

# Fiscal Year 2020 GASB 67/68 Report

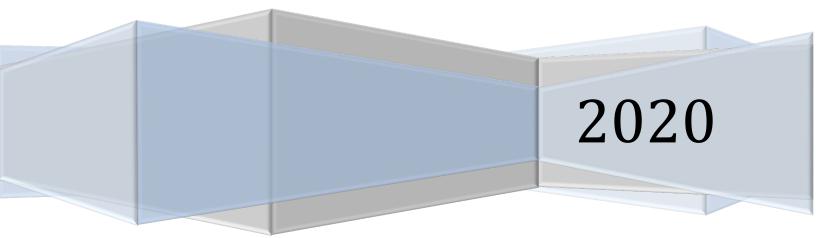
For

# The City of New York

And

# The New York City Retirement Systems

prepared by the New York City Office of the Actuary





## **OFFICE OF THE ACTUARY**

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> SHERRY S. CHAN CHIEF ACTUARY

September 25, 2020

Honorable Scott M. Stringer Comptroller The City of New York Municipal Building, Room 530 One Centre Street New York, NY 10007

Re: GASB67/68 Report for Fiscal Year Ended June 30, 2020

Dear Comptroller Stringer:

This GASB67/68 Report is for the City of New York and the New York City Retirement Systems<sup>1</sup> (NYCRS) for Fiscal Year Ended June 30, 2020 (Report).

## **Executive Summary**

- This Report presents information intended for use by the City of New York for accounting and financial reporting under Governmental Accounting Standards Board (GASB) Statement No. 68, as amended by GASB Statement No. 71 (GASB71), GASB Statement No. 73 (GASB73), GASB Statement No. 78 (GASB78), GASB Statement No. 82 (GASB 82), and GASB Statement No. 85 (GASB85) for Fiscal Year 2020.
- 2. This Report also presents information intended for use by each NYCRS for accounting and financial reporting under GASB Statement No. 67, as amended by GASB73, GASB82, and GASB85 for Fiscal Year 2020.

<sup>&</sup>lt;sup>1</sup> New York City Employees' Retirement System (NYCERS) New York City Teachers' Retirement System (TRS) New York City Board of Education Retirement System (BERS) New York City Police Pension Fund (POLICE) New York City Fire Pension Fund (FIRE)

3. The following Table provides a summary of the principal GASB67/68 results for Fiscal Year 2020 by NYCRS and in total. Detailed results including results for participating employers (Obligors), if applicable, are provided in Appendices A-E.

SUMMARY OF PRINCIPAL GASB67/68 RESULTS FOR FISCAL YEAR 2020 QUALIFIED PENSION PLAN ONLY UNLESS OTHERWISE STATED (\$ Millions)												
	NYCERS* TRS BERS POLICE* FIRE* TOTA								TOTAL			
Total Pension Liability (TPL)	\$	91,380.6	\$	75,116.0	\$	5,460.1	\$	57,268.4	\$	24,082.0	\$	253,307.1
Plan Fiduciary Net Position (PFNP)	\$	70,301.4	\$	59,319.0	\$	5,182.9	\$	46,462.9	\$	15,929.1	\$	197,195.3
Net Pension Liability (NPL)	\$	21,079.2	\$	15,797.0	\$	277.2	\$	10,805.5	\$	8,152.9	\$	56,111.8
PFNP as a % of TPL		76.9% 79.0%		79.0%	94.9%		81.1%		66.1%		77.8%	
Pension Expense	\$	3,074.9	\$	2,434.0	\$	83.5	\$	1,644.3	\$	1,249.0	\$	8,485.7

\*Includes Variable Supplements Funds (VSFs)

- 4. The portion of the New York City Off-Track Betting Corporation (OTB) that New York City has accepted the responsibility to fund is shown herein as an Obligor. It is unclear at this time whether this or any portion of OTB's pension costs, liabilities, and allocated assets are to be reported by the City.
- 5. Some of the Obligors operate on a fiscal year that is different from the City's fiscal year. Those Obligors should consult with their auditors to determine how to apply the results shown in this Report in their individual financial statements.
- 6. The results contained herein are based upon the Office of the Actuary's (OA) interpretation of GASB67, GASB68, GASB71, GASB73, GASB78, GASB82, and GASB85 in consultation with the New York City Office of the Comptroller (the Comptroller) and Grant Thornton, LLP, the City's auditors. The results are based upon an actuarial valuation date of June 30, 2019, a Measurement Date of June 30, 2020, and a Reporting Date of June 30, 2020 for Fiscal Year 2020. An actuarial valuation date of June 30, 2020 for Fiscal Year 2020. An actuarial valuation date of June 30, 2019 mere used for Fiscal Year 2019 items.
- 7. There are no changes in the actuarial assumptions and methods and no changes to any of the plan provisions since the prior year.
- 8. The results contained herein are for accounting and financial reporting purposes only. Therefore, these results are not to be relied upon for other purposes, including but not limited to, funding of the NYCRS, investment decisions, and plan design.
- 9. All costs, liabilities, and actuarial present values have been determined in accordance with generally accepted actuarial principles and procedures.

The Table of Contents, which immediately follows, outlines in more detail the contents of this report.

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,

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

**Chief Actuary** 

SSC/eh

#### cc: New York City Office of the Actuary

Mr. Craig Chu Mr. Michael Samet Keith Snow, Esq.

#### **Component Units**

Mr. Robert Balducci – Water Finance Authority
Ms. Nicole Fleming – New York City Health and Hospitals Corporation
Ms. Mary John – Housing Development Corporation
Mr. Jeffrey Lesnoy – New York City Housing Authority
Ms. Adriana Lau – City University of New York
Mr. James Linhart – New York City Health and Hospitals Corportation
Mr. Raymond Orlando – New York City Department of Education
Mr. Aaron Stern – New York City Transit Authority
Ms. Tamara Morgan – New York City Triborough Bridge and Tunnel Authority
Ms. Yi-Wen Wang – School Construction Authority
Mr. Jay Weinman – New York City Health and Hospitals Corporation

#### New York City Office of the Comptroller

Ms. Rosa Charles Mr. David Jeter Ms. Berta Lara Ms. Jaqueline Thompson Mr. Leonel Ferreira

## **Grant Thornton**

Ms. Marla Hummel Mr. Chris Mancusi

#### New York City Office of Management and Budget

Mr. John Grathwol Mr. Ken Godiner Mr. Omair Hassan

## **New York City Retirement Systems**

Mr. Charles Barkley – New York City Employees' Retirement System Ms. Sunny Bavakutty – New York City Police Pension Fund Mr. Albert Connolly – New York City Fire Pension Fund Ms. Maureen Dale – New York City Fire Pension Fund Mr. Patrick Dunn – New York City Fire Pension Fund Ms. Chun Gong – New York City Employees' Retirement System Mr. Kevin Holloran – New York City Police Pension Fund Mr. Paul Raucci – New York City Teachers' Retirement System Ms. Patricia Reilly – New York City Teachers' Retirement System Mr. Sanford Rich – New York City Board of Education Retirement System Ms. Chithra Subramaniam – New York City Board of Education Retirement System Mr. Stanley Thomas – New York City Police Pension Fund

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## SECTION I: CENSUS DATA

The census data used in the development of the GASB67/68 results contained herein is the census data used in the June 30, 2019 (Lag) actuarial valuations of the New York City Retirement Systems<sup>1</sup> (NYCRS) to determine the Preliminary Fiscal Year 2021 employer pension contributions.

The Office of the Actuary (OA) performed tests on this data and, on the basis of these tests, the Chief Actuary of the New York City Retirement Systems (the Actuary) believes the data is sufficiently complete and appropriate for developing the GASB67/68 results contained in this Report. The following Table I-1 presents a summary of the census data used in the June 30, 2019 (Lag) actuarial valuations to determine the Preliminary Fiscal Year 2021 employer pension contributions. Further detail can be found in the Comprehensive Annual Financial Report (CAFR) for each NYCRS.

Table I-1 SUMMARY OF CENSUS DATA USED IN THE JUNE 30, 2019 (LAG) ACTUARIAL VALUATIONS										
GROUP	GROUP NYCERS TRS BERS POLICE FIRE TOTAL									
Active	191,501	123,336	25,825	36,401	11,244	388,307				
Active Off Payroll	31,273	8,174	11,422	1,640	28	52,537				
Deferred Vested	21,788	13,410	2,019	497	67	37,781				
Retired	157,153	88,507	18,502	50,727	16,628	331,517				
Total	401,715	233,427	57,768	89,265	27,967	810,142				

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

The following Table I-2 presents the salaries of the active members shown in Table I-1 at June 30, 2019.

Table I-2								
SALARIES OF ACTIVE MEMBERS								
System	June 30, 2019							
NYCERS	14,981,461,175							
TRS	10,903,755,059							
BERS	1,353,266,355							
POLICE	4,244,806,289							
FIRE	1,336,843,002							
Total	32,820,131,880							

The census data used in the June 30, 2019 (Lag) actuarial valuations contains either the negotiated retroactive wage increases or an estimate of any anticipated settlements (pattern bargaining).

