIGIBLE FOR WTC BENEFITS**

**TABLE 8B GROUPED**

**8-YEAR PERIOD ENDING 6/30/2011**

Age	Actual	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Disabilities		Actual/Expected	
				Expected (7) / (3)	Proposed (8) / (3)	Expected	Proposed	Expected (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
20-24	0	1,644	0.0000	0.03%	0.02%	0.5	0.3	0%	0%
25-29	2	9,598	0.0002	0.06%	0.03%	5.9	3.3	34%	60%
30-34	13	9,055	0.0014	0.31%	0.14%	28.1	12.6	46%	103%
35-39	9	3,038	0.0030	0.77%	0.37%	23.4	11.2	38%	81%
40-44	3	230	0.0130	1.39%	1.07%	3.2	2.4	94%	122%
45-49	1	35	0.0286	2.51%	6.69%	0.9	2.3	114%	43%
50-54	1	26	0.0385	4.02%	10.00%	1.0	2.6	96%	38%
55-59	0	16	0.0000	7.50%	10.00%	1.2	1.6	0%	0%
60-64	0	3	0.0000	17.00%	10.00%	0.5	0.3	0%	0%
65-69	0	0	N/A			0	0	0%	0%
70-74	0	0	N/A			0	0	0%	0%
<b>Total</b>	<b>29</b>	<b>23,645</b>				<b>64.7</b>	<b>36.7</b>	<b>45%</b>	<b>79%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
ACCIDENTAL DISABILITY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 8C Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013				
		Actual Disabilities	Expected Disabilities	Actual / Expected	Disability Rate	
					Actual (3) / (2)	Expected (4) / (2)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2004	10,892	365	237.2	154%	3.35%	2.18%
2005	11,316	439	239.3	183%	3.88%	2.11%
2006	11,479	405	239.9	169%	3.53%	2.09%
2007	11,607	416	243.1	171%	3.58%	2.09%
2008	11,518	378	244.9	154%	3.28%	2.13%
2009	11,574	329	252.0	131%	2.84%	2.18%
2010	11,445	321	259.5	124%	2.80%	2.27%
2011	11,058	323	267.9	121%	2.92%	2.42%
2012	10,620	314	273.8	115%	2.96%	2.58%
2013	10,240	266	285.9	93%	2.60%	2.79%
Total	111,749	3,556	2543.5	140%	3.18%	2.28%

\*The total exposures and actuals shown above include experience at all age ranges. I.e. ages under 20 and over 75.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 9A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	19	\$ 741,706	\$ 927,931	\$ 801,042	314%	25.11%	8.00%
1	433	17,730,643	22,027,885	19,858,320	202%	24.24%	12.00%
2	901	42,080,257	51,015,018	47,550,690	163%	21.23%	13.00%
3	1,415	77,803,879	91,308,505	87,918,383	134%	17.36%	13.00%
4	2,123	134,681,642	178,508,695	200,675,647	66%	32.54%	49.00%
5	2,486	202,602,306	241,388,905	210,706,398	479%	19.14%	4.00%
6	2,655	245,966,360	261,093,652	256,050,981	150%	6.15%	4.10%
7	2,792	262,944,283	277,675,783	273,987,943	133%	5.60%	4.20%
8	2,665	256,184,253	268,325,652	267,200,176	110%	4.74%	4.30%
9	2,350	230,358,307	240,683,337	243,488,730	600%	4.48%	5.70%
10	2,153	211,609,333	223,268,573	221,131,753	122%	5.51%	4.50%
11	1,920	190,692,462	201,209,834	199,464,315	120%	5.52%	4.60%
12	1,701	171,847,073	179,941,814	179,923,885	100%	4.71%	4.70%
13	1,652	169,429,864	177,365,276	177,562,497	98%	4.68%	4.80%
14	1,526	158,095,580	168,134,728	167,739,410	104%	6.35%	6.10%
15	1,405	148,698,267	157,888,266	156,133,180	124%	6.18%	5.00%
16	1,449	156,691,179	165,144,875	164,369,047	110%	5.40%	4.90%
17	1,195	132,799,123	139,207,630	139,173,481	101%	4.83%	4.80%
18	1,149	127,768,884	135,280,467	133,774,022	125%	5.88%	4.70%
19	1,234	138,208,853	148,909,921	146,224,966	133%	7.74%	5.80%
20	993	115,111,242	121,762,016	120,291,248	128%	5.78%	4.50%
21	965	114,550,101	118,298,387	119,590,305	74%	3.27%	4.40%
22	826	97,526,714	100,924,712	101,720,363	81%	3.48%	4.30%
23	661	76,806,615	80,619,563	80,032,493	118%	4.96%	4.20%
24	649	76,744,898	80,763,880	79,891,439	128%	5.24%	4.10%
25	674	80,771,129	84,477,424	84,001,974	115%	4.59%	4.00%
26	664	80,489,115	83,697,092	83,628,190	102%	3.99%	3.90%
27	627	76,305,957	78,955,335	79,205,583	91%	3.47%	3.80%
28	610	74,586,578	77,836,868	77,346,281	118%	4.36%	3.70%
29	463	59,473,504	59,943,818	61,614,550	22%	0.79%	3.60%
30+	1,481	203,782,580	208,921,071	210,914,970	72%	2.52%	3.50%
Total	41,836	4,133,082,687	4,425,506,913	4,391,972,266	113%	7.08%	6.26%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 9A

