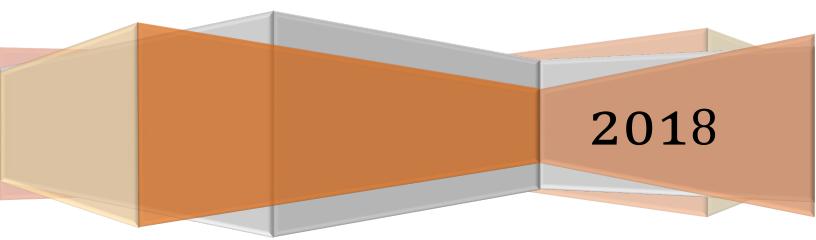




Fiscal Year 2018 Actuarial Valuation Report for the New York City Employees' Retirement System

JUNE 30, 2016 (LAG) ACTUARIAL VALUATION

prepared by the New York City Office of the Actuary





OFFICE OF THE ACTUARY

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> SHERRY S. CHAN CHIEF ACTUARY

July 11, 2019

Board of Trustees New York City Employees' Retirement System 335 Adams Street, Suite 2300 Brooklyn, NY 11201-3751

Re: Fiscal Year 2018 Actuarial Valuation Report (Report)

Dear Trustees:

This Report presents the results of the June 30, 2016 (Lag) actuarial valuation of the benefits under both the New York City Employees' Retirement System (NYCERS) Qualified Pension Plan and Group Life Insurance Plan (collectively, the Plan). These results form the basis for determining the statutorily-required contribution (Statutory Contribution) of \$3,377,024,173 for Fiscal Year 2018 (i.e. for the period beginning July 1, 2017 and ending June 30, 2018). Calculations made for other purposes may differ significantly from those shown herein.

Results of the June 30, 2015 (Lag) actuarial valuation are shown in this Report for comparative purposes. Other historical information that the Actuary believes useful is also included.

The June 30, 2016 (Lag) and June 30, 2015 (Lag) actuarial valuations are based upon census data as of those dates submitted by the Plan's administrative staff and the employer's payroll facilities. Financial information was provided by NYCERS and the Office of the Comptroller as of June 30, 2016 and June 30, 2015.

Consistent with Actuarial Standards of Practice, the Office of the Actuary has reviewed census data and financial information for consistency and reasonability but has not audited it. The accuracy of the results and calculations presented in this Report are dependent on the accuracy of this census data and financial information. To the extent any such data or information provided is materially inaccurate or incomplete, the results contained herein will require revision.

A summary of the benefits available under the terms of the Plan is shown in SECTION IX – SUMMARY OF PLAN PROVISIONS. The benefits under the Plan are unchanged from the prior valuation except for improvement of the Accidental Disability benefits for Tier VI Sanitation and Correction members. These benefit enhancements are expected to be funded through increased member contributions by those who elect the enhanced benefit.

The June 30, 2016 (Lag) actuarial valuation reflects the cost of the new Special Accidental Death Benefit (SADB) for Sanitation members and a change in valuing the Accidental Death Benefit (ADB) for those members who are eligible for SADB pursuant to Section 208(f) of the General Municipal Law.

The June 30, 2016 (Lag) actuarial valuation also reflects a change in the Disability provisions for Tier 3 22-Year Plan members of Sanitation and Correction. Since the members who elect the enhanced Disability benefit are assumed to pay the entire cost, there is no impact on the Fiscal Year 2018 Employer Contribution as a result of these changes.

The City of New York prepared its Fiscal Year 2018 financial statements in accordance with Governmental Accounting Standards Board (GASB) Statement No. 68 (GASB68). NYCERS prepared its Fiscal Year 2018 Comprehensive Annual Financial Report (CAFR) in accordance with GASB Statement No. 67 (GASB67). The Office of the Actuary published Fiscal Year 2018 GASB67 and GASB68 results in a Report dated September 28, 2018, which is available on the website of the Office of the Actuary (www.nyc.gov/actuary). This report does not present GASB results.

I, Sherry S. Chan, am the Chief Actuary for, and independent of, the New York City Retirement Systems and Pension Funds. I am a Fellow of the Society of Actuaries, an Enrolled Actuary under the Employee Retirement Income and Security Act of 1974, a Member of the American Academy of Actuaries, and a Fellow of the Conference of Consulting Actuaries. I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. To the best of my knowledge, the results contained herein have been prepared in accordance with generally accepted actuarial principles and procedures and with the Actuarial Standards of Practice issued by the Actuarial Standards Board.

Best Regards,

Greeky Chan

Sherry S. Chan, FSA, EA, MAAA, FCA Chief Actuary

SSC/eh

cc: Mr. Charles Barkley - New York City Employees' Retirement System
Mr. Frankie Chen - New York City Office of the Actuary
Mr. Craig Chu - New York City Office of the Actuary
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SECTION I - EXECUTIVE SUMMARY

This report presents the results of the June 30, 2016 (Lag) actuarial valuation of the New York City Employees' Retirement System (NYCERS) and Group Life Insurance Plan (collectively, the Plan).

The purposes of the valuation are:

- To determine the actuarially-required contribution (Actuarial Contribution) for Fiscal Year 2018 (i.e. July 1, 2017 to June 30, 2018),
- To measure the funding progress of the Plan,
- To disclose the census data and financial information used in the valuation, and
- To disclose the actuarial assumptions and actuarial methods used to determine the Actuarial Contribution.

The Statutorily-required contribution (Statutory Contribution) is also shown and it has equaled the Actuarial Contribution in all historical years.

This Report does not provide financial and accounting information required by current GASB standards. That information is provided in a separate report.

All results are based on Final SKIM amounts as determined by the Actuary in the memo dated May 11, 2018 to the Board. All results are without regard to the Variable Supplements Funds, unless specifically noted.

Future measurements of this information may differ from current measurements for many reasons including, but not limited to, experience differing from economic or demographic assumptions, changes in actuarial assumptions and methods, and changes in applicable statute and plan provisions. The actuary's scope of work did not include an analysis of the range of such deviation.

Additional risks may be present for the Plan and are presented in SECTION VIII – RISK AND UNCERTAINTY for consideration.

Table I-1

Executive Summary

Presented in **Table I-1** are the principal results of the June 30, 2016 (Lag) actuarial valuation and, for comparative purposes, the June 30, 2015 (Lag) actuarial valuation.

NEW YORK CITY EMPLO	YEES' RETIRI	EMENT SYSTEM			
SUMMARY OF VA	LUATION R	ESULTS			
Valuation Date	Ju	ne 30, 2016 (Lag)	Ju	ine 30, 2015 (Lag)	
Fiscal Year		2018	2017		
Funded Status					
1. Accrued Liability	\$	79,081,183,205 56,491,829,000	\$	76,678,219,599 53,573,694,000	
2. Actuarial Value of Assets (AVA) ¹ 3. Unfunded Accrued Liability (AVA Basis) (1 2.)	\$		¢		
4. Funded Ratio (AVA Basis) (2. / 1.)	Þ	22,589,354,205 71.4%	\$	23,104,525,599 69.9%	
5. Market Value of Assets $(MVA)^1$		55,489,504,000		54,889,324,000	
6. Unfunded Accrued Liability (MVA Basis) (1 5.)	\$	23,591,679,205	\$	21,788,895,599	
7. Funded Ratio (MVA Basis) (5. / 1.)	Ŷ	70.2%	Ŷ	71.6%	
Contribution ²					
1. Normal Cost	\$	1,497,608,947	\$	1,495,829,299	
2. Unfunded Accrued Liability		1,798,287,352		1,760,369,634	
3. Administrative Expenses		62,701,431		60,129,380	
4. Interest on Late Employer Contributions		18,426,443		11,864,269	
5. Actuarial Contribution (1. + 2. + 3. + 4.)	\$	3,377,024,173	\$	3,328,192,582	
6. Statutory Contribution	\$	3,377,024,173	\$	3,328,192,582	
Participant Data					
1. Active Members					
a. Number		185,481		185,758	
b. Annual Salary ³	\$	13,216,539,355	\$	12,917,466,528	
c. Average Salary	\$	71,255	\$	69,539	
2. Active/Inactive Members ⁴		17,989		16,907	
3. Terminated Vested Members		8,895		9,402	
4. Retirees and Beneficiaries					
a. Number		147,514	<i>•</i>	144,526	
b. Total Annual Benefits	\$ \$	4,179,496,621	\$	3,999,820,502	
c. Average Benefit	Φ	28,333	\$	27,675	

¹ Actuarial Value of Assets and Market Value of Assets are rounded to the nearest thousand.

² Including results for Variable Supplements Funds.

³ Salaries shown are the base salary plus assumed overtime paid and reflect the impact of recent labor contract settlements and certain non-union salary increases with retroactive effective dates, if any.

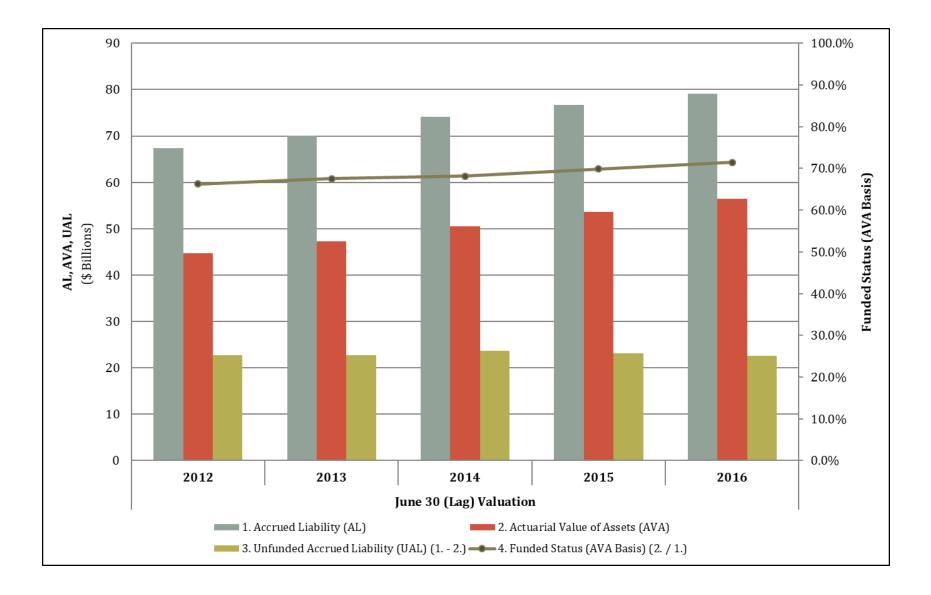
⁴ Represents members no longer on payroll, but not otherwise classified.

Table I-2 **Actuarial Liabilities**

NEW YORK CITY EMPLOY	ZEES' RETIF	REMENT SYSTEM							
ACTUARIAL LIABILITIES BY STATUS									
Valuation Date	Ju	ne 30, 2016 (Lag)	June 30, 2015 (Lag)						
Fiscal Year		2018		2017					
Accrued Liability									
1. Active Members	\$	33,499,238,864	\$	32,903,528,289					
2. Active/Inactive Members ¹		1,003,677,068		921,023,283					
3. Terminated Vested Members		735,210,956		751,041,905					
4. Retirees and Beneficiaries		42,251,550,966		40,388,703,457					
5. Accrued Liability Pre-Adjustments (1. to 4.)	\$	77,489,677,854	\$	74,964,296,934					
6. Actuarial Adjustments ²		1,591,505,351		1,713,922,665					
7. Total Accrued Liability (AL) (5. + 6.)	\$	79,081,183,205	\$	76,678,219,599					
Present Value of Benefits									
1. Active Members	\$	49,988,141,908	\$	48,972,667,878					
2. Active/Inactive Members ¹		1,003,677,068		921,023,283					
3. Terminated Vested Members		735,210,956		751,041,905					
4. Retirees and Beneficiaries		42,251,550,966		40,388,703,457					
5. Present Value of Benefits (1. to 4.)	\$	93,978,580,898	\$	91,033,436,523					
6. Actuarial Adjustments ²		1,776,864,370		1,891,164,567					
7. Total Present Value of Benefits (5. + 6.)	\$	95,755,445,268	\$	92,924,601,090					

¹ Represents members no longer on payroll, but not otherwise classified.
 ² Includes unfunded VSF Accrued Liability and other actuarial loading adjustments.

Graph I-3 Historical Funded Status



SECTION II – MARKET AND ACTUARIAL VALUES OF ASSETS

Information on the Market Value of Assets (MVA) of the Plan is provided by the Office of the Comptroller. An Actuarial Asset Valuation Method (AAVM) is used to determine the Actuarial Value of Assets (AVA) of the Plan.

The Actuary reset the AVA to the MVA as of June 30, 2011. Beginning with the June 30, 2012 (Lag) actuarial valuation, the AAVM recognizes investment returns greater or less than expected over a period of six years. In accordance with this AAVM, actual Unexpected Investment Returns (UIR) are phased into the AVA at rates of 15%, 15%, 15%, 15%, 20%, and 20% per year (i.e. UIR is recognized at cumulative rates of 15%, 30%, 45%, 60%, 80%, and 100% over a period of six years).

UIR is defined as the excess of net investment return over the Expected Investment Return (EIR) based on the Actuarial Interest Rate (AIR) and the AVA, where EIR equals the sum of beginning-of-fiscal-year AVA plus one-half of net cash flow, multiplied by the AIR.

Beginning with the June 30, 2014 (Lag) actuarial valuation, the AVA is further constrained to be within a corridor of 80% to 120% of the market value.

Table II-1

Statement of Plan Net Assets as of June 30, 2016 and June 30, 2015

(\$ Thousands)		
	June 30, 2016	June 30, 2015
ASSETS		
Cash	\$ 165,685	\$ 40,548
Receivables		
Investment Securities Sold	\$ 1,413,529	\$ 1,639,525
Member Loans	1,081,783	1,027,069
Transferable Earnings due from QPP to VSFs	(3,000)	(19,000)
Accrued Interest and Dividends	280,740	267,570
Other	0	0
Total Receivables	\$ 2,773,052	\$ 2,915,164
INVESTMENTS AT FAIR VALUE		
Fixed return funds		
Short-Term Investments		
U.S. Treasury Bills	\$ 11,073	\$ 393,360
Commercial Paper	739,639	831,425
Short-term Investment Fund	760,635	810,547
Discount Notes	59,860	486,281
Short term - Hedge Fund	0	25,500
Debt Securities		
U.S. Government and agency	4,289,153	5,368,727
Corporate and other	7,157,423	6,862,950
Promissory notes	0	0
Equity Securities	18,523,033	18,188,567
Alternative Investments Collective Trust Funds	9,873,044	9,824,907
	0 220 005	0 501 001
International Equity	9,220,895 0	9,501,921 0
Domestic Equity	-	0
Mortgage Debt Security	607,685	492,104
Treasury Inflation Protected Securities Fixed Income	2,448,307	1,760,761
	1,022,145	1,006,025
Collateral From Securities Lending	5,267,092	4,789,313
Total Investments	\$ 59,979,984	\$ 60,342,388
OTHER ASSETS	84,632	140,813
TOTAL ASSETS	\$ 63,003,353	\$ 63,438,913
	φ 03,003,333	φ 03,430,713
LIABILITIES		
Accounts Payable	\$ 177,887	\$ 142,067
Payable for Investment Securities Purchased	1,794,940	3,368,991
Accrued Benefits Payable	266,616	211,517
Amount due to Variable Supplements Funds	5,724	5,947
Due to other retirement systems	1,590	1,754
Security Lending Accrued Transfers to VSFs	5,267,092	4,789,313
Accrued 1 ransfers to VSFS	0	30,000
TOTAL LIABILITIES	\$ 7,513,849	\$ 8,549,589
PLAN ASSETS HELD IN TRUST FOR PENSION BENEFITS	\$ 55,489,504	\$ 54,889,324

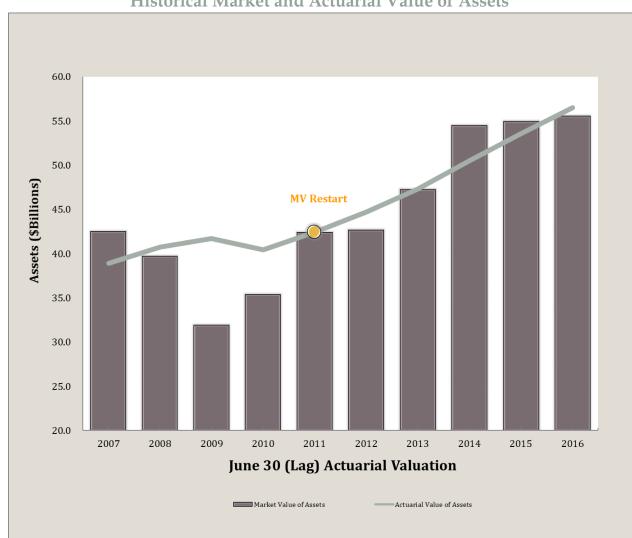
(\$ Thousands)				
	Jui	ne 30, 2016	Ju	ne 30, 2015
ADDITIONS				
Contributions				
Member Contributions	\$	485,508	\$	467,129
Employer Contributions		3,365,454		3,160,258
Total Contributions	\$	3,850,962	\$	3,627,387
Investment Income (Loss)				
Interest Income	\$	692,773	\$	635,747
Dividend Income		836,490		795,259
Net Appreciation (Depreciation) in Fair Value	\$	(174,204)	\$	(50,658
Total Investment Income (Loss)	\$	1,355,059	\$	1,380,348
Less Investment Expenses		212,996		231,760
Net Income (Loss)	\$	1,142,063	\$	1,148,588
Securities Lending Transactions				
Securities Lending Income	\$	31,719	\$	28,196
Securities Lending Fees	Ŷ	2,062	Ŷ	1,685
becarries Lenang rees		2,001		1,000
Net Securities Lending Income (Loss)	\$	29,657	<u>\$</u>	26,511
Net Investment Income (Loss)	\$	1,171,720	\$	1,175,099
Other				
Other Income	\$	2,928	\$	4,140
TOTAL ADDITIONS	\$	5,025,610	\$	4,806,620
DEDUCTIONS				
Benefit Payments and Withdrawls	\$	4,402,506	\$	4,235,565
Payments to other retirement systems	\$	7,440	\$	7,142
Amount due to Variable Supplements Fund	\$	11,525	\$	11,918
Accrued Transfer to VSFs	\$	(52,724)	\$	30,000
Administrative Expenses		56,683		54,635
TOTAL DEDUCTIONS	\$	4,425,430	\$	4,339,260
NET INCREASE (DECREASE) IN PLAN NET ASSETS	\$	600,180	\$	467,366
PLAN NET ASSETS HELD IN TRUST FOR PENSION BENEFITS				
Beginning of Year	\$	54,889,324	\$	54,421,958
End of Year	\$	55,489,504	\$	54,889,324

Table II-2Statement of Changes in Plan Net Assets

Table II-3

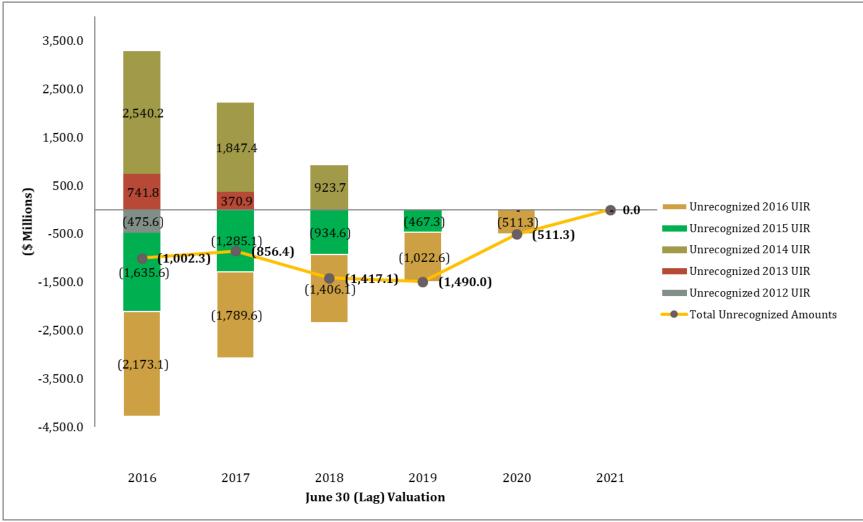
Development of Actuarial Value of Assets as of June 30, 2016 and June 30, 2015
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(\$ Thousands)				
Valuation Date	յլ	ine 30, 2016	Ju	ine 30, 2015
Market Value of Assets (MVA)				
Beginning of Year (BOY)	\$	54,889,324	\$	54,421,95
End of Year (EOY)	\$	55,489,504	\$	54,889,32
1. Contributions	Ť	00,107,001	Ψ	01,009,02
a. Employee	\$	485,508	\$	467,12
b. Employer	Ψ	<u>3,365,454</u>	Ψ	<u>3,160,25</u>
c. Total Contributions	\$	3,850,962	\$	3,627,38
2. Net Investment Income	Ψ	5,050,702	Ψ	5,027,50
a. Investment Income	\$	1,384,716	\$	1,406,85
b. Investment Expenses	Ψ	(<u>212,996</u>)	Ψ	<u>(231,76</u>
c. Total Net Investment Income	\$	1,171,720	\$	1,175,09
3. Cash Flow (Other)	\$	(4,475,226)		(4,305,12
4. Preliminary SKIM from NYCERS to COVSF - EOY	\$	52,724	\$	(30,00
5. Net Cash Flow (1.c. + 3. + 4.)	\$	(571,540)		(707,73
6. Average invested assets	φ	(371,340)	φ	(707,73
a. AVA @ BOY	\$	53,573,694	\$	50,505,97
b. 1/2 Net Cash Flow before SKIM	P	<u>(312,132)</u>	ф	<u>(338,86</u>
-		[312,132]		<u>[330,00</u>
((1.c. + 3.) / 2) c. Total	ď	F2 261 F62	\$	50,167,10
	\$	53,261,562	Ъ	
7. Expected Rate of Return (AIR)	đ	7.00%	ተ	7.00
8. Expected Investment Return (EIR) (6.c. x 7.)	\$	3,728,309	\$ ¢	3,511,69
9. Unexpected Investment Return (UIR) (2.c 8.)	\$	(2,556,589)	\$	(2,336,59
10. AVA @ EOY	<i>•</i>		¢	
a. AVA @ BOY (prior to corridor limit)	\$	53,573,694	\$	50,505,97
b. Net Cash Flow (5.)		(571,540)		(707,73
c. Expected Investment Return (8.)		3,728,309		3,511,69
d. Phase in of UIR		(202,400)		(250.40
15% * UIR for prior year		(383,488)		(350,49
15% * UIR for second prior year		(350,490)		692,77
15% * UIR for third prior year		692,771		278,19
15% * UIR for fourth prior year		278,193		(356,71
20% * UIR for fifth prior year		(475,620)		N/
20% * UIR for sixth prior year		<u>N/A</u>	1	<u>N/</u>
Total	\$	(238,634)	\$	263,75
e. Preliminary AVA (10.a. + 10.b. + 10.c. + 10.d.)	\$	56,491,829	\$	53,573,69
11. Corridor				
a. 80% of MVA	\$	44,391,603	\$	43,911,45
b. 120% of MVA	\$	66,587,405	\$	65,867,18
12. Final AVA of EOY (10.e. bounded by 11.)	\$	56,491,829	\$	53,573,69



Graph II-4 Historical Market and Actuarial Value of Assets

Graph II-5 Future Recognition of UIR as of June 30, 2016



SECTION III - CONTRIBUTION DEVELOPMENT AND HISTORY

Table III-1 Statutory Contributions

Table III-1 shows the components of the Fiscal Year 2018 and the Fiscal Year 2017 Statutory Contributions.

Valuation Date	J	une 30, 2016 (Lag)	June 30, 2015 (Lag)			
Fiscal Year		2018	2017			
Normal Cost ¹	\$	1,497,608,947 ²	\$	1,495,829,299		
Amortization of Unfunded Accrued Liability						
- Initial UAL		1,811,646,748		1,758,880,338		
- 2011 (Gain)/Loss		(29,666,882)		(29,666,882)		
- 2012 (Gain)/Loss		(7,384,090)		(7,384,090)		
- 2013 (Gain)/Loss		9,838,580		9,838,580		
- 2013 Transit Refunds		97,724		97,724		
- 2014 (Gain)/Loss		(154,087,106)		(154,087,106)		
- 2014 Assumption Change		233,084,501		233,084,501		
- 2015 (Gain)/Loss		(50,393,431)		(50,393,431)		
- 2016 (Gain)/Loss		(30,332,576)		NA		
- 2016 Assumption Change		1,925,414		NA		
- 2016 SADB		2,458,219		NA		
- 2016 SADB Sanitation Retirees		10,433,043		NA		
- 2016 SADB Sanitation Actives		667,208		NA		
Total		1,798,287,352		1,760,369,634		
Administrative Expenses		62,701,431		60,129,380		
Interest on Late Employer Contributions		18,426,443		11,864,269		
Total Contribution to the New York City Employees' Retirement System	\$	3,377,024,173	\$	3,328,192,582		

¹ Includes amounts necessary, if any, to provide for financing of the Excess Benefit Plan established by Chapter 623/04.

² Includes \$12,089,333 for Group Life Insurance Plan.

³ Includes \$12,047,242 for Group Life Insurance Plan.

Table III-2

Schedule of Unfunded Accrued Liability Bases

The Initial Unfunded Accrued Liability (UAL) is being amortized over a closed 22-year period using Increasing Dollar Payments (IDP). Under IDP, amortization payments increase by 3.0% per year, consistent with the assumed rate of General Wage Increases. If all Actuarial Contributions are made, there will be no UAL at June 30, 2032, except for UAL arising from actuarial gains or losses, benefit changes, and changes in actuarial assumptions and methods. UALs established after June 30, 2010 are generally amortized using Level Dollar Payments (LDP) as follows:

- Benefit Changes Over the remaining working lifetimes of those impacted, unless the amortization period is determined by statute.
- Assumption and/or Method Changes Over a closed 20-year period.
- Actuarial Gains and Losses Over a closed 15-year period.

Under the One-Year Lag methodology (OYLM), the number of payments is one less than the number of years in the amortization period (e.g. 14 payments over a closed 15-year amortization period).

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM SCHEDULE OF UNFUNDED ACCRUED LIABILITY BASES								
		50	HEDULE OF U	(\$ Millions)) LIABILITY BA	ASES	
Amortization Base	Date Established		Original Amount	Amortization Period/Method ¹		mortization Payment	Years/ Payments Remaining	OYLM UAAL June 30, 2016
Initial UAL	6/30/10	\$	22,502 2	22 Years	\$	1,812	16/16	\$ 20,761 ³
(Gain)/Loss	6/30/11	\$	(251)	15 Years	\$	(30)	10/10	\$ (216)
(Gain)/Loss	6/30/12	\$	(62)	15 Years	\$	(7)	11/11	\$ (57)
(Gain)/Loss	6/30/13	\$	83	15 Years	\$	10	12/12	\$ 81
Transit Refund	6/30/13	\$	<1	5 Years	\$	<1	2/2	\$ <1
(Gain)/Loss	6/30/14	\$	(1,303)	15 Years	\$	(154)	13/13	\$ (1,332)
Assumption Change ⁴	6/30/14	\$	2,329	20 Years	\$	233	18/18	\$ 2,425
(Gain)/Loss	6/30/15	\$	(426)	15 Years	\$	(50)	14/14	\$ (456)
(Gain)/Loss	6/30/16	\$	(256)	15 Years	\$	(30)	15/14	\$ (256)
Assumption Change ⁵	6/30/16	\$	19	20 Years	\$	2	20/19	\$ 19
SADB	6/30/16	\$	21	15 Years	\$	2	15/14	\$ 21
SADB Sanitation Retirees	6/30/16	\$	34	5 Years	\$	10	5/4	\$ 34
SADB Sanitation Actives	6/30/16	\$	5	11 Years	\$	<1	11/10	\$ 5

Table III-2 shows the Schedule of Unfunded Accrued Liability Bases as of June 30, 2016.

¹ All amortizations are level dollar payments except for the initial UAL which is being amortized with payments increasing by 3.0% per year.

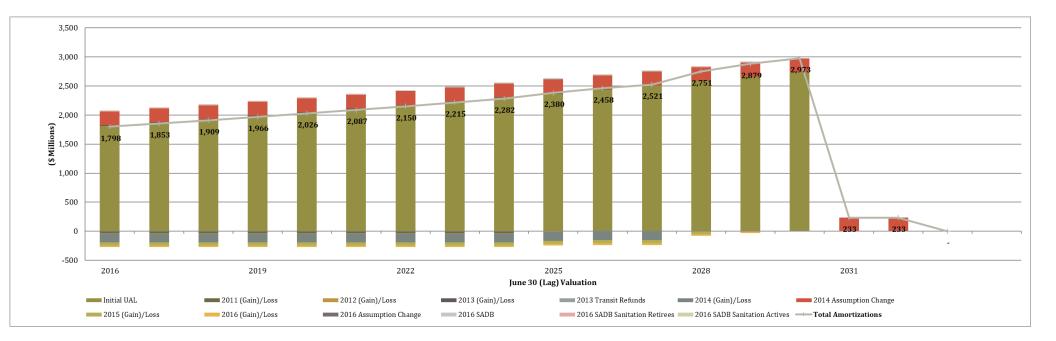
² Amount before reflecting adjustments under OYLM.

³ Reflects adjustments under OLYM in year established

⁴ Change in post retirement mortality assumptions including the change to the mortality improvement scale MP-2015.

⁵ Change in Accidental rates for Tier 6 members of Sanitation and Corrections using a more empirical methodology.

Graph III-3 Remaining UAL Base Amortizations as of June 30, 2016



	Amounts (\$ Thousands) Remaining to be Amortized, as of						
June 30 (Lag) Valuation Date	2010	2011	2012	2013	2014	2015	2016
Initial Unfunded, June 30, 2010	\$ 20,194,114	\$ 21,607,703	\$ 21,550,811	\$ 21,442,855	\$ 21,278,846	\$ 21,053,406	\$ 20,760,737
- 2010 ERI		7,140	7,640	5,919	4,078	2,108	0
- 2011 (Gain)/Loss		(250,821)	(268,378)	(256,477)	(243,742)	(230,117)	(215,537)
- 2012 (Gain)/Loss			(62,429)	(66,799)	(63,837)	(60,668)	(57,276)
- 2013 (Gain)/Loss				83,181	89,004	85,057	80,834
- 2013 Transit Refunds				320	342	265	183
- 2014 (Gain)/Loss					(1,302,740)	(1,393,930)	(1,332,117)
- 2014 Assumption Change					2,328,933	2,491,958	2,425,291
- 2015 (Gain)/Loss						(426,054)	(455,878)
- 2016 (Gain)/Loss							(256,449)
- 2016 Assumption Change							19,238
- 2016 SADB							20,783
- 2016 SADB Sanitation Retirees							34,163
- 2016 SADB Sanitation Actives							4,530
Sum of Outstanding Amortization Amounts	\$ 20,194,114	\$ 21,364,022	\$ 21,227,644	\$ 21,208,999	\$ 22,090,884	\$ 21,522,025	\$ 21,028,502

Table III-4 Reconciliation of Outstanding UAL Bases

June 30 (Lag) Valuation Date	2010	2011	2012	2013	2014	2015	2016
1. Accrued Liability (AL)	\$ 62,935,267	\$ 65,269,251	\$ 67,417,018	\$ 70,028,252	\$ 74,123,437	\$ 76,678,220	\$ 79,081,183
2. Actuarial Value of Assets (AVA)	40,433,344	42,409,059	44,676,721	47,282,884	50,505,971	53,573,694	56,491,829
3. Unfunded Accrued Liability (UAL) (1 2.)	22,501,923	22,860,192	22,740,297	22,745,368	23,617,466	23,104,526	22,589,354
4. PV 1-year Adjusted Employer Contribution	2,307,809	1,397,601	1,411,790	1,433,172	1,424,839	1,474,561	1,446,072
5. PV Future Administrative Expense Reimbursement	0	98,569	100,863	103,197	101,743	107,940	114,780
6. Adjusted UAL (3 4 5.)	\$ 20,194,114	\$ 21,364,022	\$ 21,227,644	\$ 21,208,999	\$ 22,090,884	\$ 21,522,025	\$ 21,028,502

Table III-5Actuarial and Statutory Contribution History

	(\$ Thousands)									
Fiscal Year Ended June 30	Actuarial Contribution Certified	Statutory Contribution Contributed	Percentage of Actuarial Contribution Contributed							
2009	\$ 2,150,438	\$ 2,150,438	100.0%							
2010	2,197,717	2,197,717	100.0%							
2011	2,387,216	2,387,216	100.0%							
2012	3,017,004	3,017,004	100.0%							
2013	3,046,845	3,046,845	100.0%							
2014	3,114,068	3,114,068	100.0%							
2015	3,160,258	3,160,258	100.0%							
2016	3,365,454	3,365,454	100.0%							
2017	3,328,193	3,328,193	100.0%							
2018	3,377,024	3,377,024	100.0%							

Table III-5 compares the Statutory Contributions to the Actuarial Contributions for Fiscal Years 2009 through 2018.

Table III-6

City Rates: Contributions as a Percentage of Salary

Table III-6 shows the City Rates defined to be the contributions as a percentage of salary for the Fiscal Years 2009 through 2018.

	CITY RATES (\$ Thousands)										
Fiscal Year Ended June 30	Actuarial Contribution	Salary ¹ at Time = 1.0	City Rate								
2009	\$ 2,150,438	\$ 10,454,191	20.6%								
2010	2,197,717	10,977,797	20.0%								
2011	2,387,216	11,466,215	20.8%								
2012	3,017,004	11,813,062	25.5%								
2013	3,046,845	11,955,093	25.5%								
2014	3,114,068	12,183,011	25.6%								
2015	3,160,258	12,314,958	25.7%								
2016	3,365,454	12,336,979	27.3%								
2017	3,328,193	12,555,242	26.5%								
2018	3,377,024	12,834,130	26.3%								

¹Includes the impact of recent labor contract settlements and certain non-union salary increases with retroactive effective dates, if any.

SECTION IV – RESULTS BY CONTRIBUTING ENTITY

Table IV-1

Employer Contributions by Obligor: Transit Authority and Housing Authority

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM SUMMARY OF EMPLOYER CONTRIBUTION BY OBLIGOR: TRANSIT AUTHORITY AND HOUSING AUTHORITY														
Valuation Date]	June	e 30, 2016 (Lag))					
Fiscal Year								2018						
Obligor	Aut	YC Transit thority: CP ngineers		NYC Transit hority: Transit Police	it NYC Transit Authority: Others			NYC Transit Authority Subtotal		NYC Housing Authority: ousing Police	IYC Housing hority: Others	NYC Housing Authority Subtotal		
 Contribution Normal Cost Amortization of Unfunded Accrued Liability Administrative Expenses Interest on Late Employer Contributions Actuarial Contribution (1. + 2. + 3. +4.) 	\$	8,421,675 18,673,062 337,308 0 27,432,045		0 24,992,427 373,722 0 25,366,149	\$	320,925,972 399,850,848 12,528,473 0 733,305,293	\$	329,347,647 443,516,337 13,239,503 0 786,103,487	\$	0 10,417,811 159,768 0 10,577,579	\$ 60,478,099 90,352,061 3,579,713 0 154,409,873	\$	60,478,099 100,769,872 3,739,481 0 164,987,452	

Table IV-2Employer Contributions by Obligor: All

			RK CITY EMPLOYEES OF EMPLOYER CON									
Valuation Date						Jun	ne 30, 2016 (Lag)					
Fiscal Year							2018					
Obligor	NYC Transit Aut Subtotal	~	NYC Housing Authority Subtotal		YC Health and Hospitals Corporation	Tr	iborough Bridge and Tunnel Authority	NYC Off-Track ting Corporation	I	NYC Housing Development Corporation	Со	YC School Instruction Authority
Contribution 1. Normal Cost 2. Amortization of Unfunded Accrued Liability 3. Administrative Expenses 4. Interest on Late Employer Contributions 5. Actuarial Contribution (1. + 2. + 3. +4.)	443,51 13,23	17,647 16,337 39,503 0 33,487	100,769,872 3,739,481 0	_	231,765,486 252,254,629 10,669,274 12,645,856 507,335,245		13,926,221 24,576,305 495,682 0 38,998,208	 0 12,319,536 269,184 <u>5,780,587</u> 18,369,307	\$	1,144,263 556,466 23,521 0 1,724,250		647,746 1,016,463 18,120 0 1,682,329
Obligor	State Judicia Employee		NYC Municipal Water Authority		CUNY Senior Colleges		Correction	Sanitation	All	Others (i.e. New York City)		Total
Contribution 1. Normal Cost 2. Amortization of Unfunded Accrued Liability 3. Administrative Expenses 4. Interest on Late Employer Contributions 5. Actuarial Contribution (1. + 2. + 3. +4.)		0 59,053 20,036 <u>0</u> 79,089	(13,888) 2,265	_	23,609,941 19,953,951 1,263,684 0 44,827,576		180,754,123 199,424,285 3,653,761 0 383,832,169	 133,824,025 159,986,773 3,306,870 0 297,117,668	\$	521,988,283 582,567,570 26,000,050 0 1,130,555,903	1,	497,608,947 798,287,352 62,701,431 18,426,443 377,024,173

Table IV-3Accrued Liabilities by Obligor: Transit Authority and Housing Authority

SUMMAR	Y OF LIA				RETIREMENT SYS	TEM Y AND HOUSING A	UTH	IORITY			
Valuation Date						June 30, 2016 (Lag	g)				
Fiscal Year						2018					
Obligor		NYC Transit Authority: CP Engineers	NYC Transit hority: Transit Police	A	NYC Transit Authority: Others	NYC Transit Authority Subtotal		NYC Housing thority: Housing Police	NYC Housing uthority: Others	Au	NYC Housing Ithority Subtotal
Accrued Liability 1. Active Members 2. Active/Inactive Members ¹ 3. Terminated Vested Members 4. Retirees and Beneficiaries 5. Accrued Liability Pre-Adjustments (1. to 4.) 6. Actuarial Adjustments ² 7. Total Accrued Liability (5. + 6.)	\$	315,930,904 6,537,937 5,784,672 <u>367,114,306</u> 695,367,819 <u>0</u> 695,367,819	\$ 0 0 561,754,200 561,754,200 57,563,543 619,317,743	\$	185,682,782 97,770,176 9,287,557,149 17,586,660,614 27,000,000	192,220,719 103,554,848 <u>10,216,425,655</u> \$18,843,782,633 <u>84,563,543</u>	\$	0 0 246,426,704 246,426,704 38,306,351 284,733,055	 1,762,082,451 63,396,220 51,654,143 2,099,388,531 3,976,521,345 0 3,976,521,345	\$ \$ \$	1,762,082,451 63,396,220 51,654,143 2,345,815,235 4,222,948,049 38,306,351 4,261,254,400
 Present Value of Future Benefits Active Members Active/Inactive Members¹ Terminated Vested Members Retirees and Beneficiaries Present Value of Benefits (1. to 4.) Actuarial Adjustments² Total Present Value of Future Benefits (5. + 6.) 	\$ \$ \$	384,121,063 6,537,937 5,784,672 367,114,306 763,557,978 0 763,557,978	\$ 0 0 561,754,200 561,754,200 57,563,543 619,317,743	\$	185,682,782 97,770,176 9,287,557,149 20,900,437,939 27,000,000	\$ 11,713,548,895 192,220,719 103,554,848 <u>10,216,425,655</u> \$ 22,225,750,117 <u>84,563,543</u> \$ 22,310,313,660	\$	0 0 246,426,704 246,426,704 38,306,351 284,733,055	 0	\$ \$ \$	2,431,275,846 63,396,220 51,654,143 2,345,815,235 4,892,141,444 38,306,351 4,930,447,795

 $^{1}\,$ Represents members no longer on payroll, but not otherwise classified.

² Includes unfunded VSF Accrued Liability and other actuarial loading adjustments.