## **SECTION II: ASSETS**

Asset values for each NYCRS, for the Variable Supplements Funds (VSFs), and for the Tax-Deferred Annuity (TDA) Programs are prepared by the Chief Accountants of each NYCRS on the basis of information provided by the investment managers of the respective NYCRS and by the Office of the Comptroller of the City of New York (the Comptroller).

The Board of Trustees of each NYCRS establishes an overall Investment Policy and has ultimate authority for the assets of the respective NYCRS.

By statute, the Comptroller is the custodian for each NYCRS' investments and also serves as an Investment Advisor to each NYCRS' Board of Trustees.

For purposes of developing the results contained in this Report, asset information was provided to the OA by the Office of the Comptroller and each NYCRS. For all NYCRS, the Plan Fiduciary Net Positions at June 30, 2020, as well as income items and cash flow items, have been given clearance by Grant Thornton. However, certain categories of assets may be subject to revision.

The Chief Actuary for the NYCRS (the Actuary) provides to the Boards of Trustees of NYCERS, POLICE, and FIRE information related to the transfer of SKIM from each NYCRS' Qualified Pension Plan (QPP) to its respective Variable Supplements Fund(s) (VSF). A memorandum dated August 28, 2020 to Ms. Jacqueline Thompson summarizes these estimates of Fiscal Year 2020 SKIM.

These transfers reduce the Market Value of Assets (MVA) of each NYCRS' QPP and increase the MVA of the VSFs as of June 30, 2020.

The SKIM amounts were estimated by the Actuary based on information provided by the Office of the Comptroller as of June 30, 2020 and on calculations performed by the Actuary for Fiscal Year 2020.

## SECTION III: ACTUARIAL ASSUMPTIONS AND METHODS

As described in item 7 of the Executive Summary, the actuarial assumptions and methods used to value the NYCRS are unchanged from those used in the prior year and are provided in the following five reports:

- 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.
- 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 Teachers' Retirement System.
- 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 Board of Education Retirement System.
- Proposed Changes in Actuarial Assumptions and Methods Used in Determining Employer Contributions for Fiscal Year Beginning on and after July 1, 2018 for the New York City Police Pension Fund.
- 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 Fire Pension Fund.

These reports are available on the OA website (<u>www.nyc.gov/actuary</u>) under the Reports tab.

## **Actuarial Asset Valuation Method**

The Plan Fiduciary Net Positions are based on the Market Values of Assets at the Measurement Dates with certain adjustments made to reflect the Actuary's understanding of the accruals within and the transfers between the QPP and the VSFs for NYCERS, POLICE, and FIRE.

## **Actuarial Cost Method**

The Entry Age Normal cost method, as set forth in Paragraph 46 of GASB67 and Paragraph 32 of GASB68, is used to determine the results contained in this Report.

## **Discount Rate**

The discount rate used to measure the Total Pension Liability (TPL) was 7.0% per annum. The projection of cash flows used to determine the discount rate assumed that each participating employer (Obligor) would contribute the actuarially-determined contribution each year. On this basis, the Plan Fiduciary Net Position (PFNP) of each NYCRS was projected to be sufficient to pay all benefits when due.

For all of the VSFs, liabilities are also discounted at 7.0% per annum, consistent with the assumptions and methodology used to determine employer contributions.

Additionally, in TRS and in BERS, Variable Fund liabilities have been developed consistent with Variable Fund investment earnings for Fiscal Years 2019 and 2020.

## Long-Term Expected Rate of Return

The Long-Term Expected Rate of Return (LTEROR) on the investments of the NYCRS was determined using a Building-Block method.

The Building-Block methodology develops total investment return by combining expected future inflation with an expected future Real Rate of Return (RROR) on plan assets.

For purposes of GASB67/68, the target asset allocation and estimates of arithmetic RROR for each major asset class were provided by the Comptroller and are summarized in the Appendix for each respective NYCRS.

## **Liability Loads**

In developing the results of the June 30, 2019 (Lag) actuarial valuations of the NYCRS, the Actuary included adjustments for liabilities and benefit payments related to the benefits provided by the World Trade Center laws and for certain other benefits payable to members of each NYCRS, if any.

The following Table III provides a brief description of the significant assumptions used in the June 30, 2019 (Lag) actuarial valuation to determine the Preliminary Fiscal Year 2021 employer contributions:

#### Table III

### ACTUARIAL ASSUMPTIONS USED FOR DETERMINING PRELIMINARY FISCAL YEAR 2021 EMPLOYER CONTRIBUTIONS

ITEM	PRELIMINARY FISCAL YEAR 2021 EMPLOYER CONTRIBUTIONS							
Valuation Date	June 30, 2019 (Lag).							
Assumed Rate of Return on Investments	7.0% per annum, net of Investment Expenses (4.0% per annum for benefits payable under the Variable Annuity Programs of TRS and BERS).							
Post-Retirement Mortality	Tables adopted by the Boards of Trustees during Fiscal Year 2019.							
Active Service: Withdrawal, Death, Disability, and Retirement	Tables adopted by the Boards of Trustees during Fiscal Year 2019.							
World Trade Center Benefits	Estimates of Certain Obligations.							
Salary Increases	Tables adopted by the Boards of Trustees during Fiscal Year 2019. In general, Merit and Promotion Increases plus assumed General Wage Increase of 3.0% per year.							
Inflation	Consumer Price Index (CPI) of 2.5% per year.							
Assumed Cost-of-Living Adjustments	1.5% per year for Tier I, Tier II, Tier IV, and certain Tier III and Tier VI retirees. 2.5% per year for certain Tier III and Tier VI retirees.							
Liability Loads	Estimates of Certain Obligations.							

## SECTION IV: SUMMARY OF PLAN PROVISIONS

A summary of the benefits is contained in the June 30, 2018 and the June 30, 2019 Comprehensive Annual Financial Reports of each NYCRS.

## SECTION V: ROLL-FORWARD METHODOLOGY

In accordance with Paragraph 22 of GASB68, the Total Pension Liability (TPL) should be determined by:

- (a) an actuarial valuation as of the Measurement Date (i.e. June 30, 2020), or
- (b) the use of update procedures to roll forward to the Measurement Date amounts from an actuarial valuation as of a date no more than 30 months and 1 day earlier than the employer's fiscal year-end.

Actuarial valuations of the NYCRS are performed annually using a June 30, XX-2 actuarial valuation date to determine Fiscal Year XX employer contributions (e.g. June 30, 2019 (Lag) actuarial valuations are used to determine Fiscal Year 2021 employer contributions). This is referred to as One-Year Lag Methodology (OYLM).

Due to the time needed to prepare June 30, 2020 actuarial valuations, primarily related to the collection of census data, the Actuary has developed the TPL at June 30, 2020 by rolling-forward certain results of the June 30, 2019 actuarial valuations of the NYCRS that were used to determine the Preliminary Fiscal Year 2021 employer contributions.

Entry Age Normal accrued liabilities and normal costs are beginning-of-year amounts in this Report. Actual Benefit Payments are assumed to be made mid-year. Except for the Variable Funds of TRS and BERS, all roll-forward amounts assume compound interest at 7.0% per annum.

For TRS and BERS, all Fixed Fund liabilities were determined consistent with the methodology used for the other NYCRS. For TRS and BERS, Variable Fund liabilities were rolled forward using actual Variable Fund asset earnings.

The development of the TPL under the methodology described herein is shown for each NYCRS in the Appendices.

## SECTION VI: ALLOCATION METHODOLOGY

Three of the NYCRS (i.e. NYCERS, TRS, and BERS) are cost-sharing, multiple-employer public employee retirement systems. For these NYCRS, all GASB67/68 results were first determined in total as of the Measurement Date.

For each Obligor, a proportionate share of the Net Pension Liability, Pension Expense, Deferred Outflows of Resources, and Deferred Inflows of Resources (the Collective Pension Amounts) were determined in accordance with GASB68 Paragraphs 48-55 and in accordance with a February 2014 whitepaper published by the State and Local Government Expert Panel (SLGEP) of the American Institute of Certified Public Accountants (AICPA).

The Collective Pension Amounts were allocated consistent with the total employer contribution of each NYCRS. Each respective NYCRS' Appendix contains the development of the allocation percentage for each Obligor. This percentage is based on Fiscal Year 20XX employer contributions which, under OYLM, is based on a June 30, 20XX-2 actuarial valuation date (see Paragraph 50 of GASB68).

The components of Pension Expense were allocated ratably for each Obligor. Although these component allocations produce results for some Obligors that appear illogical (e.g. a Service Cost for OTB and for the VSFs of HP and TP despite there being no active members), it is the understanding of the Actuary that this methodology is permitted for purposes of determining GASB68 results and that the components (as opposed to the total) are relatively unimportant for developing the key financial reporting results.

## SECTION VII: SUBSEQUENT EVENTS

None.