4-YEAR PERIOD ENDING 6/30/2013

Service	Life Years Exposed	Total Salary BOY	Actual Salary EOY	Proposed Salary EOY	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	19	\$ 741,706	\$ 927,931	\$ 838,128	193%	25.11%	13.00%
1	433	17,730,643	22,027,885	19,858,320	202%	24.24%	12.00%
2	901	42,080,257	51,015,018	47,129,888	177%	21.23%	12.00%
3	1,415	77,803,879	91,308,505	87,140,344	145%	17.36%	12.00%
4	2,123	134,681,642	178,508,695	179,126,584	99%	32.54%	33.00%
5	2,486	202,602,306	241,388,905	211,719,410	425%	19.14%	4.50%
6	2,655	245,966,360	261,093,652	257,034,846	137%	6.15%	4.50%
7	2,792	262,944,283	277,675,783	274,776,776	125%	5.60%	4.50%
8	2,665	256,184,253	268,325,652	267,712,544	105%	4.74%	4.50%
9	2,350	230,358,307	240,683,337	243,028,014	81%	4.48%	5.50%
10	2,153	211,609,333	223,268,573	222,189,800	110%	5.51%	5.00%
11	1,920	190,692,462	201,209,834	200,227,085	110%	5.52%	5.00%
12	1,701	171,847,073	179,941,814	180,439,427	94%	4.71%	5.00%
13	1,652	169,429,864	177,365,276	177,901,357	94%	4.68%	5.00%
14	1,526	158,095,580	168,134,728	167,581,315	106%	6.35%	6.00%
15	1,405	148,698,267	157,888,266	156,133,180	124%	6.18%	5.00%
16	1,449	156,691,179	165,144,875	164,525,738	108%	5.40%	5.00%
17	1,195	132,799,123	139,207,630	139,439,079	97%	4.83%	5.00%
18	1,149	127,768,884	135,280,467	134,157,328	118%	5.88%	5.00%
19	1,234	138,208,853	148,909,921	147,883,473	111%	7.74%	7.00%
20	993	115,111,242	121,762,016	120,866,804	116%	5.78%	5.00%
21	965	114,550,101	118,298,387	120,277,606	65%	3.27%	5.00%
22	826	97,526,714	100,924,712	102,403,050	70%	3.48%	5.00%
23	661	76,806,615	80,619,563	80,646,946	99%	4.96%	5.00%
24	649	76,744,898	80,763,880	80,965,867	95%	5.24%	5.50%
25	674	80,771,129	84,477,424	84,809,685	92%	4.59%	5.00%
26	664	80,489,115	83,697,092	84,513,571	80%	3.99%	5.00%
27	627	76,305,957	78,955,335	79,358,195	87%	3.47%	4.00%
28	610	74,586,578	77,836,868	77,570,041	109%	4.36%	4.00%
29	463	59,473,504	59,943,818	61,852,444	20%	0.79%	4.00%
30+	1,481	203,782,580	208,921,071	210,914,970	72%	2.52%	3.50%
Total	41,836	4,133,082,687	4,425,506,913	4,383,021,816	117%	7.08%	6.05%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Total Salary BOY	Estimated Actual Merit Salary EOY	Expected Merit Salary EOY	Actual / Expected	Increase %	
						Actual %	Expected %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	19	\$ 741,706	\$ 909,228	\$ 778,791	452%	22.59%	5.00%
1	433	17,730,643	21,580,797	19,326,401	241%	21.71%	9.00%
2	901	42,080,257	49,953,941	46,288,283	187%	18.71%	10.00%
3	1,415	77,803,879	89,346,637	85,584,267	148%	14.84%	10.00%
4	2,123	134,681,642	175,112,623	196,635,197	65%	30.02%	46.00%
5	2,486	202,602,306	236,280,175	204,628,329	1662%	16.62%	1.00%
6	2,655	245,966,360	254,891,474	248,671,990	330%	3.63%	1.10%
7	2,792	262,944,283	271,045,497	266,099,614	257%	3.08%	1.20%
8	2,665	256,184,253	261,865,824	259,514,648	171%	2.22%	1.30%
9	2,350	230,358,307	234,874,724	236,577,981	73%	1.96%	2.70%
10	2,153	211,609,333	217,932,726	214,783,473	199%	2.99%	1.50%
11	1,920	190,692,462	196,401,418	193,743,541	187%	2.99%	1.60%
12	1,701	171,847,073	175,608,595	174,768,473	129%	2.19%	1.70%
13	1,652	169,429,864	173,093,008	172,479,602	120%	2.16%	1.80%
14	1,526	158,095,580	164,148,260	162,996,543	123%	3.83%	3.10%
15	1,405	148,698,267	154,138,757	151,672,232	183%	3.66%	2.00%
16	1,449	156,691,179	161,193,820	159,668,311	151%	2.87%	1.90%
17	1,195	132,799,123	135,859,026	135,189,507	128%	2.30%	1.80%
18	1,149	127,768,884	132,058,704	129,940,955	197%	3.36%	1.70%
19	1,234	138,208,853	145,424,908	142,078,701	186%	5.22%	2.80%
20	993	115,111,242	118,859,422	116,837,911	217%	3.26%	1.50%
21	965	114,550,101	115,409,943	116,153,802	54%	0.75%	1.40%
22	826	97,526,714	98,465,522	98,794,561	74%	0.96%	1.30%
23	661	76,806,615	78,682,842	77,728,294	204%	2.44%	1.20%
24	649	76,744,898	78,828,715	77,589,092	247%	2.72%	1.10%
25	674	80,771,129	82,440,735	81,578,840	207%	2.07%	1.00%
26	664	80,489,115	81,667,514	81,213,517	163%	1.46%	0.90%
27	627	76,305,957	77,031,238	76,916,405	119%	0.95%	0.80%
28	610	74,586,578	75,956,126	75,108,684	262%	1.84%	0.70%
29	463	59,473,504	58,444,161	59,830,345	-288%	-1.73%	0.60%
30+	1,481	203,782,580	203,782,580	204,801,493		0.00%	0.50%
Total	41,836	4,133,082,687	4,321,288,936	4,267,979,786	140%	4.55%	3.26%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.00%. Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	19	\$ 741,706	\$ 909,228	\$ 815,877	226%	22.59%	10.00%
1	433	17,730,643	21,580,797	19,326,401	241%	21.71%	9.00%
2	901	42,080,257	49,953,941	45,867,480	208%	18.71%	9.00%
3	1,415	77,803,879	89,346,637	84,806,228	165%	14.84%	9.00%
4	2,123	134,681,642	175,112,623	175,086,135	100%	30.02%	30.00%
5	2,486	202,602,306	236,280,175	205,641,341	1108%	16.62%	1.50%
6	2,655	245,966,360	254,891,474	249,655,855	242%	3.63%	1.50%
7	2,792	262,944,283	271,045,497	266,888,447	205%	3.08%	1.50%
8	2,665	256,184,253	261,865,824	260,027,017	148%	2.22%	1.50%
9	2,350	230,358,307	234,874,724	236,117,265	78%	1.96%	2.50%
10	2,153	211,609,333	217,932,726	215,841,520	149%	2.99%	2.00%
11	1,920	190,692,462	196,401,418	194,506,311	150%	2.99%	2.00%
12	1,701	171,847,073	175,608,595	175,284,014	109%	2.19%	2.00%
13	1,652	169,429,864	173,093,008	172,818,461	108%	2.16%	2.00%
14	1,526	158,095,580	164,148,260	162,838,447	128%	3.83%	3.00%
15	1,405	148,698,267	154,138,757	151,672,232	183%	3.66%	2.00%
16	1,449	156,691,179	161,193,820	159,825,003	144%	2.87%	2.00%
17	1,195	132,799,123	135,859,026	135,455,105	115%	2.30%	2.00%
18	1,149	127,768,884	132,058,704	130,324,262	168%	3.36%	2.00%
19	1,234	138,208,853	145,424,908	143,737,207	131%	5.22%	4.00%
20	993	115,111,242	118,859,422	117,413,467	163%	3.26%	2.00%
21	965	114,550,101	115,409,943	116,841,103	38%	0.75%	2.00%
22	826	97,526,714	98,465,522	99,477,248	48%	0.96%	2.00%
23	661	76,806,615	78,682,842	78,342,747	122%	2.44%	2.00%
24	649	76,744,898	78,828,715	78,663,520	109%	2.72%	2.50%
25	674	80,771,129	82,440,735	82,386,552	103%	2.07%	2.00%
26	664	80,489,115	81,667,514	82,098,897	73%	1.46%	2.00%
27	627	76,305,957	77,031,238	77,069,017	95%	0.95%	1.00%
28	610	74,586,578	75,956,126	75,332,444	184%	1.84%	1.00%
29	463	59,473,504	58,444,161	60,068,239	-173%	-1.73%	1.00%
30+	1,481	203,782,580	203,782,580	204,801,493		0.00%	0.50%
Total	41,836	4,133,082,687	4,321,288,936	4,259,029,335	149%	4.55%	3.05%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

TABLE 9A

10-YEAR PERIOD ENDING 6/30/2013

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Actual Salary EOY (4)	Expected Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	2,409	\$ 95,355,662	\$ 114,971,563	\$ 102,984,115	257%	20.57%	8.00%
1	4,519	199,137,448	224,533,973	223,033,942	106%	12.75%	12.00%
2	4,920	239,404,557	268,614,320	270,527,149	94%	12.20%	13.00%
3	5,248	282,550,902	315,506,283	319,282,519	90%	11.66%	13.00%
4	5,787	340,093,274	427,268,667	506,738,978	52%	25.63%	49.00%
5	5,919	423,034,669	501,875,273	439,956,056	466%	18.64%	4.00%
6	5,656	462,307,967	490,124,012	481,262,594	147%	6.02%	4.10%
7	5,441	453,996,251	479,865,859	473,064,094	136%	5.70%	4.20%
8	5,233	440,264,689	464,835,286	459,196,071	130%	5.58%	4.30%
9	4,991	423,414,287	447,235,696	447,548,901	99%	5.63%	5.70%
10	4,637	396,185,507	420,322,551	414,013,855	135%	6.09%	4.50%
11	4,111	357,443,494	377,649,834	373,885,895	123%	5.65%	4.60%
12	3,885	339,796,267	358,950,614	355,766,692	120%	5.64%	4.70%
13	3,987	349,683,596	369,617,760	366,468,409	119%	5.70%	4.80%
14	3,695	327,581,420	349,260,426	347,563,887	108%	6.62%	6.10%
15	3,399	308,563,194	327,397,685	323,991,354	122%	6.10%	5.00%
16	3,319	307,939,877	325,163,885	323,028,931	114%	5.59%	4.90%
17	3,207	297,581,426	315,069,662	311,865,334	122%	5.88%	4.80%
18	3,165	294,026,446	311,598,187	307,845,689	127%	5.98%	4.70%
19	3,019	283,830,547	303,673,546	300,292,719	121%	6.99%	5.80%
20	2,597	248,912,946	264,705,460	260,114,029	141%	6.34%	4.50%
21	2,569	252,143,124	263,802,717	263,237,421	105%	4.62%	4.40%
22	2,455	240,450,271	252,489,583	250,789,633	116%	5.01%	4.30%
23	2,035	202,745,333	212,809,139	211,260,637	118%	4.96%	4.20%
24	1,941	198,130,621	209,073,516	206,253,976	135%	5.52%	4.10%
25	1,787	188,962,226	198,584,505	196,520,715	127%	5.09%	4.00%
26	1,576	173,207,651	181,060,536	179,962,749	116%	4.53%	3.90%
27	1,301	147,932,822	152,928,498	153,554,269	89%	3.38%	3.80%
28	1,025	119,797,996	124,765,913	124,230,522	112%	4.15%	3.70%
29	814	97,993,006	100,220,637	101,520,754	63%	2.27%	3.60%
30+	2,428	311,734,897	321,409,494	322,645,618	89%	3.10%	3.50%
Total	107,075	8,804,202,373	9,475,385,080	9,418,407,506	109%	7.62%	6.98%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9A**