Table IV-4 Accrued Liabilities by Obligor: All

		Ν	JEW	YORK CITY EMPLO	YEE	S' RETIREMENT SY	STI	EM						
SUMMARY OF LIABILITY BY STATUS AND OBLIGOR														
Valuation Date							J	une 30, 2016 (Lag)						
Fiscal Year							Ó	2018						
Obligor	NY	C Transit Authority Subtotal	NYC	C Housing Authority Subtotal		NYC Health and spitals Corporation		iborough Bridge and Tunnel Authority	NY	C Off-Track Betting Corporation		NYC Housing Development Corporation	Cons	NYC School truction Authority
Accrued Liability 1. Active Members 2. Active/Inactive Members ¹ 3. Terminated Vested Members	\$	8,331,581,411 192,220,719 103,554,848	\$	1,762,082,451 63,396,220 51,654,143	\$	4,769,894,601 140,438,563 141,438,686	\$	374,311,365 6,734,861 7,596,192	\$	0 302,739 22,096,856	\$	16,911,891 573,898 102,654	\$	22,821,918 304,654 1,060,054
 Retirees and Beneficiaries Accrued Liability Pre-Adjustments (1. to 4.) Actuarial Adjustments² 	\$	10,216,425,655 18,843,782,633 84,563,543	\$	2,345,815,235 4,222,948,049 38,306,351	\$	5,495,071,240 10,546,843,090 0	\$	545,883,438 934,525,856 9,000,000	\$	304,149,424 326,549,019 0	\$	12,264,017 29,852,460 0	\$	18,530,486 42,717,112 (
7. Total Accrued Liability (5. + 6.)	\$	18,928,346,176	\$	4,261,254,400	\$	10,546,843,090	\$	943,525,856	\$	326,549,019	\$	29,852,460	\$	42,717,112
Present Value of Future Benefits 1. Active Members 2. Active/Inactive Members ¹	\$	11,713,548,895 192,220,719	\$	2,431,275,846 63,396,220	\$	7,284,972,073 140,438,563	\$	523,830,361 6,734,861	\$	0 302,739	\$	27,591,055 573,898	\$	27,767,719 304,654
 Terminated Vested Members Retirees and Beneficiaries 		103,554,848 10,216,425,655	_	51,654,143 2,345,815,235		141,438,686 5,495,071,240	_	7,596,192 545,883,438	<i>*</i>	22,096,856 304,149,424	*	102,654 12,264,017	_	1,060,054 18,530,486
5. Present Value of Benefits (1. to 4.) 6. Actuarial Adjustments ² 7. Total Present Value of Future Benefits (5. + 6.)	\$ 	22,225,750,117 84,563,543 22,310,313,660	\$ \$	38,306,351	\$	13,061,920,562 0 13,061,920,562	\$ \$	9,000,000	\$ \$	326,549,019 0 326,549,019		40,531,624 0 40,531,624	\$	47,662,913 (47,662,913
Obligor		State Judiciary Employees		C Municipal Water Authority	CUN	NY Senior Colleges		Correction		Sanitation		l Others (i.e. New York City)		Total
Accrued Liability														
 Active Members Active/Inactive Members¹ Terminated Vested Members 	\$	0 0 0	\$	1,776,310 36,230 0	\$	517,597,493 19,353,300 7,161,297	\$	107,197,068 36,987,452	\$	2,057,717,042 35,998,942 12,548,175	\$	13,291,565,534 437,119,874 351,010,599	\$	33,499,238,864 1,003,677,068 735,210,956
 Retirees and Beneficiaries Accrued Liability Pre-Adjustments (1. to 4.) Actuarial Adjustments² 	\$	18,709,194 18,709,194 0	\$	692,370 2,504,910 0	\$	370,836,040 914,948,130 6,000,000	\$	5,311,785,329 7,808,948,697 1,205,562,216	\$	4,070,331,096 6,176,595,255 128,693,732	\$	13,541,057,442 27,620,753,449 119,379,509	\$	42,251,550,966 77,489,677,854 1,591,505,351
7. Total Accrued Liability (5. + 6.)	\$	18,709,194	\$	2,504,910	\$	920,948,130	\$	9,014,510,913	\$	6,305,288,987	\$	27,740,132,958	\$	79,081,183,205
Present Value of Future Benefits 1. Active Members 2. Active/Inactive Members ¹ 3. Terminated Vested Members	\$	0 0 0	\$	3,105,428 36,230 0	\$	788,403,287 19,353,300 7,161,297	\$	4,080,181,746 107,197,068 36,987,452	\$	3,492,693,237 35,998,942 12,548,175	\$	19,614,772,261 437,119,874 351,010,599	\$	49,988,141,908 1,003,677,068 735,210,956
 4. Retirees and Beneficiaries 5. Present Value of Benefits (1. to 4.) 6. Actuarial Adjustments² 	\$	18,709,194 18,709,194 0	\$	692,370 3,834,028 0	\$	370,836,040 1,185,753,924 6,000,000	\$	1,390,921,235	\$	4,070,331,096 7,611,571,450 128,693,732		13,541,057,442 33,943,960,176 119,379,509	\$	42,251,550,960 93,978,580,89 1,776,864,370
7. Total Present Value of Future Benefits (5. + 6.)	\$	18,709,194	\$	3,834,028	\$	1,191,753,924	\$	10,927,072,830	\$	7,740,265,182	\$	34,063,339,685	\$	95,755,445,26

Represents members no longer on payroll, but not otherwise classified.
 Includes unfunded VSF Accrued Liability and other actuarial loading adjustments.

Table IV-5Participant Data by Obligor: Transit Authority and Housing Authority

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM SUMMARY OF PARTICIPANT DATA BY OBLIGOR: TRANSIT AUTHORITY AND HOUSING AUTHORITY														
Valuation Date							Jun	ne 30, 2016 (Lag)						
Fiscal Year		2018												
Obligor		Transit Authority: CP Engineers		NYC Transit hority: Transit Police		NYC Transit thority: Others	Au	NYC Transit uthority Subtotal		NYC Housing thority: Housing Police	A	NYC Housing Authority: Others		IYC Housing hority Subtotal
 Participant Data Active Members Number Annual Salary¹ Average Salary Active/Inactive Members² Terminated Vested Members Retirees and Beneficiaries Number Total Annual Benefits Average Annual Benefit 	\$ \$ \$	900 88,784,421 98,649 39 49 948 37,778,743 39,851	\$	0 0 0 2,145 64,196,639 29,929		79,474 2,393 1,045 30,703	\$ \$ \$	2,432 1,094 33,796 1,056,290,826	\$	0 0 0 0 917 28,639,443 31,232	\$ \$ \$	63,393 1,015 620 8,997 206,329,784	\$ \$	9,914 628,478,856 63,393 1,015 620 9,914 234,969,227 23,701

¹ Salaries shown are base salary plus assumed overtime and reflect the impact of recent labor contract settlements and certain non-union salary increases with retroactive effective dates, if any.

² Represents members no longer on payroll, but not otherwise classified.

Table IV-6Participant Data by Obligor: All

				TY EMPLOYEES'									
Valuation Date						Ju	ne 30, 2016 (Lag)						
Fiscal Year							2018						
Obligor	Au	NYC Transit 1thority Subtotal		NYC Housing ithority Subtotal	IYC Health and Hospitals Corporation	Tr	riborough Bridge and Tunnel Authority		NYC Off-Track etting Corporation		NYC Housing Development Corporation		NYC School Construction Authority
Participant Data 1. Active Members a. Number b. Annual Salary ¹ c. Average Salary 2. Active/Inactive Members ² 3. Terminated Vested Members 4. Retirees and Beneficiaries a. Number b. Total Annual Benefit c. Average Annual Benefit	\$ \$ \$	38,667 3,090,263,273 79,920 2,432 1,094 33,796 1,056,290,826 31,255	\$	9,914 628,478,856 63,393 1,015 620 9,914 234,969,227 23,701	\$ 3,910 1,807 23,198	\$	1,311 126,573,449 96,547 94 64 1,376 51,969,556 37,769	\$ \$ \$	0 0 4 295 1,246 30,438,581 24,429	\$ \$ \$	93,089 10 1 27 5 1,157,165	\$	55 6,268,836 113,979 4 7 38 1,706,089 44,897
Obligor	:	State Judiciary Employees		NYC Municipal Vater Authority	CUNY Senior Colleges		Correction		Sanitation	A	All Others (i.e. New York City)		Total
Participant Data 1. Active Members a. Number b. Annual Salary ¹ c. Average Salary 2. Active/Inactive Members ² 3. Terminated Vested Members 4. Retirees and Beneficiaries a. Number b. Total Annual Benefits c. Average Annual Benefit	\$ \$ \$	0 0 0 115 3,377,223 29,367	\$ \$ \$	10 1,015,014 101,501 2 0 1 63,875 63,875	\$ 4,350 238,430,426 54,812 769 100 2,034 38,592,398 18,974	\$	8,815 759,133,694 86,118 625 244 11,287 449,011,297 39,781	\$ \$ \$	7,338 663,846,082 90,467 170 65 11,407 404,004,762 35,417	\$	5 66,170 8,954 4,598 53,075 5 1,368,145,923	\$ \$	185,481 13,216,539,355 71,255 17,989 8,895 147,514 4,179,496,621 28,333

¹ Salaries shown are base salary plus assumed overtime and reflect the impact of recent labor contract settlements and certain non-union salary increases with retroactive effective dates, if any.

² Represents members no longer on payroll, but not otherwise classified.

SECTION V - (GAIN)/LOSS ANALYSIS

Table V-1 Development of Experience (Gain)/Loss

Table V-1 develops the asset and liability (Gain)/Loss between the June 30, 2015 (Lag) actuarial valuation and the June 30, 2016 (Lag) actuarial valuation.¹

	DEVELOPMENT OF EXPERIENCE (GAIN) / LOSS June 30, 2016 (\$ Thousands)		
1.	Expected Accrued Liability (AL) a. AL at June 30, 2015 b. Total Normal Cost and Administrative Expenses at June 30, 2015 c. Interest on 1.a. and 1.b. to June 30, 2016 d. Fiscal Year 2016 Benefit Payments with Interest to June 30, 2016 e. Expected AL at June 30, 2016	\$	76,873,488 1,899,538 5,514,111 (4,650,884) 79,636,253
2.	Actual AL at June 30, 2016 before changes ²	\$	79,074,823
3.	 Expected Total Actuarial Value of Assets (AVA) a. Total at June 30, 2015 b. Interest on 3.a. to June 30, 2016 c. Total Contributions Paid in Fiscal Year 2016 d. Interest on 3.c. to June 30, 2016 e. Fiscal Year 2016 Benefit Payments with Interest to June 30, 2016 (1.d.) f. Expected Total at June 30, 2016 	\$ \$	53,768,962 3,763,827 3,850,962 132,504 (4,650,884) 56,865,371
4.	Actual Total AVA at June 30, 2016	\$	56,560,390
5.	Liability (Gain) / Loss (2 1.e.)	\$	(561,430)
6.	Actuarial Asset (Gain) / Loss (3.f 4.)	\$	304,981
7.	Total Actuarial (Gain) / Loss (5. + 6.)	\$	(256,449)

¹ Includes results for Variable Supplements Funds.

² Enhanced ADR and SADB.

SECTION VI – SCHEDULE OF FUNDING PROGRESS

A schedule of funding progress is provided below. This schedule of funding progress was previously required by GASB 25, which has been superseded by GASB 67, and is provided for historical context. These liability and asset measures are used to develop the Actuarial Contribution and are not suitable for other purposes including, but not limited to, settlement of plan obligations.

Table VI-1Schedule of Funding Progress

	NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM (\$ Thousands)									
June 30 (Lag) Valuation Date	(1) Actuarial Value of Assets (AVA)	(2) Accrued Liability (AL)	(3) Unfunded AL (UAL) (2) - (1)	(4) Funded Ratio (1) / (2)	(5) Covered Payroll	(6) UAL as a % of Covered Payroll (3) / (5)				
2007	38,925,725	49,253,216	10,327,491	79.0%	10,761,963	96.0%				
2008	40,722,228	51,114,399	10,392,171	79.7%	11,305,974	91.9%				
2009	41,710,159	53,052,658	11,342,499	78.6%	11,880,994	95.5%				
2010	40,433,344	62,935,267	22,501,923	64.2%	12,101,417	185.9%				
2011	42,409,059	65,269,251	22,860,192	65.0%	12,233,573	186.9%				
2012	44,676,721	67,417,018	22,740,297	66.3%	12,478,130	182.2%				
2013	47,282,884	70,028,252	22,745,368	67.5%	12,642,483	179.9%				
2014	50,505,971	74,123,437	23,617,466	68.1%	12,672,387	186.4%				
2015	53,573,694	76,678,220	23,104,526	69.9%	12,917,467	178.9%				
2016	56,491,829	79,081,183	22,589,354	71.4%	13,216,539	170.9%				

Effective June 30, 2010, AL is based on the Entry Age Normal cost method. Previously, the Frozen Initial Liability Cost method was used. Salaries reflect the impact of recent labor contract settlements and certain non-union salary increases with retroactive effective dates, if any.

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SECTION VII - VARIABLE SUPPLEMENTS FUNDS (VSF)

NYCERS administers the Correction Officers' Variable Supplements Fund (COVSF), Housing Police Officer's Variable Supplements Fund (HPOVSF), Housing Police Superior Officers' Variable Supplements Fund (HPSOVSF), Transit Police Officer's Variable Supplements Fund (TPOVSF), and the Transit Police Superior Officers' Variable Supplements Fund (TPSOVSF).

They operate pursuant to the provisions of Title 13, Chapter 1 of the Administrative Code of the City of New York (ACCNY) and provide supplemental benefits as follows:

COVSF: Retired Members of the Uniformed Correction Force (UCF). To be eligible to receive benefits, members of the UCF must retire, on or after July 1, 1999 with at least 20 or 25 years of service depending on the underlying plan, and be receiving a service retirement benefit from NYCERS.

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

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

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

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

Table VII-1VSF Accrued Liability

Valuation Date	Jur	ne 30, 2016	Ju	ine 30, 2015
COVSF	÷			
Active		324,939,445	\$	338,122,856
Retiree		933,183,951		945,692,528
Total	\$1,	258,123,396	\$ 1	1,283,815,384
HPOVSF				
Active	\$	0	\$	0
Retiree		16,005,793		17,273,511
Total	\$	16,005,793	\$	17,273,511
HPSOVSF				
Active	\$	0	\$	0
Retiree		22,300,558		23,282,499
Total	\$	22,300,558	\$	23,282,499
TPOVSF				
Active	\$	0	\$	0
Retiree		32,689,073		34,279,665
Total	\$	32,689,073		34,279,665
TPSOVSF				
Active	\$	0	\$	0
Retiree		24,874,470		26,294,582
Total	\$	24,874,470	\$	26,294,582

Table VII-2 VSF Member Data

VARIABLE SUPPLEMENTS FUNDS

MEMBERS INCLUDED IN THE

JUNE 30, 2016 (Lag) AND THE JUNE 30, 2015 (Lag) ACTUARIAL VALUATIONS

	June 30, 2016	June 30, 2015		
COVSF				
Actives				
Number	8,815	8,466		
Average Age	41.04	41.88		
Retirees				
Number	7,424	6,850		
Average Age	57.22	56.54		
HPOVSF				
Actives				
Number	0	0		
Average Age	0	0		
Retirees				
Number	160	170		
Average Age	73.19	72.56		
HPSOVSF				
Actives				
Number	0	0		
Average Age	0	0		
Retirees				
Number	220	224		
Average Age	72.69	71.72		
TPOVSF				
Actives				
Number	0	0		
Average Age	0	0		
Retirees				
Number	325	333		
Average Age	73.02	72.14		
TPSOVSF				
Actives				
Number	0	0		
Average Age	0	0		
Retirees				
Number	247	255		
Average Age	72.98	72.08		

(\$ Thousands)									
Valuation Date	June 30, 2016				June 30, 2015				
		MVA ¹	AVA		MVA ²		AVA		
COVSF	\$	46,942	\$	68,561	\$	179,399	\$	195,268	
HPOVSF		0		0		0		0	
HPSOVSF		0		0		0		0	
TPOVSF		0		0		0		0	
TPSOVSF		0		0		0		0	
TOTAL	\$	46,942	\$	68,561	\$	179,399	\$	195,268	

Table VII-3 VSF Statement of Assets

¹ Includes Accrued Benefits Payable of \$41,925,000 for COVSF.

² Includes Accrued Benefits Payable of \$39,693,000 for COVSF.

Table VII-4

Development of VSF Actuarial Value of Assets as of June 30, 2016

(\$ Thousands)				
		COVSF		
1 Mardad Walter of Assache (MWA) (Nation (Assached David (Bernahlis)				
1. Market Value of Assets (MVA) (Net of Accrued Benefits Payable)	¢	120 70		
a. Beginning of Year (BOY)	\$	139,70		
b. End of Year (EOY)	\$	5,01		
2. Contributions	¢			
a. Employee	\$			
b. Employer	¢			
c. Total Contributions	\$	(50.0)		
3. Benefit Payments and Other Cash Flow	\$	(79,9)		
4. Preliminary SKIM from NYCERS to VSFs - EOY	\$	(52,72		
5. Net Cash Flow (2.c. + 3. + 4.)	\$	(132,64		
6. Net Investment Income				
a. Investment Income	\$	18		
b. Investment Expenses				
c. Total Net Investment Income	\$	18		
7. Average invested assets				
a. AVA @ BOY	\$	195,2		
b. 1/2 Net Cash Flow before SKIM		<u>(39,9</u>		
((2.c. + 3.) / 2)				
c. Total	\$	155,3		
8. Expected Rate of Return (AIR)		7.0		
9. Expected Investment Return (EIR) (7.c. x 8.)	\$	10,8		
10. Unexpected Investment Return (UIR) (6.c 9.)	\$	(10,6		
11. Preliminary AVA @ EOY				
a. AVA @ BOY	\$	195,2		
b. Net Cash Flow (5.)		(132,64		
c. Expected Investment Return (9.)		10,8		
d. Phase in of UIR				
15% * UIR for prior year		(1,6		
15% * UIR for second prior year		(2,0)		
15% * UIR for third prior year		(4)		
15% * UIR for fourth prior year		(39		
20% * UIR for fifth prior year		(4		
20% * UIR for sixth prior year				
Total	\$	(4,93		
e. AVA (11.a. + 11.b. + 11.c. + 11.d.)	\$	68,50		
12. Final AVA at EOY	\$	68,56		

Table VII-5SKIM Calculation as of June 30, 2016

For details, see Summary of VSF Actuarial Assumptions and Methods.

(\$ Thousands)		Final
Total NYCERS Pension Fund	÷	
1. FY2016 Equity Earnings	\$	145,214
2. FY2016 Hypothetical Earnings	\$	847,260
3. FY2016 Excess Earnings (1 2.)	\$	(702,046)
4. Deficit at June 30, 2015		0
5. Hypothetical Interest Rate (HIR)		2.324%
6. Deficit with interest (4. x (1+HIR))		0
7. Potential SKIM (3 6.)		0
		COVSF
Allocations to VSF - NA ¹		
8. Allocation Percentage		NA
9. Potential SKIM (7. x 8.)		NA
10. Accumulated Benefit Obligation		NA
11. MVA Prior to SKIM	\$	46,942
12. ABO Gate = (10 11.)		NA
13. SKIM Payable (Lesser of 9 and 12, not less than zero)		NA
14. Rounded Estimate, for FY16 Financial Statements		<u>NA</u>

¹ Not calculated due to no potential SKIM.

Summary of VSF Plan Provisions

A. Eligibility

Service Retirement with at least 20 years of allowable service on or after July 1, 1999 for COVSF and on or after July 1, 1987 for HPOVSF, HPSOVSF, TPOVSF, and TPSOVSF. This benefit is not payable to disability retirees, vested retirees, or beneficiaries of members who die while eligible for service retirement.

B. Benefits

The benefit is currently \$12,000 per year, prorated in the first year and in the year of death based on the number of full months of retirement. The month of retirement and the month of death are not included in these two prorations. COVSF payments prior to Calendar Year 2019 are only paid if the assets in the COVSF are sufficient to pay the full amount due to all eligible retirees.

C. Cost of Living Benefits

Any Auto COLA payable to a retiree reduces VSF benefits by an amount equal to such Auto COLA until the attainment of age 62.

D. Form of Payment

Life annuity payable annually on or about December 15 for the current calendar year.

Summary of VSF Actuarial Assumptions and Methods

Assumptions not detailed below are as described in SECTION XII – ACTUARIAL ASSUMPTIONS AND METHODS (2016 A&M).

- 1. **COLA**: 1.5% per year for Auto COLA, used to estimate future COLA on the first \$18,000 of NYCERS benefits which, in general, reduces benefits payable by the Fund until age 62.
- 2. Actuarial Asset Valuation Method: Information on the Market Value of Assets (MVA) of the Variable Supplements Funds (VSF) is provided by the Office of the Comptroller. The same Actuarial Asset Valuation Method (AAVM) is used to determine the Actuarial Value of Assets (AVA) of the COVSF, HPOVSF, HPSOVSF, TPOVSF, and TPSOVSF as is used to determine the AVA of the Plan. For more information, see SECTION II MARKET AND ACTUARIAL VALUES OF ASSETS.
- 3. Liability Method: The obligations of NYCERS to the COVSF, HPOVSF, HPSOVSF, TPOVSF, and TPSOVSF are recognized through a methodology where the PV of future VSF transfers from NYCERS to the COVSF, HPOVSF, HPSOVSF, TPOVSF, and TPSOVSF is included directly as an actuarial liability of NYCERS. This amount is computed as the excess, if any, of the PV of benefits of the COVSF, HPOVSF, HPSOVSF, HPSOVSF, TPOVSF, and TPSOVSF over the AVA of the COVSF, HPOVSF, HPSOVSF, TPOVSF, and TPSOVSF over the AVA of the COVSF, HPSOVSF, TPOVSF, and TPSOVSF, respectively. Under EAN, a portion of the PV of future VSF transfers is reflected in the PV of future normal costs and a portion is reflected in the UAL.
- 4. **SKIM Calculation**: The ACCNY provides that the NYCERS transfer to COVSF a fraction of certain excess earnings on NYCERS equity investments, where such fraction reflects the ratio of Uniformed Correction member salaries to the salaries of all active members of the NYCERS. The earnings to be transferred are the amount by which earnings on equity investments exceed what the earnings would have been had such funds been invested at the Hypothetical Interest Rate, less any negative Cumulative Earnings Differentials and other limitations, determined as follows:
 - a. *Hypothetical Interest Rate*: 115% of the average of monthly yields of 10-year U.S. Treasury Notes
 - b. *Hypothetical Fixed Income Securities Earnings*: Investment earnings had equities been invested in fixed income securities earning the Hypothetical Interest Rate
 - c. *Earnings Differential*: Difference between actual equity investment earnings and Hypothetical Fixed Income Securities Earnings

d. *Cumulative Earnings Differential*: The current year's positive Earnings Differential, offset by any negative Earnings Differentials from prior years accumulated with interest at the corresponding year's Hypothetical Interest Rate

Under Chapter 255 of the Laws of 2000, the NYCERS is required to make transfers to HPOVSF, HPSOVSF, TPOVSF, and TPSOVSF sufficient to meet their annual benefit payments.

SECTION VIII - RISK AND UNCERTAINTY

The Fiscal Year 2018 employer contribution is based on the census data reported as of June 30, 2016 and on actuarial assumptions and methods adopted by the Board of Trustees during Fiscal Year 2012 and enacted by the New York State Legislature as Chapter 3 of the Laws of 2013 (the 2012 A&M), with revisions made to the post-retirement mortality assumptions and to the AAVM during Fiscal Year 2016 (the 2016 A&M).

The funded status of NYCERS depends highly on the realization of the actuarial assumptions used, as well as certain demographic characteristics of the Plan and other exogenous factors. Many of the risks faced by the Plan are described in fuller detail below; quantifying these risks for the Plan is beyond the scope of this valuation but may be undertaken in future years.

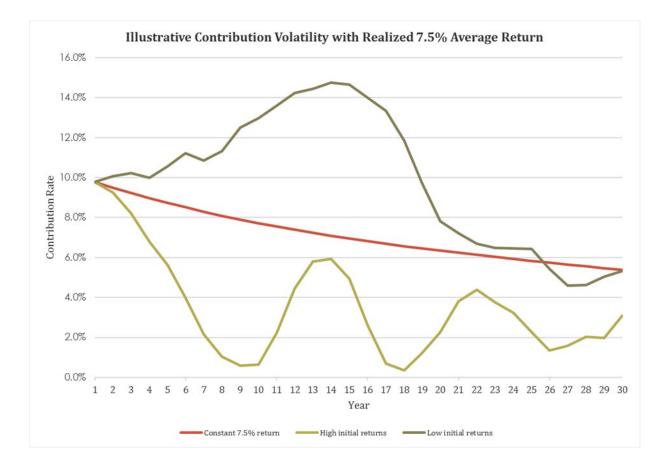
These risks have been separated, based on the Actuary's professional judgements, into high, medium, and low risks.

High Risk Types

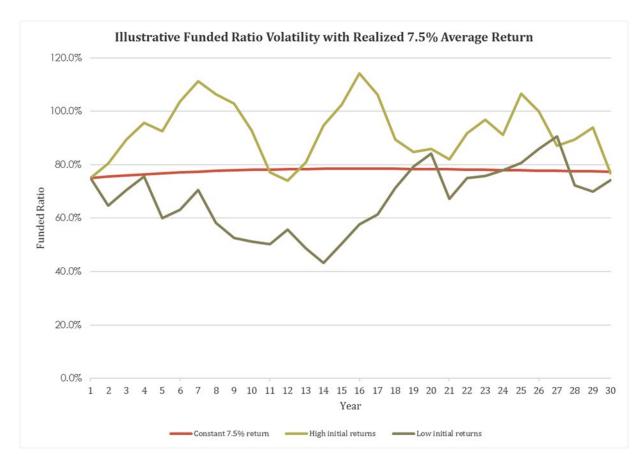
Investment Risk

The most substantial risk for NYCERS is the investment risk that investment returns may be different than assumed. As risk-free investment return rates have fallen in recent decades, more aggressive asset allocations have become necessary to achieve long-term rates of return commensurate with the actuarial assumption of 7.0%.

This investment return volatility can contribute substantially to contribution and funded status volatility, even if the long-term investment return assumption of 7.0% is realized. While not yet available specifically for the Plan, recent research demonstrates this volatility based on a sample public plan with typical characteristics, a typical contribution policy, and a long-term return assumption of 7.5%, which can be realized in different patterns.¹ Similar scenario analysis could be done for NYCERS.



¹ Yin, Yimeng; Boyd, Don. Pension Simulation Project. *The Nelson A. Rockefeller Institute of Government*.



Note that these illustrations show volatility even if long-term expected rates of return are realized. Further risk exists that long-term expected rates of return may not be realized.

Maturity Risk

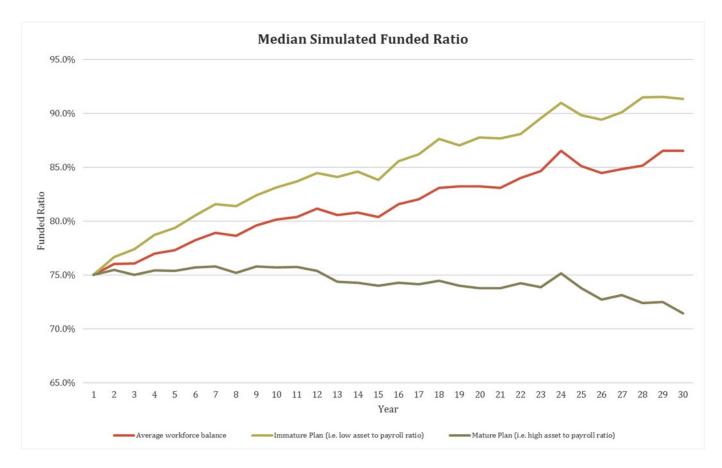
With respect to future fiscal years, it should be noted that NYCERS is a mature retirement system. A mature retirement system has a significant ratio of retirees to active members and, usually, of assets to active member payroll and of Accrued Liability (AL) to active member payroll. These ratios, sometimes known as volatility ratios, for the Plan can be found in the chart below.

Valuation Date	June 30, 2016 (Lag)	June 30, 2015 (Lag)
Fiscal Year	2018	2017
Volatility Ratios 1. Market Value of Assets (MVA) 2. Actuarial Value of Assets (AVA) 3. Accrued Liability 4. Active Salary 5. Asset Volatility Ratio (MVA basis) (1. / 4.) 6. Asset Volatility Ratio (AVA basis) (2. / 4.) 7. Liability Volatility Ratio (3. / 4.)	<pre>\$ 55,489,504,000 56,491,829,000 79,081,183,205 13,216,539,355 4.2 4.3 6.0</pre>	\$ 54,889,324,000 53,573,694,000 76,678,219,599 12,917,466,528 4.2 4.1 5.9

As a plan approaches maturity, Asset Volatility and Liability Volatility Ratios increase, and the plan becomes more sensitive to investment losses. The same percentage of investment losses in more mature plans can increase contributions as a percentage of payroll more so than in less mature plans. Generally, mature plans need to consider more conservative investment strategies. These ratios for the Plan are not yet overly high.

While not available specifically for the Plan, illustrative forecasts of sample plans of various maturities can demonstrate this effect.¹

¹ Boyd, Donald J. and Yin, Yimeng. "How Public Pension Plan Demographic Characteristics Affect Funding and Contribution Risk." Pension Simulation Project. *The Nelson A. Rockefeller Institute of Government*.



A plan's Support Ratio (i.e. the ratio of inactive participants to active participants) is another measure of maturity risk. A low Support Ratio implies that contributions are potentially low as a percentage of active payroll and support the benefit payments of few inactive participants. A high Support Ratio implies that contributions are potentially high as a percentage of active payroll and support the benefit payments. Because the Plan's Support Ratio is low, contributions for active members form a larger proportion of the total actuarial contribution than in more mature pension funds (see Page 82).

Medium Risk Types

Interest Rate Risk

The Accrued Liability for the Plan depends heavily on the actuarial assumption used for future investment returns. While the returns themselves can produce substantial volatility, as detailed in Investment Risk above, the long-term rate of return assumption of 7.0% depends itself on the allocation of Plan assets.

If market conditions or the allocation of Plan assets no longer justifies a long-term rate of return assumption of 7.0%, a reduction in the Actuarial Interest Rate would significantly increase the Accrued Liability and Unfunded Accrued Liability of the Plan, as well as the Normal Cost and resulting contribution. While not on a funding basis, the sensitivity could be expected to be generally similar to the sensitivity reported for GASB 67/68 purposes.¹

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM		
GASB 67/68 SENSITIVITY ANALYSIS AS OF JUNE 30, 2016		
Valuation Date		June 30, 2016
Results at 7.0%		
1. Total Pension Liability	\$	79,839,134,898
2. Plan Fiduciary Net Position		55,542,313,000
3. Net Pension Liability (1 2.)	\$	24,296,821,898
4. Funded Ratio (GASB Basis) (2. / 1.)		69.6%
Results at 6.0%		
1. Total Pension Liability	\$	88,855,746,767
2. Plan Fiduciary Net Position		55,542,313,000
3. Net Pension Liability (1 2.)	\$	33,313,433,767
4. Funded Ratio (GASB Basis) (2. / 1.)		62.5%
Sensitivity Analysis for 1.0% Reduction in Interest Rate		
1. Increase in Total Pension Liability		11.3%
2. Increase in Net Pension Liability		37.1%
3. Decrease in Funded Ratio		7.1%

¹ As disclosed in the fiscal year 2016 report for GASB 67/68, dated October 11, 2016.

Inflation Risk

NYCERS faces risk in the event that inflation is higher than expected. Inflation is a key driver of the salary increase assumptions (affecting active members) and COLA assumptions (affecting both active members and pensioners/beneficiaries). This risk is not currently quantified but should be considered in future years.

Longevity Risk

NYCERS faces risk in its assumption of future mortality rates. Actuarial experience studies were used to develop the base mortality rates assumed in the valuation; Society of Actuaries mortality improvement scale MP-2015 was subsequently applied to these base rates.¹

This scale MP-2015 is an assumption regarding the *improvement* of future mortality rates as compared to mortality when the experience studies were completed. The scale was developed using large amounts of historical data from the Social Security Administration. Risk therefore exists that the mortality improvement inherent in the Plan population is higher than the improvement seen in the population provided by the Social Security Administration.

Furthermore, while the scale uses recent experience to develop short-term mortality improvement rates, an actuarial assumption is applied to long-term mortality improvement rates based on expert opinion. A rate of 1.0% is assumed, which the Society of Actuaries characterizes as "neither overly optimistic nor too pessimistic with respect to future longevity improvements."² Risk to the Plan exists, however, if Plan mortality experience shows higher levels of long-term mortality improvement; expert opinion can in some cases be flawed, particularly when past experience is not indicative or predictive of future experience.

This longevity risk is not currently quantified but should be considered in future years.

¹ Retirement Plans Experience Committee. "Mortality Improvement Scale MP-2015 Report" and "Mortality Improvement Scale MP-2014 report." *Society of Actuaries.*

² Retirement Plans Experience Committee. "Mortality Improvement Scale BB Report" 5.5 Selection of 1.0% Long-Term Rate of Mortality Improvement. *Society of Actuaries*.

Low Risk Types

Credit/Solvency Risk

All public pension systems face credit risk in the event their sponsoring entities become unable to pay their debts and obligations. Credit rating agencies currently consider New York City bonds to be of high quality, and the Actuary believes the City and NYCERS face low solvency risk.

Contribution Risk

Many public pension systems suffer from high contribution risk, wherein sponsoring governmental entities fail to make contributions as determined by the actuary under their funding policies. A recent study found that in 2010, the Annual Required Contribution¹ was not made for over 35% of the 110 public plans in the study.²

The New York City Retirement Systems and Pension Funds face low contribution risk. City benefits are constitutionally protected, and participating employers have generally historically contributed the actuarial contribution as certified by the Actuary. The Actuary believes the City will continue to do so in future years. See Table III-5 Actuarial and Statutory Contribution History risk may also increase in future years as the actuarial contribution determined for the Plan grows to be a larger part of the City budget. The five New York City Retirement Systems and Pension Funds currently require contributions of over 10% of the City's annual budget, and contribution risk may increase if this contribution rate becomes untenable.

Agency Risk

Because of the long-term asset returns and the gradual amortization of unfunded liabilities, the long-term funded status of the Plan is expected to improve. Many public pension systems suffer from agency risk, wherein different stakeholders or agents want to influence the cost calculations in directions favorable to their interests. Agents may also downplay other risks (e.g. investment risk) to advance specific agendas.

In future years of higher funded status, this may become a higher risk to the Plan, as current taxpapers and plan members may receive preferential treatment over future taxpayers and plan members when considering changes in statute and plan provisions.

 $^{^{1}}$ As defined at the time in GASB 25/27.

² Shnitser, Natalya. *"Funding Discipline for U.S. Public Pension Plans: An Empirical Analysis of Institutional Design." Iowa Law Review, Vol. 100 (2015).*

SECTION IX - SUMMARY OF PLAN PROVISIONS

A. Covered Employment

Membership in NYCERS is open to all employees of participating employers who are not eligible for membership in another retirement system. Membership in NYCERS may be voluntary or mandated. Participating Employers include the following:

Employer	Abbreviation
City of New York	NYC
City University of New York	CUNY
NYC Health and Hospitals Corporation	ННС
NYC Housing Authority	HA
NYC Housing Development Corporation	HDC
NYC Municipal Water Finance Authority	WFA
NYC School Construction Authority	SCA
NYC Transit Authority	TRN
NYC Triborough Bridge and Tunnel Authority	TBTA

NYCERS contains benefit plans that are grouped as follows:

Group	Eligible Employees	Abbreviation
District Attorney Investigators		DAI
	Emergency Medical Technicians	EMT
	Fire Alarm Dispatchers	FAD
General (GEN)	Employed in a job title for special peace officers	SPO
General (GEN)	Employed in a job title for automotive service work	AUT
	Deputy Sheriffs	DSH
	Police Communication Technicians	
All others		ОТН
Sanitation	Members of the uniformed force of the NYC Dept. of SAN	
	Sanitation (Uniformed Sanitation Force)	
Transit	Employed in a Transit Operating Force position TRN	
TBTA	TBTA Officers, Sergeants, and Lieutenants employed in TBTA	
	non-managerial positions	
Correction	Members of the uniformed force of the NYC Dept. of COR	
Officers	Correction (Uniformed Correction Force)	

B. Tier Membership

Tier membership is based on the date that the member joined NYCERS. The tier status of earlier membership in NYCERS or another New York City or New York State public employee retirement system is reflected, but only if the service associated with that membership is purchased and included in Credited Service.

All Groups Except Correction Officers	Correction Officers
Tier 1 : Prior to July 1, 1973	Tier 1 : Prior to July 1, 1973
Tier 2: July 1, 1973 through July 26, 1976	Tier 2: July 1, 1973 through July 26, 1976
Tier 4 : July 27, 1976 through March 31, 2012. Members who joined before September 1, 1983 may elect certain grandfathered Tier 3 benefits.	Tier 3 : July 27, 1976 through March 31, 2012
Tier 6 : April 1, 2012	Tier 6 : April 1, 2012

Unless otherwise noted, Tier 1 and Tier 2 provisions are hereafter omitted for brevity, as well as Tier 3 provisions for all groups other than Correction Officers.¹ Certain plans applicable to DAI, SAN, and COR Tier 6 members are denoted as Uniformed Tier 6 plans and DAI, SAN, and COR Tier 6 members are denoted as Uniformed Tier 6 members.

For more information about benefits, see the applicable summary plan descriptions. In the event of a conflict between this summary and applicable law, the applicable laws will govern.

C. Basic Member Contributions

Basic Member Contributions (BMC) earn 5% per year interest compounded annually.

For COR Tier 3 members, all Tier 4 members, and Uniformed Tier 6 members, BMC details are shown in the table below:

Group/Plan(s)	Contribution Rate	Period
TRN 55/25 Tier 4 plans	2.0%	All service
Tier 3 and all other Tier 4 plans	3.0%	The first 10 years of service
Uniformed Tier 6 plans	3.0%	The first 25 years of service

For Tier 6 members other than Uniformed Tier 6 members, BMCs are made for all years of Credited Service according to the following schedule:

Lookback Wages	BMC Contribution Rate
Less than \$45,000	3.00%
\$45,000 up to \$55,000	3.50%
\$55,000 up to \$75,000	4.50%
\$75,000 up to \$100,000	5.75%
Greater than \$100,000	6.00%

¹ Approximately 0.5% of active members as of June 30, 2016 are members of Tier 1 and Tier 2.

The lookback wages used for determining the Tier 6 BMC contribution rate for a plan year are the actual wages earned two plan years prior to the plan year. A projected salary is used during the first 3 years of Credited Service. The BMC contribution rate was limited to 3% from April 1, 2012 through March 31, 2013.

D. Additional Member Contributions

Additional Member Contributions (AMC) including Additional Member Contributions for work in physically taxing employment (AMC-PT) earn 5% per year interest compounded annually. The AMC contribution rate as a percentage of Salary varies by plan in accordance with the following table:

Plan Description	AMC Rate	Years Required
Ch 96 55/25 plans	$-1.85\%^{1}$	30
Ch 96 57/5 plans	1.03%)*	50
EMT 25-year plans	6.25%	
FAD 25-year plans	6.00%	
PCT 25-year plans	6.00%	20
DSH 25-year plans	6.75%	30
SPO 25-year plans	6.25%	
AUT 25-year plans	4.83%	
SAN Tier 4	5.35%	20
SAN Tier 6 22-year revised plan	1.30%	25
COR Tier 3 20-year plan ²	3.61% or 4.61%	20
COR Tier 6 22-year revised plan	0.80%	25
TBTA 50/20 plans ²	5.50% or 6.00%	20
All others	None	N/A

E. Credited Service

Credited Service is comprised of Membership Service, Previous Service, Transferred Service, Part-time Service, and Military Service.

- Membership Service is service earned while a member of NYCERS.
- Previous Service is service earned prior to membership while employed by the City of New York, the State of New York, or any of its political subdivisions, or by another covered employer.
- Transferred Service is service earned as a member of another public retirement system in the City or State of New York.

¹ Members in physically-taxing classifications contribute 1.98% more.

² Contribution rate depends on member's job title.

- Military Service is service for qualified time served in one of the armed forces of the United States.
- Part-time Service is service that is prorated based on the number of hours or days worked in the year.

Previous Service, Transferred Service, and Military Service must be purchased to count as Credited Service. Payments made for purchasing Military Service are considered Employer contributions.

F. Salary

Salary is based on the annual wages earned in covered employment including overtime pay. Some limitations apply for the Salary used to determine Final Average Salary.

Tier 4: Wages greater than 110% of the average of the previous two years are excluded for purposes of determining Final Average Salary.

Tier 6: Wages greater than 110% of the average of the previous four years are excluded for purposes of determining Final Average Salary. In addition, the following payments are also excluded from wages for purposes of determining Final Average Salary:

- 1. Wages greater than the annual salary paid to the Governor of the State of New York;
- 2. Lump sum payments for deferred compensation, sick leave, accumulated vacation or other credits for time not worked;
- 3. For Tier 6 members who are not Uniformed Tier 6 members, overtime greater than the overtime ceiling of \$15,000, effective April 1, 2012 and indexed annually by the Consumer Price Index (CPI-U);
- 4. Any form of termination pay;
- 5. Any additional compensation paid in anticipation of retirement; and
- 6. In the case of employees who receive wages from three or more employers in a twelve-month period, the wages paid by the third and each successive employer.
- **G.** Final Average Salary

Service retirement, early retirement, disability retirement and vested retirement benefits are based on Final Average Salary (FAS).

Tier 4: FAS is the highest average Salary earned in any three consecutive years or in the final 36 months of employment if greater.

Tier 6: FAS is the highest average Salary earned in any five consecutive years or in the final 60 months of employment if greater.