## SECTION VIII: SENSITIVITY ANALYSIS

The following Table VIII presents the Net Pension Liability of each NYCRS, calculated as of the Measurement Date of June 30, 2020, using the Discount Rate of 7.0% per annum (the Current Rate). The Table also shows what each NYCRS' Net Pension Liability would be if it were calculated using a Discount Rate that is 1-percentage-point lower (i.e. 6.0% per annum) or 1-percentage-point higher (i.e. 8.0% per annum) than the Current Rate.

Table VIII SENSITIVITY ANALYSIS										
NET PENSION LIABILITY AS OF JUNE 30, 2020										
System	1% Decrease         Current Discount         1% Increa           (6.0%)         Rate (7.0%)         (8.0%)									
NYCERS	\$ 31,512,965,858	\$ 21,079,190,886	\$ 12,273,109,045							
TRS	\$ 24,391,175,064	\$ 15,797,046,676	\$ 8,601,991,520							
BERS	\$ 942,100,213	\$ 277,250,692	\$ (281,429,817)							
POLICE	\$ 17,294,228,921	\$ 10,805,573,223	\$ 5,402,936,501							
FIRE	\$ 10,807,444,130	\$ 8,152,888,372	\$ 5,922,035,279							
Total	\$ 84,947,914,186	\$ 56,111,949,849	\$ 31,918,642,528							

# **Appendix A**

## **APPENDIX A**

## NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM (NYCERS)

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#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Fiduciary Net Position June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

	June 30, 2020	June 30, 2019
ASSETS Cash	\$ 80,415	\$ 64,699
Receivables:		
Investment securities sold	1,725,083	1,177,445
Member loans	1,120,769	1,150,018
Accrued interest and dividends	359,762	338,691
Other receivables	0	0
Receivables due from NYCERS	0	0
Total receivables	\$ 3,205,614	\$ 2,666,154
Investments - at fair value		
Short-term investments:		
Commercial paper	254,826	608,362
Discount notes	0	153,810
Short-term investment fund	678,945	600,601
U.S. treasury bills and agencies	1,638,571	40,309
Debt securities:		
Bank Loans	408,691	590,699
Corporate and other	7,559,129	5,899,916
Mortgage debt securities	3,966,276	2,429,941
Treasury inflation protected securities	2,714,217	2,387,976
U.S. Government and agency	6,474,964	8,481,413
Equity securities:		
Domestic equity	21,794,066	20,979,595
International equity	11,847,317	13,129,539
Collective trust funds:		
Bank Loans	624,967	653,292
Corporate and other	14,051	0
Domestic equity	1,253	0
International equity	0	0
Mortgage debt securities	464,167	435,441
Opportunistic Fixed Income	219,577	210,496
Treasury inflation protected securities	0	736,640
U.S. Government and agency	0	0
Alternative investments:		
Infrastructure	785,629	654,868
Opportunistic Fixed Income	2,145,127	1,927,058
Private Equity	4,660,981	4,657,470
Private Real Estate	3,802,066	3,564,548
Hedge Fund	3,735	6,979
Collateral from securities lending	 6,007,306	 6,406,505
Total investments	\$ 76,065,861	\$ 74,555,459
Other assets	137,428	128,259
Total assets	\$ 79,489,318	\$ 77,414,571
LIABILITIES		
Accounts payable	126,800	464,094
Payables for investment securities purchased	3,091,164	1,406,303
Accrued benefits payable	357,557	454,936
Amount due to Variable Supplements Funds	5,051	4,581
Transferable earnings due from QPP to COVSF	8,000	153,411
Due to other retirement systems	1,052	617
Securities lending	6,007,306	6,406,505
Total liabilities	\$ 9,596,930	\$ 8,890,447
PLAN NET POSITION HELD IN TRUST FOR BENEFITS	\$ 69,892,388	\$ 68,524,124

#### VARIABLE SUPPLEMENTS FUND OF NYCERS

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Fiduciary Net Position June 30, 2020 (Dollar amounts in thousands)

	<u>COVSF</u>	H	POVSF	HP	SOVSF	T	POVSF	<u>T</u> F	SOVSF
ASSETS									
Cash	\$ 4,459	\$	37	\$	63	\$	84	\$	52
Receivables:									
Accrued interest	\$ 104	\$	0	\$	0	\$	0	\$	0
Receivables from QPP to VSFs	8,000		858		1,186		1,661		1,346
Other receivables	 0		0		0		0		0
Total receivables	\$ 8,104	\$	858	\$	1,186	\$	1,661	\$	1,346
Investments - at fair value:									
Short-term investment fund	\$ 391,147	\$	0	\$	0	\$	0	\$	0
Accrued Transfer from QPP	\$ 0	\$	0	\$	0	\$	0	\$	0
Total assets	\$ 403,710	\$	895	\$	1,249	\$	1,745	\$	1,398
LIABILITIES									
Accounts Payable	\$ 0	\$	0	\$	0	\$	22	\$	0
Accrued Benefits Payable	\$ 50,462	\$	895	\$	1,249	\$	1,723	\$	1,398
Total Liabilities	\$ 50,462	\$	895	\$	1,249	\$	1,745	\$	1,398
Plan Net Position held in Trust for Benefits	\$ 353,248	\$	0	\$	0	\$	0	\$	0

#### Statement of Fiduciary Net Position June 30, 2019 (Dollar amounts in thousands)

	COVSF	H	IPOVSF	HI	SOVSF	T	POVSF	TI	<u>PSOVSF</u>
ASSETS									
Cash	\$ 7,469	\$	215	\$	178	\$	253	\$	190
Receivables:									
Accrued interest	\$ 618	\$	0	\$	0	\$	0	\$	0
Receivables from QPP to VSFs	153,411		710		1,130		1,520		1,221
Other receivables	0		0		0		0		0
Total receivables	\$ 154,029	\$	710	\$	1,130	\$	1,520	\$	1,221
Investments - at fair value:									
Short-term investment fund	\$ 303,529	\$	0	\$	0	\$	0	\$	0
Accrued Transfer from QPP	\$ 0	\$	0	\$	0	\$	0	\$	0
Total assets	\$ 465,027	\$	925	\$	1,308	\$	1,773	\$	1,411
LIABILITIES									
Accounts Payable	\$ 0	\$	0	\$	0	\$	22	\$	0
Accrued Benefits Payable	\$ 48,799	\$	925	\$	1,308	\$	1,751	\$	1,411
Total Liabilities	\$ 48,799	\$	925	\$	1,308	\$	1,773	\$	1,411
Plan Net Position held in Trust for Benefits	\$ 416,228	\$	0	\$	0	\$	0	\$	0

## Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

## Statement of Changes in Fiduciary Net Position June 30, 2020 and June 30, 2019

(Dollar amounts in thousands)

	Ju	ıne 30, 2020	June 30, 2019			
ADDITIONS						
Contributions:						
Member Contributions	\$	563,893	\$	547,807		
Employer Contributions		3,727,558		3,692,711		
Total contributions	\$	4,291,451	\$	4,240,518		
Investment income:						
Interest income		904,771		988,963		
Dividend income		933,200		914,719		
Net appreciation (depreciation) in fair value		766,682		2,728,030		
Total investment income	\$	2,604,653	\$	4,631,712		
Less:						
Investment expenses		222,501		240,544		
Net income		2,382,152		4,391,168		
Securities lending transactions:						
Securities lending income		24,500		45,331		
Securities lending fees		2,336		4,573		
Net securities lending income		22,164		40,758		
Net investment income		2,404,316		4,431,926		
Other: Other Income		3,317		3,258		
Other Income		5,517		5,250		
Total additions	\$	6,699,084	\$	8,675,702		
DEDUCTIONS						
Benefit payments and withdrawals		5,202,251		5,152,588		
Payments to other retirement systems		9,087		9,769		
Amount transfered to Variable Supplements Funds		10,111		10,489		
Transferable earnings due from QPP to COVSF		31,704		103,411		
Administrative expenses		77,667		82,073		
Total deductions	\$	5,330,820	\$	5,358,330		
INCREASE IN PLAN NET POSITION		1,368,264		3,317,372		
PLAN NET POSITION HELD IN TRUST FOR BENEFITS:						
Beginning of year	\$	68,524,124	\$	65,206,752		
End of year	\$	69,892,388	\$	68,524,124		

#### NEW YORK CITY CORRECTION OFFICERS' VARIABLE SUPPLEMENTS FUND

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Statement of Changes in Fiduciary Net Position

June 30, 2020 (Dollar amounts in thousands)