**10-YEAR PERIOD ENDING 6/30/2013**

<u>Service</u>	<u>Life Years Exposed</u>	<u>Total Salary BOY</u>	<u>Actual Salary EOY</u>	<u>Proposed Salary EOY</u>	<u>Actual / Proposed</u>	<u>Increase %</u>	
						<u>Actual %</u>	<u>Proposed %</u>
<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>
0	2,409	\$ 95,355,662	\$ 114,971,563	\$ 107,751,898	158%	20.57%	13.00%
1	4,519	199,137,448	224,533,973	223,033,942	106%	12.75%	12.00%
2	4,920	239,404,557	268,614,320	268,133,104	102%	12.20%	12.00%
3	5,248	282,550,902	315,506,283	316,457,010	97%	11.66%	12.00%
4	5,787	340,093,274	427,268,667	452,324,054	78%	25.63%	33.00%
5	5,919	423,034,669	501,875,273	442,071,229	414%	18.64%	4.50%
6	5,656	462,307,967	490,124,012	483,111,826	134%	6.02%	4.50%
7	5,441	453,996,251	479,865,859	474,426,082	127%	5.70%	4.50%
8	5,233	440,264,689	464,835,286	460,076,600	124%	5.58%	4.50%
9	4,991	423,414,287	447,235,696	446,702,073	102%	5.63%	5.50%
10	4,637	396,185,507	420,322,551	415,994,782	122%	6.09%	5.00%
11	4,111	357,443,494	377,649,834	375,315,669	113%	5.65%	5.00%
12	3,885	339,796,267	358,950,614	356,786,080	113%	5.64%	5.00%
13	3,987	349,683,596	369,617,760	367,167,776	114%	5.70%	5.00%
14	3,695	327,581,420	349,260,426	347,236,305	110%	6.62%	6.00%
15	3,399	308,563,194	327,397,685	323,991,354	122%	6.10%	5.00%
16	3,319	307,939,877	325,163,885	323,336,871	112%	5.59%	5.00%
17	3,207	297,581,426	315,069,662	312,460,497	118%	5.88%	5.00%
18	3,165	294,026,446	311,598,187	308,727,768	120%	5.98%	5.00%
19	3,019	283,830,547	303,673,546	303,698,685	100%	6.99%	7.00%
20	2,597	248,912,946	264,705,460	261,358,593	127%	6.34%	5.00%
21	2,569	252,143,124	263,802,717	264,750,280	92%	4.62%	5.00%
22	2,455	240,450,271	252,489,583	252,472,785	100%	5.01%	5.00%
23	2,035	202,745,333	212,809,139	212,882,600	99%	4.96%	5.00%
24	1,941	198,130,621	209,073,516	209,027,805	100%	5.52%	5.50%
25	1,787	188,962,226	198,584,505	198,410,337	102%	5.09%	5.00%
26	1,576	173,207,651	181,060,536	181,868,034	91%	4.53%	5.00%
27	1,301	147,932,822	152,928,498	153,850,135	84%	3.38%	4.00%
28	1,025	119,797,996	124,765,913	124,589,916	104%	4.15%	4.00%
29	814	97,993,006	100,220,637	101,912,726	57%	2.27%	4.00%
30+	2,428	311,734,897	321,409,494	322,645,618	89%	3.10%	3.50%
Total	107,075	8,804,202,373	9,475,385,080	9,392,572,435	114%	7.62%	6.68%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Expected Merit Salary EOY (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	2,409	\$ 95,355,662	\$ 112,012,229	\$ 100,123,445	349%	17.47%	5.00%
1	4,519	199,137,448	218,353,803	217,059,818	107%	9.65%	9.00%
2	4,920	239,404,557	261,184,473	263,345,013	91%	9.10%	10.00%
3	5,248	282,550,902	306,737,402	310,805,992	86%	8.56%	10.00%
4	5,787	340,093,274	416,713,976	496,536,180	49%	22.53%	46.00%
5	5,919	423,034,669	488,746,522	427,265,016	1553%	15.53%	1.00%
6	5,656	462,307,967	475,776,426	467,393,355	265%	2.91%	1.10%
7	5,441	453,996,251	465,776,224	459,444,206	216%	2.59%	1.20%
8	5,233	440,264,689	451,171,806	445,988,130	191%	2.48%	1.30%
9	4,991	423,414,287	434,095,163	434,846,473	93%	2.52%	2.70%
10	4,637	396,185,507	408,027,055	402,128,290	199%	2.99%	1.50%
11	4,111	357,443,494	366,556,685	363,162,590	159%	2.55%	1.60%
12	3,885	339,796,267	348,405,141	345,572,804	149%	2.53%	1.70%
13	3,987	349,683,596	358,765,437	355,977,901	144%	2.60%	1.80%
14	3,695	327,581,420	339,094,037	337,736,444	113%	3.51%	3.10%
15	3,399	308,563,194	317,821,521	314,734,458	150%	3.00%	2.00%
16	3,319	307,939,877	315,607,065	313,790,735	131%	2.49%	1.90%
17	3,207	297,581,426	305,834,314	302,937,892	154%	2.77%	1.80%
18	3,165	294,026,446	302,473,166	299,024,896	169%	2.87%	1.70%
19	3,019	283,830,547	294,864,952	291,777,802	139%	3.89%	2.80%
20	2,597	248,912,946	256,980,523	252,646,640	216%	3.24%	1.50%
21	2,569	252,143,124	255,977,532	255,673,128	109%	1.52%	1.40%
22	2,455	240,450,271	245,027,283	243,576,125	146%	1.90%	1.30%
23	2,035	202,745,333	206,517,000	205,178,277	155%	1.86%	1.20%
24	1,941	198,130,621	202,924,593	200,310,058	220%	2.42%	1.10%
25	1,787	188,962,226	192,720,120	190,851,848	199%	1.99%	1.00%
26	1,576	173,207,651	175,685,090	174,766,520	159%	1.43%	0.90%
27	1,301	147,932,822	148,337,448	149,116,285	34%	0.27%	0.80%
28	1,025	119,797,996	121,048,019	120,636,582	149%	1.04%	0.70%
29	814	97,993,006	97,179,454	98,580,964	-138%	-0.83%	0.60%
30+	2,428	311,734,897	311,734,897	313,293,571		0.00%	0.50%
Total	107,075	8,804,202,373	9,202,149,357	9,154,281,435	114%	4.52%	3.98%

The rates for expected merit salary increases are based on actual rates of increase for total salary, adjusted for inflation of 2.43%.  
Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
MERIT SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

**TABLE 9B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Total Salary BOY (3)	Estimated Actual Merit Salary EOY (4)	Proposed Merit Salary EOY (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	2,409	\$ 95,355,662	\$ 112,012,229	\$ 104,891,228	175%	17.47%	10.00%
1	4,519	199,137,448	218,353,803	217,059,818	107%	9.65%	9.00%
2	4,920	239,404,557	261,184,473	260,950,967	101%	9.10%	9.00%
3	5,248	282,550,902	306,737,402	307,980,483	95%	8.56%	9.00%
4	5,787	340,093,274	416,713,976	442,121,256	75%	22.53%	30.00%
5	5,919	423,034,669	488,746,522	429,380,189	1036%	15.53%	1.50%
6	5,656	462,307,967	475,776,426	469,242,587	194%	2.91%	1.50%
7	5,441	453,996,251	465,776,224	460,806,195	173%	2.59%	1.50%
8	5,233	440,264,689	451,171,806	446,868,659	165%	2.48%	1.50%
9	4,991	423,414,287	434,095,163	433,999,644	101%	2.52%	2.50%
10	4,637	396,185,507	408,027,055	404,109,217	149%	2.99%	2.00%
11	4,111	357,443,494	366,556,685	364,592,364	127%	2.55%	2.00%
12	3,885	339,796,267	348,405,141	346,592,192	127%	2.53%	2.00%
13	3,987	349,683,596	358,765,437	356,677,268	130%	2.60%	2.00%
14	3,695	327,581,420	339,094,037	337,408,863	117%	3.51%	3.00%
15	3,399	308,563,194	317,821,521	314,734,458	150%	3.00%	2.00%
16	3,319	307,939,877	315,607,065	314,098,675	124%	2.49%	2.00%
17	3,207	297,581,426	305,834,314	303,533,055	139%	2.77%	2.00%
18	3,165	294,026,446	302,473,166	299,906,975	144%	2.87%	2.00%
19	3,019	283,830,547	294,864,952	295,183,769	97%	3.89%	4.00%
20	2,597	248,912,946	256,980,523	253,891,205	162%	3.24%	2.00%
21	2,569	252,143,124	255,977,532	257,185,986	76%	1.52%	2.00%
22	2,455	240,450,271	245,027,283	245,259,276	95%	1.90%	2.00%
23	2,035	202,745,333	206,517,000	206,800,240	93%	1.86%	2.00%
24	1,941	198,130,621	202,924,593	203,083,887	97%	2.42%	2.50%
25	1,787	188,962,226	192,720,120	192,741,471	99%	1.99%	2.00%
26	1,576	173,207,651	175,685,090	176,671,804	72%	1.43%	2.00%
27	1,301	147,932,822	148,337,448	149,412,150	27%	0.27%	1.00%
28	1,025	119,797,996	121,048,019	120,995,976	104%	1.04%	1.00%
29	814	97,993,006	97,179,454	98,972,936	-83%	-0.83%	1.00%
30+	2,428	311,734,897	311,734,897	313,293,571		0.00%	0.50%
Total	107,075	8,804,202,373	9,202,149,357	9,128,446,364	123%	4.52%	3.68%

Actual Merit Salary EOY was estimated using Total Salary BOY and expected merit increase rates.