H. Service Retirement

1. Eligibility: The eligibility requirements for an unreduced service retirement are summarized in the table below:

Tier(s)	Plan Description	Minimum Age	Minimum Service
3	COR 20-year plan	N/A	20
3	COR 25-year plan	N/A	25
3	COR Basic 62/5 plan	62	5
4	Basic 62/5 plan	62	5
4	Chapter 96 55/25 plan ¹	55	25
4	Chapter 96 57/5 plan ¹	57	5
4	SAN Tier 4 regular	55	30
4	SAN 20-year plan	N/A	20
4 & 6	EMT, FAD, SPO, DSH, and PCT 25-year plans	N/A	25
4&6	AUT 25-year/age 50 plans	50	25
4 & 6	TRN 25-year/age 55 plans	55	25
4 & 6	TBT 20-year/age 50 plans	50	20
6	Uniformed plans	N/A	20
6	Basic 63/10 plan	63	10

Uniformed Tier 6 members are entitled to benefit escalation (defined elsewhere in this summary) if they work past 23 years, with full escalation applicable after 25 years of service.

2. Benefits:

Tier	Plan Description	Benefit Formula
4	Basic 62/5 plan	If less than 20 years of Credited Service:
4	Chapter 96 55/25	1/60 times FAS times Credited Service
4	Chapter 96 57/5	<u>If 20 or more years of Credited Service</u> : Sum of 2.0% times FAS times Credited Service up to
4	SAN Tier 4 regular	30 years plus 1.5% times FAS times Credited Service up to
4 & 6	TRN 55/25 plan	greater than 30 years

 $^{^1}$ Members of Chapter 96 55/25 and 57/5 who work in a physically taxing employment are eligible for unreduced service retirement at age 50 with 25 years of service.

Tier	Plan Description	Benefit Formula
4	SAN 20-year plan	2.5% times FAS times Credited Service up to 20 years, plus 1.5% times Final Compensation ¹ times additional Credited Service up to 10 more years
4 & 6	EMT, FAD, SPO, AUT, and PCT 25- year plans	2.0% times FAS times Credited Service up to 30 years
4 & 6	DSH 25-year plan	2.2% times FAS times Credited Service up to 25 years, plus 1.7% times FAS times additional Credited Service up to 5 more years
4 & 6	TBT 50/20 plan	2.5% times FAS times Credited Service up to 20 years, plus 1.5% times FAS times additional Credited Service up to 10 more years
3	COR 20-year plan	2.5% times FAS times Credited Service up to 20 years, plus 1.67% times FAS times additional Credited Service up to 10 more years
3	COR 25-year plan	50% times FAS
3	COR 62/5 plan	If less than 20 years of Credited Service:1/60 times FAS times Credited ServiceMinus 50% of your Primary Social Security BenefitIf 20 or more years of Credited Service:Sum of 2.0% times FAS times Credited Service up to30 yearsMinus 50% of your Primary Social Security Benefit
6	Uniformed plans	2.1% times FAS times Credited Service up to 20 years, plus 4.0% times FAS times additional Credited Service up to 2 more years
6	Basic 63/10 plan	If less than 20 years of Credited Service:1/60 times FAS times Credited ServiceIf 20 or more years of Credited Service:35% times FAS plus 2.0% times FAS times CreditedService greater than 20 years

 $^{^1}$ Final Compensation here means FAS5 without the limitation that no year exceed 110% of the prior four-year average.

I. Early Retirement

1. Eligibility: Not all plans provide for early retirement. However, certain participants may be eligible to elect early retirement under the Tier 3, Tier 4, or Tier 6 Basic plan. The eligibility requirements for early retirement plans are summarized in the table below:

Tier	Plan Description	Minimum Age	Minimum Service
3	COR Tier 3 Basic 62/5 Plan	55	5
4	Basic 62/5 plan	55	5
6	Basic 63/10 plan	55	10

2. Benefits:

The service benefit is reduced for early retirement based on the age at commencement.

a. COR Tier 3 Basic 62/5 Plan:

The service retirement benefit is reduced by 1/180 for each of the first 24 months that the age at commencement precedes age 62, and further reduced 1/360 for each of the next 60 months that the age of commencement precedes age 60.

b. Tier 4 Basic 62/5 Plan:

The service retirement benefit is reduced by 0.50% for each of the first 24 months that the age at commencement precedes age 62, and further reduced 0.25% for each of the next 60 months that the age of commencement precedes age 60. Tier 4 members with Tier 3 rights may elect early retirement based on the provisions of the Tier 3 Basic 62/5 Plan.

c. Tier 6 Basic 63/10 Plan:

The service retirement benefit is reduced by 13/2400 for each month that the age of commencement precedes age 63.

- J. Disability Retirement
 - 1. Accidental Disability (ADR)
 - a. Eligibility: Accident in the performance of duties while a member.
 - b. Benefits:
 - i. Most plans and most members: Greater of 1/60 times FAS times Credited Service or 1/3 times FAS. The member may elect a service retirement benefit, if eligible.
 - Emergency medical technicians, deputy sheriffs, SAN Tier 6 22-year revised plan members, and COR Tier 6 22-year revised plan members: 75% x FAS
 - 2. Ordinary Disability (ODR)
 - a. Eligibility: 10 years of Credited Service and Accident while not in performance of duties.
 - b. Benefits: Greater of 1/60 times FAS times Credited Service or 1/3 times FAS. The member may elect a service retirement benefit, if eligible.

K. Death Benefits

- 1. Accidental Death Benefits Active Members
 - a. Eligibility: Death due to the performance of duties while an active member.
 - b. Benefits: A monthly pension is payable to the beneficiary equal to 50% of 1/12 of annual wages earned during the year prior to death. The benefit is based on 50% of 1/12 of the annual wage rate if the member had less than one year of Credited Service.
- 2. Ordinary Death Benefits Active and Terminated Vested Members
 - a. Eligibility for active members: Death while not in the performance of duties.
 - b. Eligibility for terminated vested members: 10 years of Credited Service.

c. Death benefit for active members and members who retired from active service:

Refund of BMC and the employee portion of AMC with interest plus a salarybased death benefit. The salary-based death benefit is equal to one year's wages times completed years of Credited Service up to 3 years times an Adjustment Factor described in the table below:

Year of Death	Adjustment Factor
Pre-retirement	100%
Post-retirement - 1 st year	50%
Post-retirement - 2 nd year	25%
Post-retirement - 3 rd year	10% times the benefit in effect at age 60 or
and from then on	at retirement if earlier

The pre-retirement death benefit and post-retirement death benefit for the first two years of retirement are also reduced by another adjustment factor that is equal to 100% minus 5% times the lesser of 10 years and the number of years by which the age at commencement exceeds 60.

d. Death benefit for terminated vested members and members who retired from terminated vested status:

Refund of BMC and the employee portion of AMC, if any, plus one half of the salary-based death benefit applicable to active and retired members described above.

e. Form of Payment: Lump sum.

L. Vested Retirement After Termination

1. Eligibility:

Tier 4 plans: 5 years of Credited Service.

Tier 6 plans: 10 years of Credited Service.

2. Benefits:

Tier 4 EMT, FAD, SPO, DSH, AUT, PCT 25-year plans: The service retirement benefit is payable when the member would have earned 25 years of Credited Service if he or she had continued working in covered employment.

All other Tier 4 plans: The service retirement benefit is payable at age 62.

Uniformed Tier 6 Plans: The service retirement benefit is payable when the member would have earned 20 years of Credited Service if he or she had continued working in covered employment.

Tier 6 Plans other than Uniformed Tier 6 Plans: The service retirement benefit is payable at age 63.

The benefit is not less than the annuity equivalent of the Basic Member Contributions.

M. Forms of Payment

- 1. Normal Form of Payment: Single Life Annuity
- 2. Optional Forms of Payment: Joint and Survivor Annuities, Certain and Life Annuities, and Pop-up Annuities

Optional forms of payment are subject to actuarial reduction. The unreduced amount of the Normal Form is known as the maximum retirement allowance.

N. Cost of Living Adjustments (COLA)

Annuity payments are increased annually on September 1st, but only after a pensioner has attained the applicable eligibility threshold. Some beneficiaries are not eligible for COLA increases. The COLA increase is equal to a base benefit times a COLA percentage. The COLA increase for a spouse receiving a joint & survivor annuity is one half of the COLA increase that would have been applicable to the member had he or she survived.

- 1. Eligibility Thresholds:
 - a. Service Retirement and Vested Retirement: The earlier of (i) and (ii):
 - i. Attainment of age 62 and 5 years since commencement
 - ii. Attainment of age 55 and 10 years since commencement
 - b. Disability Retirement: 5 years since commencement
 - c. Beneficiaries of an Accidental Death benefit: 5 years since commencement
- 2. Eligible beneficiaries: Spouses receiving a joint & survivor annuity. All others are non-eligible.
- 3. Base Benefit: The lesser of \$18,000 and the maximum retirement allowance plus the sum of prior years' COLA increases.

- 4. COLA percentage: 50% of the Consumer Price Index (CPI-U), not less than 1.0% and not greater than 3.0%.
- **O.** Refund of Member Contributions

Basic Member Contributions (BMC) and Additional Member Contributions (AMC) are refunded with interest under some circumstances. AMC include Additional Member Contributions for work in physically taxing employment (AMC-PT). Only the employee portion of AMC is refunded.

- 1. Non-vested termination: BMC and AMC are refunded with interest.
- 2. Vested termination: A member may elect a refund of BMC and AMC with interest in lieu of a pension benefit, but only if he or she has less than 10 years of Credited Service. A member of one of the Special Officers 25-year plans may elect a refund of AMC in lieu of remaining in the Special Officers 25-year plan if he or she terminates prior to earning 15 years of Credited Service as a special officer.
- 3. Ordinary death: BMC and the employee portion of AMC are refunded with interest.
- 4. Accidental death: The employee portion of AMC are refunded with interest.
- 5. Disability Retirement: The employee portion of AMC are refunded with interest.
- 6. Service Retirement: The employee portion of AMC including AMC-PT are refunded with interest if the member retires on or after age 62. For retirement prior to age 62, employee portion of AMC-PT are refunded if a member of the Chapter 96 55/25 plan retires on or after age 55 with 25 years of Credited Service or if a member of the Chapter 96 57/5 plan retires on or after age 57 with 25 years of Credited Service.
- 7. A member of one of the EMT, FAD, SPO, DSH plans may elect a refund of AMC in lieu of remaining in their respective 25-year plan if he retires prior to earning 15 years of Credited Service as a member of their respective 25-year plan. A member of one of the AUT, PCT plans may elect a refund of AMC in lieu of remaining in their respective 25-year plan if he or she retires prior to earning 5 years of Credited Service as a member of their respective 25-year plan.
- 8. Employee Portion of AMC: The employee portion of AMC is 50% for all plans that require AMC except that the employee portion is 100% for the Special Officers plans.

- P. Service and Early Retirement for General OTH, DAI and TRN Tier 1 and Tier 2 Members -
 - 1. Eligibility:
 - a. General OTH Plans: Age 55 for Tier 1. Age 55 and 5 years of Credited Service for Tier 2.
 - b. DAI 20-Year Plan: 20 years of Credited Service.
 - c. DAI 25-Year Plan: 25 years of Credited Service.
 - d. TRN Plans: Age 50 and 20 years of Credited Service for Tier 1. Age 55 and 25 years of Credited Service for Tier 2.
 - 2. Benefits:
 - a. General OTH Plans:
 - 55% times Final Average Salary, plus 1.70% times Final Average Salary times Credited Service greater than 25 years plus the annuity equivalent of employee contributions in excess of required contributions for 25 or more years of Credited Service; <u>or</u>
 - ii. 1.20% times Final Average Salary times Credited earned prior to 7/1/1968 plus 1.53% times Final Average Salary times Credited Service earned from 7/1/1968 plus the annuity equivalent of employee contributions for less than 25 years of Credited Service.
 - b. DAI 25-Year Plan: 55% times Final Average Salary, plus 1.70% times Final Average Salary times Credited Service greater than 25 years (for up to 7 years) plus the annuity equivalent of employee contributions in excess of required contributions for 25 or more years of Credited Service.
 - c. DAI 20-Year Plan: 50% times Final Average Salary, plus 1.67% times Salary for each year of Credited Service greater than 20 years (for up to 12 years) plus the annuity equivalent of employee contributions in excess of required contributions for 25 or more years of Credited Service.
 - d. TRN Plans: 50% times Final Average Salary, plus 1.50% times Final Average Salary times Credited Service greater than 20 years.
 - 3. Final Average Salary: 1-year final average salary for Tier 1 members and 3-year final average salary for Tier 2 members.
 - 4. Early Retirement: Tier 2 benefits are reduced for early commencement prior to age 62 based on the same factors applicable to the Basic Tier 4 62/5 plan.

- 5. Cost of Living Adjustments: Retirement benefits are increased by the same COLA applicable to Tier 4 retirement benefits.
- **Q.** Service and Early Retirement for Tier 4 Members with Tier 3 Rights
 - 1. Eligibility: Age 55 and 5 years of Credited Service.
 - 2. Benefits: Tier 4 members with Tier 3 rights may elect a Tier 3 benefit instead of a Tier 4 benefit. The benefit formula for Tier 3 is the same as the benefit formula for the Tier 4 Basic 62/5 plan except that (1) Credited Service under the Tier 3 benefit formula is capped at 30 years, (2) the Tier 3 benefit formula includes an offset starting at age 62 equal to 50% of the Primary Social Security benefit, and (3) the Tier 3 reduction factors for early commencement are less than the factors applicable to the Basic Tier 4 62/5 plan.
 - 3. Cost of Living Adjustments:
 - a. COLA: The COLA provisions applicable to Tier 4 retirement benefits are not applicable to Tier 3 retirement benefits.
 - b. Escalation: Tier 3 retirement benefits may be adjusted annually by escalation.
 - i. Full Escalation: Benefits commencing on or after age 65 are eligible. It is equal to the lesser of 3% and the Consumer Price Index (CPI-U) for positive increases in the CPI-U and the greater of -3% and the Consumer Price Index (CPI-U) for negative increases in the CPI-U.
 - Partial Escalation: Applicable for benefits commencing after age 62. It is equal to full escalation reduced by 1/36 times the number of months that the age at commencement precedes age 65. A Tier 3 retirement benefit cannot be less than the Tier 3 retirement benefit without escalation.

R. Loans

A member may borrow up to 75% of the accumulated Basic Member Contributions with interest. A member's unpaid loan balance will reduce his or her retirement benefit.

S. Changes Since the Prior Valuation

None.

SECTION X – CHAPTER AMENDMENTS

The June 30, 2016 (Lag) actuarial valuation results reflect the following Chapter amendments from the prior five years.

- **Chapter 457 of the Laws of 2017** (Chapter 457/17) provided Special Accidental Death Benefits for eligible beneficiaries of Sanitation members pursuant to Section 208(f) of the General Municipal Law.
- **Chapter 41 of the Laws of 2016** (Chapter 41/16) provides up to three years of service credit to members of public retirement systems of the State of New York for military service. Chapter 41/16 removes the requirement that such military service occur during specified periods of hostilities. This law will be reflected in future valuations as participants request military service credit.
- **Chapter 438 of the Laws of 2016** (Chapter 438/16), enacted on November 14, 2016, amended Retirement and Social Security Law Section 43 to eliminate restrictions upon transferring between public retirement systems.
- **Chapter 510 of the Laws of 2015** (Chapter 510/15), clarifies for Tier 6 the definition of multiple employers for the purpose of exclusion of wages and changes the plan year for contributions from plan year April 1 to March 31 to plan year January 1 to December 31.
- **Chapter 427 of the Laws of 2014** (Chapter 427/14), amended Military Law Section 243-d, effective November 4, 2014, to provide non-contributory retirement service credit for members of the New York City Retirement Systems called to active military duty on or after September 11, 2001 and prior to January 1, 2006 who did not receive his or her full salary from a participating employer and is otherwise eligible to receive retirement service credit for such service.
- **Chapter 489 of the Laws of 2013** (Chapter 489/13) addressed limitations in existing disability provisions intended to protect public employees who suffered injuries or illnesses in WTC rescue, recovery, and cleanup operations.
- **Chapter 3 of the Laws of 2013** (Chapter 3/13), effective retroactive to July 1, 2011, enacted those 2012 A&M that require State legislation.
- **Chapter 18 of the Laws of 2012** (Chapter 18/12), placed certain limitations on the Tier 3 and Tier 4 benefits available to participants hired on and after April 1, 2012 in most New York State Public Employee Retirement Systems, including NYCERS, and is generally referred to as Tier 6.

SECTION XI - SUBSEQUENT EVENTS

In February 2017, the City engaged Bolton to perform an actuarial audit of the five New York City Retirement Systems and Pensions Funds, serving as the Independent Actuary under Section 96 of the New York City Charter. The engagement includes, but is not limited to, contribution audits, experience studies, and administrative reviews of each system. Bolton released their reports for the actuarial audit on June 4, 2019. In conjunction with the findings, the Actuary issued a Report entitled, "Proposed Changes in Actuarial Assumptions and Methods Used in Determining Employer Contributions for Fiscal Years Beginning on and After July 1, 2018 for the New York City Employees' Retirement System," dated December 31, 2018. The actuarial assumptions and methods described in that report were adopted by the Board of Trustees at the February 14, 2019 Board meeting and are referred to as the "2019 A&M." Note that this valuation report does not reflect the new 2019 A&M.

Approximately 2,900 NYCERS participants who transferred into NYCERS from other retirement systems were coded as members that had transferred out of NYCERS and hence were not included in the data used by the Office of the Actuary. The cost for these participants will be included in the Fiscal Year 2019 Employer Contribution.

SECTION XII - ACTUARIAL ASSUMPTIONS AND METHODS

The February 10, 2012 report entitled, "Proposed Changes in Actuarial Assumptions and Methods For Determining Employer Contributions For Fiscal Years Beginning on and After July 1, 2011 For the New York City Employees' Retirement System" contains the 2012 A&M.

A memorandum dated December 3, 2015 to the Board of Trustees of NYCERS contains the revised probabilities of post-retirement mortality beginning with the June 30, 2014 (Lag) actuarial valuation.

In addition, beginning with the June 30, 2014 (Lag) actuarial valuation, the AVA is constrained to be within a corridor of 80% to 120% of market value.

The 2012 A&M, including the above changes to the probabilities of post-retirement mortality and the introduction of the AVA corridor, are referred to as the 2016 A&M.

The actuarial assumptions and a description of the actuarial methods follow.

Table XII-1	
Active Retirement	Rates

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM									
Reduced Did Not Elect an Improved Retirement Program Did Elect an Improved Retirement Program									
	Reduced Service				Unreduced Service Retirement For Members Who Did Elect an Improved Retirement Program				
Age	Retirement	Year 1	Year 2	Ultimate	Year 1	Year 2	Ultimate		
19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
20	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
21	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
23	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
24	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
26	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
27	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
28	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
29	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
30	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
31	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
32	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
33	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
34	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
35	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
36	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
37	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
38	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
39	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
40	0.00%	20.00%	0.00%	0.00%	40.00%	0.00%	0.00%		
41	0.00%	20.00%	15.00%	0.00%	40.00%	20.00%	0.00%		
42	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
43	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
44	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
45	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
46	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
47	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
48	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
49	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
50	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
51	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
52	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
53	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
54	0.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
55	2.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
56	2.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
57	2.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
58	2.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
59	3.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
60	4.00%	20.00%	15.00%	10.00%	40.00%	20.00%	15.00%		
61	5.00%	20.00%	15.00%	15.00%	40.00%	20.00%	15.00%		
62	0.00%	30.00%	25.00%	20.00%	60.00%	25.00%	25.00%		
63	0.00%	20.00%	15.00%	15.00%	40.00%	20.00%	20.00%		
64	0.00%	20.00%	15.00%	15.00%	40.00%	20.00%	20.00%		
65	0.00%	30.00%	25.00%	20.00%	60.00%	25.00%	25.00%		
66	0.00%	20.00%	15.00%	15.00%	40.00%	20.00%	20.00%		
67	0.00%	20.00%	15.00%	15.00%	40.00%	20.00%	20.00%		
68	0.00%	20.00%	15.00%	15.00%	40.00%	20.00%	20.00%		
69	0.00%	20.00%	15.00%	15.00%	40.00%	20.00%	20.00%		
70+	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM PROBABILITIES OF SERVICE RETIREMENT: CORRECTION								
	Reduced	Reduced Unreduced Service Retirement For Members Who Did Not Elect an Improved Retirement Program			Unreduced Service Retirement For Members Who Did Elect an Improved Retirement Program			
Age	Retirement	Year 1	Year 2	Ultimate	Year 1	Year 2	Ultimate	
19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
36	0.00%	60.00%	0.00%	0.00%	70.00%	0.00%	0.00%	
37	0.00%	60.00%	20.00%	0.00%	70.00%	20.00%	0.00%	
38	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
39	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
40	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
41	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
42	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
43	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
44	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
45	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
46	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
47	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
48	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
49	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
50	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
51	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
52	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
52	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
54	0.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
55	2.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
56	2.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
57	2.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
58	2.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
59	3.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
60	4.00%	60.00%	20.00%	20.00%	70.00%	20.00%	20.00%	
61	5.00%	60.00%	30.00%	30.00%	70.00%	30.00%	30.00%	
62	0.00%	60.00%	40.00%	40.00%	70.00%	40.00%	40.00%	
63+	0.0070 NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
001	1111	100.0070	100.0070	100.0070	100.00 /0	100.0070	100.0070	

		NE	W YORK CITY EN	IPLOYEES' RETIR	EMENT SYSTEM		
		PRO	BABILITIES OF SE	RVICE RETIREMI	ENT: SANITATIO	N	
	Reduced		ice Retirement Fo			ice Retirement Fo	
	Service	Did Not Elect ar	n Improved Retire	ement Program	Did Elect an I	mproved Retiren	ient Program
Age	Retirement	Year 1	Year 2	Ultimate	Year 1	Year 2	Ultimate
19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
20	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
21	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
23	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
24	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
26	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
27	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
28	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
29	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
30	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
31	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
32	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
33	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
34	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
35	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
36	0.00%	40.00%	0.00%	0.00%	40.00%	0.00%	0.00%
37	0.00%	40.00%	20.00%	0.00%	40.00%	20.00%	0.00%
38	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
39	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
40	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
41	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
42	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
43	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
44	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
45	0.00%	40.00%	20.00%	20.00%	40.00%	20.00%	15.00%
46	0.00%	40.00%	20.00%	20.00%	42.00%	20.00%	15.00%
47	0.00%	40.00%	20.00%	20.00%	44.00%	20.00%	15.00%
48	0.00%	40.00%	20.00%	20.00%	46.00%	20.00%	15.00%
49	0.00%	40.00%	20.00%	20.00%	48.00%	20.00%	15.00%
50	0.00%	40.00%	20.00%	20.00%	50.00%	20.00%	15.00%
51	0.00%	40.00%	20.00%	20.00%	52.00%	20.00%	15.00%
52 52	0.00%	40.00%	20.00%	20.00%	54.00%	20.00%	15.00%
53	0.00%	40.00%	20.00%	20.00%	56.00% 58.00%	20.00%	15.00%
54 55	0.00% 2.00%	40.00% 40.00%	20.00% 20.00%	20.00% 20.00%	58.00% 60.00%	20.00% 20.00%	15.00% 15.00%
55 56	2.00%	40.00%	20.00%	20.00%	60.00%	20.00%	15.00% 16.00%
56 57	2.00%	40.00%	20.00%	20.00%	60.00%	20.00%	17.00%
57	2.00%	40.00%	20.00%	20.00%	60.00%	20.00%	17.00%
50 59	3.00%	40.00%	20.00%	20.00%	60.00%	20.00%	19.00%
60	4.00%	40.00%	20.00%	20.00%	60.00%	20.00%	20.00%
61	5.00%	40.00%	30.00%	30.00%	60.00%	30.00%	25.00%
62	0.00%	60.00%	40.00%	40.00%	60.00%	40.00%	30.00%
63	0.00%	40.00%	30.00%	30.00%	40.00%	30.00%	20.00%
64	0.00%	40.00%	30.00%	30.00%	40.00%	30.00%	20.00%
65	0.00%	60.00%	40.00%	40.00%	60.00%	40.00%	30.00%
66	0.00%	40.00%	30.00%	30.00%	40.00%	30.00%	20.00%
67	0.00%	40.00%	30.00%	30.00%	40.00%	30.00%	20.00%
68	0.00%	40.00%	30.00%	30.00%	40.00%	30.00%	20.00%
69	0.00%	40.00%	30.00%	30.00%	40.00%	30.00%	20.00%
70+	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

	NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM								
			PROBABILI	ITIES OF SERVIC	E RETIREMENT:	TBTA			
	For Member	or Members Who Did Not Elect an Improved Retirement Program		For Members Who Did Elect an Improved Retirement Program					
Ī	Reduced Service			rement	Reduced Service	Unreduced Service Retirement			
Age	Retirement	Year 1	Year 2	Ultimate	Retirement	Year 1	Year 2	Ultimate	
19	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
20	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
21	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
22	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
23	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
24	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
25	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
26	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
27	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
28	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
29	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
30	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
31	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
32	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
33	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
34	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
35	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
36	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
37	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
38	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
41	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
42	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
43 44	0.00% 0.00%	0.00%	0.00% 0.00%	0.00% 0.00%	0.00%	0.00% 0.00%	0.00% 0.00%	0.00%	
44 45	0.00%	0.00% 0.00%	0.00%	0.00%	0.00% 0.00%	0.00%	0.00%	0.00% 0.00%	
43 46	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
40 47	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
48	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
49	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
50	0.00%	30.00%	0.00%	0.00%	0.00%	60.00%	0.00%	0.00%	
51	0.00%	30.00%	20.00%	0.00%	0.00%	60.00%	30.00%	0.00%	
52	0.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
53	0.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
53 54	0.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
55	2.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
56	2.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
57	2.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
58	2.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
59	3.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
60	4.00%	30.00%	20.00%	20.00%	0.00%	60.00%	30.00%	30.00%	
61	5.00%	30.00%	30.00%	30.00%	0.00%	60.00%	30.00%	30.00%	
62	0.00%	40.00%	40.00%	40.00%	0.00%	60.00%	40.00%	40.00%	
63	0.00%	30.00%	30.00%	30.00%	0.00%	40.00%	30.00%	30.00%	
64	0.00%	30.00%	30.00%	30.00%	0.00%	40.00%	30.00%	30.00%	
65	0.00%	40.00%	40.00%	40.00%	0.00%	60.00%	40.00%	40.00%	
66	0.00%	30.00%	30.00%	30.00%	0.00%	40.00%	30.00%	30.00%	
67	0.00%	30.00%	30.00%	30.00%	0.00%	40.00%	30.00%	30.00%	
68	0.00%	30.00%	30.00%	30.00%	0.00%	40.00%	30.00%	30.00%	
69	0.00%	30.00%	30.00%	30.00%	0.00%	40.00%	30.00%	30.00%	
70+	NA	100.00%	100.00%	100.00%	NA	100.00%	100.00%	100.00%	
/0+	NA	100.00%	100.00%	100.00%	NA	100.00%	100.00%	10	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

	Unreduced Service Retirement					
ervice irement	Year 1	Year 2	Ultimate			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	0.00%	0.00%	0.00%			
0.00%	25.00%	0.00%	0.00%			
0.00%	25.00%	15.00%	0.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00%	25.00%	15.00%	15.00%			
0.00% 0.00%	25.00%	15.00%	15.00%			
	25.00% 25.00%	15.00% 15.00%	15.00% 15.00%			
0.00%			15.00%			
0.00% 2.00%	25.00% 25.00%	15.00% 15.00%	15.00%			
2.00%	25.00%	15.00%	15.00% 15.00%			
2.00%	25.00%	15.00%	15.00%			
2.00%	25.00%	15.00%	15.00%			
3.00%	25.00%	15.00%	15.00%			
1.00%	30.00%	15.00%	15.00%			
5.00%	40.00%	20.00%	20.00%			
0.00%	50.00%	40.00%	40.00%			
0.00%	40.00%	30.00%	40.00%			
0.00%	40.00%	30.00%	30.00%			
0.00%	50.00%	40.00%	40.00%			
0.00%			40.00%			
0.00%			30.00%			
0.00%			30.00%			
0.00%			30.00%			
NA			100.00%			
).0).0).0	0% 0% 0%	0% 40.00% 0% 40.00% 0% 40.00%	0% 40.00% 30.00% 0% 40.00% 30.00% 0% 40.00% 30.00%			

Table XII-2Active Withdrawal Rates

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

PROBABILITIES OF WITHDRAWAL FOR CAUSES OTHER THAN DEATH, DISABILITY, OR RETIREMENT

	Probabilities of Withdrawal						
Years of Service	General	Correction	Sanitation	TBTA	Transit		
0	6.00%	5.00%	4.00%	4.00%	8.00%		
1	5.00%	4.00%	2.00%	2.00%	4.00%		
2	4.00%	3.00%	1.00%	1.00%	2.00%		
3	3.00%	2.00%	1.00%	1.00%	1.50%		
4	3.00%	1.50%	1.00%	1.00%	1.20%		
5	3.00%	1.00%	1.00%	1.00%	1.00%		
6	2.80%	0.90%	0.90%	1.00%	1.00%		
7	2.60%	0.80%	0.80%	1.00%	1.00%		
8	2.40%	0.70%	0.70%	1.00%	1.00%		
9	2.20%	0.60%	0.60%	1.00%	1.00%		
10	2.00%	0.50%	0.50%	1.00%	1.00%		
11	1.90%	0.50%	0.50%	1.00%	0.90%		
12	1.80%	0.50%	0.50%	1.00%	0.80%		
13	1.70%	0.50%	0.50%	1.00%	0.70%		
14	1.60%	0.50%	0.50%	1.00%	0.60%		
15	1.50%	0.50%	0.50%	1.00%	0.50%		
16	1.40%	0.50%	0.50%	1.00%	0.50%		
17	1.30%	0.50%	0.50%	1.00%	0.50%		
18	1.20%	0.50%	0.50%	1.00%	0.50%		
19	1.10%	0.50%	0.50%	1.00%	0.50%		
20+	1.00%	0.50%	0.50%	1.00%	0.50%		

Table XII-3 Active Disability Rates

PROBABILITIES OF DISABILITY RETIREMENT: GENERAL							
	Ordinary	Disability	Accidenta	l Disability			
Age	Males	Females	Males	Females			
19	0.20%	0.20%	0.04%	0.02%			
20	0.20%	0.20%	0.04%	0.02%			
21	0.20%	0.20%	0.04%	0.02%			
22	0.20%	0.20%	0.04%	0.02%			
23	0.20%	0.20%	0.04%	0.02%			
23	0.20%	0.20%	0.04%	0.02%			
25	0.20%	0.20%	0.04%	0.02%			
26	0.20%	0.20%	0.04%	0.02%			
20	0.20%	0.20%	0.04%	0.02%			
28	0.20%	0.20%	0.04%	0.02%			
29	0.20%	0.20%	0.04%	0.02%			
30	0.20%	0.20%	0.04%	0.02%			
30 31	0.20%	0.20%	0.04%	0.02%			
31	0.22%	0.20%	0.04%	0.02%			
			-				
33	0.26%	0.20%	0.04%	0.02%			
34	0.28%	0.20%	0.04%	0.02%			
35	0.30%	0.20%	0.04%	0.02%			
36	0.32%	0.21%	0.04%	0.02%			
37	0.34%	0.22%	0.04%	0.02%			
38	0.36%	0.23%	0.04%	0.02%			
39	0.38%	0.24%	0.04%	0.02%			
40	0.40%	0.25%	0.04%	0.02%			
41	0.42%	0.26%	0.04%	0.02%			
42	0.44%	0.27%	0.04%	0.02%			
43	0.46%	0.28%	0.04%	0.02%			
44	0.48%	0.29%	0.04%	0.02%			
45	0.50%	0.30%	0.04%	0.02%			
46	0.52%	0.34%	0.04%	0.02%			
47	0.54%	0.38%	0.04%	0.02%			
48	0.56%	0.42%	0.04%	0.02%			
49	0.58%	0.46%	0.04%	0.02%			
50	0.60%	0.50%	0.04%	0.02%			
51	0.62%	0.54%	0.04%	0.02%			
52	0.64%	0.58%	0.04%	0.02%			
53	0.66%	0.62%	0.04%	0.02%			
54	0.68%	0.66%	0.04%	0.02%			
55	0.70%	0.70%	0.04%	0.02%			
56	0.70%	0.70%	0.04%	0.02%			
57	0.70%	0.70%	0.04%	0.02%			
58	0.70%	0.70%	0.04%	0.02%			
59	0.70%	0.70%	0.04%	0.02%			
60	0.70%	0.70%	0.04%	0.02%			
61	0.70%	0.70%	0.04%	0.02%			
62	0.70%	0.70%	0.04%	0.02%			
63	0.70%	0.70%	0.04%	0.02%			
64	0.70%	0.70%	0.04%	0.02%			
65	0.70%	0.70%	0.04%	0.02%			
66	0.70%	0.70%	0.04%	0.02%			
67	0.70%	0.70%	0.04%	0.02%			
68	0.70%	0.70%	0.04%	0.02%			
69	0.70%	0.70%	0.04%	0.02%			
70+	NA	NA	NA	NA			

Table XII-3Active Disability Rates (cont'd)

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

	Corre	ection	Sanitation		
Age	Ordinary Disability	Accidental Disability	Ordinary Disability	Accidenta Disability	
19	0.10%	0.20%	0.10%	0.10%	
20	0.10%	0.20%	0.10%	0.10%	
21	0.10%	0.21%	0.10%	0.10%	
22	0.10%	0.22%	0.10%	0.10%	
23	0.10%	0.23%	0.10%	0.10%	
24	0.10%	0.24%	0.10%	0.10%	
25	0.10%	0.25%	0.10%	0.10%	
26	0.10%	0.26%	0.12%	0.11%	
27	0.10%	0.27%	0.14%	0.12%	
28	0.10%	0.28%	0.16%	0.13%	
29	0.10%	0.29%	0.18%	0.14%	
30	0.10%	0.30%	0.20%	0.15%	
31	0.12%	0.31%	0.22%	0.16%	
32	0.12%	0.32%	0.22%	0.10%	
33	0.16%	0.33%	0.26%	0.18%	
34	0.18%	0.34%	0.28%	0.10%	
35	0.20%	0.35%	0.30%	0.20%	
36	0.22%	0.36%	0.32%	0.20%	
30	0.22%	0.37%	0.34%	0.21%	
38	0.24%	0.38%	0.34%	0.22%	
38 39	0.28%	0.39%	0.38%	0.23%	
40	0.28%	0.39%	0.38%	0.24%	
40 41	0.32%	0.40%	0.40%	0.23%	
41	0.34%	0.41%	0.42%	0.28%	
42 43				-	
43 44	0.36%	0.43%	0.46% 0.48%	0.28% 0.29%	
	0.38%	0.44%		-	
45 46	0.40% 0.42%	0.45% 0.46%	0.50% 0.52%	0.30% 0.34%	
40 47	0.42%	0.48%	0.52%	0.34%	
				-	
48	0.46%	0.48%	0.56%	0.42%	
49	0.48%	0.49%	0.58%	0.46%	
50	0.50%	0.50%	0.60%	0.50%	
51 52	0.52%	0.52%	0.62%	0.56%	
52	0.54%	0.54%	0.64%	0.62%	
53	0.56%	0.56%	0.66%	0.68%	
54 55	0.58%	0.58%	0.68%	0.74%	
55	0.60%	0.60%	0.70%	0.80%	
56	0.62%	0.62%	0.72%	0.88%	
57	0.64%	0.64%	0.74%	0.96%	
58 50	0.66%	0.66%	0.76%	1.04%	
59	0.68%	0.68%	0.78%	1.12%	
60 (1	0.70%	0.70%	0.80%	1.20%	
61	0.72%	0.72%	0.82%	1.30%	
62 62	0.74%	0.74%	0.84%	1.40%	
63	NA	NA	0.86%	1.50%	
64	NA	NA	0.88%	1.60%	
65	NA	NA	0.90%	1.70%	
66	NA	NA	0.92%	1.82%	
67	NA	NA	0.94%	1.94%	
68	NA	NA	0.96%	2.06%	
69	NA	NA	0.98%	2.18%	
70+	NA	NA	NA	NA	

Table XII-3Active Disability Rates (cont'd)

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM

	TE	Transit		
Age	Ordinary Disability	Accidental Disability	Ordinary Disability	Accidenta Disability
19	0.40%	0.04%	0.10%	0.02%
20	0.40%	0.04%	0.10%	0.02%
21	0.40%	0.04%	0.10%	0.02%
22	0.40%	0.04%	0.10%	0.02%
23	0.40%	0.04%	0.10%	0.02%
24	0.40%	0.04%	0.10%	0.02%
25	0.40%	0.04%	0.10%	0.02%
26	0.40%	0.04%	0.10%	0.02%
27	0.40%	0.04%	0.10%	0.02%
28	0.40%	0.04%	0.10%	0.02%
29	0.40%	0.04%	0.10%	0.02%
30	0.40%	0.04%	0.10%	0.02%
31	0.40%	0.04%	0.12%	0.02%
32	0.40%	0.04%	0.14%	0.02%
33	0.40%	0.04%	0.16%	0.02%
34	0.40%	0.04%	0.18%	0.02%
35	0.40%	0.04%	0.20%	0.02%
36	0.40%	0.04%	0.22%	0.02%
37	0.40%	0.04%	0.24%	0.02%
38	0.40%	0.04%	0.26%	0.02%
39	0.40%	0.04%	0.28%	0.02%
40	0.40%	0.04%	0.30%	0.02%
41	0.40%	0.04%	0.32%	0.02%
42	0.40%	0.04%	0.34%	0.02%
43	0.40%	0.04%	0.36%	0.02%
44	0.40%	0.04%	0.38%	0.02%
45	0.40%	0.04%	0.40%	0.02%
46	0.40%	0.04%	0.42%	0.02%
47	0.40%	0.04%	0.44%	0.02%
48	0.40%	0.04%	0.46%	0.02%
49	0.40%	0.04%	0.48%	0.02%
50	0.40%	0.04%	0.50%	0.02%
51	0.40%	0.04%	0.52%	0.02%
52	0.40%	0.04%	0.54%	0.02%
53	0.40%	0.04%	0.56%	0.02%
54	0.40%	0.04%	0.58%	0.02%
55	0.40%	0.04%	0.60%	0.02%
56	0.40%	0.04%	0.60%	0.02%
57	0.40%	0.04%	0.60%	0.02%
58	0.40%	0.04%	0.60%	0.02%
59	0.40%	0.04%	0.60%	0.02%
60	0.40%	0.04%	0.60%	0.02%
61	0.40%	0.04%	0.60%	0.02%
62	0.40%	0.04%	0.60%	0.02%
63	0.40%	0.04%	0.60%	0.02%
64	0.40%	0.04%	0.60%	0.02%
65	0.40%	0.04%	0.60%	0.02%
66	0.40%	0.04%	0.60%	0.02%
67	0.40%	0.04%	0.60%	0.02%
68	0.40%	0.04%	0.60%	0.02%
69	0.40%	0.04%	0.60%	0.02%
70+	NA	NA	NA	NA

General a		nd Transit	General	Transit	Correc	tion, Sanitation	, TBTA ¹	
	Ordinar	y Death	Accidental Death	Accidental Death	Ordinar	Ordinary Death		
Age	Males	Females	All	All	Males	Females	All	
19	0.040%	0.030%	0.000%	0.010%	0.050%	0.030%	0.010%	
20	0.040%	0.030%	0.000%	0.010%	0.050%	0.030%	0.010%	
21	0.040%	0.030%	0.000%	0.010%	0.050%	0.030%	0.010%	
22	0.040%	0.030%	0.000%	0.010%	0.050%	0.030%	0.010%	
23	0.040%	0.030%	0.000%	0.010%	0.050%	0.030%	0.010%	
24	0.040%	0.030%	0.000%	0.010%	0.050%	0.030%	0.010%	
25	0.040%	0.030%	0.000%	0.010%	0.040%	0.024%	0.010%	
26	0.044%	0.032%	0.000%	0.010%	0.050%	0.030%	0.010%	
27	0.048%	0.034%	0.000%	0.010%	0.050%	0.030%	0.010%	
28	0.052%	0.036%	0.000%	0.010%	0.050%	0.030%	0.010%	
29	0.056%	0.038%	0.000%	0.010%	0.050%	0.030%	0.010%	
30	0.060%	0.040%	0.000%	0.010%	0.050%	0.030%	0.010%	
31	0.064%	0.042%	0.000%	0.010%	0.050%	0.030%	0.010%	
32	0.068%	0.044%	0.000%	0.010%	0.050%	0.030%	0.010%	
33	0.072%	0.046%	0.000%	0.010%	0.050%	0.030%	0.010%	
34	0.076%	0.048%	0.000%	0.010%	0.050%	0.030%	0.010%	
35	0.080%	0.050%	0.000%	0.010%	0.050%	0.030%	0.010%	
36	0.084%	0.052%	0.000%	0.010%	0.060%	0.036%	0.010%	
37	0.088%	0.054%	0.000%	0.010%	0.070%	0.042%	0.010%	
38	0.092%	0.056%	0.000%	0.010%	0.080%	0.048%	0.010%	
39	0.096%	0.058%	0.000%	0.010%	0.090%	0.054%	0.010%	
40	0.100%	0.060%	0.000%	0.010%	0.100%	0.060%	0.010%	
41	0.110%	0.068%	0.000%	0.010%	0.110%	0.066%	0.010%	
42	0.120%	0.076%	0.000%	0.010%	0.120%	0.072%	0.010%	
43	0.130%	0.084%	0.000%	0.010%	0.130%	0.078%	0.010%	
44	0.140%	0.092%	0.000%	0.010%	0.140%	0.084%	0.010%	
45	0.150%	0.100%	0.000%	0.010%	0.150%	0.090%	0.010%	
46	0.160%	0.110%	0.000%	0.010%	0.160%	0.096%	0.010%	
47	0.170%	0.120%	0.000%	0.010%	0.170%	0.102%	0.010%	
48	0.180%	0.130%	0.000%	0.010%	0.180%	0.108%	0.010%	
49	0.190%	0.140%	0.000%	0.010%	0.190%	0.114%	0.010%	
50	0.200%	0.150%	0.000%	0.010%	0.200%	0.120%	0.010%	
51	0.220%	0.160%	0.000%	0.010%	0.210%	0.128%	0.010%	
52	0.240%	0.170%	0.000%	0.010%	0.220%	0.136%	0.010%	
53	0.260%	0.180%	0.000%	0.010%	0.230%	0.144%	0.010%	
54	0.280%	0.190%	0.000%	0.010%	0.240%	0.152%	0.010%	
55	0.300%	0.200%	0.000%	0.010%	0.250%	0.160%	0.010%	
56	0.320%	0.210%	0.000%	0.010%	0.260%	0.168%	0.010%	
57	0.340%	0.220%	0.000%	0.010%	0.270%	0.176%	0.010%	
58	0.360%	0.230%	0.000%	0.010%	0.280%	0.184%	0.010%	
59	0.380%	0.240%	0.000%	0.010%	0.290%	0.192%	0.010%	
60	0.400%	0.250%	0.000%	0.010%	0.300%	0.200%	0.010%	
61	0.420%	0.260%	0.000%	0.010%	0.320%	0.210%	0.010%	
62	0.440%	0.270%	0.000%	0.010%	0.340%	0.220%	0.010%	
63	0.460%	0.280%	0.000%	0.010%	0.360%	0.230%	0.010%	
64	0.480%	0.290%	0.000%	0.010%	0.380%	0.240%	0.010%	
65	0.500%	0.300%	0.000%	0.010%	0.400%	0.250%	0.010%	
66	0.540%	0.320%	0.000%	0.010%	0.440%	0.280%	0.010%	
67	0.580%	0.340%	0.000%	0.010%	0.480%	0.310%	0.010%	
68	0.620%	0.360%	0.000%	0.010%	0.520%	0.340%	0.010%	
69	0.660%	0.380%	0.000%	0.010%	0.560%	0.370%	0.010%	

Table XII-4Active Mortality Rates

¹Rates for Corrections become NA on and after 63 years of service.