!	<u>COVSF</u>		<u>HPOVSF</u>	<u>]</u>	<u>IPSOVSF</u>		<u>TPOVSF</u>		<u>TPSOVSF</u>
\$		\$		\$		\$		\$	0
									0
\$	5,400	\$	0	\$	0	\$	0	\$	0
	0		1,662		2,428		3,290		2,731
	31,704		NA		NA		NA		NA
	0		0		0		0		0
\$	37,104	\$	1,662	\$	2,428	\$	3,290	\$	2,731
	100,084		1,662		2,428		3,290		2,731
\$	100,084	\$	1,662	\$	2,428	\$	3,290	\$	2,731
	(62,980)		0		0		0		0
\$	416,228	\$	0	\$	0	\$	0	\$	0
\$	353,248	\$	0	\$	0	\$	0	\$	0
	\$ \$ <u>\$</u>	0       5       0         5,400       0         31,704       0         \$ 37,104       0         \$ 37,104       100,084         \$ 100,084       (62,980)         \$ 416,228	\$ 5,400 \$ \$ 5,400 \$ 0 \$ 31,704 0 \$ \$ 37,104 \$ 100,084 \$ (62,980) \$ 416,228 \$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$       5,400       \$       0       \$         \$       5,400       \$       0       \$         \$       5,400       \$       0       \$         \$       0       1,662       \$         \$       31,704       NA       0         \$       37,104       \$       1,662       \$         \$       100,084       \$       1,662       \$         \$       100,084       \$       \$       \$         \$       100,084       \$       \$       \$         \$       100,084       \$       \$       \$         \$       100,084       \$       \$       \$         \$       \$       0       \$       \$         \$       \$       0       \$       \$         \$       \$       0       \$       \$         \$       \$       0       \$       \$         \$       \$       0       \$       \$         \$       \$       0       \$       \$         \$       \$       \$       \$       \$         \$       \$       \$       \$       \$         \$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$       5,400       \$       0       \$       0       \$       0       0         \$       5,400       \$       0       \$       0       \$       0       0         \$       5,400       \$       0       \$       0       \$       0       0         \$       5,400       \$       0       \$       0       \$       0       0         \$       31,704       \$       \$       1,662       \$       2,428       \$       3,290         \$       31,704       \$       \$       1,662       \$       \$       3,290         \$       \$       37,104       \$       \$       1,662       \$       \$       3,290         \$       \$       1,662       \$       \$       2,428       \$       \$       3,290         \$       \$       1,662       \$       \$       \$       3,290       \$ <td< td=""><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td></td<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

#### Statement of Changes in Fiduciary Net Position June 30, 2019 (Dollar amounts in thousands)

	(		)			
		COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF
ADDITIONS						
Investment income:						
Interest income	\$	6,304	\$ 0	\$ 0	\$ 0	\$ 0
Net appreciation (depreciation) in fair value		0	0	0	0	0
Total investment income	\$	6,304	\$ 0	\$ 0	\$ 0	\$ 0
Reimbursement of benefit payments from QPP		0	1,722	2,522	3,446	2,799
Transferable earnings due from QPP to COVSF		103,411	NA	NA	NA	NA
Other Income		0	0	0	0	0
Total additions	\$	109,715	\$ 1,722	\$ 2,522	\$ 3,446	\$ 2,799
DEDUCTIONS						
Benefit payments and withdrawals		95,729	1,722	2,522	3,446	2,799
Total deductions	\$	95,729	\$ 1,722	\$ 2,522	\$ 3,446	\$ 2,799
INCREASE IN PLAN NET POSITION		13,986	0	0	0	0
PLAN NET POSITION HELD IN TRUST FOR BENEFITS:						
Beginning of year	\$	402,242	\$ 0	\$ 0	\$ 0	\$ 0
End of year	\$	416,228	\$ 0	\$ 0	\$ 0	\$ 0

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### **Market Values of Assets**

1. Plan Net Position @ 6/30/2018	\$	<b>QPP</b> 65,411,752,000	\$	<b>COVSF</b> 244,771,000	\$	HPOVSF 0	\$	HPSOVSF 0	\$	<b>TPOVSF</b> 0	\$	TPSOVSF 0	\$	<b>Total</b> 65,656,523,000
2. Net Accrued Benefits Payable		4,995,000		0		134,000		121,000		171,000		139,000		5,560,000
3. Accrued Transfers from NYCERS to COVSF	<u>_</u>	(205,000,000)	<b></b>	205,000,000	<b></b>	0	<b>_</b>	0	<b>_</b>	0	<u>_</u>	0	<u>_</u>	0
4. Adjusted Market Value @ 6/30/2018	\$	65,211,747,000	\$	449,771,000	\$	134,000	\$	121,000	\$	171,000	\$	139,000	\$	65,662,083,000
5. Changes for the year:														
a. ER Contributions		3,692,711,000		0		0		0		0		0		3,692,711,000
b. EE Contributions		547,807,000		0		0		0		0		0		547,807,000
c. Net Investment Income		4,431,926,000		6,304,000		0		0		0		0		4,438,230,000
d. Benefit Payments <sup>1</sup>		(5,153,002,000)		(94,459,000)		(1,641,000)		(2,465,000)		(3,364,000)		(2,748,000)		(5,257,679,000)
e. Payments to Other Retirement Systems		(9,769,000)		0		0		0		0		0		(9,769,000)
f. Transfers to Variable Supplements Funds		(10,489,000)		0		1,722,000		2,522,000		3,446,000		2,799,000		0
g. Administrative Expenses		(82,073,000)		0		0		0		0		0		(82,073,000)
h. Other		3,258,000		0		0		0		0		0		3,258,000
i. Net Changes	\$	3,420,369,000	\$	(88,155,000)	\$	81,000	\$	57,000	\$	82,000	\$	51,000	\$	3,332,485,000
6. Plan Net Position @ 6/30/2019	\$	68,627,535,000	\$	361,616,000	\$	0	\$	0	\$	0	\$	0	\$	68,989,151,000
7. Net Accrued Benefits Payable		4,581,000		0		215,000		178,000		253,000		190,000		5,417,000
8. Accrued Transfers from NYCERS to COVSF		(103,411,000)		103,411,000		0		0		0		0		0
9. Adjusted Market Value @ 6/30/2019	\$	68,528,705,000	\$	465,027,000	\$	215,000	\$	178,000	\$	253,000	\$	190,000	\$	68,994,568,000
10. Changes for the year:														
a. ER Contributions		3,727,558,000		0		0		0		0		0		3,727,558,000
b. EE Contributions		563,893,000		0		0		0		0		0		563,893,000
c. Net Investment Income		2,404,316,000		5,400,000		0		0		0		0		2,409,716,000
d. Benefit Payments <sup>2</sup>		(5,201,781,000)		(98,421,000)		(1,840,000)		(2,543,000)		(3,459,000)		(2,869,000)		(5,310,913,000)
e. Payments to Other Retirement Systems		(9,087,000)		0		0		0		0		0		(9,087,000)
f. Transfers to Variable Supplements Funds		(10,111,000)		0		1,662,000		2,428,000		3,290,000		2,731,000		0
g. Administrative Expenses		(77,667,000)		0		0		0		0		0		(77,667,000)
h. Other		3,317,000		0		0		0		0		0		3,317,000
i. Net Changes	\$	1,400,438,000	\$	(93,021,000)	\$	(178,000)	\$	(115,000)	\$	(169,000)	\$	(138,000)	\$	1,306,817,000
11. Plan Net Position @ 6/30/2020	\$	69,924,092,000	\$	372,006,000	\$	0	\$	0	\$	0	\$	0	\$	70,296,098,000
12. Net Accrued Benefits Payable		5,051,000		0		37,000		63,000		84,000		52,000		5,287,000
13. Accrued Transfers from NYCERS to COVSF		(31,704,000)		31,704,000		0		0		0		0		0
14. Adjusted Market Value @ 6/30/2020	\$	69,897,439,000	\$	403,710,000	\$	37,000	\$	63,000	\$	84,000	\$	52,000	\$	70,301,385,000

<sup>1</sup> Includes Net Accrued Benefits Payable of \$(414,000) for QPP, \$1,270,000 for COVSF, \$81,000 for HPOVSF, \$57,000 for HPSOVSF, \$82,000 for TPOVSF, and \$51,000 for TPSOVSF.

<sup>2</sup> Includes Net Accrued Benefits Payable of \$470,000 for QPP, \$1,663,000 for COVSF, \$ (178,000) for HPOVSF, \$ (115,000) for HPSOVSF, \$ (169,000) for TPOVSF, and \$ (138,000) for TPSOVSF.

## Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

## Long-Term Expected Rate of Return

The Long-Term Expected Rate of Return (LTEROR) assumption on pension fund investments was determined using a Building-Block Method in which best-estimate ranges of Expected Real Rates of Return (i.e. Expected Returns, net of pension fund investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the LTEROR by weighting the Expected Real Rates of Return (RROR) by the Target Asset Allocation percentage and by adding Expected Inflation. The Target Asset Allocation, and best estimates of Arithmetic Real Rates of Return are presented in the following table:

		Long-Term
	Target	Expected
	Asset	Real Rates
Asset Class	Allocation	<u>of Return</u>
Public Markets:		
U.S. Public Market Equities	27.0%	7.6%
Developed Public Market Equities	12.0%	7.7%
Emerging Public Market Equities	5.0%	10.6%
Fixed Income	30.5%	3.1%
Private Markets (Alternative Investments):		
Private Equity	8.0%	11.2%
Private Real Estate	7.5%	7.0%
Infrastructure	4.0%	6.8%
Opportunistic Fixed Income	6.0%	6.5%
Total	100.0%	

The Discount Rate used to measure the Total Pension Liability was 7.0% per annum. The projection of Cash Flows used to determine the Discount Rate assumes that employee contributions will be made at the rates applicable to the current Tier for each member and that employer contributions will be made at rates as determined by the Actuary. Based on those assumptions, the pension fund's Fiduciary Net Position is projected to be available to make all projected future benefit payments of current active and non-active members. Therefore, the Long-Term Expected Rate of Return on pension fund investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Development of Asset (Gain) / Loss June 30, 2019

	QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	TPSOVSF	Total
1. Assets							
a. Market Value 6/30/2018*	\$ 65,416,747,000	\$ 244,771,000	\$ 134,000	\$ 121,000	\$ 171,000	\$ 139,000	\$ 65,662,083,000
b. 2018 Accrued Transfers from NYCERS to COVSF	(205,000,000)	205,000,000	0	0	0	0	0
c. Adjusted Market Value @6/30/2018	65,211,747,000	449,771,000	134,000	121,000	171,000	139,000	65,662,083,000
d. Market Value 6/30/2019**	68,632,116,000	361,616,000	215,000	178,000	253,000	190,000	68,994,568,000
e. 2019 Accrued Transfers from NYCERS to COVSF	(103,411,000)	103,411,000	0	0	0	0	0
f. Adjusted Market Value @6/30/2019	68,528,705,000	465,027,000	215,000	178,000	253,000	190,000	68,994,568,000
2. Net Investment Income	4,431,926,000	6,304,000	0	0	0	0	4,438,230,000
3. Cash Flow (1.d 1.a 2.)	(1,216,557,000)	110,541,000	81,000	57,000	82,000	51,000	(1,105,745,000)
4. Expected Earnings (7% * 1.a. + 3.441% * 3.)	4,537,310,564	20,937,686	12,167	10,431	14,792	11,485	4,558,297,125
5. (Gain) / Loss (4 2.)	105,384,564	14,633,686	12,167	10,431	14,792	11,485	120,067,125
6. Recognition Period	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years	5 Years
7. Amount Recognized in Pension Expense (5. / 6.)	21,076,913	2,926,737	2,433	2,086	2,958	2,297	24,013,424
8. Deferred (Inflow) / Outflow of Resources (5 7.)	\$ 84,307,651	\$ 11,706,949	\$ 9,734	\$ 8,345	\$ 11,834	\$ 9,188	\$ 96,053,701

\* Before Reflecting 2018 Accrued Transfers to VSFs.

\*\* Before Reflecting 2019 Accrued Transfers to VSFs.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Development of Asset (Gain) / Loss June 30, 2020

		QPP	COVSF	HPOVSF	HPSOVSF	TPOVSF	1	TPSOVSF	Total
1. Assets									
a. Market Value 6/30/2019*	\$ 68,63	2,116,000	\$ 361,616,000	\$ 215,000	\$ 178,000	\$ 253,000	\$	190,000	\$ 68,994,568,000
b. 2019 Accrued Transfers from NYCERS to COVSF	(10	3,411,000)	103,411,000	0	0	0		0	0
c. Adjusted Market Value @6/30/2019	68,52	8,705,000	465,027,000	215,000	178,000	253,000		190,000	68,994,568,000
d. Market Value 6/30/2020**	69,92	9,143,000	372,006,000	37,000	63,000	84,000		52,000	70,301,385,000
e. 2020 Accrued Transfers from NYCERS to COVSF	(3	1,704,000)	31,704,000	0	0	0		0	0
f. Adjusted Market Value @6/30/2020	69,89	7,439,000	403,710,000	37,000	63,000	84,000		52,000	70,301,385,000
2. Net Investment Income	2,40	4,316,000	5,400,000	0	0	0		0	2,409,716,000
3. Cash Flow (1.d 1.a 2.)	(1,10	7,289,000)	4,990,000	(178,000)	(115,000)	(169,000)		(138,000)	(1,102,899,000)
4. Expected Earnings (7% * 1.a. + 3.441% * 3.)	4,76	6,146,306	25,484,826	8,925	8,503	11,895		8,551	4,791,669,006
5. (Gain) / Loss (4 2.)	2,36	1,830,306	20,084,826	8,925	8,503	11,895		8,551	2,381,953,006
6. Recognition Period		5 Years	5 Years	5 Years	5 Years	5 Years		5 Years	5 Years
7. Amount Recognized in Pension Expense (5. / 6.)	47	2,366,061	4,016,965	1,785	1,701	2,379		1,710	476,390,601
8. Deferred (Inflow) / Outflow of Resources (5 7.)	\$ 1,88	9,464,245	\$ 16,067,861	\$ 7,140	\$ 6,802	\$ 9,516	\$	6,841	\$ 1,905,562,405

\* Before Reflecting 2019 Accrued Transfers to VSFs.

\*\* Before Reflecting 2020 Accrued Transfers to VSFs.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

## **Roll-Forward of Entry Age Accrued Liabilities**<sup>1</sup>

		QPP		COVSF		HPOVSF	F HPSOVSF			TPOVSF	TPSOVSF			Total
1.	Disclosed EA Accrued Liability at 6/30/2019	\$ 86,034,568,529	\$	1,400,098,744	\$	13,554,332	\$	19,505,441	\$	27,076,919	\$	21,671,115	\$	87,516,475,080
2.	EA Normal Cost at 6/30/2019	2,017,383,484		20,315,438		0		0		0		0		2,037,698,922
3.	Benefit Payments-FY 2020	(5,201,781,000)		(98,421,000)		(1,840,000)		(2,543,000)		(3,459,000)		(2,869,000)		(5,310,913,000)
4.	Interest	5,984,643,357		96,042,326		885,489		1,277,876		1,776,360		1,418,256		6,086,043,664
5.	Experience (Gain)/Loss-FY 2020	1,050,130,886		1,822,173		(470,549)		312,057		(346,414)		(176,933)		1,051,271,220
6.	Roll-Forward EAAL at 6/30/2020	\$ 89,884,945,256	\$	1,419,857,681	\$	12,129,272	\$	18,552,374	\$	25,047,865	\$	20,043,438	\$	91,380,575,886

<sup>1</sup> VSFs liabilities are discounted at 7.0% per annum, consistent with the Assumptions and Methodology used to determine employer contributions.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Employer Allocations June 30, 2019

Employer	 2019 Employer Contributions	Employer Allocation Percentage
Transit Authority	\$ 859,328,961	23.270946554%
Transit Authority Transit Police	26,231,545	0.710359955%
Housing Authority	163,903,745	4.438574124%
Health and Hospitals Corporation	515,453,890	13.958682262%
Off - Track Betting (City)	11,791,156	0.319308872%
Off - Track Betting (State) <sup>1</sup>	11,791,156	0.319308872%
Housing Development Corporation / REMIC	2,003,454	0.054254276%
State Courts	1,357,011	0.036748361%
School Construction Authority	3,017,923	0.081726473%
Water Finance Authority	78,400	0.002123101%
Senior Colleges	45,285,139	1.226338337%
Triborough Bridge and Tunnel Authority	45,114,858	1.221727065%
City Other	 2,007,354,440	54.359901748%
Total	\$ 3,692,711,678	100.000000000%

<sup>1</sup> The actual contribution made was \$0.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source June 30, 2019

	Total Pension Liability													
		TRANSIT			HOUSING									
		Authority		TA TP	Authority	HHC	OTB (City)	OTB (State)	HDC/REMIC	State Courts				
Balances at June 30, 2018 (Revised)	\$	18,918,125,107	\$	630,688,337 \$	4,102,412,181 \$	12,616,281,727 \$	228,424,897 \$	228,424,898 \$	42,829,887 \$	34,431,909				
Changes for the Year:														
Service Cost		472,631,217		14,427,359	90,147,115	283,499,812	6,485,139	6,485,140	1,101,900	746,357				
Interest		1,358,985,405		41,483,865	259,205,505	815,164,326	18,647,118	18,647,119	3,168,361	2,146,044				
Changes of Benefit Terms		0		0	0	0	0	0	0	0				
Differences b/t Expected and Actual Experience		431,088,461		13,159,240	82,223,475	258,581,096	5,915,117	5,915,117	1,005,047	680,754				
Changes of Assumptions		(216,170,644)		(6,598,742)	(41,231,216)	(129,666,292)	(2,966,153)	(2,966,154)	(503,984)	(341,366)				
Benefit Payments		(1,223,511,670)		(37,348,446)	(233,365,980)	(733,902,706)	(16,788,235)	(16,788,236)	(2,852,516)	(1,932,111)				
Net Changes	\$	823,022,769	\$	25,123,276 \$	156,978,899 \$	493,676,236 \$	11,292,986 \$	11,292,986 \$	1,918,808 \$	1,299,678				
SubTotal	s	19,741,147,876	s	655,811,613 \$	4,259,391,080 \$	13,109,957,963 \$	239,717,883 \$	239,717,884 \$	44,748,695 \$	35,731,587				
Changes in Proportionate Share		624,764,266		(34,129,620)	(374,907,464)	(893,811,279)	39,729,986	39,729,986	2,732,735	(3,570,717)				
Balances at June 30, 2019	s	20,365,912,142	s	621,681,993 \$	3,884,483,616 \$	12,216,146,684 \$	279,447,869 \$	279,447,870 \$	47,481,430 \$	32,160,870				