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
TOTAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30,	TABLE 9C Life Years Exposed	10-YEAR PERIOD ENDING 6/30/2013					
		Total Salary BOY	Actual Salary EOY	Expected Salary EOY	Actual / Expected	Increase %	
						(4) / (3)	Expected (5) / (3)
(1)	(2)	(3)	(4)	(5)	(5)	(6)	(7)
2004	10,337	\$ 648,662,351	\$ 739,034,389	\$ 696,433,972	189%	13.93%	7.36%
2005	10,716	737,351,429	783,613,041	789,551,869	89%	6.27%	7.08%
2006	10,915	772,031,077	812,221,453	831,118,630	68%	5.21%	7.65%
2007	11,070	791,940,201	844,891,254	854,765,621	84%	6.69%	7.93%
2008	11,039	821,153,226	918,114,578	886,858,722	148%	11.81%	8.00%
2009	11,162	899,981,402	952,003,452	967,706,425	77%	5.78%	7.53%
2010	11,059	926,229,845	1,110,985,559	992,824,568	277%	19.95%	7.19%
2011	10,638	1,063,935,711	1,124,268,241	1,132,456,758	88%	5.67%	6.44%
2012	10,257	1,080,790,750	1,105,143,815	1,146,640,448	37%	2.25%	6.09%
2013	9,882	1,062,126,381	1,085,109,298	1,120,050,492	40%	2.16%	5.45%
Total	107,075	8,804,202,373	9,475,385,080	9,418,407,506	109%	7.62%	6.98%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
CONTRACTUAL AND ACTUAL SALARY EXPERIENCE OF ACTIVE MEMBERS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	Actual Salary Increase (2)	Contracted Salary Increase (3)	10-YEAR PERIOD ENDING 6/30/2013	
			Settled Salary Increase (4)	Total Salary Increase (3) + (4) (5)
2004	10.57%	5.00%	0.00%	5.00%
2005	3.44%	5.00%	0.00%	5.00%
2006	2.83%	3.00%	0.00%	3.00%
2007	1.31%	3.15%	0.00%	3.15%
2008	4.32%	4.00%	0.00%	4.00%
2009	3.61%	4.00%	0.00%	4.00%
2010	17.41%	4.00%	13.10%	17.10%
2011	-1.82%	4.00%	0.00%	4.00%
2012	-0.21%	0.00%	0.00%	0.00%
2013	-0.39%	0.00%	0.00%	0.00%
Average	4.11%			4.53%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	19	\$ 644,962	\$ 59,205	\$ 96,744	61%	9.18%	15.00%
1	433	15,417,950	1,624,503	2,312,693	70%	10.54%	15.00%
2	897	36,439,790	4,757,814	5,465,968	87%	13.06%	15.00%
3	1,410	67,396,469	10,952,481	10,109,470	108%	16.25%	15.00%
4	2,108	116,225,865	20,606,256	17,433,880	118%	17.73%	15.00%
5	2,479	175,620,222	27,692,028	26,343,033	105%	15.77%	15.00%
6	2,648	213,248,883	39,153,345	31,987,332	122%	18.36%	15.00%
7	2,784	227,904,692	44,753,825	34,185,704	131%	19.64%	15.00%
8	2,657	222,079,223	42,612,506	33,311,883	128%	19.19%	15.00%
9	2,338	199,127,574	38,698,891	29,869,136	130%	19.43%	15.00%
10	2,139	182,552,463	36,072,336	27,382,870	132%	19.76%	15.00%
11	1,909	164,641,903	31,407,085	24,696,285	127%	19.08%	15.00%
12	1,692	148,514,454	28,181,014	22,277,168	127%	18.98%	15.00%
13	1,650	147,132,923	28,987,455	22,069,938	131%	19.70%	15.00%
14	1,514	136,313,613	25,742,670	20,447,042	126%	18.88%	15.00%
15	1,396	128,306,001	23,097,995	19,245,900	120%	18.00%	15.00%
16	1,432	134,388,056	25,724,619	20,158,208	128%	19.14%	15.00%
17	1,175	113,110,744	22,062,373	16,966,612	130%	19.51%	15.00%
18	1,122	106,815,216	21,202,878	17,090,434	124%	19.85%	16.00%
19	1,182	111,633,846	22,355,835	18,977,754	118%	20.03%	17.00%
20	931	89,325,906	17,678,389	16,078,663	110%	19.79%	18.00%
21	901	89,266,129	18,842,596	15,175,242	124%	21.11%	17.00%
22	755	74,591,709	16,164,269	11,934,673	135%	21.67%	16.00%
23	606	59,482,154	12,789,765	8,922,323	143%	21.50%	15.00%
24	577	57,521,836	12,145,466	8,053,057	151%	21.11%	14.00%
25	578	58,222,407	12,290,144	7,568,913	162%	21.11%	13.00%
26	555	56,450,026	12,397,306	6,774,003	183%	21.96%	12.00%
27	518	53,109,550	11,452,051	5,842,051	196%	21.56%	11.00%
28	483	49,550,075	10,742,118	4,955,007	217%	21.68%	10.00%
29	351	37,470,253	8,308,118	3,372,323	246%	22.17%	9.00%
30	285	30,081,631	6,728,467	2,406,530	280%	22.37%	8.00%
31	213	23,197,304	5,204,833	1,623,811	321%	22.44%	7.00%
32	136	15,103,072	3,232,049	906,184	357%	21.40%	6.00%
33	99	11,199,447	2,692,368	559,972	481%	24.04%	5.00%
34	50	5,670,931	1,436,128	283,547	506%	25.32%	5.00%
35	23	2,516,833	455,271	125,842	362%	18.09%	5.00%
36	20	2,152,646	352,274	107,632	327%	16.36%	5.00%
37	14	1,580,577	298,240	79,029	377%	18.87%	5.00%
38	12	1,287,275	307,263	64,364	477%	23.87%	5.00%
39	8	840,714	199,913	42,036	476%	23.78%	5.00%
40	5	525,627	70,277	26,281	267%	13.37%	5.00%
41	3	312,065	35,059	15,603	225%	11.23%	5.00%
42	3	288,487	53,273	14,424	369%	18.47%	5.00%
43	1	123,075	9,306	6,154	151%	7.56%	5.00%
44	0	-	-	-	-	-	5.00%
45	0	-	-	-	-	-	5.00%
<b>Total</b>	<b>40,111</b>	<b>3,367,384,575</b>	<b>649,630,057</b>	<b>495,365,721</b>	<b>131%</b>	<b>19.29%</b>	<b>14.71%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	19	\$ 644,962	\$ 59,205	\$ 109,643	54%	9.18%	17.00%
1	433	15,417,950	1,624,503	2,621,052	62%	10.54%	17.00%
2	897	36,439,790	4,757,814	6,194,764	77%	13.06%	17.00%
3	1,410	67,396,469	10,952,481	11,457,400	96%	16.25%	17.00%
4	2,108	116,225,865	20,606,256	19,758,397	104%	17.73%	17.00%
5	2,479	175,620,222	27,692,028	29,855,438	93%	15.77%	17.00%
6	2,648	213,248,883	39,153,345	36,252,310	108%	18.36%	17.00%
7	2,784	227,904,692	44,753,825	38,743,798	116%	19.64%	17.00%
8	2,657	222,079,223	42,612,506	37,753,468	113%	19.19%	17.00%
9	2,338	199,127,574	38,698,891	33,851,688	114%	19.43%	17.00%
10	2,139	182,552,463	36,072,336	31,033,919	116%	19.76%	17.00%
11	1,909	164,641,903	31,407,085	27,989,123	112%	19.08%	17.00%
12	1,692	148,514,454	28,181,014	25,247,457	112%	18.98%	17.00%
13	1,650	147,132,923	28,987,455	25,012,597	116%	19.70%	17.00%
14	1,514	136,313,613	25,742,670	23,173,314	111%	18.88%	17.00%
15	1,396	128,306,001	23,097,995	21,812,020	106%	18.00%	17.00%
16	1,432	134,388,056	25,724,619	22,845,969	113%	19.14%	17.00%
17	1,175	113,110,744	22,062,373	19,228,827	115%	19.51%	17.00%
18	1,122	106,815,216	21,202,878	18,158,587	117%	19.85%	17.00%
19	1,182	111,633,846	22,355,835	18,977,754	118%	20.03%	17.00%
20	931	89,325,906	17,678,389	15,185,404	116%	19.79%	17.00%
21	901	89,266,129	18,842,596	15,175,242	124%	21.11%	17.00%
22	755	74,591,709	16,164,269	12,680,590	127%	21.67%	17.00%
23	606	59,482,154	12,789,765	10,111,966	126%	21.50%	17.00%
24	577	57,521,836	12,145,466	9,778,712	124%	21.11%	17.00%
25	578	58,222,407	12,290,144	9,897,809	124%	21.11%	17.00%
26	555	56,450,026	12,397,306	9,596,504	129%	21.96%	17.00%
27	518	53,109,550	11,452,051	9,028,624	127%	21.56%	17.00%
28	483	49,550,075	10,742,118	8,423,513	128%	21.68%	17.00%
29	351	37,470,253	8,308,118	6,369,943	130%	22.17%	17.00%
30	285	30,081,631	6,728,467	5,113,877	132%	22.37%	17.00%
31	213	23,197,304	5,204,833	3,943,542	132%	22.44%	17.00%
32	136	15,103,072	3,232,049	2,567,522	126%	21.40%	17.00%
33	99	11,199,447	2,692,368	1,903,906	141%	24.04%	17.00%
34	50	5,670,931	1,436,128	964,058	149%	25.32%	17.00%
35	23	2,516,833	455,271	427,862	106%	18.09%	17.00%
36	20	2,152,646	352,274	365,950	96%	16.36%	17.00%
37	14	1,580,577	298,240	268,698	111%	18.87%	17.00%
38	12	1,287,275	307,263	218,837	140%	23.87%	17.00%
39	8	840,714	199,913	142,921	140%	23.78%	17.00%
40	5	525,627	70,277	89,357	79%	13.37%	17.00%
41	3	312,065	35,059	53,051	66%	11.23%	17.00%
42	3	288,487	53,273	49,043	109%	18.47%	17.00%
43	1	123,075	9,306	20,923	44%	7.56%	17.00%
44	0	-	-	-	-	-	17.00%
45	0	-	-	-	-	-	17.00%
Total	40,111	3,367,384,575	649,630,057	572,455,378	113%	19.29%	17.00%