Table XII-5	
Service Retiree Mortality Rates	Service

	NEW YOR	RK CITY EMPLOYI	EES' RETIREMEN	T SYSTEM	
PR	OBABILITIES OF M	ORTALITY IN TH	E NEXT YEAR FC	R SERVICE RETIRE	ES
IK		THE JUNE 30, 2016			
I	PLAN GROUPS OT		· /		Ε
Age	Males	Females	Age	Males	Females
10	0.02010/	0.01010/	(0)	1 71 000/	4.00500/
19	0.0201%	0.0121%	68	1.7189%	1.2370%
20	0.0211%	0.0122%	69 70	1.8200%	1.3031%
21	0.0227%	0.0130%	70	1.9248%	1.3660%
22 23	0.0241%	0.0138%	71 72	2.0926%	1.5265%
-	0.0258%	0.0149%		2.2666%	1.6863%
24	0.0272%	0.0160%	73	2.4473%	1.8449%
25	0.0284%	0.0174%	74	2.6339%	2.0027%
26	0.0300%	0.0189%	75	2.8272%	2.1592%
27	0.0314%	0.0204%	76	3.2696%	2.4549%
28	0.0333%	0.0223%	77	3.7263%	2.7536%
29	0.0357%	0.0242%	78	4.1972%	3.0540%
30	0.0391%	0.0263%	79	4.6851%	3.3564%
31	0.0456%	0.0325%	80	5.1881%	3.6583%
32	0.0521%	0.0381%	81	5.7341%	4.1289%
33	0.0582%	0.0430%	82	6.2881%	4.6076%
34	0.0638%	0.0469%	83	6.8485%	5.0947%
35	0.0696%	0.0507%	84	7.4144%	5.5889%
36	0.0730%	0.0535%	85	7.9854%	6.0929%
37	0.0762%	0.0566%	86	9.0625%	6.9582%
38	0.0796%	0.0597%	87	10.1865%	7.8220%
39	0.0840%	0.0634%	88	11.3608%	8.6925%
40	0.0904%	0.0674%	89	12.5840%	9.5648%
41	0.1253%	0.0716%	90	13.8632%	10.4405%
42	0.1580%	0.0783%	91	15.4852%	11.9474%
43	0.1896%	0.0873%	92	17.1034%	13.4176%
44	0.2207%	0.0994%	93	18.7153%	14.8777%
45	0.2524%	0.1151%	94	20.3691%	16.2589%
46	0.2813%	0.1343%	95	22.2136%	17.6157%
47	0.3105%	0.1569%	96	24.0153%	18.7657%
48	0.3396%	0.1825%	97	25.7797%	19.7956%
49	0.3686%	0.2116%	98	27.5766%	20.5720%
50	0.3971%	0.2431%	99	29.2286%	21.0838%
51	0.4672%	0.2806%	100	30.7448%	21.2423%
52	0.5435%	0.3201%	101	32.3665%	22.1344%
53	0.6253%	0.3608%	102	33.7861%	23.1735%
54	0.7119%	0.4018%	103	35.0826%	24.4013%
55	0.8014%	0.4420%	104	36.1722%	25.7784%
56	0.8681%	0.5009%	105	36.9822%	27.2744%
57	0.9299%	0.5593%	106	37.4491%	28.8471%
58	0.9847%	0.6169%	107	37.7175%	30.4676%
59	1.0316%	0.6732%	108	38.0028%	32.0883%
60	1.0706%	0.7296%	109	38.2863%	33.6686%
61	1.1588%	0.7888%	110	96.4196%	96.4583%
62	1.2363%	0.8354%	111	97.1087%	97.1672%
63	1.3067%	0.8825%	112	97.8219%	97.8611%
64	1.3714%	0.9360%	113	98.5792%	98.5792%
65	1.4334%	0.9970%	114	99.2823%	99.2823%
66	1.5265%	1.0662%	115	100.0000%	100.0000%
67	1.6211%	1.1477%			

	NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM							
PR		MORTALITY IN TH THE JUNE 30, 2016 DUSING POLICE A	6 (LAG) VALUATIO	ON:	EES			
Age	Males	Females	Age	Males	Females			
19	0.0201%	0.0121%	68	1.4111%	0.9860%			
20	0.0201%	0.0121%	69	1.5882%	1.0799%			
20	0.0227%	0.0122%	70	1.7737%	1.1725%			
22	0.0241%	0.0138%	70	1.9680%	1.3541%			
23	0.0258%	0.0149%	72	2.1713%	1.5452%			
24	0.0272%	0.0160%	73	2.4162%	1.7447%			
25	0.0284%	0.0174%	74	2.6714%	1.9540%			
26	0.0300%	0.0189%	75	2.9373%	2.1858%			
27	0.0314%	0.0204%	76	3.2148%	2.4470%			
28	0.0333%	0.0223%	77	3.5041%	2.7022%			
29	0.0357%	0.0242%	78	3.9641%	2.9995%			
30	0.0391%	0.0263%	79	4.4446%	3.2900%			
31	0.0454%	0.0317%	80	4.9441%	3.6096%			
32	0.0515%	0.0364%	81	5.3726%	4.1073%			
33	0.0573%	0.0404%	82	5.8075%	4.6242%			
34	0.0626%	0.0433%	83	6.6015%	5.1609%			
35	0.0678%	0.0460%	84	7.4033%	5.6226%			
36	0.0706% 0.0726%	0.0477%	85	8.2128% 9.0318%	6.0537%			
37 38	0.0728%	0.0496% 0.0514%	86 87	9.0318% 9.8575%	6.8113% 7.6037%			
38	0.074%	0.0536%	88	11.1716%	8.4026%			
40	0.0817%	0.0562%	89	12.4980%	9.1475%			
41	0.0901%	0.0597%	90	13.8437%	10.0064%			
42	0.0985%	0.0653%	91	15.4068%	11.3729%			
43	0.1072%	0.0729%	92	17.0051%	12.6896%			
44	0.1164%	0.0828%	93	18.6274%	14.0272%			
45	0.1264%	0.0959%	94	20.3158%	15.5173%			
46	0.1372%	0.1120%	95	22.1014%	16.7734%			
47	0.1488%	0.1307%	96	23.9542%	18.0286%			
48	0.1612%	0.1522%	97	25.7511%	19.1941%			
49	0.1744%	0.1735%	98	27.5665%	20.1367%			
50	0.1885%	0.1876%	99	29.2540%	20.8473%			
51	0.2539%	0.2008%	100	30.7448%	21.2257%			
52	0.3215%	0.2114%	101	32.3665%	22.1344%			
53	0.3905%	0.2201%	102	33.7861%	23.1735%			
54	0.4604%	0.2827%	103	35.0826%	24.4013%			
55 56	0.5030% 0.5620%	0.3385% 0.3893%	104 105	36.1722% 36.9822%	25.7784% 27.2744%			
56 57	0.5620%	0.3893%	105	36.9822% 37.4491%	27.2744% 28.8471%			
58	0.6702%	0.4353%	108	37.7175%	28.8471% 30.4676%			
59	0.7164%	0.4923%	107	38.0028%	32.0883%			
60	0.7570%	0.5259%	100	38.2863%	33.6686%			
61	0.8264%	0.5588%	110	96.4196%	96.4583%			
62	0.8929%	0.5885%	111	97.1087%	97.1672%			
63	0.9590%	0.6198%	112	97.8219%	97.8611%			
64	1.0252%	0.6850%	113	98.5792%	98.5792%			
65	1.0936%	0.7510%	114	99.2823%	99.2823%			
66	1.1657%	0.8271%	115	100.0000%	100.0000%			
67	1.2419%	0.9039%						

Table XII-5Service Retiree Mortality Rates (cont'd)

Table XII-6 **Disabled Retiree Mortality Rates**

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM							
PR	OBABILITIES OF MO	γρημι την τη	F NEXT VEAR FO	R DISABI ED RETIR	FFS		
11		THE JUNE 30, 2016			CEE0		
		RAL, TBTA, AND	· · · ·				
Age	Males	Females	Age	Males	Females		
19	0.4004%	0.3621%	68	3.4556%	2.7153%		
20	0.4178%	0.3795%	69	3.4920%	2.7821%		
21	0.4540%	0.4176%	70	3.5425%	2.8655%		
22	0.4932%	0.4592%	71	3.7362%	2.9334%		
23	0.5353%	0.5017%	72	3.9537%	3.1912%		
24	0.5805%	0.5528%	73	4.1964%	3.4816%		
25	0.6286%	0.6065%	74	4.4641%	3.7097%		
26	0.6791%	0.6621%	75	4.7589%	3.9801%		
27	0.7324%	0.7276%	76	5.1624%	4.2498%		
28	0.7870% 0.8407%	0.8051% 0.8825%	77	5.6061%	4.5156%		
29 20			78	6.0914%	4.8599%		
30 21	0.8915%	0.9308%	79	6.6244%	5.2831%		
31	0.9380%	0.9665%	80	7.2049%	5.7750%		
32	0.9787%	1.0070%	81	7.8341%	6.3116%		
33	1.0118%	1.0452%	82	8.5178%	6.8921%		
34	1.0425%	1.0738%	83	9.2606%	7.5207%		
35	1.0661%	1.0977%	84	10.0658%	8.1987%		
36	1.0822%	1.1178%	85	10.9387%	8.8788%		
37	1.0931%	1.1320%	86	11.6188%	9.5550%		
38	1.1011%	1.1451%	87	12.1113%	10.2613%		
39	1.1089%	1.1600%	88	12.7402%	10.8690%		
40	1.1204%	1.1720%	89	13.3978%	11.9028%		
41	1.1330%	1.1848%	90	14.0918%	13.3527%		
42	1.1535%	1.2073%	91	15.7618%	14.8741%		
43	1.1834%	1.2416%	92	17.6425%	16.2337%		
44	1.2237%	1.2840%	93	19.4842%	17.4617%		
45	1.2754%	1.3499%	94	21.3190%	18.5393%		
46	1.3394%	1.4268%	95	23.1722%	19.6267%		
47	1.4135%	1.5139%	96	24.9286%	20.3987%		
48	1.5189%	1.5985%	97	26.5846%	20.7790%		
49	1.6356%	1.6951%	98	28.2002%	20.9462%		
50	1.7632%	1.7823%	99	29.5880%	21.9484%		
51	1.9423%	1.8930%	100	30.7448%	22.1222%		
52	2.1347%	1.9824%	101	32.3665%	22.6470%		
53	2.3402%	2.0585%	102	33.7861%	23.1735%		
54	2.5542%	2.1623%	103	35.0826%	24.4013%		
55	2.7706%	2.2478%	104	36.1722%	25.7784%		
56	2.8735%	2.3329%	105	36.9822%	27.2744%		
57	2.9582%	2.4156%	106	37.4491%	28.8471%		
58	3.0200%	2.5172%	107	37.7175%	30.4676%		
59	3.0592%	2.5168%	108	38.0028%	32.0883%		
60	3.0781%	2.5156%	109	38.2863%	33.6686%		
61	3.1514%	2.5179%	110	96.4196%	96.4583%		
62	3.2163%	2.5132%	111	97.1087%	97.1672%		
63	3.2824%	2.5203%	112	97.8219%	97.8611%		
64	3.3535%	2.6122%	113	98.5792%	98.5792%		
65	3.4369%	2.6281%	114	99.2823%	99.2823%		
66	3.4284%	2.6375%	115	100.0000%	100.0000%		
67	3.4341%	2.6668%					

	NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM							
PRO	OBABILITIES OF M	ORTALITY IN THI	F NEXT VEAR FOR	2 DISABLED RETIR	FFS			
1 KC		THE JUNE 30, 2010			EE0			
		ECTION AND SAN	. ,					
Age	Males	Females	Age	Males	Females			
19	0.3640%	0.3546%	68	2.3235%	1.8023%			
20	0.3714%	0.3643%	69	2.4648%	1.9384%			
20	0.3948%	0.3936%	70	2.6256%	2.0768%			
22	0.4198%	0.4174%	70	2.8378%	2.2297%			
23	0.4461%	0.4459%	72	3.0757%	2.3981%			
23	0.4738%	0.4809%	73	3.3419%	2.5826%			
25	0.5029%	0.5162%	73	3.6376%	2.8177%			
23	0.5327%	0.5518%	74	3.9658%	3.0962%			
27	0.5634%	0.5940%	76 77	4.3499%	3.3844%			
28	0.5940%	0.6441%		4.7760%	3.6795%			
29	0.6228%	0.6922%	78	5.2461%	4.0499%			
30	0.6484%	0.7160%	79	5.7673%	4.4516%			
31	0.6700%	0.7294%	80	6.3411%	4.9198%			
32	0.6868%	0.7460%	81	7.0084%	5.4358%			
33	0.6979%	0.7603%	82	7.6854%	6.0004%			
34	0.7069%	0.7670%	83	8.3705%	6.6190%			
35	0.7107%	0.7703%	84	9.0621%	7.3345%			
36	0.7097%	0.7711%	85	9.7600%	8.0111%			
37	0.7053%	0.7676%	86	10.8356%	8.6365%			
38	0.6992%	0.7633%	87	11.9204%	9.3074%			
39	0.6931%	0.7606%	88	13.0176%	9.9855%			
40	0.6894%	0.7563%	89	14.1249%	10.9744%			
41	0.6867%	0.7524%	90	15.2495%	12.1005%			
42	0.6886%	0.7547%	91	17.1449%	13.2523%			
43	0.6961%	0.7640%	92	18.9905%	14.3413%			
44	0.7094%	0.7781%	93	20.7658%	15.4517%			
45	0.7288%	0.8059%	94	22.5064%	17.3419%			
46	0.7441%	0.8393%	95	24.2371%	19.3010%			
47	0.7641%	0.8751%	96	25.6593%	20.3987%			
48	0.7994%	0.9134%	97	27.0236%	20.7790%			
49	0.8388%	0.9418%	98	28.4079%	20.9462%			
50	0.8817%	0.9706%	99	29.6433%	21.9484%			
51	0.9548%	0.9963%	100	30.7448%	22.1222%			
52	1.0326%	1.0167%	100	32.3665%	22.6470%			
52	1.0328%	1.0293%	101	33.7861%	23.1735%			
53 54	1.1149%	1.0293%	102	35.0826%	23.1735% 24.4013%			
	1.1993%							
55		1.0873%	104	36.1722%	25.7784%			
56	1.3695%	1.1113%	105	36.9822%	27.2744%			
57	1.4505%	1.1342%	106	37.4491%	28.8471%			
58	1.5231%	1.1659%	107	37.7175%	30.4676%			
59	1.5868%	1.1995%	108	38.0028%	32.0883%			
60	1.6417%	1.2334%	109	38.2863%	33.6686%			
61	1.7111%	1.2699%	110	96.4196%	96.4583%			
62	1.7773%	1.3036%	111	97.1087%	97.1672%			
63	1.8455%	1.3442%	112	97.8219%	97.8611%			
64	1.9178%	1.4183%	113	98.5792%	98.5792%			
65	1.9988%	1.4949%	114	99.2823%	99.2823%			
66	2.0925%	1.5919%	115	100.0000%	100.0000%			
67	2.1997%	1.6908%						
			i		•			

Table XII-6Disabled Retiree Mortality Rates (cont'd)

	NEW YOF	RK CITY EMPLOYE	EES' RETIREMEN	NT SYSTEM	
PR	OBABILITIES OF MO	ORTALITY IN THE	NEXT YEAR FO	DR DISABLED RETIR	REES
		THE JUNE 30, 2016			
	HO	USING POLICE AN	ND TRANSIT PO	DLICE	
Age	Males	Females	Age	Males	Females
19	0.0288%	0.0141%	68	1.7829%	1.1608%
20	0.0300%	0.0149%	69	1.9688%	1.3301%
21	0.0323%	0.0166%	70	2.1777%	1.5158%
22	0.0352%	0.0186%	71	2.4165%	1.7109%
23	0.0380%	0.0208%	72	2.6659%	1.9155%
24	0.0415%	0.0231%	73	2.9443%	2.1421%
25	0.0451%	0.0256%	74	3.2170%	2.3993%
26	0.0492%	0.0284%	75	3.5010%	2.6837%
27	0.0536%	0.0313%	76	3.9811%	2.9817%
28	0.0586%	0.0347%	77	4.4587%	3.2541%
29	0.0636%	0.0378%	78	4.9546%	3.5753%
30	0.0689%	0.0409%	79	5.3829%	4.0741%
31	0.0742%	0.0440%	80	5.8162%	4.5929%
32	0.0793%	0.0469%	81	6.5681%	5.1337%
33	0.0862%	0.0498%	82	7.3658%	5.6004%
34	0.0899%	0.0514%	83	8.1731%	6.0712%
35	0.0939%	0.0535%	84	8.9339%	6.8738%
36	0.0983%	0.0555%	85	9.8107%	7.6781%
37	0.1036%	0.0578%	86	11.1871%	8.4328%
38	0.1099%	0.0600%	87	12.4403%	9.1758%
39	0.1215%	0.0630%	88	13.7755%	10.0374%
40	0.1325%	0.0678%	89	15.3248%	11.3305%
41	0.1436%	0.0745%	90	16.9079%	12.6282%
42	0.1552%	0.0830%	91	18.5118%	13.9489%
43	0.1677%	0.0941%	92	20.0567%	14.9678%
44	0.1812%	0.1081%	93	21.9315%	16.0409%
45	0.1965%	0.1249%	94	23.7553%	17.1707%
46	0.2061%	0.1447%	95	25.3782%	18.2303%
47	0.2162%	0.1670%	96	27.3314%	19.2382%
48	0.2267%	0.1915%	97	28.9930%	20.1699%
49	0.2964%	0.2222%	98	30.2883%	20.8495%
50	0.3648%	0.2562%	99	32.0879%	21.2940%
51	0.4317%	0.2825%	100	33.4990%	21.4632%
52	0.4961%	0.3313%	100	34.5697%	22.1344%
53	0.5288%	0.3708%	101	35.6330%	23.1735%
54	0.5702%	0.4271%	102	36.4423%	24.4013%
55	0.6129%	0.4834%	103	36.9101%	25.7784%
56	0.6741%	0.5272%	104	37.1787%	27.2744%
57	0.7274%	0.5393%	105	37.4491%	28.8471%
58	0.7274%	0.5568%	108	37.7175%	30.4676%
50 59	0.8606%	0.5905%	107	38.0028%	32.0883%
		0.6186%			
60 61	0.9374%		109	38.2863%	33.6686%
61	1.0101%	0.6459%	110	96.4196%	96.4583%
62	1.0794%	0.7070%	111	97.1087%	97.1672%
63	1.1410%	0.7675%	112	97.8219%	97.8611%
64	1.2164%	0.8373%	113	98.5792%	98.5792%
65	1.2874%	0.9079%	114	99.2823%	99.2823%
66	1.4359%	0.9841%	115	100.0000%	100.0000%
67	1.6055%	1.0724%			

Table XII-6Disabled Retiree Mortality Rates (cont'd)

Table XII-7
Beneficiary Mortality Rates

		OF BENEFICIARY THE JUNE 30, 2016 ALL PLAN	5 (LAG) VALUAT	THE NEXT YEAR ION:	
Age	Males	Females	Age	Males	Females
19	0.0201%	0.0121%	68	1.7189%	1.2370%
20	0.0211%	0.0122%	69	1.8200%	1.3031%
21	0.0227%	0.0130%	70	1.9248%	1.3660%
22	0.0241%	0.0138%	71	2.0926%	1.5265%
23	0.0258%	0.0149%	72	2.2666%	1.6863%
24	0.0272%	0.0160%	73	2.4473%	1.8449%
25	0.0284%	0.0174%	74	2.6339%	2.0027%
26	0.0300%	0.0189%	75	2.8272%	2.1592%
27	0.0314%	0.0204%	76	3.2696%	2.4549%
28	0.0333%	0.0223%	77	3.7263%	2.7536%
29	0.0357%	0.0242%	78	4.1972%	3.0540%
30	0.0391%	0.0263%	79	4.6851%	3.3564%
31	0.0456%	0.0325%	80	5.1881%	3.6583%
32	0.0521%	0.0323 %	81	5.7341%	4.1289%
33	0.0582%	0.0430%	82	6.2881%	4.6076%
34	0.0638%	0.0469%	83	6.8485%	5.0947%
35	0.0696%	0.0507%	84	7.4144%	5.5889%
36	0.0730%	0.0535%	85	7.9854%	6.0929%
37	0.0762%	0.0566%	86	9.0625%	6.9582%
38	0.0796%	0.0597%	87	10.1865%	7.8220%
39	0.0840%	0.0634%	88	11.3608%	8.6925%
40	0.0904%	0.0674%	89	12.5840%	9.5648%
40	0.1253%	0.0716%	90	13.8632%	10.4405%
42	0.1233 %	0.0783%	91	15.4852%	11.9474%
43	0.1896%	0.0873%	92	17.1034%	13.4176%
44	0.2207%	0.0994%	93	18.7153%	14.8777%
45	0.2524%	0.1151%	94	20.3691%	16.2589%
46	0.2813%	0.1343%	95	22.2136%	17.6157%
40	0.3105%	0.1569%	96	24.0153%	18.7657%
48	0.3396%	0.1825%	97	25.7797%	19.7956%
49	0.3686%	0.2116%	98	27.5766%	20.5720%
50	0.3971%	0.2431%	99	29.2286%	21.0838%
50	0.4672%	0.2806%	100	30.7448%	21.2423%
52	0.5435%	0.3201%	100	32.3665%	22.1344%
53	0.6253%	0.3608%	101	33.7861%	23.1735%
55	0.7119%	0.4018%	102	35.0826%	24.4013%
55	0.8014%	0.4420%	103	36.1722%	25.7784%
56	0.8681%	0.5009%	101	36.9822%	27.2744%
57	0.9299%	0.5593%	106	37.4491%	28.8471%
58	0.9847%	0.6169%	100	37.7175%	30.4676%
59	1.0316%	0.6732%	107	38.0028%	32.0883%
60	1.0706%	0.7296%	100	38.2863%	33.6686%
61	1.1588%	0.7888%	110	96.4196%	96.4583%
62	1.2363%	0.8354%	110	97.1087%	97.1672%
63	1.3067%	0.8825%	111	97.8219%	97.8611%
63 64	1.3714%	0.8825%	112	98.5792%	98.5792%
64 65	1.4334%	0.9380%	113	99.2823%	98.3792% 99.2823%
66	1.5265%	1.0662%	114	100.0000%	100.0000%
67	1.6211%	1.1477%	115	100.0000%	100.0000%
07	1.021170	1.17//70		1	1

Salary Scale

	NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM ANNUAL RATES OF SALARY INCREASE									
Years of Service	Gen	eral	Corre	ection	Sanit	ation	ТВ	ТА	Transit	
	Merit Increase	Salary Scale	Merit Increase	Salary Scale	Merit Increase	Salary Scale	Merit Increase	Salary Scale	Merit Increase	Salary Scale
0	6.00%	9.00%	11.00%	14.00%	4.00%	7.00%	8.00%	11.00%	16.00%	19.00%
1	5.00%	8.00%	10.00%	13.00%	6.00%	9.00%	7.00%	10.00%	11.00%	14.00%
2	4.00%	7.00%	9.00%	12.00%	8.00%	11.00%	6.00%	9.00%	7.00%	10.00%
3	3.00%	6.00%	8.00%	11.00%	13.00%	16.00%	5.00%	8.00%	4.00%	7.00%
4	2.50%	5.50%	46.00%	49.00%	32.00%	35.00%	4.00%	7.00%	2.00%	5.00%
5	2.00%	5.00%	1.20%	4.20%	22.00%	25.00%	3.00%	6.00%	1.00%	4.00%
6	1.90%	4.90%	1.40%	4.40%	1.40%	4.40%	2.00%	5.00%	0.50%	3.50%
7	1.80%	4.80%	1.60%	4.60%	1.60%	4.60%	1.00%	4.00%	0.50%	3.50%
8	1.70%	4.70%	1.80%	4.80%	1.80%	4.80%	0.80%	3.80%	0.50%	3.50%
9	1.60%	4.60%	3.20%	6.20%	3.20%	6.20%	0.60%	3.60%	0.50%	3.50%
10	1.50%	4.50%	2.00%	5.00%	2.00%	5.00%	0.50%	3.50%	0.50%	3.50%
11	1.50%	4.50%	1.90%	4.90%	1.90%	4.90%	0.50%	3.50%	0.50%	3.50%
12	1.50%	4.50%	1.80%	4.80%	1.80%	4.80%	0.50%	3.50%	0.50%	3.50%
13	1.50%	4.50%	1.70%	4.70%	1.70%	4.70%	0.50%	3.50%	0.50%	3.50%
14	1.50%	4.50%	2.90%	5.90%	2.90%	5.90%	0.50%	3.50%	0.50%	3.50%
15	1.50%	4.50%	1.50%	4.50%	1.50%	4.50%	0.50%	3.50%	0.50%	3.50%
16	1.45%	4.45%	1.40%	4.40%	1.40%	4.40%	0.50%	3.50%	0.50%	3.50%
17	1.40%	4.40%	1.30%	4.30%	1.30%	4.30%	0.50%	3.50%	0.50%	3.50%
18	1.35%	4.35%	1.20%	4.20%	1.20%	4.20%	0.50%	3.50%	0.50%	3.50%
19	1.30%	4.30%	2.40%	5.40%	2.40%	5.40%	0.50%	3.50%	0.50%	3.50%
20	1.25%	4.25%	1.00%	4.00%	1.00%	4.00%	0.50%	3.50%	0.50%	3.50%
21	1.20%	4.20%	0.90%	3.90%	0.90%	3.90%	0.50%	3.50%	0.50%	3.50%
22	1.15%	4.15%	0.80%	3.80%	0.80%	3.80%	0.50%	3.50%	0.50%	3.50%
23	1.10%	4.10%	0.70%	3.70%	0.70%	3.70%	0.50%	3.50%	0.50%	3.50%
24	1.05%	4.05%	0.60%	3.60%	0.60%	3.60%	0.50%	3.50%	0.50%	3.50%
25+	1.00%	4.00%	0.50%	3.50%	0.50%	3.50%	0.50%	3.50%	0.50%	3.50%

Table XII-9 Overtime

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM							
OVERTIME ASSUMPTION: GROUPS OTHER THAN CORRECTION							
Plan Group	Overtime Type Assumpt						
General	All Overtime	4.00%					
	Baseline	12.00%					
Sanitation	Dual Service	16.00%					
	Dual Disability	8.00%					
	Baseline	20.00%					
	Dual Service: FAS 1 benefits	30.00%					
ТВТА	Dual Service: Other benefits	24.00%					
	Dual Disability: FAS 1 benefits	15.00%					
	Dual Disability: Other benefits	18.00%					
	Baseline	8.00%					
	Dual Service: Tier 1	12.00%					
Transit	Dual Service: Others	10.00%					
	Dual Disability	6.00%					

Table XII-9 Overtime (cont'd)

OVE	RTIME ASSUMF	TION: CORRECT	ION						
Correction									
Years of Service	Baseline and Dual Service	Dual Disability: Tier 1	Dual Disability Others						
0	10.00%	5.00%	8.00%						
1	10.00%	5.00%	8.00%						
2	10.00%	5.00%	8.00%						
3	10.00%	5.00%	8.00%						
4	10.00%	5.00%	8.00%						
5	10.00%	5.00%	8.00%						
6	10.00%	5.00%	8.00%						
7	10.00%	5.00%	8.00%						
8	10.00%	5.00%	8.00%						
9	10.00%	5.00%	8.00%						
10	10.00%	5.00%	8.00%						
11	10.00%	5.00%	8.00%						
12	10.00%	5.00%	8.00%						
13	10.00%	5.00%	8.00%						
14	10.00%	5.00%	8.00%						
15	10.00%	5.00%	8.00%						
16	11.00%	6.00%	9.00%						
17	12.00%	7.00%	10.00%						
18	13.00%	8.00%	11.00%						
19	14.00%	9.00%	12.00%						
20+	15.00%	10.00%	13.00%						

Additional Assumptions and Methods

- 1. **Marital Assumption**: All active members are assumed to be married and females are assumed to be three years younger than their male spouses.
- 2. **Credited Service**: Calculated in whole year increments for valuation purposes.
- 3. **Loans**: Except for Death Benefits, it is assumed that eligible members take the maximum allowable loan at retirement.
- 4. Actuarial Interest Rate: 7.0% per annum, net of investment expenses.
- 5. **COLA**: Based on an assumed long-term Consumer Price Index Inflation rate of 2.5% per year, 1.5% per year for Auto COLA, 2.5% per year for Escalation.

6. Actuarial Asset Valuation Method (AAVM):

The Actuary reset the Actuarial Value of Assets to market value as of June 30, 2011.

Beginning with the June 30, 2012 (Lag) actuarial valuation, the AAVM recognizes investment returns greater or less than expected over a period of six years.

In accordance with this AAVM, actual Unexpected Investment Returns (UIR) are phased into the Actuarial Value of Assets (AVA) at rates of 15%, 15%, 15%, 15%, 20%, and 20% per year (i.e. cumulative rates of 15%, 30%, 45%, 60%, 80%, and 100% over a period of six years).

Beginning with the June 30, 2014 (Lag) actuarial valuation, the AVA is constrained to be within a corridor of 80% to 120% of the market value.

For more information, see SECTION II – MARKET AND ACTUARIAL VALUES OF ASSETS.

7. Actuarial Cost Method: Beginning with the June 30, 2010 (Lag) actuarial valuation, the Entry Age Normal (EAN) cost method of funding is used by the Actuary to calculate the contribution required of the employer under the 2016 A&M.

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

The excess, if any, of the AL over the Actuarial Value of Assets (AVA) is the Unfunded Accrued Liability (UAL).

Under this method, actuarial gains and losses, as they occur, reduce and increase the UAL, respectively, and are explicitly identified and amortized.

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

Under EAN, the explicit UALs that are developed each year are generally financed over fixed periods. Ideally, these periods are reasonably consistent with the expected future working lifetimes of all active participants. For more information see Page 12.

Under EAN, the employer normal cost remains constant as a percentage of payroll and changes gradually over time for the entire Plan as the characteristics of the members change (e.g. more Tier 6 active members decrease the average employer normal cost).

- 8. Lump Sum Death Benefits: Liabilities for group life lump sum death benefits are calculated under the One-Year Term Cost method.
- 9. **Allowances for Administrative Expenses**: The Employer Contribution for a fiscal year is increased by the interest-adjusted amount of administrative expenses paid from NYCERS during the second prior fiscal year.
- 10. **WTC Disability and Death Benefits**: For actuarial valuations beginning June 30, 2014 and after, obligations attributable to the WTC Disability Law and to the WTC Death Benefits Law are determined through the use of explicit assumptions in the 2016 A&M, and through estimation techniques for post-retirement reclassifications.
- 11. **One-Year Lag Methodology (OYLM)**: One-Year Lag methodology uses a June 30, XX-2 valuation date to determine Fiscal Year XX employer contributions.

This methodology requires adjustments to determine Fiscal Year XX employer contributions as follows:

<u>Present Value of Future Salary (PVFS)</u>: The PVFS at June 30, XX-2 is reduced by the value of salary projected to be paid during Fiscal Year XX-1.

<u>Salary for Determining Employer Normal Contributions</u>: Salary used to determine the employer Normal Contribution is the salary projected to be paid during Fiscal Year XX to members on payroll at June 30, XX-2.

<u>UAL Payments</u>: For determining the UAL payments for Fiscal Year XX, and to be consistent with the OYLM, the UAL as of June 30, XX-2 is adjusted by the discounted value of employer normal cost paid during Fiscal Year XX-1 and the discounted value of Administrative Expenses reimbursed during Fiscal Years XX-1 and XX.

12. **Excess Benefit Plan**: The valuation includes liabilities and costs, if any, associated with the Excess Benefit Plan administered by the NYCERS in the case that members exceed the Internal Revenue Code Section 415 limitation.

SECTION XIII - SUMMARY OF DEMOGRAPHIC DATA

The June 30, 2016 (Lag) and June 30, 2015 (Lag) actuarial valuations are based upon census data as of those dates submitted by the Plan's administrative staff and the employer's payroll facilities. Financial information was provided by the Office of the Comptroller as of June 30, 2016 and June 30, 2015.

Consistent with Actuarial Standards of Practice, the Office of the Actuary has reviewed census data and financial information for consistency and reasonability but has not audited it. The accuracy of the results and calculations contained in this Report are dependent on the accuracy of this census data and financial information. To the extent any such data or information provided is materially inaccurate or incomplete, the results contained herein will require revision.

Table XIII-1 Status Reconciliation

(CHANGES IN TH	HE NUMBER C	OF ACTIVES AN	ND PENSIONE	ERS DURING T	THE FISCAL YI	EAR CLASSIFII	ED BY STATUS		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9) Pensioners	(10)
Status	Active	Active/	Deferred	Service	Ordinary	Accidental	Accidental	Other	Subtotal	Grand Total
	Members	Inactive	Vested	Pension	Disability	Disability	Death	Beneficiary	(4) to (8)	(1) + (2) + (3) + (9)
Number at June 30, 2015	185,758	16,907	9,402	115,626	9,892	4,429	139	14,440	144,526	356,593
New Entrants	10,396	52	159	310	31	5	10	174	530	11,137
Rehire	3,207	(1,719)	(313)	0	0	0	0	0	0	1,175
Leaving Active Payroll	(7,027)	7,027	0	0	0	0	0	0	0	0
Vested Termination	(98)	(258)	356						0	0
Non-Vested Termination / Cashout	(1,289)	(2,909)	(152)						0	(4,350)
Accidental Death (from Active)	(1)	0	0	0	0	0	1	0	1	0
Ordinary Death (from Active)	(28)	(4)	(49)	0	0	0	0	0	0	(81)
Service Retirement	(5,144)	(847)	(506)	6,497	0	0	0	0	6,497	0
Ordinary Disability Retirement	(253)	(242)	(2)	0	497	0	0	0	497	0
Accidental Disability Retirement	(40)	(18)	0	0	0	58	0	0	58	0
Reclassifications	0	0	0	(46)	445	(444)	13	32	0	0
Death with Beneficiary	0	0	0	(729)	(113)	(11)	0	853	0	0
Death without Beneficiary	0	0	0	(3,242)	(297)	(108)	(5)	(847)	(4,499)	(4,499)
Off Pension Payroll	0	0	0	(41)	(14)	(1)	0	(40)	(96)	(96)
Net Change	(277)	1,082	(507)	2,749	549	(501)	19	172	2,988	3,286
Number at June 30, 2016	185,481	17,989	8,895	118,375	10,441	3,928	158	14,612	147,514	359,879

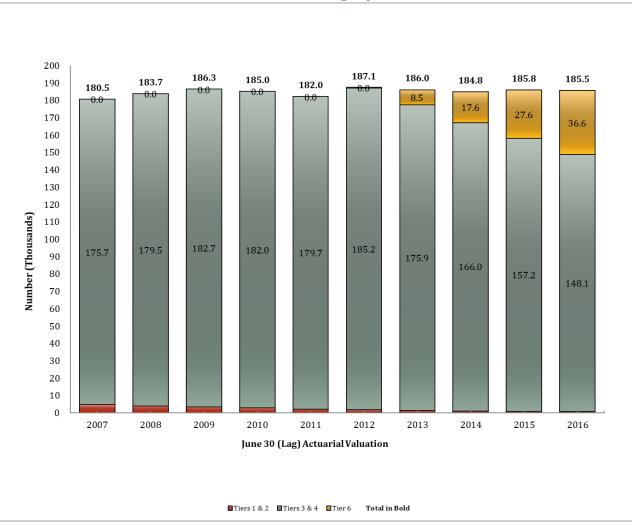
2.00 400 359.9 356.6 353.1 350.3 351.9 347.4 347.4 347.7 345.7 345.4 350 1.50 300 144.5 147.5 Headcount (Thousands) 30.7 39.4 42.1 131.0 132.5 138.0 Support Ratio: Pensioners per Active 135.5 29. 250 7.9 8.8 8.9 8.9 8.9 10.1 9.4 8.9 8.9 9.7 200 1.00 8.0 6 0.80 0.78 0.77 0.75 0.740.74 0.72 0.72 0.71 0.70 150 100 0.50 185.5 183.7 185.0 182.0 87. 86.0 184.8 85.8 .80.5 50 0 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 June 30 (Lag) Actuarial Valuation Deferred Vested -Pensioners Per Active Total in bold Active / Inactives Pensioners Actives Actives

Graph XIII-2 Headcount Summary by Status

Table XIII-3 Summary of Active Membership

NEW YORK CITY EM	IPLOYEES' F	RETIREMENT SYSTEM		
ACTIVE MEM JUNE 30, 2016 (LAG) AND THE JU		UDED IN THE (LAG) ACTUARIAL V.	ALUATIO	ONS
	Ju	ine 30, 2016 (Lag)	Ju	ne 30, 2015 (Lag)
Number				
Males		102,095		102,085
Females		83,386		83,673
Total		185,481		185,758
Annual Salary ¹				
Males	\$	7,827,800,111	\$	7,673,506,428
Females		5,388,739,244		5,243,960,100
Total	\$	13,216,539,355	\$	12,917,466,528
Average Salary ¹				
Males	\$	76,672	\$	75,168
Females		64,624		62,672
Total Average	\$	71,255	\$	69,539
Average Age				
Males		48.1		48.1
Females		48.0		47.9
Total Average		48.1		48.0
Average Past Service				
Males		12.9		13.0
Females		12.3		12.2
Total Average		12.6		12.6

¹Salaries reflect the impact of recent labor contract settlements and certain non-union salary increases with retroactive effective dates, if any.