				Pla	n Fiducia	ary	Ne	et Position <sup>1</sup>			
		TRANSIT		HOUSING							
		Authority	TA TP	Authority	H	HC		OTB (City)	OTB (State)	HDC/REMIC	State Courts
Balances at June 30, 2018 (Revised)	\$	14,791,708,394	\$ 493,140,989	\$ 3,207,594,337 \$	9,864,407,	854 \$	5	178,607,291	\$ 178,607,291	\$ 33,504,490	\$ 26,926,409
Changes for the Year:											
Contributions - Employer		859,328,961	26,231,545	163,903,745	515,453,	390		11,791,156	11,791,156	2,003,454	1,357,011
Contributions - Employee		127,479,874	3,891,402	24,314,820	76,466,	539		1,749,196	1,749,197	297,209	201,310
Net Investment Income		1,032,818,131	31,527,409	196,994,128	619,518,4	124		14,171,662	14,171,662	2,407,930	1,630,977
Benefit Payments		(1,223,511,670)	(37,348,446)	(233,365,980)	(733,902,	706)		(16,788,235)	(16,788,236)	(2,852,516)	(1,932,111)
Payments to Other Retirement Systems		(2,273,339)	(69,395)	(433,604)	(1,363,	524)		(31,193)	(31,194)	(5,300)	(3,590)
Transfers to Variable Supplements Funds		0	0	0		0		0	0	0	0
Administrative Expenses		(19,099,164)	(583,014)	(3,642,871)	(11,456,	309)		(262,067)	(262,066)	(44,528)	(30,160)
Other Changes		758,167	23,144	144,609	454,	774		10,403	10,403	1,768	1,197
Net Changes	\$	775,500,960	\$ 23,672,645	\$ 147,914,847 \$	465,171,	)88 \$	\$	10,640,922	\$ 10,640,922	\$ 1,808,017	\$ 1,224,634
SubTotal	s	15,567,209,354	\$ 516,813,634	\$ 3,355,509,184 \$	10,329,578,	142 \$	5	189,248,213	\$ 189,248,213	\$ 35,312,507	\$ 28,151,043
Changes in Proportionate Share		488,479,691	(26,703,852)	(293,134,142)	(698,845,	917)		31,057,563	31,057,564	2,119,997	 (2,796,670)
Balances at June 30, 2019	s	16,055,689,045	\$ 490,109,782	\$ 3,062,375,042 \$	9,630,732,	525 \$	5	220,305,776	\$ 220,305,777	\$ 37,432,504	\$ 25,354,373

						Net Pension Li	ability				
		TRANSIT			HOUSING		•				
		Authority		TA TP	Authority	HHC	OTB (City)	OTB (State)	HDC/REMI	2	State Courts
Balances at June 30, 2018 (Revised)	S	4,126,416,713	\$	137,547,348 \$	894,817,844 \$	2,751,874,373 \$	49,817,606 \$	49,817,607	\$ 9,325,397	\$	7,505,500
Changes for the Year:											
Service Cost		472,631,217		14,427,359	90,147,115	283,499,812	6,485,139	6,485,140	1,101,900		746,357
Interest		1,358,985,405		41,483,865	259,205,505	815,164,326	18,647,118	18,647,119	3,168,361		2,146,044
Changes of Benefit Terms		0		0	0	0	0	0	0		0
Differences b/t Expected and Actual experience		431,088,461		13,159,240	82,223,475	258,581,096	5,915,117	5,915,117	1,005,047		680,754
Changes of Assumptions		(216,170,644)		(6,598,742)	(41,231,216)	(129,666,292)	(2,966,153)	(2,966,154)	(503,984	)	(341,366)
Contributions - Employer		(859,328,961)		(26,231,545)	(163,903,745)	(515,453,890)	(11,791,156)	(11,791,156)	(2,003,454	)	(1,357,011)
Contributions - Employee		(127,479,874)		(3,891,402)	(24,314,820)	(76,466,639)	(1,749,196)	(1,749,197)	(297,209	)	(201,310)
Net Investment Income		(1,032,818,131)		(31,527,409)	(196,994,128)	(619,518,424)	(14,171,662)	(14,171,662)	(2,407,930	)	(1,630,977)
Benefit Payments		0		0	0	0	0	0	0		0
Payments to Other Retirement Systems		2,273,339		69,395	433,604	1,363,624	31,193	31,194	5,300		3,590
Transfers to Variable Supplements Funds		0		0	0	0	0	0	0		0
Administrative Expenses		19,099,164		583,014	3,642,871	11,456,309	262,067	262,066	44,528		30,160
Other Changes		(758,167)		(23,144)	(144,609)	(454,774)	(10,403)	(10,403)	(1,768	)	(1,197)
Net Changes	s	47,521,809	\$	1,450,631 \$	9,064,052 \$	28,505,148 \$	652,064 \$	652,064	\$ 110,791	\$	75,044
SubTotal	\$	4,173,938,522	\$	138,997,979 \$	903,881,896 \$	2,780,379,521 \$	50,469,670 \$	50,469,671	\$ 9,436,188	\$	7,580,544
Changes in Proportionate Share		136,284,575		(7,425,768)	(81,773,322)	(194,965,362)	8,672,423	8,672,422	612,738	i	(774,047)
Balances at June 30, 2019	\$	4,310,223,097	s	131,572,211 \$	822,108,574 \$	2,585,414,159 \$	59,142,093 \$	59,142,093	\$ 10,048,926	\$	6,806,497

<sup>1</sup> Balances at 6/30/2018 and 6/30/2019 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source June 30, 2019

	Total Pension Liability												
					Senior								
		SCA	WFA		Colleges		TBTA		City Other	Subtotal City		TOTAL	
Balances at June 30, 2018 (Revised)	\$	41,989,889 \$	2,518,993	\$	1,114,412,061	\$	969,966,442	\$	45,049,272,189 \$	45,950,375,312	\$	83,979,778,517	
Changes for the Year:													
Service Cost		1,659,859	43,120		24,906,842		24,813,187		1,104,045,612	1,126,617,969		2,030,992,659	
Interest		4,772,693	123,986		71,616,163		71,346,872		3,174,529,791	3,239,433,467		5,839,837,248	
Changes of Benefit Terms		0	0		0		0		0	0		0	
Differences b/t Expected and Actual Experience		1,513,962	39,330		22,717,611		22,632,188		1,007,003,576	1,027,591,895		1,852,474,974	
Changes of Assumptions		(759,181)	(19,722)		(11,391,816)		(11,348,981)		(504,965,067)	(515,289,143)		(928,929,318)	
Benefit Payments		(4,296,916)	(111,626)		(64,476,933)		(64,234,487)		(2,858,069,138)	(2,916,502,735)		(5,257,679,000)	
Net Changes	\$	2,890,417 \$	75,088	\$	43,371,867	\$	43,208,779	\$	1,922,544,774 \$	1,961,851,453	\$	3,536,696,563	
SubTotal	\$	44,880,306 \$	2,594,081	\$	1,157,783,928	\$	1,013,175,221	\$	46,971,816,963 \$	47,912,226,765	\$	87,516,475,080	
Changes in Proportionate Share		26,643,822	(736,018)		(84,535,842)		56,037,241		602,052,904	634,297,092		0	
Balances at June 30, 2019	\$	71,524,128 \$	1,858,063	\$	1,073,248,086	\$	1,069,212,462	\$	47,573,869,867 \$	48,546,523,857	\$	87,516,475,080	

	Plan Fiduciary Net Position <sup>1</sup>														
						Senior									
		SCA		WFA		Colleges		TBTA		City Other		Subtotal City		TOTAL	
Balances at June 30, 2018 (Revised)	\$	32,814,954	\$	1,983,024	\$	871,348,991	\$	758,403,928	\$	35,223,035,548	\$	35,927,598,782	\$	65,662,083,000	
Changes for the Year:															
Contributions - Employer		3,017,923		78,400		45,285,139		45,114,858		2,007,353,762		2,048,394,386		3,692,711,000	
Contributions - Employee		447,703		11,630		6,717,967		6,692,706		297,787,347		303,875,648		547,807,000	
Net Investment Income		3,627,209		94,228		54,427,716		54,223,057		2,412,617,467		2,461,943,747		4,438,230,000	
Benefit Payments		(4,296,916)		(111,626)		(64,476,933)		(64,234,487)		(2,858,069,138)		(2,916,502,735)		(5,257,679,000)	
Payments to Other Retirement Systems		(7,984)		(207)		(119,801)		(119,351)		(5,310,418)		(5,418,990)		(9,769,000)	
Transfers to Variable Supplements Funds		0		0		0		0		0		0		0	
Administrative Expenses		(67,075)		(1,742)		(1,006,493)		(1,002,708)		(44,614,803)		(45,526,959)		(82,073,000)	
Other Changes		2,663		69		39,954		39,804		1,771,045		1,807,255		3,258,000	
Net Changes	\$	2,723,523	\$	70,752	\$	40,867,549	\$	40,713,879	\$	1,811,535,262	\$	1,848,572,352	\$	3,332,485,000	
SubTotal	\$	35,538,477	\$	2,053,776	\$	912,216,540	\$	799,117,807	\$	37,034,570,810	\$	37,776,171,134	\$	68,994,568,000	
Changes in Proportionate Share		20,848,350		(588,952)		(66,109,702)		43,807,504		470,808,566		496,010,627		0	
Balances at June 30, 2019	\$	56,386,827	\$	1,464,824	\$	846,106,838	\$	842,925,311	\$	37,505,379,376	\$	38,272,181,761	\$	68,994,568,000	