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-	-	0.00%	16.00%
1	0	-	-	-	-	0.00%	16.00%
2	0	-	-	-	-	0.00%	16.00%
3	0	-	-	-	-	0.00%	16.00%
4	0	-	-	-	-	0.00%	16.00%
5	0	-	-	-	-	0.00%	16.00%
6	0	-	-	-	-	0.00%	16.00%
7	0	-	-	-	-	0.00%	16.00%
8	0	-	-	-	-	0.00%	16.00%
9	0	-	-	-	-	0.00%	16.00%
10	0	-	-	-	-	0.00%	16.00%
11	0	-	-	-	-	0.00%	16.00%
12	0	-	-	-	-	0.00%	16.00%
13	0	-	-	-	-	0.00%	16.00%
14	0	-	-	-	-	0.00%	17.00%
15	0	-	-	-	-	0.00%	18.00%
16	0	-	-	-	-	0.00%	19.00%
17	0	-	-	-	-	0.00%	20.00%
18	0	-	-	-	-	0.00%	21.00%
19	0	-	-	-	-	0.00%	22.00%
20	54	\$ 4,405,241	\$ 1,399,162	\$ 1,013,205	138%	31.76%	23.00%
21	15	1,313,246	350,264	288,914	121%	26.67%	22.00%
22	22	2,076,381	630,501	436,040	145%	30.37%	21.00%
23	7	666,678	131,712	133,336	99%	19.76%	20.00%
24	9	806,525	139,287	153,240	91%	17.27%	19.00%
25	21	1,831,175	421,777	329,611	128%	23.03%	18.00%
26	21	1,930,916	433,211	308,947	140%	22.44%	16.00%
27	16	1,574,361	417,511	220,411	189%	26.52%	14.00%
28	16	1,524,292	350,302	182,915	192%	22.98%	12.00%
29	21	2,116,167	508,093	232,778	218%	24.01%	11.00%
30	11	1,064,469	215,801	106,447	203%	20.27%	10.00%
31	19	1,998,100	427,800	179,829	238%	21.41%	9.00%
32	5	543,322	142,143	43,466	327%	26.16%	8.00%
33	11	1,112,192	232,546	77,853	299%	20.91%	7.00%
34	4	398,275	141,471	23,896	592%	35.52%	6.00%
35	5	491,750	91,036	29,505	309%	18.51%	6.00%
36	0	-	-	-	-	0.00%	6.00%
37	2	225,920	30,870	13,555	228%	13.66%	6.00%
38	1	89,817	26,760	5,389	497%	29.79%	6.00%
39	2	249,857	52,933	14,991	353%	21.19%	6.00%
40	1	89,799	24,319	5,388	451%	27.08%	6.00%
41	0	-	-	-	-	0.00%	6.00%
42	0	-	-	-	-	0.00%	6.00%
43	0	-	-	-	-	0.00%	6.00%
44	1	114,386	17,515	6,863	255%	15.31%	6.00%
45	0	-	-	-	-	0.00%	6.00%
Total	264	24,622,867	6,185,014	3,806,580	162%	25.12%	15.46%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 10B**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-	-	0.00%	24.00%
1	0	-	-	-	-	0.00%	24.00%
2	0	-	-	-	-	0.00%	24.00%
3	0	-	-	-	-	0.00%	24.00%
4	0	-	-	-	-	0.00%	24.00%
5	0	-	-	-	-	0.00%	24.00%
6	0	-	-	-	-	0.00%	24.00%
7	0	-	-	-	-	0.00%	24.00%
8	0	-	-	-	-	0.00%	24.00%
9	0	-	-	-	-	0.00%	24.00%
10	0	-	-	-	-	0.00%	24.00%
11	0	-	-	-	-	0.00%	24.00%
12	0	-	-	-	-	0.00%	24.00%
13	0	-	-	-	-	0.00%	24.00%
14	0	-	-	-	-	0.00%	24.00%
15	0	-	-	-	-	0.00%	24.00%
16	0	-	-	-	-	0.00%	24.00%
17	0	-	-	-	-	0.00%	24.00%
18	0	-	-	-	-	0.00%	24.00%
19	0	-	-	-	-	0.00%	24.00%
20	54	\$ 4,405,241	\$ 1,399,162	\$ 1,057,258	132%	31.76%	24.00%
21	15	1,313,246	350,264	315,179	111%	26.67%	24.00%
22	22	2,076,381	630,501	498,331	127%	30.37%	24.00%
23	7	666,678	131,712	160,003	82%	19.76%	24.00%
24	9	806,525	139,287	193,566	72%	17.27%	24.00%
25	21	1,831,175	421,777	439,482	96%	23.03%	24.00%
26	21	1,930,916	433,211	463,420	93%	22.44%	24.00%
27	16	1,574,361	417,511	377,847	110%	26.52%	24.00%
28	16	1,524,292	350,302	365,830	96%	22.98%	24.00%
29	21	2,116,167	508,093	507,880	100%	24.01%	24.00%
30	11	1,064,469	215,801	255,473	84%	20.27%	24.00%
31	19	1,998,100	427,800	479,544	89%	21.41%	24.00%
32	5	543,322	142,143	130,397	109%	26.16%	24.00%
33	11	1,112,192	232,546	266,926	87%	20.91%	24.00%
34	4	398,275	141,471	95,586	148%	35.52%	24.00%
35	5	491,750	91,036	118,020	77%	18.51%	24.00%
36	0	-	-	-	-	0.00%	24.00%
37	2	225,920	30,870	54,221	57%	13.66%	24.00%
38	1	89,817	26,760	21,556	124%	29.79%	24.00%
39	2	249,857	52,933	59,966	88%	21.19%	24.00%
40	1	89,799	24,319	21,552	113%	27.08%	24.00%
41	0	-	-	-	-	0.00%	24.00%
42	0	-	-	-	-	0.00%	24.00%
43	0	-	-	-	-	0.00%	24.00%
44	1	114,386	17,515	27,453	64%	15.31%	24.00%
45	0	-	-	-	-	0.00%	24.00%
Total	264	24,622,867	6,185,014	5,909,488	105%	25.12%	24.00%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 10C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			15.00%
1	0	-	-	-			15.00%
2	0	-	-	-			15.00%
3	0	-	-	-			15.00%
4	0	-	-	-			15.00%
5	4	\$ 231,605	\$ 32,242	\$ 34,741	93%	13.92%	15.00%
6	13	1,029,148	179,382	154,372	116%	17.43%	15.00%
7	18	1,482,527	272,768	222,379	123%	18.40%	15.00%
8	14	1,167,098	210,006	175,065	120%	17.99%	15.00%
9	30	2,520,308	471,441	378,046	125%	18.71%	15.00%
10	38	3,172,885	592,494	475,933	124%	18.67%	15.00%
11	31	2,588,471	538,849	388,271	139%	20.82%	15.00%
12	42	3,671,604	654,349	550,741	119%	17.82%	15.00%
13	56	4,852,357	962,371	727,854	132%	19.83%	15.00%
14	43	3,837,168	746,939	575,575	130%	19.47%	15.00%
15	44	3,778,640	630,229	566,796	111%	16.68%	15.00%
16	62	5,519,317	1,045,430	883,091	118%	18.94%	16.00%
17	50	4,489,174	793,416	763,159	104%	17.67%	17.00%
18	33	2,904,844	617,622	522,872	118%	21.26%	18.00%
19	62	5,231,969	1,120,686	994,074	113%	21.42%	19.00%
20	80	7,119,117	1,643,053	1,423,823	115%	23.08%	20.00%
21	60	5,753,627	1,269,560	1,093,189	116%	22.07%	19.00%
22	63	5,974,391	1,422,128	1,075,390	132%	23.80%	18.00%
23	40	3,782,244	785,197	642,981	122%	20.76%	17.00%
24	42	3,962,248	820,044	633,960	129%	20.70%	16.00%
25	46	4,528,519	1,020,020	679,278	150%	22.52%	15.00%
26	36	3,444,692	797,280	447,810	178%	23.15%	13.00%
27	46	4,734,321	1,053,078	520,775	202%	22.24%	11.00%
28	52	5,246,783	1,082,315	524,678	206%	20.63%	10.00%
29	36	3,821,260	728,188	343,913	212%	19.06%	9.00%
30	32	3,416,479	746,669	273,318	273%	21.85%	8.00%
31	23	2,511,676	495,189	175,817	282%	19.72%	7.00%
32	7	767,732	147,163	46,064	319%	19.17%	6.00%
33	7	756,017	125,018	37,801	331%	16.54%	5.00%
34	6	754,926	163,503	37,746	433%	21.66%	5.00%
35	3	348,096	119,015	17,405	684%	34.19%	5.00%
36	4	517,364	88,110	25,868	341%	17.03%	5.00%
37	2	262,623	22,031	13,131	168%	8.39%	5.00%
38	0	-	-	-			5.00%
39	0	-	-	-			5.00%
40	1	90,626	21,797	4,531	481%	24.05%	5.00%
41	2	280,102	57,124	14,005	408%	20.39%	5.00%
42	1	115,475	33,829	5,774	586%	29.30%	5.00%
43	2	198,366	50,201	9,918	506%	25.31%	5.00%
44	0	-	-	-			5.00%
45	0	-	-	-			5.00%
Total	1,131	104,863,797	21,558,736	15,460,146	139%	20.56%	14.74%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 10C**