Graph XIII-4 Active Membership by Tier

June 30 (Lag) Actuarial Valuation	Number	Annual Salary	Average Annual Salary	Percentage Increase/ (Decrease) In Avg. Salary
2007	180,482	\$10,761,963,324	\$59,629	5.2%
2008	183,654	11,305,974,384	61,561	3.2%
2009	186,284	11,880,993,974	63,779	3.6%
2010	184,982	12,101,416,579	65,419	2.6%
2011	182,021	12,233,572,536	67,210	2.7%
2012	187,114	12,478,129,812	66,687	- 0.8%
2013	185,971	12,642,482,697	67,981	1.9%
2014	184,762	12,672,386,846	68,588	0.9%
2015	185,758	12,917,466,528	69,539	1.4%
2016	185,481	13,216,539,355	71,255	2.5%

Table XIII-5Schedule of Active Member Salary Data

Annualized covered payrolls used for the Fiscal Year 2012 Employer Contributions and subsequent years are based on revised actuarial assumptions enacted by Chapter 3/13 (i.e. the 2012 A&M).

Salaries reflect the impact of recent labor contract settlements and certain non-union salary increases with retroactive effective dates, if any.

Detailed Active Membership and Salaries by Group as of June 30, 2016

				Tran	sit Authority					
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	5	0	0	0	0	0	0	0	0	5
20 TO 24	173	12	0	0	0	0	0	0	0	185
25 TO 29	987	205	12	0	0	0	0	0	0	1,204
30 TO 34	1,727	653	152	71	0	0	0	0	0	2,603
35 TO 39	1,584	957	591	250	0	0	0	0	0	3,382
40 TO 44	1,289	1,002	861	981	140	13	0	0	0	4,286
45 TO 49	1,095	1,010	964	1,620	953	472	28	0	0	6,142
50 TO 54	919	907	970	1,762	1,316	1,733	701	61	0	8,369
55 TO 59	552	679	695	1,455	1,056	1,341	756	169	1	6,704
60 TO 64	237	351	418	936	639	649	437	201	13	3,881
65 TO 69	50	141	202	454	214	209	113	78	32	1,493
70 & UP	8	27	40	118	-11	62	35	18	31	413
TOTAL	8,626	5,944	4,905	7,647	4,392	4,479	2,070	527	77	38,667
		- / -	,	7-			,			
SALARIES (IN T	HOUSANDS):									
UNDER 20	237	0	0	0	0	0	0	0	0	237
20 TO 24	9,557	973	0	0	0	0	0	0	0	10,530
25 TO 29	61,073	15,306	940	0	0	0	0	0	0	77,320
30 TO 34	113,688	49,077	11,610	6,150	0	0	0	0	0	180,527
35 TO 39	107,193	74,012	46,402	20,675	0	0	0	0	0	248,281
40 TO 44	87,939	77,726	68,970	79,632	12,326	1,335	0	0	0	327,927
45 TO 49	75,417	78,941	78,188	133,286	81,545	42,490	2,694	0	0	492,560
50 TO 54	64,162	71,547	78,927	146,104	115,391	152,204	65,238	5,752	0	699,326
55 TO 59	39,394	53,507	56,825	120,654	91,677	118,298	68,322	15,649	108	564,434
60 TO 64	16,568	27,734	34,553	78,165	55,576	56,170	39,358	19,211	1,160	328,495
65 TO 69	3,701	10,965	16,347	37,777	18,276	17,965	10,319	7,203	3,247	125,797
70 & UP	583	2,225	3,485	9,750	6,274	5,215	2,891	1,622	2,783	34,828
TOTAL *	579,511	462,013	396,248	632,192	381,065	393,677	188,821	49,437	7,299	3,090,263
AVERAGE SALA	RIES: **									
UNDER 20	47,342	0	0	0	0	0	0	0	0	47,342
20 TO 24	55,242	81,117	0	0	0	0	0	0	0	56,921
25 TO 29	61,878	74,665	78,343	0	0	0	0	0	0	64,219
30 TO 34	65,830	75,157	76,384	86,624	0	0	0	0	0	69,353
35 TO 39	67,672	77,337	78,515	82,699	0	0	0	0	0	73,413
40 TO 44	68,223	77,571	80,105	81,174	88,042	102,663	0	0	0	76,511
45 TO 49	68,874	78,159	81,108	82,275	85,567	90,021	96,203	0	0	80,195
50 TO 54	69,817	78,883	81,368	82,919	87,683	87,827	93,065	94,292	0	83,561
55 TO 59	71,366	78,803	81,762	82,924	86,815	88,217	90,373	92,597	108,461	84,194
60 TO 64	69,907	79,013	82,664	83,510	86,973	86,549	90,063	95,579	89,242	84,642
65 TO 69	74,011	77,763	80,925	83,208	85,401	85,955	91,315	92,341	101,481	84,258
70 & UP	72,840	82,410	87,118	82,627	84,780	84,117	82,609	90,131	89,780	84,330
TOTAL	67,182	77,728	80,785	82,672	86,763	87,894	91,218	93,808	94,794	79,920

Note: Age is last birthday. Service is completed years.

* Total may not add up due to rounding.

** Average based on unrounded salary.

Detailed Active Membership and Salaries by Group as of June 30, 2016 (cont'd)

				Hou	sing Authorit	v				
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	1	0	0	0	0	0	0	0	0	1
20 TO 24	131	3	0	0	0	0	0	0	0	134
25 TO 29	332	181	6	0	0	0	0	0	0	519
30 TO 34	335	254	71	5	0	0	0	0	0	665
35 TO 39	343	208	176	158	9	0	0	0	0	894
40 TO 44	255	207	241	277	210	11	0	0	0	1,201
45 TO 49	223	210	264	309	395	259	4	0	0	1,664
50 TO 54	168	196	239	342	362	436	107	3	0	1,853
55 TO 59	125	141	187	304	312	317	201	88	0	1,675
60 TO 64	50	78	114	204	168	145	100	70	10	939
65 TO 69	16	35	50	69	44	32	9	13	7	275
70 & UP	8	12	8	26	17	3	6	3	11	94
TOTAL	1,987	1,525	1,356	1,694	1,517	1,203	427	177	28	9,914
SALARIES (IN	THOUSANDS):									
UNDER 20	30	0	0	0	0	0	0	0	0	30
20 TO 24	5,171	132	0	0	0	0	0	0	0	5,303
25 TO 29	14,318	8,729	296	0	0	0	0	0	0	23,343
30 TO 34	17,074	13,397	3,657	256	0	0	0	0	0	34,383
35 TO 39	18,125	12,103	10,729	9,201	698	0	0	0	0	50,856
40 TO 44	14,638	12,660	14,855	17,371	14,586	759	0	0	0	74,868
45 TO 49	13,270	12,828	16,454	19,917	28,021	18,790	332	0	0	109,611
50 TO 54	10,255	12,011	14,913	22,585	25,969	31,670	8,680	241	0	126,324
55 TO 59	7,531	8,586	12,251	20,166	22,922	22,741	15,625	6,287	0	116,108
60 TO 64	3,469	4,433	6,870	13,601	11,236	10,782	7,564	5,128	649	63,733
65 TO 69	1,136	2,080	3,283	4,813	2,855	2,348	730	859	512	18,616
70 & UP	175	358	485	1,773	1,123	210	383	158	637	5,303
TOTAL *	105,191	87,316	83,792	109,684	107,411	87,299	33,314	12,673	1,798	628,479
AVERAGE SALA	ARIES: **									
UNDER 20	29,924	0	0	0	0	0	0	0	0	29,924
20 TO 24	39,473	44,019	0	0	0	0	0	0	0	39,575
25 TO 29	43,127	48,225	49,300	0	0	0	0	0	0	44,976
30 TO 34	50,966	52,743	51,503	51,210	0	0	0	0	0	51,704
35 TO 39	52,842	58,188	60,962	58,234	77,549	0	0	0	0	56,886
40 TO 44	57,403	61,158	61,637	62,711	69,458	69,006	0	0	0	62,338
45 TO 49	59,508	61,084	62,324	64,457	70,940	72,547	82,878	0	0	65,872
50 TO 54	61,040	61,281	62,397	66,038	71,739	72,637	81,123	80,315	0	68,173
55 TO 59	60,251	60,892	65,514	66,335	73,468	71,738	77,735	71,439	0	69,318
60 TO 64	69,381	56,832	60,260	66,673	66,884	74,361	75,642	73,255	64,901	67,873
65 TO 69	70,971	59,443	65,667	69,756	64,876	73,361	81,154	66,072	73,129	67,694
70 & UP	21,873	29,847	60,634	68,206	66,062	69,998	63,844	52,744	57,941	56,418
TOTAL	52,940	57,257	61,794	64,748	70,805	72,568	78,019	71,597	64,224	63,393

Note: Age is last birthday. Service is completed years.

Total may not add up due to rounding.
Average based on unrounded salary.

Detailed Active Membership and Salaries by Group as of June 30, 2016 (cont'd)

ARE \ VVC UNDER 5 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40 & UP ALL VEA NUMBER: UNDER 20 0					Health and	Hospitals Cor	poration				
UNDER 20 0<	AGE \ SVC	UNDER 5	5-9	10-14				30-34	35-39	40 & UP	ALL YEARS
20 T0 24 156 1 0 0 0 0 0 0 0 0 112 25 T0 29 1.135 178 2 0 0 0 0 0 0 0 0 0 3.73 30 70 34 1.478 942 150 4 0 0 0 0 0.33 3.43 40 T0 44 1.181 1.098 802 278 34 1 0 0 0 3.73 45 T0 49 1.040 1.206 1.094 652 283 64 4 0 0 5.55 55 T0 59 734 1.000 1.299 1.197 1.028 532 186 57 1 5.55 07 09 1.33 313 276 196 133 44 38 42 1.33 07 8.0 133 51 83 99 64 55 22 10 28 242 1.43 08 00 0 0 0 0 0 0 0 <td>NUMBER:</td> <td></td>	NUMBER:										
25 T0 29 1,135 178 2 0 0 0 0 0 0 0 2.57 30 T0 34 1,478 942 150 4 0 0 0 0 0 0.3.13 40 T0 44 1,181 1.098 802 278 34 1 0 0 0 3.33 50 T0 54 1.047 1.193 1.229 1.059 612 310 52 0 0 5,55 50 T0 59 734 1.000 1.229 1.057 106 133 44 38 42 1,31 70 K UP 33 51 83 99 64 55 22 10 2.8 4.4 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,33 StatALARIES (IN THOUSANDS): UNDEK 20 0 0 0 0 0 0 0 0 0 0 106 22,33 StatALARIES (IN THOUSANDS): UNDEK 20 0 <td< td=""><td>UNDER 20</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></td<>	UNDER 20	0	0	0	0	0	0	0	0	0	0
30 T0 34 1.478 942 150 4 0 0 0 0 0 0 30 0 35 T0 39 1.291 1,152 598 83 0 0 0 0 3.3' 45 T0 49 1,040 1.206 1,094 652 2233 64 4 0 0 5.3' 50 T0 54 1,047 1,193 1,229 1,059 612 513 186 57 1 5.9' 60 T0 64 350 657 843 831 686 464 183 93 3.1 4.1' 708 UP 33 51 83 99 64 55 22 10 2.8' 4' 708 UP 33 51 83 99 64 55 22 10 2.8' 4' 708 UP 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10.2' 3'3'3'	20 TO 24	156	1	0	0	0	0	0	0	0	157
35 T0 39 1,291 1,152 598 83 0 0 0 0 3,12 40 T0 44 1,181 1,098 802 278 34 1 0 0 0 3,32 50 T0 54 1,047 1,193 1,229 1,059 612 310 52 0 0 4,33 50 T0 54 1,047 1,193 1,229 1,059 612 310 52 0 0 5,55 50 T0 59 734 1,000 1,209 1,197 1,028 552 22 10 2.28 44 70 & UP 33 51 83 99 64 55 22 10 2.23 102 32,35 COMUP ANDESIS 113 201 0	25 TO 29	1,135	178	2	0	0	0	0	0	0	1,315
40 T0 44 1,181 1,098 802 278 34 1 0 0 0 3,34 45 T0 49 1,040 1,206 1,094 652 283 64 4 0 0 4,35 50 T0 54 1,047 1,193 1,229 1,197 1,028 532 186 57 1 5,99 60 T0 64 350 657 843 831 666 464 183 93 31 4,17 65 T0 69 113 231 313 276 196 153 441 38 42 1,33 708 UP 33 51 83 99 64 55 22 10 28 4 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,33 20 T0 24 8,749 39 0 0 0 0 0 70 6,323 4,479 2,903 0 0 0 10 55,57 53,51 53,73 53,51 54	30 TO 34	1,478	942	150	4	0	0	0	0	0	2,574
$45 \ TO 49$ 1,0401,2061,094652283644004,34 $50 \ TO 54$ 1,0471,1931,2291,05961231052005,57 $55 \ TO 59$ 7341,0001,2091,1771,028532186577115,9 $60 \ TO 64$ 35065784383166646418393314,13 $65 \ TO 69$ 1132313132761961334438421,33 $70 \ 8.0P$ 357,796,3234,4792,9031,55949119810232,33 $70 \ 8.0P$ 000000008,77 $20 \ TO 24$ 8,749390000008,77 $25 \ TO 29$ 68,24510,326104000000156,22 $20 \ TO 34$ 88,31558,8808,7722,7600000225,03 $57 \ TO 39$ 79,5187,39454,63118,9682,46489000245,03 $57 \ TO 39$ 70,2917,39454,63118,9682,4648900229,53 $57 \ TO 39$ 50,13667,51683,18592,52987,27839,45213,6714,449110438,33 $60 \ TO 64$ 26,16045,64558,40463,9	35 TO 39	1,291	1,152	598	83	0	0	0	0	0	3,124
50 T0 54 1,047 1,193 1,229 1,059 612 310 52 0 0 5,50 55 T0 59 734 1,000 1,209 1,197 1,028 532 186 57 1 5,90 65 T0 69 113 231 313 276 196 133 444 38 42 1,33 0.8 UP 33 51 83 99 64 55 22 10 28 4 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,351 SALARIES (IN THOUSANDES): UNDER 20 0 0 0 0 0 0 0 0 0 0 23,351 25 TO 29 68,245 10,326 104 0 0 0 0 0 0 0 162,22 3570 39 79,518 74,288 37,490 4,958 0 0 0 162,23 3570 39 79,518 74,288 37,490 4,920 21,219	40 TO 44	1,181	1,098	802	278	34	1	0	0	0	3,394
55 T0 59 734 1,000 1,209 1,197 1,028 532 186 57 1 5,94 60 T0 64 350 657 843 831 686 464 183 93 31 4,13 65 T0 69 113 231 313 276 196 133 44 38 42 133 08 UP 33 51 63 99 64 55 22 10 28 44 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,33 UNDER 20 0 0 0 0 0 0 0 0 0 7,863 20 T0 24 8,749 39 0 0 0 0 0 0 156,23 25 T0 29 68,245 10,326 104 0 0 0 0 0 126,23 40 T0 44 74,910 73,94 4,417 20,762 3,735 394 0 0 23,364 30,92 <td>45 TO 49</td> <td>1,040</td> <td>1,206</td> <td>1,094</td> <td>652</td> <td>283</td> <td>64</td> <td>4</td> <td>0</td> <td>0</td> <td>4,343</td>	45 TO 49	1,040	1,206	1,094	652	283	64	4	0	0	4,343
60 T0 64 350 657 843 831 686 464 163 93 31 4,13 65 T0 69 113 231 313 276 196 133 44 38 42 1,33 70& UP 33 51 83 99 64 55 22 10 28 44 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,33 SALARIES (IN THOUSANDS): UNDER 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 27,029 68,245 10,326 104 0 0 0 0 0 0 156,22 3703 39 9,518 74,288 37,490 4,958 0 0 0 0 166,23 3735 394 0 0 225,00 3735 394 0 0 225,00 3735 394 0 0 233,63 36,51 33,89	50 TO 54	1,047	1,193	1,229	1,059	612	310	52	0	0	5,502
65 T0 69 113 231 313 276 196 133 44 38 42 1,31 70 & UP 33 51 83 99 64 55 22 10 28 44 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,33 SALARIES (IN THOUSANDS): UNDER 20 0 0 0 0 0 0 0 0 0 0 20 T0 24 8,749 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 156,23 370 39 93,515 86,80 8,772 2.76 0 0 0 0 125,03 373 5 394 0 0 225,03 375 394 0 0 238,55 550 55 51,346 75,494 48,172 20,762 3,735 394 0 0 238,55 500 55 51,346	55 TO 59	734	1,000	1,209	1,197	1,028	532	186	57	1	5,944
70 & UP 33 51 83 99 64 55 22 10 28 44 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,33 SALARIES (IN THOUSANDS): UNDER 20 0	60 TO 64	350	657	843	831	686	464	183	93	31	4,138
70 & UP 33 51 83 99 64 55 22 10 28 44 TOTAL 8,558 7,709 6,323 4,479 2,903 1,559 491 198 102 32,33 SALARIES (IN THOUSANDS): UNDER 20 0	65 TO 69	113	231	313	276	196	133	44	38	42	1,386
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	70 & UP	33	51	83	99	64	55	22	10	28	445
UNDER 20 156,24 30 TO 34 88,315 58,880 8,772 276 0 0 0 0 156,24 0 0 0 0 166,25 3735 394 0 0 225,03 457 049 68,555 82,349 75,604 48,172 20,762 3,735 394 0 0 225,03 36,101 34,856 13,468 7,236 2,364 308,12 55 70 59 50,136 67,516 88,404 63,938 56,101 34,856 13,468 7,236 2,212 3,745	TOTAL	8,558	7,709	6,323	4,479	2,903	1,559	491	198	102	32,322
20 T0 24 8,749 39 0 225.02 45 T0 49 68,555 82,349 75,604 48,172 20,762 3,735 394 0 0 225.02 3,735 394 0 0 235.02 35.05 50.136 67,516 83,185 92,529 87,78 39,452 13,617 4,449 110 438,33 60 T0 64 26,160 45,645 58,404 63,938 56,101 34,855 13,468 7,236 2,236 10,317 7,01 43,635 19,898 2,870 3,212 </th <th>SALARIES (IN</th> <th>THOUSANDS):</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	SALARIES (IN	THOUSANDS):									
25 T0 29 68,245 10,326 104 0 0 0 0 0 0 78,67 30 T0 34 88,315 58,880 8,772 276 0 0 0 0 0 156,27 35 T0 39 79,518 74,288 37,490 4,958 0 0 0 0 0 225,07 40 T0 44 74,910 73,994 54,631 18,968 2,464 89 0 0 225,07 45 T0 49 68,555 82,349 75,604 48,172 20,762 3,735 394 0 0 299,55 50 T0 54 70,291 77,899 83,254 78,499 49,020 21,219 3,732 0 0 383,95 50 T0 54 70,291 77,899 83,254 78,499 49,020 21,219 3,737 3,212 3,745 101,77 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 UNDER 20 0 0 0	UNDER 20	0	0	0	0	0	0	0	0	0	0
30 T0 34 88,315 58,880 8,772 276 0 0 0 0 156,24 35 T0 39 79,518 74,288 37,490 4,958 0 0 0 0 0 196,23 40 T0 44 74,910 73,994 54,631 18,968 2,464 89 0 0 0 225,03 45 T0 49 68,555 82,349 75,604 48,172 20,762 3,735 394 0 0 383,93 55 T0 59 50,136 67,516 83,185 92,529 87,278 39,452 13,671 4,449 110 438,35 60 T0 64 26,160 45,645 58,404 63,938 56,101 34,856 13,468 7,236 2,364 308,17 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673	20 TO 24	8,749	39	0	0	0	0	0	0	0	8,788
35 T0 39 79,518 74,288 37,490 4,958 0 0 0 0 196,23 40 T0 44 74,910 73,994 54,631 18,968 2,464 89 0 0 225,03 45 T0 49 68,555 82,349 75,604 48,172 20,762 3,735 394 0 0 299,52 50 T0 54 70,291 77,899 83,254 78,499 49,020 21,219 3,732 0 0 383,93 55 T0 59 50,136 67,516 83,185 92,529 87,278 39,452 13,671 4,449 101 438,33 60 T0 64 26,160 45,645 58,404 63,938 56,101 34,856 13,468 7,236 2,364 308,17 65 T0 69 8,423 16,237 22,036 20,539 14,835 9,898 2,870 3,212 3,745 101,77 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 20 T0 24 56,082	25 TO 29	68,245	10,326	104	0	0	0	0	0	0	78,675
40 TO 44 74,910 73,994 54,631 19,968 2,464 89 0 0 0 225,03 45 TO 49 68,555 82,349 75,604 48,172 20,762 3,735 394 0 0 299,55 50 TO 54 70,291 77,899 83,254 78,499 49,020 21,219 3,732 0 0 383,93 55 TO 59 50,136 67,516 83,185 92,529 87,278 39,452 13,671 4,449 110 438,33 60 TO 64 26,160 45,645 58,404 63,938 56,101 34,856 13,468 7,236 2,364 308,17 65 TO 69 8,423 16,237 22,036 20,539 14,835 9,898 2,870 3,212 3,745 101,79 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 TOTAL* 546,357 510,755 429,080 334,436 234,608 112,921 35,739 15,581 8,257 2,227,73	30 TO 34	88,315	58,880	8,772	276	0	0	0	0	0	156,244
45 TO 49 68,555 82,349 75,604 48,172 20,762 3,735 394 0 0 299,55 50 TO 54 70,291 77,899 83,254 78,499 49,020 21,219 3,732 0 0 383,39 55 TO 59 50,136 67,516 83,185 92,529 87,278 39,452 13,671 4,449 110 438,33 60 TO 64 26,160 45,645 58,404 63,938 56,101 34,856 13,468 7,236 2,364 308,17 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 70 & UP 3,054 3,743 0 0 0 0 0 0 22,27,73 70 C14* 546,357 510,755 429,080 334,436 234,608 112,921 35,739 15,581 82,57 2,227,73 70 C14*	35 TO 39	79,518	74,288	37,490	4,958	0	0	0	0	0	196,255
50 T0 54 70,291 77,899 83,254 78,499 49,020 21,219 3,732 0 0 383,92 55 T0 59 50,136 67,516 83,185 92,529 87,278 39,452 13,671 4,449 110 438,33 60 T0 64 26,160 45,645 58,404 63,938 56,101 34,856 13,468 7,236 2,364 308,17 65 T0 69 8,423 16,237 22,036 20,539 14,835 9,898 2,870 3,212 3,745 101,79 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,99 TOTAL * 546,357 510,755 429,080 334,436 234,608 112,921 35,739 15,581 8,257 2,227,73 VNDER 20 0 0 0 0 0 0 0 0 0 2 5,93 25 T0 29 60,128 58,009 52,029 0 0 0 0 0 6 6,76 35	40 TO 44	74,910	73,994	54,631	18,968	2,464	89	0	0	0	225,055
55 T0 59 50,136 67,516 83,185 92,529 87,278 39,452 13,671 4,449 110 438,33 60 T0 64 26,160 45,645 58,404 63,938 56,101 34,856 13,468 7,236 2,364 308,12 65 T0 69 8,423 16,237 22,036 20,539 14,835 9,898 2,870 3,212 3,745 101,79 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,99 TOTAL * 546,357 510,755 429,080 334,436 234,608 112,921 35,739 15,581 8,257 2,227,73 AVERAGE SALARIES: **	45 TO 49	68,555	82,349	75,604	48,172	20,762	3,735	394	0	0	299,570
60 TO 6426,16045,64558,40463,93856,10134,85613,4687,2362,36430,81765 TO 698,42316,23722,03620,53914,8359,8982,8703,2123,745101,7970 & UP3,0543,5845,5996,5574,1493,6731,6056832,03830,94TOTAL *546,357510,755429,080334,436234,608112,92135,73915,5818,2572,227,73AVERAGE SALARIES: **UNDER 2000000000020 TO 2456,08238,74300000055,9325 TO 2960,12858,00952,0290000060,7030 TO 3459,75362,50658,48369,086000066,3730 TO 3459,75362,50658,48369,086000066,3740 TO 4463,42967,39068,11868,23072,46188,79300066,3750 TO 5467,13665,29767,74174,12580,09868,44771,7750066,3750 TO 5467,13665,29767,74174,12580,09868,44771,7750069,7755 TO 5968,30567,51668,80577,30084,90174,15873,50078,05510	50 TO 54	70,291	77,899	83,254	78,499	49,020	21,219	3,732	0	0	383,913
65 TO 69 8,423 16,237 22,036 20,539 14,835 9,898 2,870 3,212 3,745 101,74 70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 TOTAL * 546,357 510,755 429,080 334,436 234,608 112,921 35,739 15,581 8,257 2,227,73 AVERAGE SALARIES: **	55 TO 59	50,136	67,516	83,185	92,529	87,278	39,452	13,671	4,449	110	438,327
70 & UP 3,054 3,584 5,599 6,557 4,149 3,673 1,605 683 2,038 30,94 TOTAL * 546,357 510,755 429,080 334,436 234,608 112,921 35,739 15,581 8,257 2,227,73 AVERAGE SALARIES: ** UNDER 20 0	60 TO 64	26,160	45,645	58,404	63,938	56,101	34,856	13,468	7,236	2,364	308,172
TOTAL*546,357510,755429,080334,436234,608112,92135,73915,5818,2572,227,73AVERAGE SALARIES: **UNDER 20000000000020 TO 2456,08238,743000000055,9725 TO 2960,12858,00952,02900000059,8230 TO 3459,75362,50658,48369,086000060,7035 TO 3961,59464,48662,69359,738000066,3340 TO 4463,42967,39068,11868,23072,46188,79300066,3345 TO 4965,91868,28269,10873,88373,36358,35898,5150068,9750 TO 5467,13665,29767,74174,12580,09868,44771,7750069,7755 TO 5968,30567,51668,80577,30084,90174,15873,50078,055109,93973,7460 TO 6474,74369,47469,28176,94181,78075,12173,59577,81176,27374,4465 TO 6974,54270,29070,40274,41675,68974,42065,21784,51689,16573,44	65 TO 69	8,423	16,237	22,036	20,539	14,835	9,898	2,870	3,212	3,745	101,794
AVERAGE SALARIES: ** UNDER 20 0 0 0 0 0 0 0 0 0 20 TO 24 56,082 38,743 0 0 0 0 0 0 0 0 55,97 25 TO 29 60,128 58,009 52,029 0 0 0 0 0 59,82 30 TO 34 59,753 62,506 58,483 69,086 0 0 0 0 60,76 35 TO 39 61,594 64,486 62,693 59,738 0 0 0 0 66,37 40 TO 44 63,429 67,390 68,118 68,230 72,461 88,793 0 0 0 66,33 45 TO 49 65,918 68,282 69,108 73,883 73,363 58,358 98,515 0 0 69,77 55 TO 59 68,305 67,516 68,805 77,300 84,901 74,158 73,500 78,055 109,939 73,74 60 TO 64 74,743 69,474 69,281 7	70 & UP	3,054	3,584	5,599	6,557	4,149	3,673	1,605	683	2,038	30,942
UNDER 20 0<	TOTAL *	546,357	510,755	429,080	334,436	234,608	112,921	35,739	15,581	8,257	2,227,735
20 T0 24 56,082 38,743 0 0 0 0 0 0 0 55,92 25 T0 29 60,128 58,009 52,029 0 0 0 0 0 0 59,82 30 T0 34 59,753 62,506 58,483 69,086 0 0 0 0 60,74 35 T0 39 61,594 64,486 62,693 59,738 0 0 0 0 66,74 40 T0 44 63,429 67,390 68,118 68,230 72,461 88,793 0 0 66,363 45 T0 49 65,918 68,282 69,108 73,883 73,363 58,358 98,515 0 0 68,99,755 50 T0 54 67,136 65,297 67,741 74,125 80,098 68,447 71,775 0 0 69,77 55 T0 59 68,305 67,516 68,805 77,300 84,901 74,158 73,500 78,055 109,939 73,74 60 T0 64 74,743 69,474 69,281 76,941 81			0	0	0	0	0	0	0	0	0
25 T0 29 60,128 58,009 52,029 0 0 0 0 0 0 59,83 30 T0 34 59,753 62,506 58,483 69,086 0 0 0 0 0 60,74 35 T0 39 61,594 64,486 62,693 59,738 0 0 0 0 62,83 40 T0 44 63,429 67,390 68,118 68,230 72,461 88,793 0 0 0 66,33 45 T0 49 65,918 68,282 69,108 73,883 73,363 58,358 98,515 0 0 66,97 50 T0 54 67,136 65,297 67,741 74,125 80,098 68,447 71,775 0 0 69,77 55 T0 59 68,305 67,516 68,805 77,300 84,901 74,158 73,500 78,055 109,939 73,74 60 T0 64 74,743 69,474 69,281 76,941 81,780 75,121 73,595 77,811 76,273 74,44 65 T0 69 74,542 70,2											
30 T0 34 59,753 62,506 58,483 69,086 0 0 0 0 0 60,70 35 T0 39 61,594 64,486 62,693 59,738 0 0 0 0 0 62,83 40 T0 44 63,429 67,390 68,118 68,230 72,461 88,793 0 0 0 66,33 45 T0 49 65,918 68,282 69,108 73,883 73,363 58,358 98,515 0 0 68,97 50 T0 54 67,136 65,297 67,741 74,125 80,098 68,447 71,775 0 0 69,77 55 T0 59 68,305 67,516 68,805 77,300 84,901 74,158 73,500 78,055 109,939 73,74 60 T0 64 74,743 69,474 69,281 76,941 81,780 75,121 73,595 77,811 76,273 74,44 65 T0 69 74,542 70,290 70,402 74,416 <											
35 T0 39 61,594 64,486 62,693 59,738 0 0 0 0 0 62,82 40 T0 44 63,429 67,390 68,118 68,230 72,461 88,793 0 0 0 66,33 45 T0 49 65,918 68,282 69,108 73,883 73,363 58,358 98,515 0 0 68,93 50 T0 54 67,136 65,297 67,741 74,125 80,098 68,447 71,775 0 0 69,73 55 T0 59 68,305 67,516 68,805 77,300 84,901 74,158 73,500 78,055 109,939 73,74 60 T0 64 74,743 69,474 69,281 76,941 81,780 75,121 73,595 77,811 76,273 74,44 65 T0 69 74,542 70,290 70,402 74,416 75,689 74,420 65,217 84,516 89,165 73,44											
40 TO 4463,42967,39068,11868,23072,46188,79300066,33545 TO 4965,91868,28269,10873,88373,36358,35898,5150068,93550 TO 5467,13665,29767,74174,12580,09868,44771,7750069,73555 TO 5968,30567,51668,80577,30084,90174,15873,50078,055109,93973,7460 TO 6474,74369,47469,28176,94181,78075,12173,59577,81176,27374,4465 TO 6974,54270,29070,40274,41675,68974,42065,21784,51689,16573,44			,					0	0		
45 T0 4965,91868,28269,10873,88373,36358,35898,5150068,9750 T0 5467,13665,29767,74174,12580,09868,44771,7750069,7755 T0 5968,30567,51668,80577,30084,90174,15873,50078,055109,93973,7460 T0 6474,74369,47469,28176,94181,78075,12173,59577,81176,27374,4465 T0 6974,54270,29070,40274,41675,68974,42065,21784,51689,16573,44								0	0		
50 TO 5467,13665,29767,74174,12580,09868,44771,7750069,7755 TO 5968,30567,51668,80577,30084,90174,15873,50078,055109,93973,7460 TO 6474,74369,47469,28176,94181,78075,12173,59577,81176,27374,4465 TO 6974,54270,29070,40274,41675,68974,42065,21784,51689,16573,44											
55 T0 59 68,305 67,516 68,805 77,300 84,901 74,158 73,500 78,055 109,939 73,74 60 T0 64 74,743 69,474 69,281 76,941 81,780 75,121 73,595 77,811 76,273 74,44 65 T0 69 74,542 70,290 70,402 74,416 75,689 74,420 65,217 84,516 89,165 73,44											
60 TO 64 74,743 69,474 69,281 76,941 81,780 75,121 73,595 77,811 76,273 74,44 65 TO 69 74,542 70,290 70,402 74,416 75,689 74,420 65,217 84,516 89,165 73,44											
65 TO 69 74,542 70,290 70,402 74,416 75,689 74,420 65,217 84,516 89,165 73,4 4											
70 & UP 92,547 70,265 67,459 66,237 64,822 66,783 72,940 68,347 72,774 69,5											69,532
											68,923

Note: Age is last birthday. Service is completed years.

Total may not add up due to rounding.
Average based on unrounded salary.

Detailed Active Membership and Salaries by Group as of June 30, 2016 (cont'd)

			Tri	borough Brid	dge and Tun	nel Authority	,			
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	8	0	0	0	0	0	0	0	0	8
25 TO 29	27	15	0	0	0	0	0	0	0	42
30 TO 34	26	36	27	0	0	0	0	0	0	89
35 TO 39	20	33	75	25	0	0	0	0	0	153
40 TO 44	24	37	119	63	3	0	0	0	0	246
45 TO 49	18	31	87	61	33	23	1	0	0	254
50 TO 54	16	24	71	42	13	45	6	0	0	217
55 TO 59	13	7	47	50	21	19	25	3	0	185
60 TO 64	4	6	18	13	10	11	5	5	2	74
65 TO 69	1	1	5	11	4	5	2	0	1	30
70 & UP	1	0	2	5	1	2	1	1	0	13
TOTAL	158	190	451	270	85	105	40	9	3	1,311
SALARIES (IN	THOUSANDS):									
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	473	0	0	0	0	0	0	0	0	473
25 TO 29	1,996	1,253	0	0	0	0	0	0	0	3,248
30 TO 34	2,207	3,005	2,500	0	0	0	0	0	0	7,712
35 TO 39	1,513	2,726	6,971	2,491	0	0	0	0	0	13,701
40 TO 44	1,833	3,443	10,947	6,153	297	0	0	0	0	22,673
45 TO 49	1,461	2,803	8,088	5,867	3,512	2,499	84	0	0	24,316
50 TO 54	1,541	2,556	6,750	4,314	1,562	4,750	869	0	0	22,342
55 TO 59	1,374	652	4,767	5,196	2,294	1,918	2,842	258	0	19,301
60 TO 64	479	580	1,823	1,370	1,248	1,392	591	769	207	8,458
65 TO 69	46	115	441	1,272	409	471	155	0	64	2,973
70 & UP	164	0	218	467	103	258	73	84	0	1,375
TOTAL *	13,086	17,132	42,506	27,131	9,434	11,287	4,615	1,112	271	126,573
AVERAGE SALA					.,					
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	59,180	0	0	0	0	0	0	0	0	59,180
25 TO 29	73,909	83,524	0	0	0	0	0	0	0	77,343
30 TO 34	84,870	83,483	92,608	0	0	0	0	0	0	86,656
35 TO 39	75,667	82,593	92,945	99,639	0	0	0	0	0	89,548
40 TO 44	76,357	93,057	91,996	97,669	99,041	0	0	0	0	92,169
45 TO 49	81,161	90,432	92,966	96,187	106,437	108,647	84,483	0	0	95,731
50 TO 54	96,336	106,482	95,063	102,721	120,183	105,556	144,772	0	0	102,957
55 TO 59	105,670	93,073	101,436	103,920	109,259	100,932	113,664	86,131	0	104,329
60 TO 64	119,752	96,603	101,304	105,393	124,764	126,517	118,228	153,786	103,386	114,302
65 TO 69	45,820	115,157	88,179	115,675	102,329	94,164	77,661	0	63,739	99,117
70 & UP	163,601	0	108,892	93,330	110,923	129,048	73,427	84,483	0	105,766
TOTAL	82,822	90,169	94,248	100,485	110,991	107,497	115,365	123,534	90,170	96,547

Note: Age is last birthday. Service is completed years.

*

Total may not add up due to rounding. Average based on unrounded salary. **

Detailed Active Membership and Salaries by Group as of June 30, 2016 (cont'd)

				CUNY	Senior Colleg	es				
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	37	0	0	0	0	0	0	0	0	37
25 TO 29	217	33	0	0	0	0	0	0	0	250
30 TO 34	208	172	26	0	0	0	0	0	0	406
35 TO 39	139	153	117	12	0	0	0	0	0	421
40 TO 44	113	150	128	55	10	1	0	0	0	457
45 TO 49	113	138	149	116	53	4	0	0	0	573
50 TO 54	109	118	159	107	73	56	10	0	0	632
55 TO 59	87	135	133	124	72	64	31	6	0	652
60 TO 64	57	104	120	107	62	43	34	7	0	534
65 TO 69	29	46	67	51	22	22	10	5	10	262
70 & UP	7	19	29	27	8	14	6	5	11	126
TOTAL	1,116	1,068	928	599	300	204	91	23	21	4,350
SALARIES (IN	THOUSANDS):									
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	1,252	0	0	0	0	0	0	0	0	1,252
25 TO 29	9,079	1,507	0	0	0	0	0	0	0	10,586
30 TO 34	9,732	9,342	1,455	0	0	0	0	0	0	20,528
35 TO 39	6,464	8,434	7,078	773	0	0	0	0	0	22,749
40 TO 44	6,240	8,554	7,628	3,340	752	64	0	0	0	26,578
45 TO 49	5,432	7,767	9,024	7,485	3,592	284	0	0	0	33,584
50 TO 54	5,162	6,198	8,915	6,660	5,485	4,090	547	0	0	37,056
55 TO 59	4,384	6,788	7,220	7,778	4,655	4,041	2,050	419	0	37,335
60 TO 64	2,885	4,839	6,245	5,781	3,384	2,571	2,335	645	0	28,686
65 TO 69	1,576	2,056	3,344	2,638	1,184	1,371	619	370	787	13,944
70 & UP	496	758	1,288	1,261	423	767	331	218	589	6,131
TOTAL *	52,703	56,242	52,197	35,717	19,474	13,186	5,883	1,653	1,375	238,430
AVERAGE SALA		â								
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	33,840	0	0	0	0	0	0	0	0	33,840
25 TO 29	41,840	45,662	0	0	0	0	0	0	0	42,345
30 TO 34	46,786	54,314	55,956	0	0	0	0	0	0	50,563
35 TO 39	46,506	55,123	60,495	64,417	0	0	0	0	0	54,036
40 TO 44	55,223	57,029	59,596	60,722	75,207	63,666	0	0	0	58,158
45 TO 49	48,073	56,279	60,561	64,529	67,775	70,945	0	0	0	58,610
50 TO 54	47,358	52,524	56,068	62,242	75,132	73,027	54,739	0	0	58,633
55 TO 59	50,394	50,283	54,289	62,726	64,650	63,139	66,114	69,882	0	57,263
60 TO 64	50,617	46,533	52,044	54,030	54,576	59,780	68,682	92,201	0	53,719
65 TO 69	54,333	44,687	49,906	51,733	53,815	62,307	61,916	74,037	78,668	53,221
70 & UP	70,865	39,880	44,413	46,719	52,863	54,792	55,208	43,666	53,512	48,662
TOTAL	47,225	52,661	56,246	59,628	64,914	64,639	64,643	71,879	65,491	54,812

Note: Age is last birthday. Service is completed years.

Total may not add up due to rounding.
Average based on unrounded salary.

Detailed Active Membership	and Salaries by Group	as of June 30, 2016 (cont'd)						
All Other Non-NVC Entities								

_				All Othe	r Non-NYC Ei	ntities				
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	0	0	0	0	0	0	0	0	0	0
25 TO 29	0	0	0	0	0	0	0	0	0	0
30 TO 34	2	4	2	0	0	0	0	0	0	8
35 TO 39	2	3	1	0	0	0	0	0	0	6
40 TO 44	6	8	3	3	0	0	0	0	0	20
45 TO 49	6	8	8	5	3	2	0	0	0	32
50 TO 54	6	6	5	7	5	1	0	0	0	30
55 TO 59	3	5	10	4	3	6	2	1	0	34
60 TO 64	2	1	7	2	1	6	1	1	0	21
65 TO 69	0	1	2	5	0	0	0	0	0	8
70 & UP	0	0	1	1	0	1	0	0	0	3
TOTAL	27	36	39	27	12	16	3	2	0	162
CALADIEC (IN 7										
SALARIES (IN 7 UNDER 20	1003AND3J: 0	0	0	0	0	0	0	0	0	0
20 TO 24	0	0	0	0	0	0	0	0	0	0
20 TO 24 25 TO 29	0	0	0	0	0	0	0	0	0	0
23 TO 29 30 TO 34	139	368	0 196	0	0	0	0	0	0	703
30 TO 34 35 TO 39	159	300	51	0	0	0	0	0	0	703 545
40 TO 44	399	557 771	245	255	0	0	0	0	0	545 1,670
40 TO 44 45 TO 49	557	900	1,020	233 509	272	287	0	0	0	3,546
43 TO 49 50 TO 54	453	519	414	960	576	141	0	0	0	3,063
55 TO 59	171	386	1,198	365	365	636	198	136	0	3,455
60 TO 64	153	70	683	224	135	782	170	135	0	2,322
65 TO 69	0	56	171	476	0	0	0	0	0	703
70 & UP	0	0	76	118	0	112	0	0	0	306
TOTAL *	2,029	3,409	4,056	2,906	1,348	1,958	339	270	0	16,314
		0,105	1,000	2,700	1,510	1,700		270		10,011
AVERAGE SALA		0	0	0	0	0	0	0	0	•
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	0	0	0	0	0	0	0	0	0	0
25 TO 29	0	0 92,026	07.021	0	0	0	0	0	0	0 97 930
30 TO 34	69,307 78,200	,	97,921 51,490	0 0	0 0	0	0	0 0	0 0	87,820
35 TO 39	78,200	112,409	51,480							90,851
40 TO 44	66,582	96,371	81,703	84,858	0	0	0	0	0	83,507
45 TO 49	92,859	112,552	127,535	101,787	90,832	143,360	0	0	0	110,812
50 TO 54	75,519	86,577	82,881	137,075	115,172	140,754	0	0	0	102,104
55 TO 59	57,141	77,254	119,825	91,244	121,554	106,060	98,820	135,743	0	101,627
60 TO 64	76,380	70,304	97,545	111,850	134,524	130,320	141,385	134,524	0	110,568
65 TO 69	0	55,970	85,651	95,186	0	0	0	0	0	87,900
70 & UP	0	0	76,336	118,029	0	111,781	0	0	0	102,049
TOTAL	75,146	94,687	103,995	107,617	112,295	122,346	113,009	135,134	0	100,701

Note:Age is last birthday. Service is completed years.*Total may not add up due to rounding.**Average based on unrounded salary.