	Net Pension Liability													
Balances at June 30, 2018 (Revised)	s	<u>SCA</u> 9,174,935 \$	<u>WFA</u> 535,969 \$	<u>Senior</u> <u>Colleges</u> 243,063,070 \$	<u>TBTA</u> 211,562,514 \$	<u>Citv Other</u> 9,826,236,641 \$	<u>Subtotal City</u> 10,022,776,530 \$	<u>TOTAL</u> 18,317,695,517						
Balances at June 30, 2018 (Revised)	3	9,174,955 \$	555,709 \$	243,003,070 \$	211,502,514 \$	9,820,230,041 5	10,022,770,550 \$	10,517,095,517						
Changes for the Year:														
Service Cost		1,659,859	43,120	24,906,842	24,813,187	1,104,045,612	1,126,617,969	2,030,992,659						
Interest		4,772,693	123,986	71,616,163	71,346,872	3,174,529,791	3,239,433,467	5,839,837,248						
Changes of Benefit Terms		0	0	0	0	0	0	0						
Differences b/t Expected and Actual experience		1,513,962	39,330	22,717,611	22,632,188	1,007,003,576	1,027,591,895	1,852,474,974						
Changes of Assumptions		(759,181)	(19,722)	(11,391,816)	(11,348,981)	(504,965,067)	(515,289,143)	(928,929,318)						
Contributions - Employer		(3,017,923)	(78,400)	(45,285,139)	(45,114,858)	(2,007,353,762)	(2,048,394,386)	(3,692,711,000)						
Contributions - Employee		(447,703)	(11,630)	(6,717,967)	(6,692,706)	(297,787,347)	(303,875,648)	(547,807,000)						
Net Investment Income		(3,627,209)	(94,228)	(54,427,716)	(54,223,057)	(2,412,617,467)	(2,461,943,747)	(4,438,230,000)						
Benefit Payments		0	0	0	0	0	0	0						
Payments to Other Retirement Systems		7,984	207	119,801	119,351	5,310,418	5,418,990	9,769,000						
Transfers to Variable Supplements Funds		0	0	0	0	0	0	0						
Administrative Expenses		67,075	1,742	1,006,493	1,002,708	44,614,803	45,526,959	82,073,000						
Other Changes		(2,663)	(69)	(39,954)	(39,804)	(1,771,045)	(1,807,255)	(3,258,000)						
Net Changes	\$	166,894 \$	4,336 \$	2,504,318 \$	2,494,900 \$	111,009,512 \$	113,279,101 \$	204,211,563						
SubTotal	\$	9,341,829 \$	540,305 \$	245,567,388 \$	214,057,414 \$	9,937,246,153 \$	10,136,055,631 \$	18,521,907,080						
Changes in Proportionate Share		5,795,472	(147,066)	(18,426,140)	12,229,737	131,244,338	138,286,465	0						
Balances at June 30, 2019	\$	15,137,301 \$	393,239 \$	227,141,248 \$	226,287,151 \$	10,068,490,491 \$	10,274,342,096 \$	18,521,907,080						

<sup>1</sup> Balances at 6/30/2018 and 6/30/2019 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Employer Allocations June 30, 2020

Employer	 2020 Employer Contributions	Employer Allocation Percentage
Transit Authority	\$ 865,063,590	23.2072475468%
Transit Authority Transit Police	25,584,279	0.6863549720%
Housing Authority	161,530,939	4.3334253472%
Health and Hospitals Corporation	505,624,076	13.5644861638%
Off - Track Betting (City)	12,005,188	0.3220657683%
Off - Track Betting (State) <sup>1</sup>	13,732,943	0.3684166244%
Housing Development Corporation / REMIC	2,108,188	0.0565568143%
State Courts	1,466,062	0.0393303615%
School Construction Authority	3,295,959	0.0884214031%
Water Finance Authority	74,683	0.0020035370%
Senior Colleges	46,237,666	1.2404278405%
Triborough Bridge and Tunnel Authority	45,189,608	1.2123113625%
City Other	 2,045,644,722	54.8789522586%
Total	\$ 3,727,557,903	100.000000000%

<sup>1</sup> The actual contribution made was \$0.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source June 30, 2020

	Total Pension Liability													
		TRANSIT			HOUSING									
		Authority		TA TP	Authority	HHC	OTB (City	)	OTB (State)	HDC/REMIC	State Courts			
Balances at June 30, 2019	\$	20,365,912,142	\$	621,681,993 \$	3,884,483,616 \$	12,216,146,684	\$ 279,447,869	\$	279,447,870 \$	47,481,430 \$	32,160,870			
Changes for the Year:														
Service Cost		472,893,833		13,985,848	88,302,162	276,403,388	6,562,731		7,507,222	1,152,458	801,434			
Interest		1,412,403,219		41,771,863	263,734,159	825,540,551	19,601,063		22,421,997	3,442,072	2,393,663			
Changes of Benefit Terms		0		0	0	0	0		0	0	0			
Differences b/t Expected and Actual Experience		243,971,114		7,215,452	45,556,054	142,599,539	3,385,785		3,873,058	594,566	413,469			
Changes of Assumptions		0		0	0	0	0		0	0	0			
Benefit Payments		(1,232,516,727)		(36,451,715)	(230,144,450)	(720,398,059)	(17,104,633)	)	(19,566,286)	(3,003,683)	(2,088,801)			
Net Changes	\$	896,751,439	\$	26,521,448 \$	167,447,925 \$	524,145,419 \$	\$ 12,444,946	\$	14,235,991 \$	2,185,413 \$	1,519,765			
SubTotal	s	21,262,663,581	s	648,203,441 \$	4,051,931,541 \$	12,740,292,103	\$ 291,892,815	\$	293,683,861 \$	49,666,843 \$	33,680,635			
Changes in Proportionate Share		(55,747,125)		(21,008,315)	(92,022,503)	(344,986,531)	2,412,739		42,977,372	2,015,100	2,259,676			
Balances at June 30, 2020	\$	21,206,916,456	s	627,195,126 \$	3,959,909,038 \$	12,395,305,572	\$ 294,305,554	\$	336,661,233 \$	51,681,943 \$	35,940,311			

	Plan Fiduciary Net Position <sup>1</sup>														
		TRANSIT				HOUSING									
		Authority		TA TP		Authority		HHC		OTB (City)		OTB (State)		HDC/REMIC	State Courts
Balances at June 30, 2019	\$	16,055,689,045	\$	490,109,782	\$	3,062,375,042	\$	9,630,732,525	\$	220,305,776	\$	220,305,777	\$	37,432,504	\$ 25,354,373
Changes for the Year:															
Contributions - Employer		865,063,590		25,584,279		161,530,939		505,624,076		12,005,188		13,732,943		2,108,188	1,466,062
Contributions - Employee		130,864,044		3,870,308		24,435,882		76,489,188		1,816,106		2,077,476		318,920	221,781
Net Investment Income		559,228,757		16,539,206		104,423,244		326,865,593		7,760,870		8,877,794		1,362,859	947,750
Benefit Payments		(1,232,516,727)		(36,451,715)		(230,144,450)		(720,398,059)		(17,104,633)		(19,566,286)		(3,003,683)	(2,088,801)
Payments to Other Retirement Systems		(2,108,843)		(62,369)		(393,778)		(1,232,605)		(29,266)		(33,478)		(5,139)	(3,574)
Transfers to Variable Supplements Funds		0		0		0		0		0		0		0	0
Administrative Expenses		(18,024,373)		(533,071)		(3,365,641)		(10,535,129)		(250,139)		(286,138)		(43,926)	(30,547)
Other Changes		769,784		22,766		143,740		449,934		10,683		12,220		1,876	1,305
Net Changes	\$	303,276,232	\$	8,969,404	\$	56,629,936	\$	177,262,998	\$	4,208,809	\$	4,814,531	\$	739,095	\$ 513,976
SubTotal	s	16,358,965,277	\$	499,079,186	\$	3,119,004,978	\$	9,807,995,523	\$	224,514,585	\$	225,120,308	\$	38,171,599	\$ 25,868,349
Changes in Proportionate Share		(43,948,831)		(16,562,135)		(72,546,941)		(271,973,882)		1,902,111		33,881,682		1,588,625	 1,781,440
Balances at June 30, 2020	s	16,315,016,446	s	482,517,051	\$	3,046,458,037	s	9,536,021,641	\$	226,416,696	\$	259,001,990	\$	39,760,224	\$ 27,649,789