**4-YEAR PERIOD ENDING 6/30/2013**

Service	Life Years Exposed	Salary during the Year	Actual Overtime	Proposed Overtime	Actual / Proposed	Increase %	
						Actual %	Proposed %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
0	0	-	-	-			20.00%
1	0	-	-	-			20.00%
2	0	-	-	-			20.00%
3	0	-	-	-			20.00%
4	0	-	-	-			20.00%
5	4	\$ 231,605	\$ 32,242	\$ 46,321	70%	13.92%	20.00%
6	13	1,029,148	179,382	205,830	87%	17.43%	20.00%
7	18	1,482,527	272,768	296,505	92%	18.40%	20.00%
8	14	1,167,098	210,006	233,420	90%	17.99%	20.00%
9	30	2,520,308	471,441	504,062	94%	18.71%	20.00%
10	38	3,172,885	592,494	634,577	93%	18.67%	20.00%
11	31	2,588,471	538,849	517,694	104%	20.82%	20.00%
12	42	3,671,604	654,349	734,321	89%	17.82%	20.00%
13	56	4,852,357	962,371	970,471	99%	19.83%	20.00%
14	43	3,837,168	746,939	767,434	97%	19.47%	20.00%
15	44	3,778,640	630,229	755,728	83%	16.68%	20.00%
16	62	5,519,317	1,045,430	1,103,863	95%	18.94%	20.00%
17	50	4,489,174	793,416	897,835	88%	17.67%	20.00%
18	33	2,904,844	617,622	580,969	106%	21.26%	20.00%
19	62	5,231,969	1,120,686	1,046,394	107%	21.42%	20.00%
20	80	7,119,117	1,643,053	1,423,823	115%	23.08%	20.00%
21	60	5,753,627	1,269,560	1,150,725	110%	22.07%	20.00%
22	63	5,974,391	1,422,128	1,194,878	119%	23.80%	20.00%
23	40	3,782,244	785,197	756,449	104%	20.76%	20.00%
24	42	3,962,248	820,044	792,450	103%	20.70%	20.00%
25	46	4,528,519	1,020,020	905,704	113%	22.52%	20.00%
26	36	3,444,692	797,280	688,938	116%	23.15%	20.00%
27	46	4,734,321	1,053,078	946,864	111%	22.24%	20.00%
28	52	5,246,783	1,082,315	1,049,357	103%	20.63%	20.00%
29	36	3,821,260	728,188	764,252	95%	19.06%	20.00%
30	32	3,416,479	746,669	683,296	109%	21.85%	20.00%
31	23	2,511,676	495,189	502,335	99%	19.72%	20.00%
32	7	767,732	147,163	153,546	96%	19.17%	20.00%
33	7	756,017	125,018	151,203	83%	16.54%	20.00%
34	6	754,926	163,503	150,985	108%	21.66%	20.00%
35	3	348,096	119,015	69,619	171%	34.19%	20.00%
36	4	517,364	88,110	103,473	85%	17.03%	20.00%
37	2	262,623	22,031	52,525	42%	8.39%	20.00%
38	0	-	-	-			20.00%
39	0	-	-	-			20.00%
40	1	90,626	21,797	18,125	120%	24.05%	20.00%
41	2	280,102	57,124	56,020	102%	20.39%	20.00%
42	1	115,475	33,829	23,095	146%	29.30%	20.00%
43	2	198,366	50,201	39,673	127%	25.31%	20.00%
44	0	-	-	-			20.00%
45	0	-	-	-			20.00%
<b>Total</b>	<b>1,131</b>	<b>104,863,797</b>	<b>21,558,736</b>	<b>20,972,759</b>	<b>103%</b>	<b>20.56%</b>	<b>20.00%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	1,808	\$ 62,871,673	\$ 3,164,614	\$ 9,430,751	34%	5.03%	15.00%
1	4,468	171,141,581	21,196,477	25,671,237	83%	12.39%	15.00%
2	4,906	207,411,572	34,037,305	31,111,736	109%	16.41%	15.00%
3	5,229	244,527,160	42,380,070	36,679,074	116%	17.33%	15.00%
4	5,757	293,856,953	53,580,628	44,078,543	122%	18.23%	15.00%
5	5,893	366,028,615	60,373,148	54,904,292	110%	16.49%	15.00%
6	5,635	400,266,990	72,920,953	60,040,049	121%	18.22%	15.00%
7	5,422	393,088,909	76,613,962	58,963,336	130%	19.49%	15.00%
8	5,209	380,900,418	73,749,110	57,135,063	129%	19.36%	15.00%
9	4,967	366,131,023	71,015,611	54,919,654	129%	19.40%	15.00%
10	4,614	342,316,077	67,170,009	51,347,411	131%	19.62%	15.00%
11	4,089	308,755,827	59,219,527	46,313,374	128%	19.18%	15.00%
12	3,867	293,771,675	56,764,665	44,065,751	129%	19.32%	15.00%
13	3,975	303,005,414	60,919,783	45,450,812	134%	20.11%	15.00%
14	3,671	282,591,026	55,069,371	42,388,654	130%	19.49%	15.00%
15	3,374	265,835,172	51,050,552	39,875,276	128%	19.20%	15.00%
16	3,263	262,255,486	53,576,363	39,338,323	136%	20.43%	15.00%
17	3,136	251,376,647	51,911,588	37,706,497	138%	20.65%	15.00%
18	3,079	244,266,383	51,075,782	39,082,621	131%	20.91%	16.00%
19	2,919	231,223,215	50,072,448	39,307,946	127%	21.66%	17.00%
20	2,475	196,671,883	43,373,308	35,400,939	123%	22.05%	18.00%
21	2,414	197,464,650	44,977,171	33,568,990	134%	22.78%	17.00%
22	2,258	184,357,430	41,920,761	29,497,189	142%	22.74%	16.00%
23	1,837	153,128,233	34,489,312	22,969,235	150%	22.52%	15.00%
24	1,670	141,681,530	32,187,571	19,835,414	162%	22.72%	14.00%
25	1,459	127,069,448	28,613,065	16,519,028	173%	22.52%	13.00%
26	1,229	110,567,167	24,354,091	13,268,060	184%	22.03%	12.00%
27	985	91,908,632	20,338,799	10,109,950	201%	22.13%	11.00%
28	748	71,612,964	15,653,372	7,161,296	219%	21.86%	10.00%
29	576	56,573,983	12,457,798	5,091,658	245%	22.02%	9.00%
30	431	42,518,891	9,593,083	3,401,511	282%	22.56%	8.00%
31	289	29,744,927	6,578,742	2,082,145	316%	22.12%	7.00%
32	186	19,414,296	4,288,021	1,164,858	368%	22.09%	6.00%
33	146	15,214,335	3,732,717	760,717	491%	24.53%	5.00%
34	95	9,472,520	2,298,259	473,626	485%	24.26%	5.00%
35	58	5,575,170	1,048,063	278,759	376%	18.80%	5.00%
36	46	4,323,235	795,138	216,162	368%	18.39%	5.00%
37	33	3,137,224	641,320	156,861	409%	20.44%	5.00%
38	26	2,486,812	532,873	124,341	429%	21.43%	5.00%
39	21	2,005,050	435,954	100,252	435%	21.74%	5.00%
40	11	1,018,650	193,747	50,933	380%	19.02%	5.00%
41	6	608,465	110,382	30,423	363%	18.14%	5.00%
42	5	494,884	113,224	24,744	458%	22.88%	5.00%
43	1	123,075	9,306	6,154	151%	7.56%	5.00%
44	0	-	-	-	-	-	5.00%
45	0	-	-	-	-	-	5.00%
<b>Total</b>	<b>102,286</b>	<b>7,138,795,270</b>	<b>1,394,598,043</b>	<b>1,060,103,645</b>	<b>132%</b>	<b>19.54%</b>	<b>14.85%</b>