Detailed Active Membership	and Salaries b	oy Group as o	of June 30, 2016	(cont'd)

_					·k City: Sanit					
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	0	0	0	0	0	0	0	0	0	(
20 TO 24	1	0	0	0	0	0	0	0	0	1
25 TO 29	289	74	11	0	0	0	0	0	0	374
30 TO 34	508	298	375	0	0	0	0	0	0	1,181
35 TO 39	376	292	560	279	1	0	0	0	0	1,508
40 TO 44	220	171	458	484	60	0	0	0	0	1,393
45 TO 49	134	113	293	463	174	31	0	0	0	1,208
50 TO 54	62	54	137	353	126	206	19	2	0	959
55 TO 59	18	12	67	150	64	135	22	6	0	474
60 TO 64	3	4	18	56	20	36	39	10	2	188
65 TO 69	0	1	5	9	9	8	6	1	3	42
70 & UP	0	0	1	2	0	2	1	1	3	10
TOTAL	1,611	1,019	1,925	1,796	454	418	87	20	8	7,338
SALARIES (IN	THOUSANDS):									
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	46	0	0	0	0	0	0	0	0	46
25 TO 29	15,954	6,095	1,073	0	0	0	0	0	0	23,122
30 TO 34	28,452	26,114	36,862	0	0	0	0	0	0	91,428
35 TO 39	21,360	25,816	54,717	30,023	100	0	0	0	0	132,016
40 TO 44	12,114	15,214	44,747	50,743	6,670	0	0	0	0	129,488
45 TO 49	7,506	10,036	28,778	47,546	19,350	3,532	0	0	0	116,749
50 TO 54	3,481	4,846	13,310	36,547	13,446	23,811	2,195	263	0	97,899
55 TO 59	982	1,062	6,433	15,492	6,623	14,430	2,448	818	0	48,288
60 TO 64	204	339	1,719	5,583	2,094	3,776	4,646	1,180	227	19,769
65 TO 69	0	85	456	858	902	829	595	95	268	4,087
70 & UP	0	0	91	187	0	210	88	105	274	955
TOTAL *	90,098	89,607	188,187	186,979	49,187	46,587	9,972	2,461	769	663,846
AVERAGE SALA	4 <i>RIES: **</i>									
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	45,867	0	0	0	0	0	0	0	0	45,867
25 TO 29	55,206	82,364	97,508	0	0	0	0	0	0	61,824
30 TO 34	56,007	87,630	98,300	0	0	0	0	0	0	77,416
35 TO 39	56,808	88,411	97,709	107,608	100,465	0	0	0	0	87,544
40 TO 44	55,066	88,968	97,701	104,841	111,162	0	0	0	0	92,956
45 TO 49	56,013	88,815	98,219	102,692	111,209	113,931	0	0	0	96,646
50 TO 54	56,150	89,737	97,151	103,531	106,715	115,586	115,549	131,651	0	102,084
55 TO 59	54,529	88,514	96,017	103,281	103,489	106,889	111,260	136,281	0	101,873
60 TO 64	67,843	84,834	95,488	99,702	104,719	104,893	119,129	118,000	113,518	105,152
65 TO 69	0	84,884	91,251	95,353	100,259	103,612	99,116	94,652	89,200	97,321
70 & UP	0	0	91,027	93,557	0	104,775	87,787	104,927	91,432	95,470
TOTAL	55,927	87,936	97,759	104,109	108,340	111,453	114,617	123,028	96,117	90,467

Note:Age is last birthday. Service is completed years.*Total may not add up due to rounding.**Average based on unrounded salary.

Detailed Active Membership	and Salaries	by Group as	s of June 30, 201	6 (cont'd)

				New Yor	·k City: Corre	ction	±		-	. ,
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	171	0	0	0	0	0	0	0	0	171
25 TO 29	783	159	0	0	0	0	0	0	0	942
30 TO 34	758	652	247	0	0	0	0	0	0	1,657
35 TO 39	393	419	544	108	0	0	0	0	0	1,464
40 TO 44	218	278	443	451	47	0	0	0	0	1,437
45 TO 49	120	185	340	529	177	129	0	0	0	1,480
50 TO 54	51	96	170	266	121	260	40	0	0	1,004
55 TO 59	21	23	75	119	54	132	44	11	0	479
60 TO 64	0	10	23	31	15	41	20	12	0	152
65 TO 69	0	1		6	0	7	1	3	2	27
70 & UP	0	1	1	0	0	0	0	0	0	2
TOTAL	2,515	1,824	1,850	1,510	414	569	105	26	2	8,815
			_,							
SALARIES (IN	THOUSANDS):									
UNDER 20	0	0	0	0	0	0	0	0	0	0
20 TO 24	8,097	0	0	0	0	0	0	0	0	8,097
25 TO 29	40,176	11,617	0	0	0	0	0	0	0	51,793
30 TO 34	41,383	55,942	23,185	0	0	0	0	0	0	120,510
35 TO 39	21,350	36,822	51,893	11,047	0	0	0	0	0	121,112
40 TO 44	11,917	24,894	43,571	48,381	5,219	0	0	0	0	133,982
45 TO 49	6,700	16,808	33,638	56,320	19,672	15,366	0	0	0	148,504
50 TO 54	2,889	8,896	17,168	28,189	13,176	29,584	4,874	0	0	104,777
55 TO 59	1,215	2,163	7,534	12,486	6,066	14,674	5,287	1,206	0	50,632
60 TO 64	0	975	2,313	3,299	1,675	4,564	2,364	1,353	0	16,542
65 TO 69	0	100	711	625	0	851	111	332	222	2,951
70 & UP	0	102	130	0	0	0	0	0	0	232
TOTAL *	133,727	158,319	180,143	160,347	45,809	65,039	12,636	2,891	222	759,134
AVERAGE SALA	1 R I F S+ **									
UNDER 20	-1 <i>11123.</i> 0	0	0	0	0	0	0	0	0	0
20 TO 24	47,354	0	0	0	0	0	0	0	0	47,354
25 TO 29	51,310	73,066	0	0	0	0	0	0	0	47,334 54,982
30 TO 34	54,595	85,801	93,868	0	0	0	0	0	0	72,728
35 TO 39	54,325	87,881	95,391	102,288	0	0	0	0	0	82,727
40 TO 44	54,525 54,665	89,547	93,391 98,354	102,288	111,052	0	0	0	0	93,238
40 TO 44 45 TO 49	54,005 55,837	90,853	98,936 98,936	107,275	111,032	0 119,117	0	0	0	93,238 100,341
43 TO 49 50 TO 54	56,648	90,833 92,671	98,936 100,986	105,975	108,894	119,117	121,860	0	0	100,341
50 TO 54 55 TO 59	50,048 57,869	92,071 94,030	100,988	103,975	108,894	113,764	121,860	0 109,664	0	104,339
60 TO 64	57,809 0	94,030 97,452	100,449	104,928	112,334	111,167	120,188	112,718	0	103,703
60 TO 64 65 TO 69	0	97,452 99,882	100,587 101,594	106,417	111,670 0	111,315 121,507	118,189	112,718	0 111,135	108,828
70 & UP	0	102,336	130,006	104,108	0	121,507	110,730	110,579	111,155 0	116,171
TOTAL	53,172	86,798	97,375	106,190	110,650	114,303	120,346	111,179	111,135	86,118
101111	55,174	00,790	ل ۱ در ۱ د	100,170	110,030	117,303	120,310	111,177	111,100	00,110

Note:Age is last birthday. Service is completed years.*Total may not add up due to rounding.**Average based on unrounded salary.

Detailed Active Membership and Salaries by Group as of June 30, 2016 (cont'd)

			1	All Oth	er New York	Citv				,
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	10	0	0	0	0	0	0	0	0	10
20 TO 24	1,106	10	0	0	0	0	0	0	0	1,116
25 TO 29	4,562	836	11	0	0	0	0	0	0	5,409
30 TO 34	4,502	3,336	512	7	0	0	0	0	0	8,357
35 TO 39	3,280	3,300	2,038	393	4	0	0	0	0	9,015
40 TO 44	2,319	2,763	2,344	1,316	172	5	0	0	0	8,919
45 TO 49	2,094	2,311	2,391	2,202	1,332	519	11	0	0	10,860
50 TO 54	1,698	2,027	2,150	2,288	2,404	2,132	608	34	0	13,341
55 TO 59	1,211	1,617	1,827	1,909	2,170	2,130	1,528	464	7	12,863
60 TO 64	637	934	1,153	1,236	1,346	1,312	994	500	128	8,240
65 TO 69	219	419	522	562	445	416	262	170	178	3,193
70 & UP	78	123	197	217	178	158	125	59	144	1,279
TOTAL	21,716	17,676	13,145	10,130	8,051	6,672	3,528	1,227	457	82,602
SALARIES (IN	THOUSANDS)	:								
UNDER 20	274	0	0	0	0	0	0	0	0	274
20 TO 24	45,590	500	0	0	0	0	0	0	0	46,090
25 TO 29	220,682	44,624	725	0	0	0	0	0	0	266,031
30 TO 34	253,292	196,314	32,157	524	0	0	0	0	0	482,287
35 TO 39	198,658	212,427	134,123	27,083	291	0	0	0	0	572,582
40 TO 44	144,189	182,882	161,474	92,974	13,187	442	0	0	0	595,149
45 TO 49	127,390	150,339	163,398	152,527	100,044	41,183	970	0	0	735,852
50 TO 54	104,029	132,928	147,765	159,620	182,382	166,436	47,262	2,640	0	943,063
55 TO 59	73,995	102,601	124,468	134,055	166,567	163,713	120,236	34,522	566	920,723
60 TO 64	39,564	61,536	77,309	87,815	100,860	101,250	73,878	37,511	9,154	588,877
65 TO 69	13,158	28,282	34,543	40,646	33,045	31,129	18,798	13,350	14,494	227,445
70 & UP	4,076	7,801	12,331	14,028	12,666	11,138	8,431	4,635	12,287	87,393
TOTAL *	1,224,897	1,120,235	888,294	709,273	609,041	515,292	269,575	92,658	36,500	5,465,765
AVERAGE SAL										
UNDER 20	27,387	0	0	0	0	0	0	0	0	27,387
20 TO 24	41,221	50,022	0	0	0	0	0	0	0	41,300
25 TO 29	48,374	53,378	65,937	0	0	0	0	0	0	49,183
30 TO 34	56,262	58,847	62,806	74,897	0	0	0	0	0	57,711
35 TO 39	60,566	64,372	65,811	68,914	72,670	0	0	0	0	63,514
40 TO 44	62,177	66,190	68,888	70,649	76,669	88,363	0	0	0	66,728
45 TO 49	60,836	65,054	68,339	69,268	75,108	79,351	88,197	0	0	67,758
50 TO 54	61,266	65,579	68,728	69,764	75,866	78,066	77,734	77,653	0	70,689
55 TO 59	61,102	63,451	68,127	70,223	76,759	76,861	78,688	74,401	80,798	71,579
60 TO 64	62,110	65,885	67,051	71,048	74,933	77,173	74,324	75,022	71,513	71,466
65 TO 69	60,081	67,499	66,175	72,324	74,258	74,830	71,747	78,529	81,428	71,232
70 & UP	52,260	63,425	62,594	64,645	71,156	70,495	67,447	78,558	85,324	68,329
TOTAL	56,405	63,376	67,577	70,017	75,648	77,232	76,410	75,516	79,869	66,170

Note: Age is last birthday. Service is completed years.

* Total may not add up due to rounding.

** Average based on unrounded salary.

Detailed Active Membership and Salaries by Group as of June 30, 2016 (cont'd)

					Total					
AGE \ SVC	UNDER 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & UP	ALL YEARS
NUMBER:										
UNDER 20	16	0	0	0	0	0	0	0	0	16
20 TO 24	1,783	26	0	0	0	0	0	0	0	1,809
25 TO 29	8,332	1,681	42	0	0	0	0	0		10,055
30 TO 34	9,544	6,347	1,562	87	0	0	0	0	0	17,540
35 TO 39	7,428	6,517	4,700	1,308	14	0	0	0	0	19,967
40 TO 44	5,625	5,714	5,399	3,908	676	31	0	0	0	21,353
45 TO 49	4,843	5,212	5,590	5,957	3,403	1,503	48	0	0	26,556
50 TO 54	4,076	4,621	5,130	6,226	5,032	5,179	1,543	100	0	31,907
55 TO 59	2,764	3,619	4,250	5,312	4,780	4,676	2,795	805	9	29,010
60 TO 64	1,340	2,145	2,714	3,416	2,947	2,707	1,813	899	186	18,167
65 TO 69	428	876	1,173	1,443	934	832	447	308	275	6,716
70 & UP	135	233	362	495	342	297	196	97	228	2,385
TOTAL	46,314	36,991	30,922	28,152	18,128	15,225	6,842	2,209	698	185,481
SALARIES (IN	THOUSANDS):								
UNDER 20	541	0	0	0	0	0	0	0	0	541
20 TO 24	78,936	1,644	0	0	0	0	0	0	0	80,580
25 TO 29	431,524	99,457	3,138	0	0	0	0	0	0	534,118
30 TO 34	554,281	412,440	120,395	7,207	0	0	0	0	0	1,094,323
35 TO 39	454,338	446,965	349,455	106,250	1,089	0	0	0	0	1,358,097
40 TO 44	354,179	400,138	407,069	317,817	55,501	2,688	0	0	0	1,537,392
45 TO 49	306,288	362,770	414,192	471,630	276,772	128,165	4,474	0	0	1,964,291
50 TO 54	262,264	317,400	371,415	483,477	407,008	433,904	133,399	8,896	0	2,417,763
55 TO 59	179,183	243,261	303,882	408,721	388,447	379,904	230,677	63,744	784	2,198,603
60 TO 64	89,482	146,151	189,920	259,776	232,308	216,143	144,345	73,168	13,761	1,365,054
65 TO 69	28,039	59,976	81,333	109,645	71,506	64,860	34,196	25,420	23,339	498,312
70 & UP	8,548	14,828	23,703	34,142	24,745	21,583	13,802	7,507	18,608	167,466
TOTAL *	2,747,600	2,505,029	2,264,502	2,198,665	1,457,376	1,247,247	560,894	178,735		13,216,539
AVERAGE SAL UNDER 20	ARIES: ** 33,781	0	0	0	0	0	0	0	0	33,781
20 TO 24	44,271	63,247	0	0	0	0	0	0	0	44,544
20 TO 24 25 TO 29	51,791	59,165	74,711	0	0	0	0	0	0	53,120
23 TO 29 30 TO 34	58,076	64,982	77,078	82,839	0	0	0	0	0	62,390
30 TO 34 35 TO 39	61,166	68,584	74,352	81,231	0 77,792	0	0	0	0	68,017
40 TO 44	62,965	70,028	74,332	81,231	82,102	86,709	0	0	0	71,999
40 TO 44 45 TO 49	63,244	69,603	75,397	79,172	82,102	85,273	93,206	0	0	73,968
45 TO 49 50 TO 54	63,244 64,343	68,686	74,095	79,172	81,332	83,273 83,781			0	73,968
50 TO 54 55 TO 59	64,343 64,827	68,686	72,400	76,943	80,884 81,265	83,781 81,245	86,454 82,532	88,962 79,185	0 87,110	75,778
60 TO 64	66,777 65 511	68,135	69,978	76,047	78,829 76,558	79,846 77.057	79,617	81,388	73,985	75,139
65 TO 69	65,511	68,465	69,337 65.479	75,984 68 974		77,957 72,670	76,502	82,532	84,868	74,198 70,216
70 & UP	63,316	63,640	65,478	68,974 78 100	72,354	72,670	70,421	77,389	81,613	70,216
TOTAL	59,325	67,720	73,233	78,100	80,394	81,921	81,978	80,912	80,934	71,255

Note: Age is last birthday. Service is completed years.

Total may not add up due to rounding. Average based on unrounded salary. *

**

		тот/	AL ACTIVE MEME	ERS AS OF		ansit Authori 016	5	TAL ACTIVE MEM	IBERS AS OF	IUNE 30. 201	5
						010					
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC
1	М	42	4,167,599	99,229	72.7	44.1	45	4,357,970	96,844	71.4	44.0
1	F	6	462,948	77,158	72.2	45.7	9	683,513	75,946	68.8	44.6
		48	4,630,547	96,470	72.7	44.2	54	5,041,483	93,361	70.9	44.1
2	м	27	2,569,991	95,185	66.4	40.0	34	3,121,032	91,795	65.4	38.7
2	F	6	422,789	70,465	65.5	37.8	9	639,912	71,101	64.1	37.7
		33	2,992,780	90,690	66.2	39.7	43	3,760,944	87,464	65.1	38.5
4	М	25,536	2,166,429,894	84,838	52.4	17.6	26,939	2,235,311,432	82,977	51.8	17.0
4	F	5,011	381,105,978	76,054	50.3	17.2	5,267	392,873,256	74,591	49.7	16.6
		30,547	2,547,535,872	83,397	52.0	17.6	32,206	2,628,184,688	81,605	51.5	17.0
6	М	6,707	455,323,437	67,888	41.1	2.0	5,193	331,665,906	63,868	40.2	1.4
6	F	1,332	79,780,637	59,895	38.8	1.9	985	55,721,328	56,570	38.0	1.5
		8,039	535,104,074	66,564	40.7	2.0	6,178	387,387,234	62,704	39.8	1.4
ALL		38,667	3,090,263,273	79,920	49.7	14.4	38,481	3,024,374,349	78,594	49.7	14.5
	JU	JN <u>E 30, 2016</u>	MEMBERS ALSO	PRESENT	AS OF JUNE	30, 2015	JUNE 30, 2	015 MEMBERS A	LSO PRESEN	Г AS OF JUNE	30, 2016
1		JNE 30, 2016 41								<u>г AS OF JUNE</u> 71.9	
1	JU M F	41	4,076,434	99,425	72.9	45.0	41	4,012,304	97,861	71.9	44.0
	М										44.0 44.7
	М	41 6	4,076,434 462,948	99,425 77,158	72.9 72.2	45.0 45.7	41 6	4,012,304 457,707	97,861 76,285	71.9 71.2	44.0 44.7 44.1
1	M F	41 6 47	4,076,434 462,948 4,539,382	99,425 77,158 96,583	72.9 72.2 72.8	45.0 45.7 45.1	41 6 47	4,012,304 457,707 4,470,011	97,861 76,285 95,107	71.9 71.2 71.8	44.0 44.7 44.1 39.5
1 2	M F M	41 6 47 27	4,076,434 462,948 4,539,382 2,569,991	99,425 77,158 96,583 95,185	72.9 72.2 72.8 66.4	45.0 45.7 45.1 40.0	41 6 47 27	4,012,304 457,707 4,470,011 2,526,395	97,861 76,285 95,107 93,570	71.9 71.2 71.8 65.4	44.0 44.7 44.1 39.5 36.8
1 2	M F M	41 6 47 27 6	4,076,434 462,948 4,539,382 2,569,991 422,789	99,425 77,158 96,583 95,185 70,465	72.9 72.2 72.8 66.4 65.5	45.0 45.7 45.1 40.0 37.8	41 6 47 27 6	4,012,304 457,707 4,470,011 2,526,395 418,458	97,861 76,285 95,107 93,570 69,743	71.9 71.2 71.8 65.4 64.5	44.0 44.7 44.1 39.5 36.8 39.0 16.7
1 2 2	M F M F	41 6 47 27 6 33	4,076,434 462,948 4,539,382 2,569,991 422,789 2,992,780	99,425 77,158 96,583 95,185 70,465 90,690	72.9 72.2 72.8 66.4 65.5 66.2	45.0 45.7 45.1 40.0 37.8 39.6	41 6 47 27 6 33	4,012,304 457,707 4,470,011 2,526,395 418,458 2,944,853	97,861 76,285 95,107 93,570 69,743 89,238	71.9 71.2 71.8 65.4 64.5 65.2	44.0 44.7 44.1 39.5 36.8 39.0
1 2 2 4	M F M F	41 6 47 27 6 33 25,160	4,076,434 462,948 4,539,382 2,569,991 422,789 2,992,780 2,139,867,385	99,425 77,158 96,583 95,185 70,465 90,690 85,050	72.9 72.2 72.8 66.4 65.5 66.2 52.4	45.0 45.7 45.1 40.0 37.8 39.6 17.7	41 6 47 27 6 33 25,160	4,012,304 457,707 4,470,011 2,526,395 418,458 2,944,853 2,090,726,807	97,861 76,285 95,107 93,570 69,743 89,238 83,097	71.9 71.2 71.8 65.4 64.5 65.2 51.4	44.0 44.7 44.1 39.5 36.8 39.0 16.7
1 2 2 4	M F M F M F	41 6 47 27 6 33 25,160 4,801	4,076,434 462,948 4,539,382 2,569,991 422,789 2,992,780 2,139,867,385 368,003,463	99,425 77,158 96,583 95,185 70,465 90,690 85,050 76,651 83,705 70,122	72.9 72.2 72.8 66.4 65.5 66.2 52.4 50.5	45.0 45.7 45.1 40.0 37.8 39.6 17.7 17.5 17.7 2.4	41 6 47 27 6 33 25,160 4,801	4,012,304 457,707 4,470,011 2,526,395 418,458 2,944,853 2,090,726,807 359,036,529	97,861 76,285 95,107 93,570 69,743 89,238 83,097 74,784 81,765 63,969	71.9 71.2 71.8 65.4 64.5 65.2 51.4 49.5	44.0 44.7 44.1 39.5 36.8 39.0 16.7 16.5
1 2 2 4 4	M F M F F	41 6 47 27 6 33 25,160 4,801 29,961	4,076,434 462,948 4,539,382 2,569,991 422,789 2,992,780 2,139,867,385 368,003,463 2,507,870,848	99,425 77,158 96,583 95,185 70,465 90,690 85,050 76,651 83,705	72.9 72.2 72.8 66.4 65.5 66.2 52.4 50.5 52.1	45.0 45.7 45.1 40.0 37.8 39.6 17.7 17.5 17.7	41 6 47 27 6 33 25,160 4,801 29,961	4,012,304 457,707 4,470,011 2,526,395 418,458 2,944,853 2,090,726,807 359,036,529 2,449,763,336 313,578,464 50,485,699	97,861 76,285 95,107 93,570 69,743 89,238 83,097 74,784 81,765 63,969 56,472	71.9 71.2 71.8 65.4 64.5 65.2 51.4 49.5 51.1	44.0 44.7 44.1 39.5 36.8 39.0 16.7 16.5 16.7
1 2 2 4 4 6	M F M F M F	41 6 47 27 6 33 25,160 4,801 29,961 4,902 894 5,796	4,076,434 462,948 4,539,382 2,569,991 422,789 2,992,780 2,139,867,385 368,003,463 2,507,870,848 343,736,743	99,425 77,158 96,583 95,185 70,465 90,690 85,050 76,651 83,705 70,122	72.9 72.2 72.8 66.4 65.5 66.2 52.4 50.5 52.1 41.2	45.0 45.7 45.1 40.0 37.8 39.6 17.7 17.5 17.7 2.4	41 6 47 27 6 33 25,160 4,801 29,961 4,902 894 5,796	4,012,304 457,707 4,470,011 2,526,395 418,458 2,944,853 2,090,726,807 359,036,529 2,449,763,336 313,578,464	97,861 76,285 95,107 93,570 69,743 89,238 83,097 74,784 81,765 63,969	71.9 71.2 71.8 65.4 64.5 65.2 51.4 49.5 51.1 40.2	44.0 44.7 44.1 39.5 36.8 39.0 16.7 16.5 16.7

Table XIII-7 **Detailed Reconciliation of Active Membership**

			ADDITIONS DU	JRING THE Y	'EAR *		SEPARA	TIONS FROM ME	MBERSHIP DU	RING THE YI	EAR *
1	М	1	91,165	91,165	66.0	4.0	4	345,666	86,417	66.0	43.3
1	F	0	0	0	0.0	0.0	3	225,806	75,269	64.0	44.3
		1	91,165	91,165	66.0	4.0	7	571,472	81,639	65.1	43.7
2	М	0	0	0	0.0	0.0	7	594,637	84,948	65.4	35.4
2	F	0	0	0	0.0	0.0	3	221,454	73,818	63.3	39.3
		0	0	0	0.0	0.0	10	816,091	81,609	64.8	36.6
4	М	376	26,562,509	70,645	47.9	11.6	1,779	144,584,625	81,273	57.1	21.6
4	F	210	13,102,515	62,393	43.9	10.9	466	33,836,727	72,611	51.8	18.0
		586	39,665,024	67,688	46.5	11.4	2,245	178,421,352	79,475	56.0	20.8
6	М	1,805	111,586,694	61,821	40.6	0.7	291	18,087,442	62,156	39.4	1.1
6	F	438	23,808,210	54,357	38.3	0.7	91	5,235,629	57,534	37.4	1.4
		2,243	135,394,904	60,363	40.2	0.7	382	23,323,071	61,055	38.9	1.2
ALL		2,830	175,151,093	61,891	41.5	2.9	2,644	203,131,986	76,828	53.6	18.1

Note: Age is nearest birthday. Service is nearest year. * Separations and additions do not include members who joined after June 30, 2015 and are no longer members on June 30, 2016.

		Detail	ed Reco	ncilia	ation	of Acti	ve Men	nbership	o (cont	′d)	
					Но	using Authori	ty				
		TOTA	L ACTIVE MEME	BERS AS OF	JUNE 30, 2	016	тот	AL ACTIVE MEM	BERS AS OF J	UNE 30, 201	15
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC
1	М	8	475,732	59,467	73.0	42.5	9	536,062	59,562	71.4	41.6
1	F	5	249,319	49,864	69.6	46.0	6	313,896	52,316	68.2	45.0
		13	725,051	55,773	71.7	43.8	15	849,958	56,664	70.1	42.9
2	М	9	692,211	76,912	65.8	33.3	12	893,490	74,458	64.4	34.5
2	F	8	491,040	61,380	66.8	40.0	9	518,349	57,594	65.2	39.3
		17	1,183,251	69,603	66.2	36.1	21	1,411,839	67,230	64.8	36.6
4	М	5,047	356,874,516	70,710	50.5	17.8	5,382	372,783,966	69,265	49.8	17.1
4	F	3,194	186,340,591	58,341	50.2	16.4	3,443	192,605,527	55,941	49.4	15.5

17.3

2.3

2.3

2.3

14.9

8,825

946

530

1,476

10,337

565,389,493

45,355,571

21,015,091

66,370,662

634,021,952

64,067

47,945

39,651

44,967

61,335

49.7

37.7

36.3

37.2

47.9

543,215,107

56,114,034

27,241,413

83,355,447

628,478,856

8,241 1,043

600

1,643

9,914

65,916

53,801

45,402

50,734

63,393

50.4

39.1

37.4

38.5

48.5

Table XIII-7

16.5

1.6

1.7

1.6

14.4

		JUN <u>E 30, 2016</u>	MEMBERS ALSO	PRESENT A	S OF JUNE 3	0,2015	JUNE 30, 20)15 MEMBERS AL	SO PRESENT A	S OF JUNE 3	0, 2016
1	М	8	475,732	59,467	73.0	42.5	8	463,684	57,961	72.0	41.5
1	F	5	249,319	49,864	69.6	46.0	5	243,343	48,669	68.6	45.0
		13	725,051	55,773	71.7	43.8	13	707,027	54,387	70.7	42.8
2	М	9	692,211	76,912	65.8	33.3	9	675,563	75,063	64.8	32.3
2	F	8	491,040	61,380	66.8	40.0	8	479,104	59,888	65.8	39.0
		17	1,183,251	69,603	66.2	36.5	17	1,154,667	67,922	65.2	35.5
4	М	4,986	353,494,161	70,897	50.5	17.9	4,986	345,635,808	69,321	49.5	16.9
4	F	3,145	183,741,280	58,423	50.3	16.5	3,145	176,688,771	56,181	49.3	15.5
		8,131	537,235,441	66,072	50.4	17.4	8,131	522,324,579	64,239	49.4	16.4
6	М	859	46,753,406	54,428	38.6	2.6	859	40,841,740	47,546	37.6	1.6
6	F	451	20,805,575	46,132	37.5	2.7	451	17,977,755	39,862	36.5	1.7
		1,310	67,558,981	51,572	38.2	2.6	1,310	58,819,495	44,900	37.2	1.6
ALL		9,471	606,702,724	64,059	48.8	15.4	9,471	583,005,768	61,557	47.8	14.4

			ADDITIONS DU	JRING THE Y	'EAR *		SEPARAT	TIONS FROM MEN	BERSHIP DU	RING THE YI	EAR *
1	М	0	0	0	0.0	0.0	1	72,378	72,378	67.0	42.0
1	F	0	0	0	0.0	0.0	1	70,553	70,553	66.0	45.0
		0	0	0	0.0	0.0	2	142,931	71,466	66.5	43.5
2	М	0	0	0	0.0	0.0	3	217,927	72,642	63.3	41.0
2	F	0	0	0	0.0	0.0	1	39,245	39,245	61.0	42.0
		0	0	0	0.0	0.0	4	257,172	64,293	62.8	41.3
4	М	61	3,380,355	55,416	47.3	11.6	396	27,148,158	68,556	53.5	19.2
4	F	49	2,599,311	53,047	42.7	9.1	298	15,916,756	53,412	50.7	15.6
		110	5,979,666	54,361	45.2	10.5	694	43,064,914	62,053	52.3	17.6
6	М	184	9,360,628	50,873	41.7	0.8	87	4,513,831	51,883	38.7	1.4
6	F	149	6,435,838	43,194	37.1	0.9	79	3,037,336	38,447	35.0	1.4
		333	15,796,466	47,437	39.6	0.9	166	7,551,167	45,489	37.0	1.4
ALL		443	21,776,132	49,156	41.0	3.3	866	51,016,184	58,910	49.4	14.7

Note: Age is nearest birthday. Service is nearest year.

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Table XIII-7 Detailed Reconciliation of Active Membership (cont'd)

		TOTA	AL ACTIVE MEME	BERS AS OF	JUNE 30, 2	016	T0'	TAL ACTIVE MEM	BERS AS OF J	UNE 30, 201	15
FIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SV
1	М	23	1,966,998	85,522	69.3	43.9	28	2,203,306	78,690	68.4	42
1	F	23 38	3,001,206	83,322 78,979	69.7	43.9	48	3,711,664	78,890	68.8	42. 39.
1	г	50 61	4,968,204	81,446	69.7	40.8	40	5,914,970	77,829	68.7	39 40
		01	4,900,204	01,440	09.5	42.0	70	5,914,970	//,029	00.7	40
2	М	19	1,423,058	74,898	65.7	36.3	25	1,929,756	77,190	64.5	36
2	F	34	2,733,327	80,392	66.2	39.0	43	3,239,421	75,335	64.9	38
		53	4,156,385	78,422	66.0	38.1	68	5,169,177	76,017	64.8	37
4	М	7,893	562,088,972	71,214	51.7	12.8	8,371	576,862,380	68,912	51.0	12
4	F	18,787	1,295,146,342	68,938	51.6	13.0	19,922	1,323,521,855	66,435	50.9	12
		26,680	1,857,235,314	69,612	51.6	13.0	28,293	1,900,384,235	67,168	50.9	12
6	М	1,553	107,563,831	69,262	40.5	1.7	1,140	76,506,792	67,111	39.4	1
	F	3,975	253,810,946	63,852	40.2	1.7	2,957	183,209,232	61,958	39.2	1
6	r					1.7	4,097	259,716,024	63,392	39.3	1
6	F		361.374.777	65.372	40.3						
		5,528 32,322	361,374,777 2,227,734,680	65,372 68,923	40.3 49.7	11.1	32,534	2,171,184,406	66,736	49.5	
		5,528 32,322		68,923	49.7	11.1	32,534		66,736	49.5	
1 1	JU M	5,528 32,322 NE 30, 2016 23	2,227,734,680	68,923 PRESENT 85,522	49.7	11.1	32,534 JUNE 30, 20 23	2,171,184,406	66,736	49.5 T AS OF JUNE 68.3	30, 20
ALL	JU	5,528 32,322 NE 30, 2016	2,227,734,680 MEMBERS ALSO	68,923 PRESENT	49.7 AS OF JUNE	<u>11.1</u>	32,534 JUNE 30, 20	2,171,184,406 015 MEMBERS AL	66,736 .SO PRESENT	49.5 F AS OF JUNE	3 0, 20 :
LL	JU M	5,528 32,322 NE 30, 2016 23	2,227,734,680 MEMBERS ALSO 1,966,998	68,923 PRESENT 85,522	49.7 AS OF JUNE 69.3	11.1 30, 2015 43.9	32,534 JUNE 30, 20 23	2,171,184,406 015 MEMBERS AL 1,902,692	66,736 SO PRESENT 82,726	49.5 T AS OF JUNE 68.3	3 0, 20 42 39
LL	JU M	5,528 32,322 NE 30, 2016 23 38	2,227,734,680 MEMBERS ALSC 1,966,998 3,001,206	68,923 PRESENT 85,522 78,979	49.7 AS OF JUNE 69.3 69.7	11.1 30, 2015 43.9 40.8	32,534 JUNE 30, 20 23 38	2,171,184,406 D15 MEMBERS AL 1,902,692 2,920,776	66,736 SO PRESENT 82,726 76,863	49.5 AS OF JUNE 68.3 68.7	42 39 41
1 1	JU M F	5,528 32,322 NE 30, 2016 23 38 61	2,227,734,680 MEMBERS ALSC 1,966,998 3,001,206 4,968,204	68,923 PRESENT 85,522 78,979 81,446	49.7 AS OF JUNE 69.3 69.7 69.5	11.1 30,2015 43.9 40.8 42.0	32,534 JUNE 30, 20 23 38 61	2,171,184,406 D15 MEMBERS AL 1,902,692 2,920,776 4,823,468	66,736 SO PRESENT 82,726 76,863 79,073	49.5 CAS OF JUNE 68.3 68.7 68.5	3 0, 20 42 39 41 35
1 1 2	JU M F M	5,528 32,322 NE 30, 2016 23 38 61 19	2,227,734,680 MEMBERS ALSC 1,966,998 3,001,206 4,968,204 1,423,058	68,923 PRESENT 85,522 78,979 81,446 74,898	49.7 AS OF JUNE 69.3 69.7 69.5 65.7	11.1 30,2015 43.9 40.8 42.0 36.3	32,534 JUNE 30, 20 23 38 61 19	2,171,184,406 D15 MEMBERS AL 1,902,692 2,920,776 4,823,468 1,382,039	66,736 SO PRESENT 82,726 76,863 79,073 72,739	49.5 TAS OF JUNE 68.3 68.7 68.5 64.7	30, 20 42 39 41 35 38
1 1 2	JU M F M	5,528 32,322 NE 30, 2016 23 38 61 19 34	2,227,734,680 MEMBERS ALSO 1,966,998 3,001,206 4,968,204 1,423,058 2,733,327	68,923 PRESENT 85,522 78,979 81,446 74,898 80,392	49.7 AS OF JUNE 69.3 69.7 69.5 65.7 66.2	11.1 30, 2015 43.9 40.8 42.0 36.3 39.0	32,534 JUNE 30, 20 23 38 61 19 34	2,171,184,406 D15 MEMBERS AL 1,902,692 2,920,776 4,823,468 1,382,039 2,650,395	66,736 SO PRESENT 82,726 76,863 79,073 72,739 77,953	49.5 AS OF JUNE 68.3 68.7 68.5 64.7 65.2	42 39 41 35 38 37
1 1 2 2	JU M F M F	5,528 32,322 NE 30, 2016 23 38 61 19 34 53	2,227,734,680 MEMBERS ALSC 1,966,998 3,001,206 4,968,204 1,423,058 2,733,327 4,156,385	68,923 PRESENT 85,522 78,979 81,446 74,898 80,392 78,422	49.7 AS OF JUNE 69.3 69.7 69.5 65.7 66.2 66.0	11.1 30,2015 43.9 40.8 42.0 36.3 39.0 38.1	32,534 JUNE 30, 20 23 38 61 19 34 53	2,171,184,406 D15 MEMBERS AI 1,902,692 2,920,776 4,823,468 1,382,039 2,650,395 4,032,434	66,736 SO PRESENT 82,726 76,863 79,073 72,739 77,953 76,084	49.5 AS OF JUNE 68.3 68.7 68.5 64.7 65.2 65.0	42 39 41 35 38 37 11
1 1 1 2 2 4	JU M F M F	5,528 32,322 NE 30, 2016 23 38 61 19 34 53 7,751	2,227,734,680 MEMBERS ALSO 1,966,998 3,001,206 4,968,204 1,423,058 2,733,327 4,156,385 550,520,936	68,923 PRESENT 85,522 78,979 81,446 74,898 80,392 78,422 71,026	49.7 AS OF JUNE 69.3 69.7 69.5 65.7 66.2 66.0 51.7	11.1 30,2015 43.9 40.8 42.0 36.3 39.0 38.1 12.8	32,534 JUNE 30, 20 23 38 61 19 34 53 7,751	2,171,184,406 D15 MEMBERS AL 1,902,692 2,920,776 4,823,468 1,382,039 2,650,395 4,032,434 531,069,346	66,736 SO PRESENT 82,726 76,863 79,073 72,739 77,953 76,084 68,516	49.5 CAS OF JUNE 68.3 68.7 68.5 64.7 65.2 65.0 50.7	42 39 41 35 38 37 11 12
1 1 1 2 2 4	JU M F M F	5,528 32,322 NE 30, 2016 23 38 61 19 34 53 7,751 18,358	2,227,734,680 MEMBERS ALSC 1,966,998 3,001,206 4,968,204 1,423,058 2,733,327 4,156,385 550,520,936 1,266,303,447	68,923 PRESENT 85,522 78,979 81,446 74,898 80,392 78,422 71,026 68,978	49.7 AS OF JUNE 69.3 69.7 69.5 65.7 66.2 66.0 51.7 51.7	11.1 30,2015 43.9 40.8 42.0 36.3 39.0 38.1 12.8 13.1	32,534 JUNE 30, 20 23 38 61 19 34 53 7,751 18,358	2,171,184,406 D15 MEMBERS AL 1,902,692 2,920,776 4,823,468 1,382,039 2,650,395 4,032,434 531,069,346 1,218,353,762	66,736 SO PRESENT 82,726 76,863 79,073 72,739 77,953 76,084 68,516 66,366	49.5 CAS OF JUNE 68.3 68.7 68.5 64.7 65.2 65.0 50.7 50.7	42 39 41 39 38 37 11 12 12
1 1 2 2 4 4	JU M F M F M F	5,528 32,322 NE 30, 2016 23 38 61 19 34 53 7,751 18,358 26,109	2,227,734,680 MEMBERS ALSC 1,966,998 3,001,206 4,968,204 1,423,058 2,733,327 4,156,385 550,520,936 1,266,303,447 1,816,824,383	68,923 PRESENT 85,522 78,979 81,446 74,898 80,392 78,422 71,026 68,978 69,586	49.7 AS OF JUNE 69.3 69.7 69.5 65.7 66.2 66.0 51.7 51.7 51.7	11.1 30,2015 43.9 40.8 42.0 36.3 39.0 38.1 12.8 13.1 13.0	32,534 JUNE 30, 20 23 38 61 19 34 53 7,751 18,358 26,109	2,171,184,406 215 MEMBERS AL 1,902,692 2,920,776 4,823,468 1,382,039 2,650,395 4,032,434 531,069,346 1,218,353,762 1,749,423,108	66,736 SO PRESENT 82,726 76,863 79,073 72,739 77,953 76,084 68,516 66,366 67,005	49.5 AS OF JUNE 68.3 68.7 68.5 64.7 65.2 65.0 50.7 50.7 50.7	10 30,201 42 39 41 35 38 37 11 12 12 12 1 1
1 1 2 2 4 4 4 6	JU M F M F M F M	5,528 32,322 NE 30, 2016 23 38 61 19 34 53 7,751 18,358 26,109 992	2,227,734,680 MEMBERS ALSC 1,966,998 3,001,206 4,968,204 1,423,058 2,733,327 4,156,385 550,520,936 1,266,303,447 1,816,824,383 69,548,906	68,923 PRESENT 85,522 78,979 81,446 74,898 80,392 78,422 71,026 68,978 69,586 70,110	49.7 AS OF JUNE 69.3 69.7 69.5 65.7 66.2 66.0 51.7 51.7 51.7 51.7 40.6	11.1 30,2015 43.9 40.8 42.0 36.3 39.0 38.1 12.8 13.1 13.0 2.3	32,534 JUNE 30, 20 23 38 61 19 34 53 7,751 18,358 26,109 992	2,171,184,406 215 MEMBERS AL 1,902,692 2,920,776 4,823,468 1,382,039 2,650,395 4,032,434 531,069,346 1,218,353,762 1,749,423,108 65,285,890	66,736 SO PRESENT 82,726 76,863 79,073 72,739 77,953 76,084 68,516 66,366 67,005 65,812	49.5 AS OF JUNE 68.3 68.7 68.5 64.7 65.2 65.0 50.7 50.7 50.7 39.6	30, 201 42 39 41 35 38 37 11 12 12 12

			ADDITIONS DU	IRING THE Y	'EAR *		SEPARA	TIONS FROM MEM	IBERSHIP DUI	RING THE YE	EAR *
1	М	0	0	0	0.0	0.0	5	300,614	60,123	69.0	42.8
1	F	0	0	0	0.0	0.0	10	790,888	79,089	69.3	39.6
		0	0	0	0.0	0.0	15	1,091,502	72,767	69.2	40.7
2	М	0	0	0	0.0	0.0	6	547,717	91,286	63.8	38.3
2	F	0	0	0	0.0	0.0	9	589,026	65,447	63.7	39.8
		0	0	0	0.0	0.0	15	1,136,743	75,783	63.7	39.2
4	М	142	11,568,036	81,465	48.2	9.6	620	45,793,034	73,860	54.0	13.5
4	F	429	28,842,895	67,233	46.6	9.2	1,564	105,168,093	67,243	53.2	13.4
		571	40,410,931	70,772	47.0	9.3	2,184	150,961,127	69,121	53.4	13.4
6	М	561	38,014,925	67,763	40.4	0.7	148	11,220,902	75,817	38.5	1.3
6	F	1,458	90,347,971	61,967	39.3	0.7	440	28,898,006	65,677	36.5	1.3
		2,019	128,362,896	63,577	39.6	0.7	588	40,118,908	68,229	37.0	1.3
ALL		2,590	168,773,827	65,164	41.2	2.6	2,802	193,308,280	68,989	50.1	11.1

Note: Age is nearest birthday. Service is nearest year. * Separations and additions do not include members who joined after June 30, 2015 and are no longer members on June 30, 2016.