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

**TABLE 10A**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	1,808	\$ 62,871,673	\$ 3,164,614	\$ 10,688,184	30%	5.03%	17.00%
1	4,468	171,141,581	21,196,477	29,094,069	73%	12.39%	17.00%
2	4,906	207,411,572	34,037,305	35,259,967	97%	16.41%	17.00%
3	5,229	244,527,160	42,380,070	41,569,617	102%	17.33%	17.00%
4	5,757	293,856,953	53,580,628	49,955,682	107%	18.23%	17.00%
5	5,893	366,028,615	60,373,148	62,224,865	97%	16.49%	17.00%
6	5,635	400,266,990	72,920,953	68,045,388	107%	18.22%	17.00%
7	5,422	393,088,909	76,613,962	66,825,114	115%	19.49%	17.00%
8	5,209	380,900,418	73,749,110	64,753,071	114%	19.36%	17.00%
9	4,967	366,131,023	71,015,611	62,242,274	114%	19.40%	17.00%
10	4,614	342,316,077	67,170,009	58,193,733	115%	19.62%	17.00%
11	4,089	308,755,827	59,219,527	52,488,491	113%	19.18%	17.00%
12	3,867	293,771,675	56,764,665	49,941,185	114%	19.32%	17.00%
13	3,975	303,005,414	60,919,783	51,510,920	118%	20.11%	17.00%
14	3,671	282,591,026	55,069,371	48,040,474	115%	19.49%	17.00%
15	3,374	265,835,172	51,050,552	45,191,979	113%	19.20%	17.00%
16	3,263	262,255,486	53,576,363	44,583,433	120%	20.43%	17.00%
17	3,136	251,376,647	51,911,588	42,734,030	121%	20.65%	17.00%
18	3,079	244,266,383	51,075,782	41,525,285	123%	20.91%	17.00%
19	2,919	231,223,215	50,072,448	39,307,946	127%	21.66%	17.00%
20	2,475	196,671,883	43,373,308	33,434,220	130%	22.05%	17.00%
21	2,414	197,464,650	44,977,171	33,568,990	134%	22.78%	17.00%
22	2,258	184,357,430	41,920,761	31,340,763	134%	22.74%	17.00%
23	1,837	153,128,233	34,489,312	26,031,800	132%	22.52%	17.00%
24	1,670	141,681,530	32,187,571	24,085,860	134%	22.72%	17.00%
25	1,459	127,069,448	28,613,065	21,601,806	132%	22.52%	17.00%
26	1,229	110,567,167	24,354,091	18,796,418	130%	22.03%	17.00%
27	985	91,908,632	20,338,799	15,624,468	130%	22.13%	17.00%
28	748	71,612,964	15,653,372	12,174,204	129%	21.86%	17.00%
29	576	56,573,983	12,457,798	9,617,577	130%	22.02%	17.00%
30	431	42,518,891	9,593,083	7,228,211	133%	22.56%	17.00%
31	289	29,744,927	6,578,742	5,056,638	130%	22.12%	17.00%
32	186	19,414,296	4,288,021	3,300,430	130%	22.09%	17.00%
33	146	15,214,335	3,732,717	2,586,437	144%	24.53%	17.00%
34	95	9,472,520	2,298,259	1,610,328	143%	24.26%	17.00%
35	58	5,575,170	1,048,063	947,779	111%	18.80%	17.00%
36	46	4,323,235	795,138	734,950	108%	18.39%	17.00%
37	33	3,137,224	641,320	533,328	120%	20.44%	17.00%
38	26	2,486,812	532,873	422,758	126%	21.43%	17.00%
39	21	2,005,050	435,954	340,858	128%	21.74%	17.00%
40	11	1,018,650	193,747	173,171	112%	19.02%	17.00%
41	6	608,465	110,382	103,439	107%	18.14%	17.00%
42	5	494,884	113,224	84,130	135%	22.88%	17.00%
43	1	123,075	9,306	20,923	44%	7.56%	17.00%
44	0	0	-	-	-	-	17.00%
45	0	0	-	-	-	-	17.00%
Total	102,286	7,138,795,270	1,394,598,043	1,213,595,196	115%	19.54%	17.00%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 10B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			16.00%
1	0	-	-	-			16.00%
2	0	-	-	-			16.00%
3	0	-	-	-			16.00%
4	0	-	-	-			16.00%
5	0	-	-	-			16.00%
6	0	-	-	-			16.00%
7	0	-	-	-			16.00%
8	0	-	-	-			16.00%
9	0	-	-	-			16.00%
10	0	-	-	-			16.00%
11	0	-	-	-			16.00%
12	0	-	-	-			16.00%
13	0	-	-	-			16.00%
14	0	-	-	-			17.00%
15	0	-	-	-			18.00%
16	0	-	-	-			19.00%
17	0	-	-	-			20.00%
18	0	-	-	-			21.00%
19	0	-	-	-			22.00%
20	276	\$ 17,938,408	\$ 6,338,985	\$ 4,125,834	154%	35.34%	23.00%
21	59	4,121,650	1,379,078	906,763	152%	33.46%	22.00%
22	60	4,450,167	1,618,655	934,535	173%	36.37%	21.00%
23	24	1,785,459	481,597	357,092	135%	26.97%	20.00%
24	50	3,602,512	1,047,239	684,477	153%	29.07%	19.00%
25	69	5,356,900	1,501,329	964,242	156%	28.03%	18.00%
26	47	3,703,635	1,120,502	592,582	189%	30.25%	16.00%
27	32	2,797,226	716,174	391,612	183%	25.60%	14.00%
28	23	2,007,903	488,386	240,948	203%	24.32%	12.00%
29	30	2,827,286	615,754	311,001	198%	21.78%	11.00%
30	25	2,104,333	533,700	210,433	254%	25.36%	10.00%
31	24	2,446,502	576,305	220,185	262%	23.56%	9.00%
32	11	1,010,449	276,216	80,836	342%	27.34%	8.00%
33	11	1,112,192	232,546	77,853	299%	20.91%	7.00%
34	4	398,275	141,471	23,896	592%	35.52%	6.00%
35	10	935,285	222,277	56,117	396%	23.77%	6.00%
36	3	226,199	51,532	13,572	380%	22.78%	6.00%
37	5	426,856	92,179	25,611	360%	21.59%	6.00%
38	3	271,565	102,705	16,294	630%	37.82%	6.00%
39	2	249,857	52,933	14,991	353%	21.19%	6.00%
40	2	161,662	48,324	9,700	498%	29.89%	6.00%
41	1	80,284	18,924	4,817	393%	23.57%	6.00%
42	0	-	-	-			6.00%
43	0	-	-	-			6.00%
44	1	114,386	17,515	6,863	255%	15.31%	6.00%
45	0	-	-	-			6.00%
Total	772	58,128,989	17,674,326	10,270,256	172%	30.41%	17.67%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE SERVICE RETIREMENT  
MEN AND WOMEN**

**TABLE 10B**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			24.00%
1	0	-	-	-			24.00%
2	0	-	-	-			24.00%
3	0	-	-	-			24.00%
4	0	-	-	-			24.00%
5	0	-	-	-			24.00%
6	0	-	-	-			24.00%
7	0	-	-	-			24.00%
8	0	-	-	-			24.00%
9	0	-	-	-			24.00%
10	0	-	-	-			24.00%
11	0	-	-	-			24.00%
12	0	-	-	-			24.00%
13	0	-	-	-			24.00%
14	0	-	-	-			24.00%
15	0	-	-	-			24.00%
16	0	-	-	-			24.00%
17	0	-	-	-			24.00%
18	0	-	-	-			24.00%
19	0	-	-	-			24.00%
20	276	\$ 17,938,408	\$ 6,338,985	\$ 4,305,218	147%	35.34%	24.00%
21	59	4,121,650	1,379,078	989,196	139%	33.46%	24.00%
22	60	4,450,167	1,618,655	1,068,040	152%	36.37%	24.00%
23	24	1,785,459	481,597	428,510	112%	26.97%	24.00%
24	50	3,602,512	1,047,239	864,603	121%	29.07%	24.00%
25	69	5,356,900	1,501,329	1,285,656	117%	28.03%	24.00%
26	47	3,703,635	1,120,502	888,872	126%	30.25%	24.00%
27	32	2,797,226	716,174	671,334	107%	25.60%	24.00%
28	23	2,007,903	488,386	481,897	101%	24.32%	24.00%
29	30	2,827,286	615,754	678,549	91%	21.78%	24.00%
30	25	2,104,333	533,700	505,040	106%	25.36%	24.00%
31	24	2,446,502	576,305	587,160	98%	23.56%	24.00%
32	11	1,010,449	276,216	242,508	114%	27.34%	24.00%
33	11	1,112,192	232,546	266,926	87%	20.91%	24.00%
34	4	398,275	141,471	95,586	148%	35.52%	24.00%
35	10	935,285	222,277	224,468	99%	23.77%	24.00%
36	3	226,199	51,532	54,288	95%	22.78%	24.00%
37	5	426,856	92,179	102,445	90%	21.59%	24.00%
38	3	271,565	102,705	65,176	158%	37.82%	24.00%
39	2	249,857	52,933	59,966	88%	21.19%	24.00%
40	2	161,662	48,324	38,799	125%	29.89%	24.00%
41	1	80,284	18,924	19,268	98%	23.57%	24.00%
42	0	-	-	-			24.00%
43	0	-	-	-			24.00%
44	1	114,386	17,515	27,453	64%	15.31%	24.00%
45	0	-	-	-			24.00%
Total	772	58,128,989	17,674,326	13,950,957	127%	30.41%	24.00%