Table XIII-7Detailed Reconciliation of Active Membership (cont'd)

				Tri							
		TOTA	L ACTIVE MEME	ERS AS OF	JUNE 30, 2	016	T07	TAL ACTIVE MEM	BERS AS OF J	UNE 30, 201	5
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC
1	М	2	267,233	133,617	63.0	41.0	2	261,997	130,999	62.0	43.0
1	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0
-	-	2	267,233	133,617	63.0	41.0	2	261,997	130,999	62.0	43.0
2	М	1	69,760	69,760	62.0	42.0	2	205,808	102,904	63.5	41.0
2	F	0	0	0	0.0	0.0	2	158,021	79,011	64.5	26.0
		1	69,760	69,760	62.0	42.0	4	363,829	90,957	64.0	33.5
4	М	939	92,773,402	98,800	48.1	14.9	1,020	98,932,696	96,993	47.7	14.3
4	F	237	22,228,956	93,793	49.0	16.0	243	22,370,996	92,062	48.5	15.3
		1,176	115,002,358	97,791	48.3	15.1	1,263	121,303,692	96,044	47.8	14.5
6	М	96	8,126,678	84,653	39.4	1.8	68	5,927,629	87,171	40.5	1.3
6	F	36	3,107,420	86,317	38.4	2.5	30	2,442,018	81,401	36.9	1.9
		132	11,234,098	85,107	39.1	2.0	98	8,369,647	85,405	39.4	1.5
ALL		1,311	126,573,449	96,547	47.4	13.8	1,367	130,299,165	95,318	47.3	13.6
	JU	NE 30, 2016	MEMBERS ALSO	PRESENT	AS OF JUNE	20 2015					
1	М					30,2013	JUNE 30, 20	15 MEMBERS AI	SO PRESENT	TAS OF JUNE	30, 2016
1	F	2	267 233	133 617	63.0		<u>.</u>				
-	•	2	267,233	133,617 0	63.0	41.0	2	261,997	130,999	62.0	43.0
		2 0 2	267,233 0 267,233	133,617 0 133,617	63.0 0.0 63.0		<u>.</u>				
2	М	0	0	0	0.0	41.0 0.0	2 0	261,997 0	130,999 0	62.0 0.0	43.0 0.0
2 2	M F	0 2	0 267,233	0 133,617	0.0 63.0	41.0 0.0 41.0	2 0 2	261,997 0 261,997	130,999 0 130,999	62.0 0.0 62.0	43.0 0.0 43.0
		0 2 1	0 267,233 69,760	0 133,617 69,760	0.0 63.0 62.0	41.0 0.0 41.0 42.0	2 0 2 1	261,997 0 261,997 71,175	130,999 0 130,999 71,175	62.0 0.0 62.0 61.0	43.0 0.0 43.0 41.0
	F	0 2 1 0 1 926	0 267,233 69,760 0	0 133,617 69,760 0 69,760 99,072	0.0 63.0 62.0 0.0 62.0 48.2	41.0 0.0 41.0 42.0 0.0 42.0 14.9	2 0 2 1 0 1 926	261,997 0 261,997 71,175 0 71,175 89,119,672	130,999 0 130,999 71,175 0 71,175 96,242	62.0 0.0 62.0 61.0 0.0 61.0 47.2	43.0 0.0 43.0 41.0 0.0 41.0 13.9
2	F	0 2 1 0 1 926 226	0 267,233 69,760 0 69,760	0 133,617 69,760 0 69,760	0.0 63.0 62.0 0.0 62.0	41.0 0.0 41.0 42.0 0.0 42.0 14.9 16.2	2 0 2 1 0 1 926 226	261,997 0 261,997 71,175 0 71,175	130,999 0 130,999 71,175 0 71,175 96,242 91,521	62.0 0.0 62.0 61.0 0.0 61.0 47.2 48.1	43.0 0.0 43.0 41.0 0.0 41.0 13.9 15.2
2 4	F	0 2 1 0 1 926	0 267,233 69,760 0 69,760 91,740,868	0 133,617 69,760 0 69,760 99,072	0.0 63.0 62.0 0.0 62.0 48.2	41.0 0.0 41.0 42.0 0.0 42.0 14.9	2 0 2 1 0 1 926	261,997 0 261,997 71,175 0 71,175 89,119,672	130,999 0 130,999 71,175 0 71,175 96,242	62.0 0.0 62.0 61.0 0.0 61.0 47.2	43.0 0.0 43.0 41.0 0.0 41.0 13.9
2 4 4	F M F M	0 2 1 0 1 926 226 1,152 61	0 267,233 69,760 0 69,760 91,740,868 21,184,563 112,925,431 5,607,763	0 133,617 69,760 0 69,760 99,072 93,737 98,026 91,931	0.0 63.0 62.0 62.0 48.2 49.1 48.4 41.7	41.0 0.0 41.0 42.0 0.0 42.0 14.9 16.2 15.2 2.4	2 0 2 1 0 1 926 226 1,152 61	261,997 0 261,997 71,175 0 71,175 89,119,672 20,683,734 109,803,406 5,298,447	130,999 0 130,999 71,175 0 71,175 96,242 91,521 95,315 86,860	62.0 0.0 62.0 61.0 0.0 61.0 47.2 48.1 47.4 40.7	43.0 0.0 43.0 41.0 0.0 41.0 13.9 15.2 14.2 1.4
2 4 4	F M F	0 2 1 0 1 926 226 1,152 61 29	0 267,233 69,760 0 69,760 91,740,868 21,184,563 112,925,431 5,607,763 2,470,906	0 133,617 69,760 0 69,760 99,072 93,737 98,026 91,931 85,204	0.0 63.0 62.0 62.0 48.2 49.1 48.4 41.7 38.2	41.0 0.0 41.0 42.0 0.0 42.0 14.9 16.2 15.2 2.4 3.0	2 0 2 1 0 1 926 226 1,152 61 29	261,997 0 261,997 71,175 0 71,175 89,119,672 20,683,734 109,803,406 5,298,447 2,369,326	130,999 0 130,999 71,175 0 71,175 96,242 91,521 95,315 86,860 81,701	62.0 0.0 62.0 61.0 61.0 61.0 47.2 48.1 47.4 40.7 37.2	43.0 0.0 43.0 41.0 0.0 41.0 13.9 15.2 14.2 1.4 2.0
2 4 4	F M F M	0 2 1 0 1 926 226 1,152 61	0 267,233 69,760 0 69,760 91,740,868 21,184,563 112,925,431 5,607,763	0 133,617 69,760 0 69,760 99,072 93,737 98,026 91,931	0.0 63.0 62.0 62.0 48.2 49.1 48.4 41.7	41.0 0.0 41.0 42.0 0.0 42.0 14.9 16.2 15.2 2.4	2 0 2 1 0 1 926 226 1,152 61	261,997 0 261,997 71,175 0 71,175 89,119,672 20,683,734 109,803,406 5,298,447	130,999 0 130,999 71,175 0 71,175 96,242 91,521 95,315 86,860	62.0 0.0 62.0 61.0 0.0 61.0 47.2 48.1 47.4 40.7	43.0 0.0 43.0 41.0 0.0 41.0 13.9 15.2 14.2 1.4

		ADDITIONS DURING THE YEAR *					SEPARAT	TIONS FROM ME	MBERSHIP DU	RING THE YE	AR *
1	М	0	0	0	0.0	0.0	0	0	0	0.0	0.0
1	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0
		0	0	0	0.0	0.0	0	0	0	0.0	0.0
2	М	0	0	0	0.0	0.0	1	134,633	134,633	66.0	41.0
2	F	0	0	0	0.0	0.0	2	158,021	79,011	64.5	26.0
		0	0	0	0.0	0.0	3	292,654	97,551	65.0	31.0
4	М	13	1,032,534	79,426	40.5	9.2	94	9,813,024	104,394	51.7	17.5
4	F	11	1,044,393	94,945	47.3	12.5	17	1,687,262	99,251	53.9	16.5
		24	2,076,927	86,539	43.6	10.7	111	11,500,286	103,606	52.1	17.3
6	М	35	2,518,915	71,969	35.3	0.7	7	629,182	89,883	38.1	0.9
6	F	7	636,514	90,931	39.0	0.6	1	72,692	72,692	29.0	1.0
		42	3,155,429	75,129	36.0	0.7	8	701,874	87,734	37.0	0.9
ALL		66	5,232,356	79,278	38.7	4.3	122	12,494,814	102,417	51.4	16.6

Note: Age is nearest birthday. Service is nearest year.

Table XIII-7								
Detailed Reconciliation of Active Membership (con	ťd)							

		TOTA	L ACTIVE MEME	BERS AS OF	JUNE 30, 2	016	TOTAL ACTIVE MEMBERS AS OF JUNE 30, 2015				
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SV
	danta an	nonden	0.112.1111	in a bill		<u> </u>	HUNDLIN	Utilititi	in a bill	munuz	
1	М	9	595,995	66,222	70.6	40.9	9	585,149	65,017	69.6	39.9
1	F	8	498,027	62,253	71.3	41.1	10	590,692	59,069	69.4	41.
		17	1,094,022	64,354	70.9	41.0	19	1,175,841	61,886	69.5	40.
2	М	4	221,932	55,483	72.5	40.8	5	296,899	59,380	69.6	39.
2	F	5	329,128	65,826	68.0	39.2	7	508,816	72,688	69.3	38.
		9	551,060	61,229	70.0	39.8	12	805,715	67,143	69.4	39.
4	М	1,827	118,009,818	64,592	49.9	12.7	1,762	109,401,215	62,089	49.2	11.
4	F	1,840	88,253,514	47,964	51.9	12.5	1,852	84,114,228	45,418	51.2	11.
		3,667	206,263,332	56,249	50.9	12.6	3,614	193,515,443	53,546	50.2	11.
6	М	354	18,005,390	50,863	39.1	2.4	380	16,861,789	44,373	36.9	1.
6	F	303	12,516,622	41,309	39.7	2.4	305	10,616,732	34,809	38.7	1.
		657	30,522,012	46,457	39.4	2.4	685	27,478,521	40,115	37.7	1.
ALL		4,350	238,430,426	54,812	49.3	11.2	4,330	222,975,520	51,496	48.4	10
ALL	JU		238,430,426 MEMBERS ALSO					222,975,520 015 MEMBERS AL			10. 30, 201
ALL 1	JU M										30, 201
	-	NE 30, 2016	MEMBERS ALSO) PRESENT	AS OF JUNE	30, 2015	JUNE 30, 20	15 MEMBERS AL	SO PRESENT	' AS OF JUNE	30, 201 39
1	М	NE 30, 2016 9	MEMBERS ALSO 595,995	PRESENT 66,222	AS OF JUNE 70.6	30, 2015 40.9	JUNE 30, 20 9	115 MEMBERS AL 585,149	.SO PRESENT 65,017	AS OF JUNE 69.6	30, 201 39 40
1	М	NE 30, 2016 9 8	MEMBERS ALSO 595,995 498,027	PRESENT 66,222 62,253	AS OF JUNE 70.6 71.3	3 0, 2015 40.9 41.1	JUNE 30, 20 9 8	D15 MEMBERS AL 585,149 481,361	.SO PRESENT 65,017 60,170	* AS OF JUNE 69.6 70.3	30, 201 39 40 40
1 1	M F	N <u>E 30, 2016</u> 9 8 17 4 5	MEMBERS ALSO 595,995 498,027 1,094,022	PRESENT 66,222 62,253 64,354 55,483 65,826	AS OF JUNE 70.6 71.3 70.9 72.5 68.0	40.9 41.1 41.0 40.8 39.2	JUNE 30, 20 9 8 17 4 5	9 <mark>15 MEMBERS AL</mark> 585,149 481,361 1,066,510	<u>SO PRESEN1</u> 65,017 60,170 62,736 54,646 64,636	AS OF JUNE 69.6 70.3 69.9 71.5 67.0	30, 201 39 40 40 39 38
1 1 2	M F M	NE 30, 2016 9 8 17 4	MEMBERS ALSO 595,995 498,027 1,094,022 221,932	0 PRESENT 66,222 62,253 64,354 55,483	AS OF JUNE 70.6 71.3 70.9 72.5	40.9 41.1 41.0 40.8	JUNE 30, 20 9 8 17 4	9 <u>15 MEMBERS AI</u> 585,149 481,361 1,066,510 218,585	SO PRESENT 65,017 60,170 62,736 54,646	AS OF JUNE 69.6 70.3 69.9 71.5	30, 201 39 40 40 39 38
1 1 2	M F M	N <u>E 30, 2016</u> 9 8 17 4 5	MEMBERS ALSO 595,995 498,027 1,094,022 221,932 329,128	PRESENT 66,222 62,253 64,354 55,483 65,826	AS OF JUNE 70.6 71.3 70.9 72.5 68.0	40.9 41.1 41.0 40.8 39.2	JUNE 30, 20 9 8 17 4 5	915 MEMBERS AL 585,149 481,361 1,066,510 218,585 323,181	<u>SO PRESEN1</u> 65,017 60,170 62,736 54,646 64,636	AS OF JUNE 69.6 70.3 69.9 71.5 67.0	30, 201 39 40 40 39 38 38 38
1 1 2 2	M F M F	NE 30, 2016 9 8 17 4 5 9	MEMBERS ALSO 595,995 498,027 1,094,022 221,932 329,128 551,060	0 PRESENT 66,222 62,253 64,354 55,483 65,826 61,229	AS OF JUNE 70.6 71.3 70.9 72.5 68.0 70.0	40.9 41.1 41.0 40.8 39.2 39.9	JUNE 30, 20 9 8 17 4 5 9	215 MEMBERS AI 585,149 481,361 1,066,510 218,585 323,181 541,766	.SO PRESENT 65,017 60,170 62,736 54,646 64,636 60,196	69.6 70.3 69.9 71.5 67.0 69.0	30, 201 39 40 40 39 38 38 38 12
1 1 2 2 4	M F M F	NE 30, 2016 9 8 17 4 5 9 1,608	MEMBERS ALSO 595,995 498,027 1,094,022 221,932 329,128 551,060 102,361,881	PRESENT 66,222 62,253 64,354 55,483 65,826 61,229 63,658	AS OF JUNE 70.6 71.3 70.9 72.5 68.0 70.0 50.4	40.9 41.1 41.0 40.8 39.2 39.9 13.0	JUNE 30, 20 9 8 17 4 5 9 1,608	215 MEMBERS AL 585,149 481,361 1,066,510 218,585 323,181 541,766 100,577,788	50 PRESENT 65,017 60,170 62,736 54,646 64,636 60,196 62,548	69.6 70.3 69.9 71.5 67.0 69.0 49.4	30, 201 39 40 40 39 38 38 38 12 11
1 1 2 2 4	M F M F	NE 30, 2016 9 8 17 4 5 9 1,608 1,674	MEMBERS ALSC 595,995 498,027 1,094,022 221,932 329,128 551,060 102,361,881 78,533,879	PRESENT 66,222 62,253 64,354 55,483 65,826 61,229 63,658 46,914	AS OF JUNE 70.6 71.3 70.9 72.5 68.0 70.0 50.4 52.4	40.9 41.1 41.0 40.8 39.2 39.9 13.0 12.8	JUNE 30, 20 9 8 17 4 5 9 1,608 1,674	215 MEMBERS AL 585,149 481,361 1,066,510 218,585 323,181 541,766 100,577,788 75,906,544	SO PRESENT 65,017 60,170 62,736 54,646 64,636 60,196 62,548 45,344	• AS OF JUNE 69.6 70.3 69.9 71.5 67.0 69.0 49.4 51.4	30, 201 39, 40, 40, 39, 38, 38, 12, 11, 11,
1 1 2 2 4 4	M F M F M F	NE 30, 2016 9 8 17 4 5 9 1,608 1,674 3,282	MEMBERS ALSO 595,995 498,027 1,094,022 221,932 329,128 551,060 102,361,881 78,533,879 180,895,760	0 PRESENT 66,222 62,253 64,354 55,483 65,826 61,229 63,658 46,914 55,118	AS OF JUNE 70.6 71.3 70.9 72.5 68.0 70.0 50.4 52.4 51.4 39.1 39.9	40.9 41.1 41.0 40.8 39.2 39.9 13.0 12.8 12.9 2.4 2.4	JUNE 30, 20 9 8 17 4 5 9 1,608 1,674 3,282	215 MEMBERS AL 585,149 481,361 1,066,510 218,585 323,181 541,766 100,577,788 75,906,544 176,484,332 13,620,127 9,224,375	<u>SO PRESENT</u> 65,017 60,170 62,736 54,646 64,636 60,196 62,548 45,344 53,773 45,100 25,482	AS OF JUNE 69.6 70.3 69.9 71.5 67.0 69.0 49.4 51.4 50.4 38.1 38.9	
1 1 2 2 4 4 4	M F M F F M	NE 30, 2016 9 8 17 4 5 9 1,608 1,674 3,282 302	MEMBERS ALSO 595,995 498,027 1,094,022 221,932 329,128 551,060 102,361,881 78,533,879 180,895,760 14,479,596	PRESENT 66,222 62,253 64,354 55,483 65,826 61,229 63,658 46,914 55,118 47,946	AS OF JUNE 70.6 71.3 70.9 72.5 68.0 70.0 50.4 52.4 51.4 39.1	40.9 41.1 41.0 40.8 39.2 39.9 13.0 12.8 12.9 2.4	JUNE 30, 20 9 8 17 4 5 9 1,608 1,674 3,282 302	215 MEMBERS AL 585,149 481,361 1,066,510 218,585 323,181 541,766 100,577,788 75,906,544 176,484,332 13,620,127	SO PRESENT 65,017 60,170 62,736 54,646 64,636 60,196 62,548 45,344 53,773 45,100	AS OF JUNE 69.6 70.3 69.9 71.5 67.0 69.9 71.5 67.0 69.0 49.4 51.4 50.4 38.1	30, 201 39, 40, 40, 39, 38, 38, 12, 11, 11, 11, 11,

			ADDITIONS DU	JRING THE Y	'EAR *		SEPARATIONS FROM MEMBERSHIP DURING THE YEAR *					
1	М	0	0	0	0.0	0.0	0	0	0	0.0	0.0	
1	F	0	0	0	0.0	0.0	2	109,331	54,666	66.0	43.0	
		0	0	0	0.0	0.0	2	109,331	54,666	66.0	43.0	
2	М	0	0	0	0.0	0.0	1	78,314	78,314	62.0	40.0	
2	F	0	0	0	0.0	0.0	2	185,635	92,818	75.0	40.5	
		0	0	0	0.0	0.0	3	263,949	87,983	70.7	40.4	
4	М	219	15,647,937	71,452	46.7	10.3	154	8,823,427	57,295	47.6	11.1	
4	F	166	9,719,635	58,552	47.1	10.1	178	8,207,684	46,111	49.9	11.2	
		385	25,367,572	65,890	46.8	10.2	332	17,031,111	51,299	48.8	11.1	
6	М	52	3,525,794	67,804	39.0	2.5	78	3,241,662	41,560	32.4	1.3	
6	F	41	2,487,279	60,665	38.3	2.1	43	1,392,357	32,380	37.7	1.3	
		93	6,013,073	64,657	38.7	2.3	121	4,634,019	38,298	34.3	1.3	
ALL		478	31,380,645	65,650	45.3	8.7	458	22,038,410	48,119	45.2	8.9	

Note: Age is nearest birthday. Service is nearest year. * Separations and additions do not include members who joined after June 30, 2015 and are no longer members on June 30, 2016.

		TOTA	L ACTIVE MEME	BERS AS OF	JUNE 30, 2	016	тот	AL ACTIVE MEM	BERS AS OF J	UNE 30, 201	15
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SV
1	М	0	0	0	0.0	0.0	1	160,082	160,082	69.0	47.
1	F	0	0	0	0.0	0.0	0	100,082	100,082	0.0	47.0
1	г	0	0	0	0.0	0.0	0	160,082	160,082	69.0	47.0
		0	0	0	0.0	0.0	1	100,082	100,082	09.0	47.
2	М	1	118,029	118,029	70.0	18.0	1	112,030	112,030	69.0	17.
2	F	0	0	0	0.0	0.0	0	0	0	0.0	0.
		1	118,029	118,029	70.0	18.0	1	112,030	112,030	69.0	17.
4	М	70	8,056,315	115,090	53.2	15.9	68	7,665,105	112,722	53.0	15.
4	F	91	8,139,185	89,442	51.0	11.3	97	8,345,946	86,041	49.8	10.
		161	16,195,500	100,593	52.0	13.3	165	16,011,051	97,037	51.1	12.
6	М	0	0	0	0.0	0.0	0	0	0	0.0	0.
6	F	0	0	0	0.0	0.0	1	64,161	64,161	38.0	2.
		0	0	0	0.0	0.0	1	64,161	64,161	38.0	2.
ALL		162	16,313,529	100,701	52.1	13.3	168	16,347,324	97,306	51.2	12
ALL	JU		16,313,529 MEMBERS ALSC					16,347,324 15 MEMBERS AL			
	-	N <u>E 30, 2016 I</u>	MEMBERS ALSO	PRESENT	AS OF JUNE	30, 2015	JUNE 30, 20	15 MEMBERS AL	SO PRESENT	TAS OF JUNE	30, 201
1	М	NE 30, 2016 ! 0	MEMBERS ALSO	PRESENT 0	AS OF JUNE	: 30, 2015 0.0	JUNE 30, 20 0	15 MEMBERS AL 0	SO PRESENT	AS OF JUNE 0.0	: 30, 201 0.
	-	N <u>E 30, 2016 I</u>	MEMBERS ALSO	PRESENT	AS OF JUNE	30, 2015	JUNE 30, 20	15 MEMBERS AL	SO PRESENT	TAS OF JUNE	2 30, 201 0. 0.
1 1	M F	N <u>E 30, 2016 1</u> 0 0 0	MEMBERS ALSO 0 0 0	0 PRESENT 0 0 0	AS OF JUNE 0.0 0.0 0.0	2.30,2015 0.0 0.0 0.0	JUNE 30, 20 0 0 0	15 MEMBERS AL 0 0 0	SO PRESENT 0 0 0	0.0 0.0 0.0 0.0	3 0, 201 0. 0. 0.
1	М	N <u>E 30, 2016 P</u> 0 0	MEMBERS ALSO 0 0) PRESENT 0 0	AS OF JUNE 0.0 0.0	3 0, 2015 0.0 0.0	JUNE 30, 20 0 0	15 MEMBERS AL 0 0	SO PRESENT 0 0	T AS OF JUNE 0.0 0.0	3 0, 201 0. 0. 0. 17.
1 1 2	M F M	N <u>E 30, 2016 1</u> 0 0 1	MEMBERS ALSO 0 0 118,029	9 PRESENT 0 0 0 118,029	AS OF JUNE 0.0 0.0 0.0 70.0	0.0 0.0 0.0 0.0 18.0	JUNE 30, 20 0 0 0	15 MEMBERS AL 0 0 0 112,030	SO PRESENT 0 0 0 112,030	T AS OF JUNE 0.0 0.0 0.0 69.0	0. 0. 0. 0. 17. 0.
1 1 2	M F M	N <u>E 30, 2016 1</u> 0 0 1 0	MEMBERS ALSO 0 0 118,029 0	PRESENT 0 0 0 118,029 0	AS OF JUNE 0.0 0.0 0.0 70.0 0.0	0.0 0.0 0.0 18.0 0.0	JUNE 30, 20 0 0 1 0	15 MEMBERS AL 0 0 0 112,030 0	SO PRESENT 0 0 112,030 0	T <u>AS OF JUNE</u> 0.0 0.0 0.0 69.0 0.0	3 0, 201 0. 0. 17. 0. 17.
1 1 2 2	M F M F	N <u>E 30, 2016 1</u> 0 0 1 1 0 1	MEMBERS ALSO 0 0 118,029 0 118,029	0 PRESENT 0 0 0 118,029 0 118,029	AS OF JUNE 0.0 0.0 0.0 70.0 0.0 70.0	0.0 0.0 0.0 18.0 0.0 18.0 18.0	JUNE 30, 20 0 0 1 1 1	15 MEMBERS AL 0 0 0 112,030 0 112,030	SO PRESENT 0 0 112,030 0 112,030	0.0 0.0 0.0 0.0 69.0 0.0 69.0	3 0, 201 0. 0. 0. 17. 0. 17. 15.
1 1 2 2 4	M F M F	NE 30, 2016 I 0 0 1 0 1 63	MEMBERS ALSO 0 0 118,029 0 118,029 7,326,653	0 0 0 118,029 0 118,029 118,029	AS OF JUNE 0.0 0.0 0.0 70.0 70.0 70.0 53.6	0.0 0.0 0.0 18.0 0.0 18.0 18.0 16.2	JUNE 30, 20 0 0 1 0 1 63	15 MEMBERS AL 0 0 112,030 0 112,030 7,087,288	SO PRESENT 0 0 112,030 0 112,030 112,497	0.0 0.0 0.0 0.0 69.0 0.0 69.0 52.6	30, 201 0. 0. 17. 0. 17. 15. 10.
1 1 2 2 4	M F M F	N <u>E 30, 2016 1</u> 0 0 1 1 0 1 1 63 89	MEMBERS ALSO 0 0 118,029 0 118,029 7,326,653 7,943,991	0 PRESENT 0 0 118,029 0 118,029 116,296 89,258	AS OF JUNE 0.0 0.0 70.0 70.0 70.0 70.0 53.6 51.0	0.0 0.0 0.0 18.0 18.0 18.0 16.2 11.4	JUNE 30, 20 0 0 1 1 1 63 89	15 MEMBERS AL 0 0 112,030 0 112,030 7,087,288 7,710,590	SO PRESENT 0 0 112,030 0 112,030 112,497 86,636	C AS OF JUNE 0.0 0.0 69.0 0.0 69.0 52.6 50.0	30, 201 0. 0. 17. 0. 17. 15. 10. 12.
1 1 2 2 4 4	M F M F M F	NE 30, 2016 1 0 0 1 0 1 1 63 89 152	MEMBERS ALSO 0 0 118,029 0 118,029 7,326,653 7,943,991 15,270,644	D PRESENT 0 0 118,029 0 118,029 116,296 89,258 100,465	AS OF JUNE 0.0 0.0 70.0 70.0 70.0 53.6 51.0 52.1	0.0 0.0 0.0 18.0 0.0 18.0 18.0 16.2 11.4 13.4	JUNE 30, 20 0 0 1 0 1 63 89 152	15 MEMBERS AL 0 0 0 112,030 0 112,030 7,087,288 7,710,590 14,797,878	SO PRESENT 0 0 112,030 0 112,030 112,497 86,636 97,354	C AS OF JUNE 0.0 0.0 69.0 0.0 69.0 52.6 50.0 51.1	12.: 30, 201 0.: 0.: 0.: 17.: 17.: 17.: 15.: 10.: 12.: 0.: 0.:
1 1 2 2 4 4 4	M F M F F M	N <u>E 30, 2016 1</u> 0 0 1 1 63 89 152 0	MEMBERS ALSO 0 0 118,029 0 118,029 7,326,653 7,943,991 15,270,644 0	D PRESENT 0 0 118,029 0 118,029 116,296 89,258 100,465 0	AS OF JUNE 0.0 0.0 70.0 70.0 70.0 53.6 51.0 52.1 0.0	0.0 0.0 0.0 18.0 0.0 18.0 18.0 16.2 11.4 13.4 0.0	JUNE 30, 20 0 0 1 0 1 63 89 152 0	15 MEMBERS AL 0 0 112,030 0 112,030 7,087,288 7,710,590 14,797,878 0	SO PRESENT 0 0 112,030 0 112,030 112,497 86,636 97,354 0	C AS OF JUNE 0.0 0.0 69.0 0.0 69.0 52.6 50.0 51.1 0.0	0. 0. 0. 17. 0. 17. 15. 10. 12. 0.

Table XIII-7 Detailed Reconciliation of Active Membership (cont'd)

		A	DDITIONS D	URING THE Y	EAR *		SEPARATIONS FROM MEMBERSHIP DURING THE YEAR *					
1	М	0	0	0	0.0	0.0	1	160,082	160,082	69.0	47.0	
1	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0	
		0	0	0	0.0	0.0	1	160,082	160,082	69.0	47.0	
2	М	0	0	0	0.0	0.0	0	0	0	0.0	0.0	
2	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0	
		0	0	0	0.0	0.0	0	0	0	0.0	0.0	
4	М	7	729,662	104,237	49.3	13.1	5	577,817	115,563	57.4	15.4	
4	F	2	195,194	97,597	50.5	5.5	8	635,356	79,420	46.9	8.0	
		9	924,856	102,762	49.6	11.4	13	1,213,173	93,321	50.9	10.8	
6	М	0	0	0	0.0	0.0	0	0	0	0.0	0.0	
6	F	0	0	0	0.0	0.0	1	64,161	64,161	38.0	2.0	
		0	0	0	0.0	0.0	1	64,161	64,161	38.0	2.0	
ALL		9	924,856	102,762	49.6	11.4	15	1,437,416	95,828	51.3	12.7	

Note: Age is nearest birthday. Service is nearest year. * Separations and additions do not include members who joined after June 30, 2015 and are no longer members on June 30, 2016.

		TOTA	AL ACTIVE MEME	BERS AS OF	JUNE 30, 20)16	T0	TAL ACTIVE MEM	BERS AS OF	JUNE 30, 201	.5
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVG
1	М	4	361,025	90,256	70.5	45.8	5	467,835	93567	68.8	44.2
1	F	0	0	0,230	0.0	0.0	0	0	0	0.0	0.0
1	I	4	361,025	90,256	70.5	45.8	5	467,835	93,567	68.8	44.2
2	М	5	497,744	99,549	65.0	34.4	4	403,602	100,901	65.0	41.8
2	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0
		5	497,744	99,549	65.0	34.4	4	403,602	100,901	65.0	41.8
4	М	5,608	560,926,494	100,023	44.6	14.5	5,916	576,510,349	97,449	44.1	14.0
4	F	158	14,894,337	94,268	45.5	14.3	166	15,478,193	93,242	45.5	14.0
		5,766	575,820,831	99,865	44.6	14.5	6,082	591,988,542	97,335	44.2	14.0
6	М	1,518	84,797,504	55,861	36.4	2.4	1,131	58,618,431	51,829	35.5	1.9
6	F	45	2,368,978	52,644	37.8	2.1	30	1,455,336	48,511	37.3	1.8
		1,563	87,166,482	55,769	36.5	2.4	1,161	60,073,767	51,743	35.6	1.9
ALL		7,338	663,846,082	90,467	42.9	12.0	7,252	652,933,746	90,035	42.8	12.
ALL	J		663,846,082 MEMBERS ALSO					652,933,746 015 MEMBERS A			
ALL 1	J										30, 2016
		U <u>NE 30, 2016</u>	MEMBERS ALSO) PRESENT	AS OF JUNE	30, 2015	JUNE 30, 2	015 MEMBERS A	LSO PRESEN	T AS OF JUNE	30, 2016 44.8
1	М	U <u>NE 30, 2016</u> 4	MEMBERS ALSO 361,025) PRESENT 90,256	AS OF JUNE 70.5	30, 2015 45.8	JUNE 30, 2	015 MEMBERS A 351,181	LSO PRESEN' 87,795	<u>r as of june</u> 69.5	30, 2016 44. 0.
1 1 2	М	U <u>NE 30, 2016</u> 4 0	MEMBERS ALSO 361,025 0	<u>) PRESENT</u> 90,256 0	AS OF JUNE 70.5 0.0	3 0, 2015 45.8 0.0	<u>JUNE 30, 2</u> 4 0	015 MEMBERS A 351,181 0	L <u>SO PRESEN</u> 87,795 0	<u>T AS OF JUNE</u> 69.5 0.0	30, 2016 44.8 0.1 44.8
1 1	M F	U <u>NE 30, 2016</u> 4 0 4	MEMBERS ALS(361,025 0 361,025 407,907 0	90,256 0 90,256 101,977 0	AS OF JUNE 70.5 0.0 70.5 66.0 0.0	3 0, 2015 45.8 0.0 45.8	JUNE 30, 2 4 0 4	015 MEMBERS A 351,181 0 351,181	LSO PRESEN 87,795 0 87,795 100,901 0	<u>Г AS OF JUNE</u> 69.5 0.0 69.5	30, 2016 44.8 0.0 44.3 41.8
1 1 2	M F M	U <u>NE 30, 2016</u> 4 0 4	MEMBERS ALS(361,025 0 361,025 407,907	90,256 90,256 90,256 101,977	AS OF JUNE 70.5 0.0 70.5 66.0	45.8 0.0 45.8 45.8	<u>JUNE 30, 2</u> 4 0 4	015 MEMBERS A 351,181 0 351,181 403,602	LSO PRESEN 87,795 0 87,795 100,901	T AS OF JUNE 69.5 0.0 69.5 65.0	30, 2016 44.3 0.0 44.3 41.3 0.0
1 1 2	M F M F	U <u>NE 30, 2016</u> 4 0 4 4 0	MEMBERS ALS(361,025 0 361,025 407,907 0	90,256 0 90,256 101,977 0	AS OF JUNE 70.5 0.0 70.5 66.0 0.0 66.0 44.7	45.8 0.0 45.8 42.8 0.0 42.8 14.6	JUNE 30, 2 4 0 4 4 0	015 MEMBERS A 351,181 0 351,181 403,602 0 403,602 541,057,382	87,795 0 87,795 100,901 0 100,901 97,085	<u>r AS OF JUNE</u> 69.5 0.0 69.5 65.0 0.0	30, 2016 44. 0.0 44. 41. 0. 41.
1 1 2 2	M F M F	U <u>NE 30, 2016</u> 4 0 4 4 0 4	MEMBERS ALSO 361,025 0 361,025 407,907 0 407,907	90,256 0 90,256 101,977 0 101,977	AS OF JUNE 70.5 0.0 70.5 66.0 0.0 66.0	45.8 0.0 45.8 42.8 0.0 42.8	JUNE 30, 2 4 0 4 4 0 4	015 MEMBERS A 351,181 0 351,181 403,602 0 403,602	LSO PRESEN 87,795 0 87,795 100,901 0 100,901	F AS OF JUNE 69.5 0.0 69.5 65.0 0.0 65.0	30, 2016 44.8 0.0 44.8 41.8 0.0 41.8 13.0
1 1 2 2 4	M F M F	U <u>NE 30, 2016</u> 4 0 4 4 0 4 5,573	MEMBERS ALSO 361,025 0 361,025 407,907 0 407,907 559,072,940	90,256 0 90,256 101,977 0 101,977 100,318	AS OF JUNE 70.5 0.0 70.5 66.0 0.0 66.0 44.7	45.8 0.0 45.8 42.8 0.0 42.8 14.6	JUNE 30, 2 4 0 4 4 4 4 4 5,573	015 MEMBERS A 351,181 0 351,181 403,602 0 403,602 541,057,382	87,795 0 87,795 100,901 0 100,901 97,085	<u>T AS OF JUNE</u> 69.5 0.0 69.5 65.0 0.0 65.0 43.7	30, 2016 44.8 0.0 44.8 41.8 0.0 41.8 13.0 13.3
1 1 2 2 4 4 4	M F M F F	U <u>NE 30, 2016</u> 4 0 4 4 5,573 153 5,726 1,093	MEMBERS ALS(361,025 0 361,025 407,907 0 407,907 559,072,940 14,649,046 573,721,986 64,256,230	90,256 0 90,256 101,977 0 101,977 100,318 95,745	AS OF JUNE 70.5 0.0 70.5 66.0 0.0 66.0 44.7 45.8	45.8 0.0 45.8 42.8 0.0 42.8 14.6 14.5 14.6 3.0	JUNE 30, 2 4 0 4 4 5,573 5,573 5,726 1,093	015 MEMBERS A 351,181 0 351,181 403,602 0 403,602 541,057,382 14,100,969 555,158,351 56,744,933	LSO PRESEN 87,795 100,901 0 100,901 97,085 92,163 96,954 51,917	<u>T AS OF JUNE</u> 69.5 0.0 69.5 65.0 0.0 65.0 43.7 44.8	44.8 0.0 44.8 41.8 13.6 13.5 13.6
1 1 2 2 4 4	M F M F F	U <u>NE 30, 2016</u> 4 0 4 4 5,573 153 5,726 1,093 29	MEMBERS ALSO 361,025 0 361,025 407,907 0 407,907 559,072,940 14,649,046 573,721,986 64,256,230 1,601,826	90,256 0 90,256 101,977 100,318 95,745 100,196 58,789 55,235	AS OF JUNE 70.5 0.0 70.5 66.0 0.0 66.0 44.7 45.8 44.7 36.6 38.3	45.8 0.0 45.8 42.8 0.0 42.8 14.6 14.5 14.6 3.0 2.8	<u>JUNE 30, 2</u> 4 0 4 4 5,573 153 5,726 1,093 29	015 MEMBERS A 351,181 0 351,181 403,602 0 403,602 541,057,382 14,100,969 555,158,351 56,744,933 1,403,692	87,795 0 87,795 100,901 0 100,901 97,085 92,163 96,954 51,917 48,403	F AS OF JUNE 69.5 0.0 69.5 65.0 0.0 65.0 43.7 44.8 43.7 35.6 37.3	30, 2016 44.8 0.0 44.8 41.8 0.0 41.8 13.6 13.5 13.6 2.0 1.8
1 1 2 2 4 4 4	M F M F F	U <u>NE 30, 2016</u> 4 0 4 4 5,573 153 5,726 1,093	MEMBERS ALS(361,025 0 361,025 407,907 0 407,907 559,072,940 14,649,046 573,721,986 64,256,230	90,256 0 90,256 101,977 0 101,977 100,318 95,745 100,196 58,789	AS OF JUNE 70.5 0.0 70.5 66.0 0.0 66.0 44.7 45.8 44.7 36.6	45.8 0.0 45.8 42.8 0.0 42.8 14.6 14.5 14.6 3.0	JUNE 30, 2 4 0 4 4 5,573 5,573 5,726 1,093	015 MEMBERS A 351,181 0 351,181 403,602 0 403,602 541,057,382 14,100,969 555,158,351 56,744,933	LSO PRESEN 87,795 100,901 0 100,901 97,085 92,163 96,954 51,917	T AS OF JUNE 69.5 0.0 69.5 65.0 0.0 65.0 43.7 44.8 43.7 35.6	30, 2016 44.8 0. 44.8 41.8 0. 41.8 13.6 13.5 13.6 2.0

Table XIII-7 Detailed Reconciliation of Active Membership (cont'd)

			ADDITIONS DU	IRING THE Y	EAR *		SEPARATIONS FROM MEMBERSHIP DURING THE YEAR *					
1	М	0	0	0	0.0	0.0	1	116,654	116,654	66.0	42.0	
1	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0	
		0	0	0	0.0	0.0	1	116,654	116,654	66.0	42.0	
2	М	1	89,837	89,837	61.0	1.0	0	0	0	0.0	0.0	
2	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0	
		1	89,837	89,837	61.0	1.0	0	0	0	0.0	0.0	
4	М	35	1,853,554	52,959	38.1	6.7	343	35,452,967	103,361	51.5	21.3	
4	F	5	245,291	49,058	38.0	9.0	13	1,377,224	105,940	53.9	20.1	
		40	2,098,845	52,471	38.1	7.0	356	36,830,191	103,456	51.6	21.2	
6	М	425	20,541,274	48,332	36.1	2.5	38	1,873,498	49,303	34.8	1.6	
6	F	16	767,152	47,947	36.8	2.1	1	51,644	51,644	37.0	1.0	
		441	21,308,426	48,318	36.1	2.5	39	1,925,142	49,363	34.9	1.6	
ALL		482	23,497,108	48,749	36.3	2.9	396	38,871,987	98,162	50.0	19.3	

Note: Age is nearest birthday. Service is nearest year.
 * Separations and additions do not include members who joined after June 30, 2015 and are no longer members on June 30, 2016.

Table XIII-7								
Detailed Reconciliation of Active Membership (cont'd)								

		TOTA	L ACTIVE MEME	BERS AS OF	JUNE 30, 2	016	T0	TAL ACTIVE MEN	IBERS AS OF	JUNE 30, 201	5
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SV(
1	М	1	110,866	110,866	65.0	44.0	2	216,684	108,342	66.5	44.0
1	F	1	111,403	111,403	66.0	43.0	1	112,715	112,715	65.0	42.0
		2	222,269	111,135	65.5	43.5	3	329,399	109,800	66.0	43.3
2	М	0	0	0	0.0	0.0	0	0	0	0.0	0.0
2	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0
		0	0	0	0.0	0.0	0	0	0	0.0	0.0
4	М	3,416	336,560,171	98,525	44.4	14.0	3,718	371,410,719	99,895	44.2	13.9
4	F	3,095	302,177,481	97,634	43.2	13.6	3,293	325,242,455	98,768	43.0	13.4
		6,511	638,737,652	98,101	43.9	13.8	7,011	696,653,174	99,366	43.7	13.7
6	М	1,468	76,645,447	52,211	33.0	1.9	938	47,993,721	51,166	33.2	1.7
6	F	834	43,528,326	52,192	33.1	1.9	514	26,245,128	51,061	33.3	1.7
		2,302	120,173,773	52,204	33.1	1.9	1,452	74,238,849	51,129	33.2	1.7
ALL		8,815	759,133,694	86,118	41.0	10.7	8,466	771,221,422	91,096	41.9	11.6
	JU	NE 30, 2016	MEMBERS ALSO	PRESENT	AS OF JUNE	30, 2015	_ JUNE 30, 2	015 MEMBERS A	LSO PRESEN	T AS OF JUNE	30, 201
1	М	1	110,866	110,866	65.0	44.0	1	111,981	111,981	64.0	43.
1	F	1	111,403	111,403	66.0	44.0	1	112,715	112,715	65.0	43.0
-	•	2	222,269	111,135	65.5	43.5	2	224,696	112,348	64.5	42.5
2	М	0	0	0	0.0	0.0	0	0	0	0.0	0.0
2	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0

99,128

98,039

98,612

51,439

51,344

51,405 90,643 43.6

42.5

43.1

33.4

33.4

33.4

41.5

13.2

12.8

13.0

1.8

1.7

1.8 **11.1**

			ADDITIONS DU	JRING THE Y	'EAR *		SEPARA	TIONS FROM ME	MBERSHIP DU	IRING THE YI	EAR *
1	М	0	0	0	0.0	0.0	1	104,703	104,703	69.0	45.0
1	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0
		0	0	0	0.0	0.0	1	104,703	104,703	69.0	45.0
2	М	0	0	0	0.0	0.0	0	0	0	0.0	0.0
2	F	0	0	0	0.0	0.0	0	0	0	0.0	0.0
		0	0	0	0.0	0.0	0	0	0	0.0	0.0
4	М	100	5,414,029	54,140	37.8	7.9	402	42,702,938	106,226	49.1	19.7
4	F	109	5,831,781	53,503	35.7	8.0	307	32,496,656	105,852	48.2	19.2
		209	11,245,810	53,808	36.7	7.9	709	75,199,594	106,064	48.7	19.5
6	М	647	30,364,664	46,931	31.3	0.7	117	5,762,182	49,249	31.9	1.3
6	F	374	17,635,602	47,154	31.4	0.8	54	2,626,831	48,645	32.4	1.2
		1,021	48,000,266	47,013	31.4	0.8	171	8,389,013	49,059	32.0	1.3
ALL		1,230	59,246,076	48,168	32.3	2.0	881	83,693,310	94,998	45.5	16.0

Note: Age is nearest birthday. Service is nearest year.

4

4

6

6

ALL

М

F

М

F

3,316

2,986

6,302

821

460

1,281

7,585

331,146,142

296,345,700

627,491,842

46,280,783

25,892,724

72,173,507 699,887,618 99,863

99,245

99,570

56,371

56,289

56,342 92,273 44.6

43.5

44.1

34.4

34.4

34.4 42.5 14.2

13.8

14.0

2.8

2.7

2.8

12.1

3,316

2,986

6,302

821

460

1,281

7,585

328,707,781

292,745,799

621,453,580

42,231,539

23,618,297

65,849,836 687,528,112

Table XIII-7Detailed Reconciliation of Active Membership (cont'd)

		TO	TAL ACTIVE MEMBE	RS AS OF JU		ther New York		TAL ACTIVE MEMBER	S AS OF JUNE	2 30, 2015	
TIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVO
1	М	140	13,048,888	93,206	71.4	44.3	174	15,763,248	90,593	70.3	43.0
1	F	161	11,431,074	71,000	69.3	43.5	200	13,953,609	69,768	68.4	42.8
		301	24,479,962	81,329	70.3	43.8	374	29,716,857	79,457	69.3	42.9
2	М	131	11,034,263	84,231	58.6	29.4	154	12,702,367	82,483	58.7	29.9
2	F	141	9,686,885	68,701	60.5	33.1	165	11,031,513	66,858	59.9	33.2
		272	20,721,148	76,181	59.6	31.3	319	23,733,880	74,401	59.3	31.9
4	М	29,931	2,303,434,984	76,958	50.8	15.1	32,092	2,365,798,821	73,719	50.0	14.
4	F	35,390	2,228,638,719	62,974	49.8	14.9	37,610	2,263,996,900	60,197	49.0	14.1
		65,321	4,532,073,703	69,382	50.3	15.0	69,702	4,629,795,721	66,423	49.5	14.2
6	М	8,663	478,447,900	55,229	37.2	1.8	6,509	331,682,589	50,958	36.4	1.4
6	F	8,045	410,042,653	50,969	37.7	1.7	5,919	279,179,597	47,167	36.8	1.4
		16,708	888,490,553	53,178	37.4	1.8	12,428	610,862,186	49,152	36.6	1.4
ALL		82,602	5,465,765,366	66,170	47.8	12.5	82,823	5,294,108,644	63,921	47.7	12.5
		JUNE 30, 2	2016 MEMBERS ALS	50 PRESENT	AS OF JUNI	E 30, 2015	JUNE 30, 2	015 MEMBERS ALSO	PRESENT AS	OF JUNE 30,	2016
1	М	140	13,048,888	93,206	71.4	44.3	140	12,468,566	89,061	70.4	43.3
1	F	161	11,431,074	71,000	69.3	43.4	161	11,122,058	69,081	68.3	42.4
		301	24,479,962	81,329	70.3	43.8	301	23,590,624	78,374	69.3	42.8
2	М	129	10,922,793	84,673	59.1	29.8	129	10,473,684	81,191	58.1	28.9
2	F	132	9,218,670	69,838	60.9	34.3	132	8,863,985	67,151	59.9	33.0
		261	20,141,463	77,170	60.0	32.1	261	19,337,669	74,091	59.0	31.3
4	М	29,580	2,281,430,586	77,127	50.8	15.2	29,580	2,186,235,480	73,909	49.8	14.2
4	F	34,589	2,185,324,243	63,180	50.0	15.1	34,589	2,086,054,704	60,310	49.0	14.1
		64,169	4,466,754,829	69,609	50.4	15.1	64,169	4,272,290,184	66,579	49.4	14.3
6	М	5,718	329,009,688	57,539	37.7	2.4	5,718	292,933,514	51,230	36.7	1.4
6	F	5,135	268,548,585	52,298	38.2	2.4	5,135	241,584,306	47,047	37.2	1.4
		10,853	597,558,273	55,059	37.9	2.4	10,853	534,517,820	49,251	36.9	1.4
ALL		75,584	5,108,934,527	67,593	48.7	13.5	75,584	4,849,736,297	64,164	47.7	12.5
			ADDITIONS DU	RING THE YE	EAR *		SEPARA	TIONS FROM MEMBE	RSHIP DURI	NG THE YEA	R *
1	М	0	0	0	0.0	0.0	34	3,294,682	96,902	70.1	41.8
1	F	0	0 0	0	0.0 0.0	0.0 0.0	39 73	2,831,551 6,126,233	72,604 83,921	68.9 69.5	44.4 43.2
		0	0	0	0.0	0.0	/3	0,120,233	83,921	09.5	43.
2	М	2	111,470	55,735	28.5	4.5	25	2,228,683	89,147	61.5	35.
2	F	9	468,215	52,024	53.3	15.7	33	2,167,528	65,683	59.9	34.2
		11	579,685	52,699	48.8	13.6	58	4,396,211	75,797	60.6	34.

ALL		7,018	356,830,839	50,845	37.9	2.0	7,239	444,372,347	61,386	47.5
		5,855	290,932,280	49,690	36.5	0.6	1,575	76,344,366	48,473	34.2
6	F	2,910	141,494,068	48,623	36.8	0.6	784	37,595,291	47,953	34.3
6	М	2,945	149,438,212	50,743	36.2	0.6	791	38,749,075	48,987	34.2
		1,152	65,318,874	56,700	45.2	9.0	5,533	357,505,537	64,613	50.9
4	F	801	43,314,476	54,076	44.5	8.9	3,021	177,942,196	58,902	49.7
4	М	351	22,004,398	62,691	46.7	9.3	2,512	179,563,341	71,482	52.2

15.9 13.9

14.8

1.4

1.3

1.3

12.3

Note: Age is nearest birthday. Service is nearest year.

Table XIII-7Detailed Reconciliation of Active Membership (cont'd)

		ТОТ	AL ACTIVE MEMB	ERS AS OF	JUNE 30, 20	16	T0	TAL ACTIVE MEME	BERS AS OF JU	JNE 30, 201	5
FIER	GENDER	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SVC	NUMBER	SALARY	AVG SAL	AVG AGE	AVG SV
1	М	229	20,994,336	91,678	71.3	44.0	275	24,552,333	89,281	70.2	43.
1	F	219	15,753,977	71,936	69.5	43.0	273	19,366,089	70,679	68.5	42.
1	1	448	36,748,313	82,027	70.4	43.5	549	43,918,422	79,997	69.3	42.
2	М	197	16,626,988	84,401	61.2	32.1	237	19,664,984	82,975	61.0	32.
2	F	194	13,663,169	70,429	62.1	34.7	235	16,096,032	68,494	61.5	35.
		391	30,290,157	77,468	61.7	33.4	472	35,761,016	75,765	61.2	33.
4	М	80,267	6,505,154,566	81,044	50.6	15.7	85,268	6,714,676,683	78,748	50.0	15
4	F	67,803	4,526,925,103	66,766	50.1	14.5	71,893	4,628,549,356	64,381	49.4	13.
		148,070	11,032,079,669	74,506	50.4	15.2	157,161	11,343,226,039	72,176	49.7	14.
6	М	21,402	1,285,024,221	60,042	38.4	1.9	16,305	914,612,428	56,094	37.7	1.
	F	15,170	832,396,995	54,871	38.2	1.8	11,271	579,948,623	51,455	37.4	1.
6	г			55.005	38.3	1.9	27,576	1,494,561,051	54,198	37.6	1.
6	F	36,572	2,117,421,216	57,897	50.5						
-		185,481	13,216,539,355	71,255	48.1	12.6	185,758	12,917,466,528	69,539	48.0 AS OF JUNE	
ALL	J	185,481 U <u>NE 30, 201</u>	13,216,539,355 6 MEMBERS ALSO	71,255 PRESENT	48.1 AS OF JUNE	12.6 : 30, 2015	185,758 JUNE 30, 2	12,917,466,528 015 MEMBERS AL:	69,539 50 PRESENT	AS OF JUNE	30, 201
ALL	J	185,481 UNE 30, 201 228	13,216,539,355 6 MEMBERS ALSO 20,903,171	71,255 PRESENT 91,681	48.1 AS OF JUNE 71.4	12.6 : 30, 2015 44.2	185,758 JUNE 30, 2 228	12,917,466,528 015 MEMBERS AL 20,157,554	69,539 SO PRESENT 88,410	AS OF JUNE 70.4	30, 201 43
ALL	J	185,481 UNE 30, 201 228 219	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977	71,255 PRESENT 91,681 71,936	48.1 AS OF JUNE 71.4 69.5	12.6 : 30, 2015 44.2 43.0	185,758 JUNE 30, 2 228 219	12,917,466,528 015 MEMBERS AL 20,157,554 15,337,960	69,539 SO PRESENT 88,410 70,036	AS OF JUNE 70.4 68.5	30, 201 43 42
1 1	J	185,481 UNE 30, 201 228	13,216,539,355 6 MEMBERS ALSO 20,903,171	71,255 PRESENT 91,681	48.1 AS OF JUNE 71.4	12.6 : 30, 2015 44.2	185,758 JUNE 30, 2 228	12,917,466,528 015 MEMBERS AL 20,157,554	69,539 SO PRESENT 88,410	AS OF JUNE 70.4	30, 201 43 42
1 1	J	185,481 UNE 30, 201 228 219	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977	71,255 PRESENT 91,681 71,936	48.1 AS OF JUNE 71.4 69.5	12.6 : 30, 2015 44.2 43.0	185,758 JUNE 30, 2 228 219	12,917,466,528 015 MEMBERS AL 20,157,554 15,337,960	69,539 SO PRESENT 88,410 70,036	AS OF JUNE 70.4 68.5	30, 201 43. 42. 42.
1 1	J M F	185,481 U <u>NE 30, 201</u> 228 219 447 194 185	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148	71,255 PRESENT 91,681 71,936 82,007	48.1 AS OF JUNE 71.4 69.5 70.4	12.6 30, 2015 44.2 43.0 43.6 32.5 35.6	185,758 JUNE 30, 2 228 219 447 194 185	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514	69,539 SO PRESENT 88,410 70,036 79,408	AS OF JUNE 70.4 68.5 69.4 60.6 61.5	30, 201 43 42 42 31. 34
1 1 2	J M F M	185,481 UNE 30, 201 228 219 447 194	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681	71,255 PRESENT 91,681 71,936 82,007 84,668	48.1 AS OF JUNE 71.4 69.5 70.4 61.6	12.6 30, 2015 44.2 43.0 43.6 32.5	185,758 JUNE 30, 2 228 219 447 194	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073	69,539 SO PRESENT 88,410 70,036 79,408 81,768	AS OF JUNE 70.4 68.5 69.4 60.6	30, 201 43 42 42 31 34
1 1 1 2 2 4	J M F M F	185,481 UNE 30, 201 228 219 447 194 185 379 78,963	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7	30, 201 43 42 42 31 34 33 14
1 1 1 2 2	J M F M F	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2	30, 201 43 42 42 31 34 33 14 13
1 1 1 2 2 4	J M F M F	185,481 UNE 30, 201 228 219 447 194 185 379 78,963	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7	30, 201 43 42 42 31 34 33 14 13
1 1 1 2 2 4 4 4 6	J M F M F M F M	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021 144,984 14,748	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612 10,838,991,164 919,673,115	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979 74,760 62,359	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2 50.5 38.9	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7 15.3 2.5	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021 144,984 14,748	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402 10,471,498,754 830,534,654	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393 72,225 56,315	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2 49.5 37.9	30, 201 43. 42. 42. 31. 34. 33. 14. 13. 14. 14.
1 1 1 2 2 4 4	J M F M F M F	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612 10,838,991,164 919,673,115 548,784,361	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979 74,760 62,359 56,130	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2 50.5 38.9 38.7	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7 15.3 2.5 2.4	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402 10,471,498,754 830,534,654 500,974,676	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393 72,225 56,315 51,240	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2 49.5 37.9 37.7	43. 42. 42. 31. 34. 33. 14. 13. 14. 1. 1.
1 1 1 2 2 4 4 4 4 6 6	J M F M F M F M	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777 24,525	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612 10,838,991,164 919,673,115 548,784,361 1,468,457,476	71,255 9 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979 74,760 62,359 56,130 59,876	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2 50.5 38.9 38.7 38.8	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7 15.3 2.5 2.4 2.4 2.4	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777 24,525	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402 10,471,498,754 830,534,654 500,974,676 1,331,509,330	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393 72,225 56,315 51,240 54,292	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2 49.5 37.9 37.7 37.8	30, 2010 43. 42. 42. 31. 34. 33. 14. 13. 14. 1. 1. 1.
ALL 1 1 2	J M F M	185,481 U <u>NE 30, 201</u> 228 219 447 194 185	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954		71,255 PRESENT 91,681 71,936 82,007 84,668 71,324	71,255 48.1 PRESENT AS OF JUNE 91,681 71.4 71,936 69.5 82,007 70.4 84,668 61.6 71,324 62.5	71,255 48.1 12.6 PRESENT AS OF JUNE 30, 2015 91,681 71.4 44.2 71,936 69.5 43.0 82,007 70.4 43.6 84,668 61.6 32.5 71,324 62.5 35.6	71,255 48.1 12.6 185,758 PRESENT AS OF JUNE 30, 2015 JUNE 30, 2 JUNE 30, 2 91,681 71.4 44.2 228 71,936 69.5 43.0 219 82,007 70.4 43.6 447 84,668 61.6 32.5 194 71,324 62.5 35.6 185	71,255 48.1 12.6 185,758 12,917,466,528 PRESENT AS OF JUNE 30, 2015 JUNE 30, 2015 MEMBERS AL 91,681 71.4 44.2 228 20,157,554 71,936 69.5 43.0 219 15,337,960 82,007 70.4 43.6 447 35,495,514 84,668 61.6 32.5 194 15,863,073 71,324 62.5 35.6 185 12,735,123	PRESENT AS OF JUNE 30, 2015 JUNE 30, 2015 MEMBERS ALSO PRESENT 91,681 71.4 44.2 228 20,157,554 88,410 71,936 69.5 43.0 219 15,337,960 70,036 82,007 70.4 43.6 447 35,495,514 79,408 84,668 61.6 32.5 194 15,863,073 81,768 71,324 62.5 35.6 185 12,735,123 68,839	PRESENT AS OF JUNE 30, 2015 JUNE 30, 2015 MEMBERS ALSO PRESENT AS OF JUNE 91,681 71.4 44.2 228 20,157,554 88,410 70.4 71,936 69.5 43.0 219 15,337,960 70,036 68.5 82,007 70.4 43.6 447 35,495,514 79,408 69.4 84,668 61.6 32.5 194 15,863,073 81,768 60.6 71,324 62.5 35.6 185 12,735,123 68,839 61.5
1 1 1 2 2 4 4	J M F M F M F	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021 144,984	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612 10,838,991,164	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979 74,760	48.1 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2 50.5	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7 15.3	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021 144,984	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402 10,471,498,754	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393 72,225	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2 49.5	30, 20
1 1 1 2 2 4 4 4 6	J M F M F M F M	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021 144,984 14,748	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612 10,838,991,164 919,673,115	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979 74,760 62,359	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2 50.5 38.9	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7 15.3 2.5	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021 144,984 14,748	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402 10,471,498,754 830,534,654	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393 72,225 56,315	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2 49.5 37.9	30, 201 4: 4: 4: 3: 3: 3: 3: 1: 1: 1:
1 1 1 2 2 4 4 4 6	J M F M F M F M	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612 10,838,991,164 919,673,115 548,784,361	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979 74,760 62,359 56,130	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2 50.5 38.9 38.7	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7 15.3 2.5 2.4	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402 10,471,498,754 830,534,654 500,974,676	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393 72,225 56,315 51,240	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2 49.5 37.9 37.7	30, 201 43 42 42 31 34 33 14 13 14 13 14 1
1 1 1 2 2 4 4 4 6	J M F M F M F M	185,481 UNE 30, 201 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777 24,525	13,216,539,355 6 MEMBERS ALSO 20,903,171 15,753,977 36,657,148 16,425,681 13,194,954 29,620,635 6,416,961,552 4,422,029,612 10,838,991,164 919,673,115 548,784,361	71,255 PRESENT 91,681 71,936 82,007 84,668 71,324 78,155 81,265 66,979 74,760 62,359 56,130	48.1 AS OF JUNE 71.4 69.5 70.4 61.6 62.5 62.0 50.7 50.2 50.5 38.9 38.7	12.6 30,2015 44.2 43.0 43.6 32.5 35.6 34.0 15.8 14.7 15.3 2.5 2.4	185,758 JUNE 30, 2 228 219 447 194 185 379 78,963 66,021 144,984 14,748 9,777 24,525	12,917,466,528 015 MEMBERS AL: 20,157,554 15,337,960 35,495,514 15,863,073 12,735,123 28,598,196 6,220,217,352 4,251,281,402 10,471,498,754 830,534,654 500,974,676	69,539 SO PRESENT 88,410 70,036 79,408 81,768 68,839 75,457 78,774 64,393 72,225 56,315 51,240	AS OF JUNE 70.4 68.5 69.4 60.6 61.5 61.0 49.7 49.2 49.5 37.9 37.7	30, 201 43 42 42 31 34 33 14 13 14 13 14 1

			ADDITIONS DU	RING THE Y	EAR *		SEPARA	ATIONS FROM MEM	BERSHIP DUR	ING THE YE	AR *
1	М	1	91,165	91,165	66.0	4.0	47	4,394,779	93,506	69.5	42.3
-											
1	F	0	0	0	0.0	0.0	55	4,028,129	73,239	68.5	43.5
		1	91,165	91,165	66.0	4.0	102	8,422,908	82,578	69.0	42.9
2	М	3	201,307	67,102	39.3	3.3	43	3,801,911	88,417	62.7	36.4
2	F	9	468,215	52,024	53.3	15.7	50	3,360,909	67,218	61.6	35.6
		12	669,522	55,794	49.8	12.6	93	7,162,820	77,020	62.1	36.0
4	М	1,304	88,193,014	67,633	46.3	10.1	6,305	494,459,331	78,423	53.5	17.9
4	F	1,782	104,895,491	58,864	44.6	9.3	5,872	377,267,954	64,249	50.8	14.4
		3,086	193,088,505	62,569	45.3	9.6	12,177	871,727,285	71,588	52.2	16.2
6	М	6,654	365,351,106	54,907	37.4	0.7	1,557	84,077,774	54,000	35.6	1.3
6	F	5,393	283,612,634	52,589	37.2	0.7	1,494	78,973,947	52,861	35.2	1.3
		12,047	648,963,740	53,869	37.3	0.7	3,051	163,051,721	53,442	35.4	1.3
ALL		15,146	842,812,932	55,646	39.0	2.5	15,423	1,050,364,734	68,104	49.0	13.5

Note: Age is nearest birthday. Service is nearest year.

	TI	ER 1	TIE	R 2	TI	ER 4	Т	IER 6	ALL	TIERS
STATUS	NUMBER	SALARY	NUMBER	SALARY	NUMBER	SALARY	NUMBER	SALARY	NUMBER	SALARY
MALES:										
ACTIVES	229	20,994,336	197	16,626,988	80,267	6,505,154,566	21,402	1,285,024,221	102,095	7,827,800,111
INACTIVES	9	636,560	21	1,331,307	6,261	365,453,050	1,833	88,137,124	8,124	455,558,041
VESTED	9	291,528	14	633,346	4,258	220,613,159	1	129,174	4,282	221,667,207
ALL STATUS	247	21,922,424	232	18,591,641	90,786	7,091,220,775	23,236	1,373,290,519	114,501	8,505,025,359
FEMALES:										
ACTIVES	219	15,753,977	194	13,663,169	67,803	4,526,925,103	15,170	832,396,995	83,386	5,388,739,244
INACTIVES	15	948,055	9	575,744	8,083	443,760,285	1,758	86,414,444	9,865	531,698,528
VESTED	4	189,118	13	450,613	4,595	224,651,911	1	104,895	4,613	225,396,537
ALL STATUS	238	16,891,150	216	14,689,526	80,481	5,195,337,299	16,929	918,916,334	97,864	6,145,834,309
TOTAL										
TOTAL:										
ACTIVES	448	36,748,313	391	30,290,157	148,070	11,032,079,669	36,572	2,117,421,216	185,481	13,216,539,355
INACTIVES	24	1,584,615	30	1,907,051	14,344	809,213,335	3,591	174,551,568	17,989	987,256,569
VESTED	13	480,646	27	1,083,959	8,853	445,265,070	2	234,069	8,895	447,063,744
ALL STATUS	485	38,813,574	448	33,281,167	171,267	12,286,558,074	40,165	2,292,206,853	212,365	14,650,859,668

Table XIII-8Summary of Non-Pensioner Membership as of June 30, 2016

Table XIII-9Summary of Pensioner Membership

			June 30, 2016 (La	g)				June 30, 2015 (La	g)	
			Annual Amoun	its Payable				Annual Amoun	ts Payable	
Group	Number	Pensioners	Designated Annuitants	Supplementation	Supplementation Total		Pensioners	Designated Annuitants	Supplementation	Total
Service Pensioners										
	118,375	\$ 3,380,089,000	\$ 0	\$ 227,327,348	\$ 3,607,416,348	115,626	\$ 3,216,013,491	\$ 0	\$ 230,306,191	\$ 3,446,319,682
Ordinary Disability										
Pensioners	10,441	170,164,377	0	22,412,420	192,576,797	9,892	158,710,862	0	21,523,851	180,234,713
Accidental Disability Pensioners	3,928	127,687,163	0	21,367,743	149,054,906	4,429	128,661,113	0	22,650,155	151,311,268
Accidental Death Pensioners	158	5,911,361	0	435,271	6,346,632	139	3,706,480	0	447,799	4,154,279
Other Beneficiaries		190,701,673	2,974,653	30,425,612	224,101,938	14,440	182,969,770	3,075,441	31,755,349	217,800,560
Total	147,514	\$ 3,874,553,574	\$ 2,974,653	\$ 301,968,394	\$ 4,179,496,621	144,526	\$ 3,690,061,716	\$ 3,075,441	\$ 306,683,345	\$ 3,999,820,502

Distribution of Pension Benefits by Cause and Age as of June 30, 2016

		MALE			FEMALE			TOTAL	
AGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE
SERVICE RETIRE									
UNDER 30	0	0	0	0	0	0	0	0	0
30 TO 34	0	0	0	0	0	0	0	0	0
35 TO 39	0	0	0	0	0	0	0	0	0
40 TO 44	27	1,246,516	46,167	5	232,665	46,533	32	1,479,181	46,224
45 TO 49	573	27,911,471	48,711	307	14,021,388	45,672	880	41,932,859	47,651
50 TO 54	2,489	113,847,382	45,740	944	41,926,549	44,414	3,433	155,773,931	45,375
55 TO 59	5,153	218,553,231	42,413	2,257	75,752,085	33,563	7,410	294,305,316	39,717
60 TO 64	10,713	413,736,982	38,620	5,884	167,184,034	28,413	16,597	580,921,016	35,002
65 TO 69	15,376	559,647,616	36,397	10,131	277,101,120	27,352	25,507	836,748,736	32,805
70 TO 74	13,899	460,715,833	33,147	8,844	224,224,860	25,353	22,743	684,940,693	30,117
75 TO 79	10,818	324,014,502	29,951	6,634	147,684,301	22,262	17,452	471,698,803	27,028
80 TO 84	6,953	186,754,980	26,860	4,366	83,081,702	19,029	11,319	269,836,682	23,839
85 TO 89	4,454	114,934,762	25,805	3,267	56,645,017	17,339	7,721	171,579,779	22,222
90 & UP	2,511	59,328,089	23,627	2,770	38,871,263	14,033	5,281	98,199,352	18,595
TOTAL	72,966	2,480,691,364	33,998	45,409	1,126,724,984	24,813	118,375	3,607,416,348	30,474
ORDINARY DISA									
UNDER 30	0	0	0	1	16,400	16,400	1	16,400	16,400
30 TO 34	3	97,748	32,583	2	21,025	10,513	5	118,773	23,755
35 TO 39	22	544,159	24,735	17	399,171	23,481	39	943,330	24,188
40 TO 44	75	1,804,951	24,066	46	888,762	19,321	121	2,693,713	22,262
45 TO 49	271	5,942,131	21,927	184	3,188,210	17,327	455	9,130,341	20,067
50 TO 54	675	14,544,256	21,547	469	8,695,540	18,541	1,144	23,239,796	20,315
55 TO 59	1,116	23,033,567	20,639	741	12,814,681	17,294	1,857	35,848,248	19,304
60 TO 64	1,230	24,369,707	19,813	810	14,088,879	17,394	2,040	38,458,586	18,852
65 TO 69	1,309	24,870,553	19,000	656	10,198,745	15,547	1,965	35,069,298	17,847
70 TO 74	962	18,356,255	19,081	428	6,188,781	14,460	1,390	24,545,036	17,658
75 TO 79	564	10,201,482	18,088	263	3,339,537	12,698	827	13,541,019	16,374
80 TO 84	235	3,955,566	16,832	109	1,307,785	11,998	344	5,263,351	15,300
85 TO 89	137	2,184,200	15,943	42	383,297	9,126	179	2,567,497	14,344
90 & UP	46	840,762	18,277	28	300,647	10,737	74	1,141,409	15,424
TOTAL	6,645	130,745,337	19,676	3,796	61,831,460	16,289	10,441	192,576,797	18,444
ACCIDENTAL DI	SABILITY:								
UNDER 30	0	0	0	0	0	0	0	0	(
30 TO 34	15	631,503	42,100	3	114,397	38,132	18	745,900	41,439
35 TO 39	48	2,216,743	46,182	5	272,692	54,538	53	2,489,435	46,970
40 TO 44	101	5,333,638	52,808	17	657,563	38,680	118	5,991,201	50,773
45 TO 49	222	10,918,854	49,184	65	3,108,899	47,829	287	14,027,753	48,877
50 TO 54	453	20,893,783	46,123	99	3,924,042	39,637	552	24,817,825	44,960
55 TO 59	391	17,009,847	43,503	85	3,366,896	39,611	476	20,376,743	42,808
60 TO 64	431	18,072,133	41,931	58	2,215,713	38,202	489	20,287,846	41,488
65 TO 69	574	20,095,631	35,010	24	765,154	31,881	598	20,860,785	34,884
70 TO 74	560	17,254,352	30,811	30	778,906	25,964	590	18,033,258	30,565
75 TO 79	342	10,423,075	30,477	21	438,660	20,889	363	10,861,735	29,922
80 TO 84	181	5,228,123	28,885	17	280,244	16,485	198	5,508,367	27,820
85 TO 89	124	3,562,968	28,734	8	142,876	17,860	132	3,705,844	28,075
90 & UP	44	1,173,800	26,677	10	174,414	17,441	54	1,348,214	24,967
			-,,	±0		.,	5.	,,	,- 01

Distribution of Pension Benefits by Cause and Age as of June 30, 2016 (cont'd)

		MALE			FEMALE			TOTAL	
AGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE	NUMBER	BENEFITS	AVERAGE
CCIDENTAL D									
UNDER 30		0	0	0	0	0	0	0	0
30 TO 34	0	0	0	1	22,165	22,165	1	22,165	22,165
35 TO 39	0	0	0	2	49,347	24,674	2	49,347	24,674
40 TO 44	1	16,567	16,567	2	65,593	32,797	3	82,160	27,387
45 TO 49	3	138,509	46,170	9	357,674	39,742	12	496,183	41,349
50 TO 54	2	69,465	34,733	16	760,804	47,550	18	830,269	46,126
55 TO 59	0	0	0	14	605,108	43,222	14	605,108	43,222
60 TO 64	4	210,046	52,512	26	966,677	37,180	30	1,176,723	39,224
65 TO 69	6	252,813	42,136	25	1,053,798	42,152	31	1,306,611	42,149
70 TO 74	0	0	0	15	571,204	38,080	15	571,204	38,080
75 TO 79	2	113,002	56,501	14	729,372	52,098	16	842,374	52,648
80 TO 84	1	23,942	23,942	8	193,739	24,217	9	217,681	24,187
85 TO 89	0	0	0	4	113,246	28,312	4	113,246	28,312
90 & UP	0	0	0	3	33,561	11,187	3	33,561	11,187
TOTAL	19	824,344	43,387	139	5,522,288	39,729	158	6,346,632	40,169
OTHER BENEFI									
UNDER 30	0	0	0	0	0	0	0	0	0
30 TO 34	0	0	0	1	14,234	14,234	1	14,234	14,234
35 TO 39	1	9,021	9,021	4	95,028	23,757	5	104,049	20,810
40 TO 44	0	0	0	2	34,796	17,398	2	34,796	17,398
45 TO 49	1	13,647	13,647	22	457,675	20,803	23	471,322	20,492
50 TO 54	15	288,776	19,252	73	1,532,131	20,988	88	1,820,907	20,692
55 TO 59	47	1,084,867	23,082	178	4,045,354	22,727	225	5,130,221	22,801
60 TO 64	108	2,018,441	18,689	498	10,901,027	21,890	606	12,919,468	21,319
65 TO 69	213	2,759,246	12,954	976	20,366,142	20,867	1,189	23,125,388	19,449
70 TO 74	238	3,264,721	13,717	1,322	24,693,937	18,679	1,560	27,958,658	17,922
75 TO 79	225	3,076,786	13,675	1,624	28,488,260	17,542	1,849	31,565,046	17,071
80 TO 84	177	1,675,010	9,463	1,898	30,995,624	16,331	2,075	32,670,634	15,745
85 TO 89	182	1,470,188	8,078	2,219	34,493,914	15,545	2,401	35,964,102	14,979
90 & UP	336	1,925,533	5,731	4,252	50,397,580	11,853	4,588	52,323,113	11,404
TOTAL	1,543	17,586,236	11,397	13,069	206,515,702	15,802	14,612	224,101,938	15,337
LL PENSIONE	RS AND BENEF	ICIARIES:							
UNDER 30	0	0	0	1	16,400	16,400	1	16,400	16,400
30 TO 34	18	729,251	40,514	7	171,821	24,546	25	901,072	36,043
35 TO 39	71	2,769,923	39,013	28	816,238	29,151	99	3,586,161	36,224
40 TO 44	204	8,401,672	41,185	72	1,879,379	26,102	276	10,281,051	37,250
45 TO 49	1,070	44,924,612	41,986	587	21,133,846	36,003	1,657	66,058,458	39,866
50 TO 54	3,634	149,643,662	41,179	1,601	56,839,066	35,502	5,235	206,482,728	39,443
55 TO 59	6,707	259,681,512	38,718	3,275	96,584,124	29,491	9,982	356,265,636	35,691
60 TO 64	12,486	458,407,309	36,714	7,276	195,356,330	26,849	19,762	653,763,639	33,082
65 TO 69	17,478	607,625,859	34,765	11,812	309,484,959	26,201	29,290	917,110,818	31,311
70 TO 74	15,659	499,591,161	31,904	10,639	256,457,688	24,105	26,298	756,048,849	28,749
75 TO 79	11,951	347,828,847	29,105	8,556	180,680,130	21,117	20,507	528,508,977	25,772
80 TO 84	7,547	197,637,621	26,188	6,398	115,859,094	18,109	13,945	313,496,715	22,481
85 TO 89	4,897	122,152,118	24,944	5,540	91,778,350	16,566	10,437	213,930,468	20,497
90 & UP	2,937	63,268,184	21,542	7,063	89,777,465	12,711	10,437	153,045,649	15,305
TOTAL		,762,661,731	32,633		1,416,834,890	22,541		4,179,496,621	28,333

Graph XIII-11 Pensioner Average Benefits

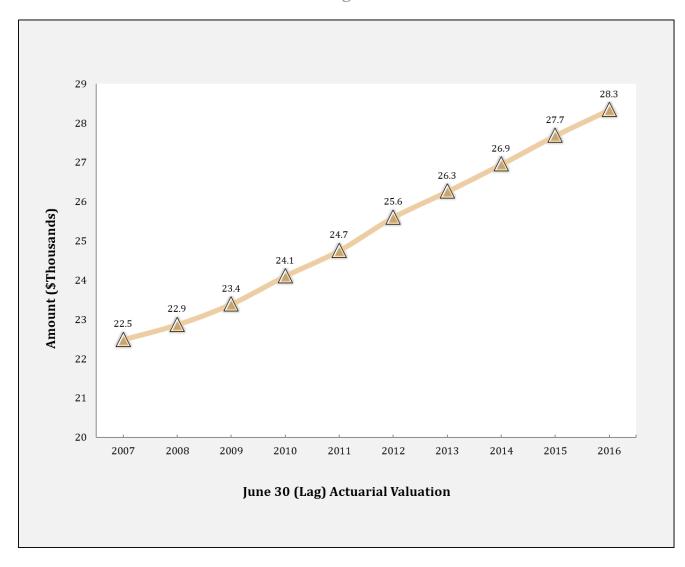


Table XIII-12Reconciliation of Pensioner and Beneficiary Data

	Add	led to Rolls	Remove	d from Rolls	End of	f Year Rolls		
(June 30 Lag) Actuarial Valuation	Number	Annual Allowances ¹	Number	Annual Allowances	Number	Annual Allowances ²	% Increase in Annual Allowances	Average Annual Allowances
2007	6,580	236,949,056	6,088	105,839,523	129,281	2,906,243,512	4.7%	22,480
2008	6,999	222,985,559	5,616	142,159,662	130,664	2,987,069,409	2.8%	22,861
2009	5,821	147,278,673	5,454	70,493,395	131,031	3,063,854,687	2.6%	23,383
2010	6,997	201,129,110	5,541	72,297,965	132,487	3,192,685,832	4.2%	24,098
2011	8,564	261,133,473	5,583	101,421,090	135,468	3,352,398,215	5.0%	24,747
2012	7,628	274,865,758	5,109	95,823,182	137,987	3,531,440,791	5.3%	25,593
2013	7,334	244,447,724	5,922	116,360,332	139,399	3,659,528,183	3.6%	26,252
2014	8,132	276,606,560	5,436	107,547,552	142,095	3,828,587,191	4.6%	26,944
2015	8,219	289,143,851	5,788	117,910,540	144,526	3,999,820,502	4.5%	27,675
2016	8,407	295,570,322	5,419	115,894,203	147,514	4,179,496,621	4.5%	28,333

¹ Amounts shown include changes due to benefit finalization, changes in benefit type (e.g. Service to Accident Disability), COLA increases, and other changes.

² Allowances shown are those used in the actuarial valuation as of the Year End date and are not adjusted for anticipated changes due to finalization of benefit calculations or contract settlements.

APPENDIX: ACRONYMS AND ABBREVIATIONS

2012 A&M 2016 A&M	Actuarial Assumptions and Methods enacted by Chapter 3/13 2012 A&M with changes proposed by the Actuary and adopted by Board
	of Trustees during Fiscal Year 2016
2019 A&M	Actuarial Assumptions and Methods proposed by the Actuary and adopted by the Board of Trustees during Fiscal Year 2019
AAVM	Actuarial Asset Valuation Method
ACCNY	Administrative Code of the City of New York
AIR	Actuarial Interest Rate
AL	Accrued Liability
AMC	Additional Member Contribution(s)
AMC-PT	Additional Member Contribution(s) for Physically-Taxing Employment
AVA	Actuarial Value of Assets
BMC	Basic Member Contribution(s)
CAFR	Comprehensive Annual Financial Report
COLA	Cost-of-Living Adjustment
EAN	Entry Age Normal cost method
EIR	Expected Investment Return
FAS	Final Average Salary
FS	Final Salary
GASB	Governmental Accounting Standards Board
GASB25	Governmental Accounting Standards Board Statement No. 25
GASB67	Governmental Accounting Standards Board Statement No. 67
GASB68	Governmental Accounting Standards Board Statement No. 68
IRC	Internal Revenue Code
MVA	Market Value of Assets
NYCERS	New York City Employees' Retirement System
OYLM	One-Year Lag Methodology
PT	Physically-Taxing Employment
PV	Present Value
PVFB	Present Value of Future Benefits
PVFNC	Present Value of Future Normal Costs
PVFS	Present Value of Future Salary
UAL	Unfunded Accrued Liability
UIR	Unexpected Investment Return
WTC	World Trade Center