**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 10C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual % (7)	Expected % (8)
0	0	-	-	-			15.00%
1	0	-	-	-			15.00%
2	0	-	-	-			15.00%
3	0	-	-	-			15.00%
4	0	-	-	-			15.00%
5	35	\$ 1,842,870	\$ 315,387	\$ 276,430	114%	17.11%	15.00%
6	43	2,889,880	558,393	433,482	129%	19.32%	15.00%
7	53	3,610,194	705,496	541,529	130%	19.54%	15.00%
8	57	3,787,324	734,745	568,099	129%	19.40%	15.00%
9	82	5,776,551	1,173,261	866,483	135%	20.31%	15.00%
10	107	7,582,849	1,562,481	1,137,427	137%	20.61%	15.00%
11	81	5,823,929	1,239,224	873,589	142%	21.28%	15.00%
12	107	7,946,515	1,596,510	1,191,977	134%	20.09%	15.00%
13	119	9,028,347	1,801,064	1,354,252	133%	19.95%	15.00%
14	119	8,819,926	1,828,489	1,322,989	138%	20.73%	15.00%
15	120	8,801,991	1,602,601	1,320,299	121%	18.21%	15.00%
16	137	10,462,534	2,055,152	1,674,005	123%	19.64%	16.00%
17	122	9,311,989	1,956,224	1,583,038	124%	21.01%	17.00%
18	121	8,924,685	2,380,971	1,606,443	148%	26.68%	18.00%
19	200	14,093,560	3,640,031	2,677,776	136%	25.83%	19.00%
20	353	24,631,158	7,321,909	4,926,232	149%	29.73%	20.00%
21	193	14,740,688	3,705,281	2,800,731	132%	25.14%	19.00%
22	214	16,330,256	4,426,728	2,939,446	151%	27.11%	18.00%
23	159	12,379,882	3,142,822	2,104,580	149%	25.39%	17.00%
24	140	11,206,966	2,717,211	1,793,114	152%	24.25%	16.00%
25	145	12,282,174	3,203,405	1,842,326	174%	26.08%	15.00%
26	110	9,072,806	2,463,934	1,179,465	209%	27.16%	13.00%
27	94	8,551,510	2,220,620	940,666	236%	25.97%	11.00%
28	86	8,028,846	1,927,553	802,885	240%	24.01%	10.00%
29	67	6,345,386	1,420,072	571,085	249%	22.38%	9.00%
30	60	5,711,871	1,253,066	456,950	274%	21.94%	8.00%
31	39	3,770,010	910,859	263,901	345%	24.16%	7.00%
32	17	1,618,991	365,223	97,139	376%	22.56%	6.00%
33	19	1,689,284	463,361	84,464	549%	27.43%	5.00%
34	13	1,377,749	327,389	68,887	475%	23.76%	5.00%
35	9	810,326	252,882	40,516	624%	31.21%	5.00%
36	8	807,912	179,383	40,396	444%	22.20%	5.00%
37	4	444,473	50,476	22,224	227%	11.36%	5.00%
38	5	418,324	111,860	20,916	535%	26.74%	5.00%
39	4	347,210	83,698	17,360	482%	24.11%	5.00%
40	4	368,217	91,190	18,411	495%	24.77%	5.00%
41	5	491,662	127,024	24,583	517%	25.84%	5.00%
42	2	206,944	83,143	10,347	804%	40.18%	5.00%
43	3	302,628	97,401	15,131	644%	32.19%	5.00%
44	0	-	-	-			5.00%
45	0	-	-	-			5.00%
Total	3,256	250,638,414	60,096,519	38,509,575	156%	23.98%	15.36%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE BEFORE DISABLED RETIREMENT  
MEN AND WOMEN**

**TABLE 10C**

**10-YEAR PERIOD ENDING 6/30/2013**

Service (1)	Life Years Exposed (2)	Salary during the Year (3)	Actual Overtime (4)	Proposed Overtime (5)	Actual / Proposed (6)	Increase %	
						Actual % (7)	Proposed % (8)
0	0	-	-	-			20.00%
1	0	-	-	-			20.00%
2	0	-	-	-			20.00%
3	0	-	-	-			20.00%
4	0	-	-	-			20.00%
5	35	\$ 1,842,870	\$ 315,387	\$ 368,574	86%	17.11%	20.00%
6	43	2,889,880	558,393	577,976	97%	19.32%	20.00%
7	53	3,610,194	705,496	722,039	98%	19.54%	20.00%
8	57	3,787,324	734,745	757,465	97%	19.40%	20.00%
9	82	5,776,551	1,173,261	1,155,310	102%	20.31%	20.00%
10	107	7,582,849	1,562,481	1,516,570	103%	20.61%	20.00%
11	81	5,823,929	1,239,224	1,164,786	106%	21.28%	20.00%
12	107	7,946,515	1,596,510	1,589,303	100%	20.09%	20.00%
13	119	9,028,347	1,801,064	1,805,669	100%	19.95%	20.00%
14	119	8,819,926	1,828,489	1,763,985	104%	20.73%	20.00%
15	120	8,801,991	1,602,601	1,760,398	91%	18.21%	20.00%
16	137	10,462,534	2,055,152	2,092,507	98%	19.64%	20.00%
17	122	9,311,989	1,956,224	1,862,398	105%	21.01%	20.00%
18	121	8,924,685	2,380,971	1,784,937	133%	26.68%	20.00%
19	200	14,093,560	3,640,031	2,818,712	129%	25.83%	20.00%
20	353	24,631,158	7,321,909	4,926,232	149%	29.73%	20.00%
21	193	14,740,688	3,705,281	2,948,138	126%	25.14%	20.00%
22	214	16,330,256	4,426,728	3,266,051	136%	27.11%	20.00%
23	159	12,379,882	3,142,822	2,475,976	127%	25.39%	20.00%
24	140	11,206,966	2,717,211	2,241,393	121%	24.25%	20.00%
25	145	12,282,174	3,203,405	2,456,435	130%	26.08%	20.00%
26	110	9,072,806	2,463,934	1,814,561	136%	27.16%	20.00%
27	94	8,551,510	2,220,620	1,710,302	130%	25.97%	20.00%
28	86	8,028,846	1,927,553	1,605,769	120%	24.01%	20.00%
29	67	6,345,386	1,420,072	1,269,077	112%	22.38%	20.00%
30	60	5,711,871	1,253,066	1,142,374	110%	21.94%	20.00%
31	39	3,770,010	910,859	754,002	121%	24.16%	20.00%
32	17	1,618,991	365,223	323,798	113%	22.56%	20.00%
33	19	1,689,284	463,361	337,857	137%	27.43%	20.00%
34	13	1,377,749	327,389	275,550	119%	23.76%	20.00%
35	9	810,326	252,882	162,065	156%	31.21%	20.00%
36	8	807,912	179,383	161,582	111%	22.20%	20.00%
37	4	444,473	50,476	88,895	57%	11.36%	20.00%
38	5	418,324	111,860	83,665	134%	26.74%	20.00%
39	4	347,210	83,698	69,442	121%	24.11%	20.00%
40	4	368,217	91,190	73,643	124%	24.77%	20.00%
41	5	491,662	127,024	98,332	129%	25.84%	20.00%
42	2	206,944	83,143	41,389	201%	40.18%	20.00%
43	3	302,628	97,401	60,526	161%	32.19%	20.00%
44	0	-	-	-			20.00%
45	0	-	-	-			20.00%
Total	3,256	250,638,414	60,096,519	50,127,683	120%	23.98%	20.00%

**NEW YORK CITY FIRE DEPARTMENT PENSION FUND  
OVERTIME PAY EXPERIENCE FOR ALL YEARS  
MEN AND WOMEN**

Plan Year Ending June 30, (1)	Life Years Exposed (2)	TABLE 10D			10-YEAR PERIOD ENDING 6/30/2013		
		Salary during the Year (3)	Actual Overtime (4)	Expected Overtime (5)	Actual / Expected (6)	Increase %	
						Actual (4) / (3) (7)	Expected (5) / (3) (8)
2004	9,968	\$ 527,263,469	\$ 133,933,546	\$ 79,960,956	167%	25.40%	15.17%
2005	10,173	592,395,712	114,528,120	89,528,653	128%	19.33%	15.11%
2006	10,206	615,471,236	115,689,705	92,537,404	125%	18.80%	15.04%
2007	10,505	638,557,450	137,307,671	95,410,556	144%	21.50%	14.94%
2008	10,611	665,323,558	122,928,547	98,862,277	124%	18.48%	14.86%
2009	10,712	732,399,270	120,580,397	108,438,078	111%	16.46%	14.81%
2010	10,626	755,346,039	113,073,078	111,541,100	101%	14.97%	14.77%
2011	10,207	866,453,712	142,716,271	127,618,094	112%	16.47%	14.73%
2012	9,828	881,344,471	181,116,947	129,528,888	140%	20.55%	14.70%
2013	9,450	864,240,353	212,723,761	126,677,639	168%	24.61%	14.66%
Total	102,286	7,138,795,270	1,394,598,043	1,060,103,645	132%	19.54%	14.85%