	Net Pension Liability													
		TRANSIT			HOUSING									
		Authority		TA TP	Authority		HHC	OTB (City)		OTB (State)		HDC/REMIC		State Courts
Balances at June 30, 2019	\$	4,310,223,097	\$	131,572,211 \$	822,108,574	\$	2,585,414,159 \$	59,142,093	\$	59,142,093	\$	10,048,926	\$	6,806,497
Changes for the Year:														
Service Cost		472,893,833		13,985,848	88,302,162		276,403,388	6,562,731		7,507,222		1,152,458		801,434
Interest		1,412,403,219		41,771,863	263,734,159		825,540,551	19,601,063		22,421,997		3,442,072		2,393,663
Changes of Benefit Terms		0		0	0		0	0		0		0		0
Differences b/t Expected and Actual experience		243,971,114		7,215,452	45,556,054		142,599,539	3,385,785		3,873,058		594,566		413,469
Changes of Assumptions		0		0	0		0	0		0		0		0
Contributions - Employer		(865,063,590)		(25,584,279)	(161,530,939)		(505,624,076)	(12,005,188)		(13,732,943)		(2,108,188)		(1,466,062)
Contributions - Employee		(130,864,044)		(3,870,308)	(24,435,882)		(76,489,188)	(1,816,106)		(2,077,476)		(318,920)		(221,781)
Net Investment Income		(559,228,757)		(16,539,206)	(104,423,244)		(326,865,593)	(7,760,870)		(8,877,794)		(1,362,859)		(947,750)
Benefit Payments		0		0	0		0	0		0		0		0
Payments to Other Retirement Systems		2,108,843		62,369	393,778		1,232,605	29,266		33,478		5,139		3,574
Transfers to Variable Supplements Funds		0		0	0		0	0		0		0		0
Administrative Expenses		18,024,373		533,071	3,365,641		10,535,129	250,139		286,138		43,926		30,547
Other Changes		(769,784)		(22,766)	(143,740)		(449,934)	(10,683)		(12,220)		(1,876)		(1,305)
Net Changes	\$	593,475,207	\$	17,552,044 \$	110,817,989	\$	346,882,421 \$	8,236,137	\$	9,421,460	\$	1,446,318	\$	1,005,789
SubTotal	\$	4,903,698,304	s	149,124,255 \$	932,926,563	\$	2,932,296,580 \$	67,378,230	\$	68,563,553	\$	11,495,244	\$	7,812,286
Changes in Proportionate Share		(11,798,294)		(4,446,180)	(19,475,562)		(73,012,649)	510,628		9,095,690		426,475		478,236
Balances at June 30, 2020	s	4,891,900,010	\$	144,678,075 \$	913,451,001	\$	2,859,283,931 \$	67,888,858	\$	77,659,243	\$	11,921,719	\$	8,290,522

<sup>1</sup> Balances at 6/30/2019 and 6/30/2020 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Changes in Net Pension Liability (NPL) by Source June 30, 2020

	Total Pension Liability														
						Senior									
		SCA		WFA		Colleges		TBTA		City Other		Subtotal City		TOTAL	
Balances at June 30, 2019	\$	71,524,128	\$	1,858,063	\$	1,073,248,086	\$	1,069,212,462	\$	47,573,869,867	\$	48,546,523,857	\$	87,516,475,080	
Changes for the Year:															
Service Cost		1,801,762		40,826		25,276,185		24,703,256		1,118,267,817		1,140,618,158		2,037,698,922	
Interest		5,381,365		121,936		75,492,980		73,781,799		3,339,956,997		3,406,711,288		6,086,043,664	
Changes of Benefit Terms		0		0		0		0		0		0		0	
Differences b/t Expected and Actual Experience		929,549		21,063		13,040,261		12,744,680		576,926,630		588,457,416		1,051,271,220	
Changes of Assumptions		0		0		0		0		0		0		0	
Benefit Payments		(4,695,984)		(106,406)		(65,878,043)		(64,384,802)		(2,914,573,411)		(2,972,825,743)		(5,310,913,000)	
Net Changes	\$	3,416,692	\$	77,419	\$	47,931,383	\$	46,844,933	\$	2,120,578,033	\$	2,162,961,119	\$	3,864,100,806	
SubTotal	\$	74,940,820	\$	1,935,482	\$	1,121,179,469	\$	1,116,057,395	\$	49,694,447,900	\$	50,709,484,976	\$	91,380,575,886	
Changes in Proportionate Share		5,859,167		(104,638)		12,330,635		(8,240,290)		454,254,713		441,518,304		0	
Balances at June 30, 2020	\$	80,799,987	\$	1,830,844	\$	1,133,510,104	\$	1,107,817,105	\$	50,148,702,613	\$	51,151,003,280	\$	91,380,575,886	

Plan Fiduciary Net Position <sup>1</sup>														
						Senior								
		<u>SCA</u>		WFA		Colleges		<u>TBTA</u>		City Other		Subtotal City		TOTAL
Balances at June 30, 2019	\$	56,386,827	\$	1,464,824	\$	846,106,838	\$	842,925,311	\$	37,505,379,376	\$	38,272,181,761	\$	68,994,568,000
Changes for the Year:														
Contributions - Employer		3,295,959		74,683		46,237,666		45,189,608		2,045,644,819		2,086,530,245		3,727,558,000
Contributions - Employee		498,602		11,298		6,994,686		6,836,139		309,458,570		315,643,586		563,893,000
Net Investment Income		2,130,705		48,280		29,890,788		29,213,261		1,322,426,893		1,348,857,674		2,409,716,000
Benefit Payments		(4,695,984)		(106,406)		(65,878,043)		(64,384,802)		(2,914,573,411)		(2,972,825,743)		(5,310,913,000)
Payments to Other Retirement Systems		(8,035)		(182)		(112,718)		(110,163)		(4,986,850)		(5,086,520)		(9,087,000)
Transfers to Variable Supplements Funds		0		0		0		0		0		0		0
Administrative Expenses		(68,674)		(1,556)		(963,403)		(941,566)		(42,622,837)		(43,474,721)		(77,667,000)
Other Changes		2,933		66		41,145		40,212		1,820,336		1,856,718		3,317,000
Net Changes	\$	1,155,506	\$	26,183	\$	16,210,121	\$	15,842,689	\$	717,167,520	\$	731,501,239	\$	1,306,817,000
SubTotal	\$	57,542,333	\$	1,491,007	\$	862,316,959	\$	858,768,000	\$	38,222,546,896	\$	39,003,683,000	\$	70,301,385,000
Changes in Proportionate Share		4,619,138		(82,493)		9,720,993		(6,496,322)		358,116,615		348,075,729		0
Balances at June 30, 2020	\$	62,161,471	\$	1,408,514	\$	872,037,952	\$	852,271,678	\$	38,580,663,511	\$	39,351,758,729	\$	70,301,385,000

	Net Pension Liability													
					Senior									
		<u>SCA</u>	WFA		Colleges		TBTA	City Other		Subtotal City		TOTAL		
Balances at June 30, 2019	\$	15,137,301 \$	393,239	\$	227,141,248	\$	226,287,151 \$	10,068,490,491	\$	10,274,342,096	\$	18,521,907,080		
Changes for the Year:														
Service Cost		1,801,762	40,826		25,276,185		24,703,256	1,118,267,817		1,140,618,158		2,037,698,922		
Interest		5,381,365	121,936		75,492,980		73,781,799	3,339,956,997		3,406,711,288		6,086,043,664		
Changes of Benefit Terms		0	0		0		0	0		0		0		
Differences b/t Expected and Actual experience		929,549	21,063		13,040,261		12,744,680	576,926,630		588,457,416		1,051,271,220		
Changes of Assumptions		0	0		0		0	0		0		0		
Contributions - Employer		(3,295,959)	(74,683)		(46,237,666)		(45,189,608)	(2,045,644,819)		(2,086,530,245)		(3,727,558,000)		
Contributions - Employee		(498,602)	(11,298)		(6,994,686)		(6,836,139)	(309,458,570)		(315,643,586)		(563,893,000)		
Net Investment Income		(2,130,705)	(48,280)		(29,890,788)		(29,213,261)	(1,322,426,893)		(1,348,857,674)		(2,409,716,000)		
Benefit Payments		0	0		0		0	0		0		0		
Payments to Other Retirement Systems		8,035	182		112,718		110,163	4,986,850		5,086,520		9,087,000		
Transfers to Variable Supplements Funds		0	0		0		0	0		0		0		
Administrative Expenses		68,674	1,556		963,403		941,566	42,622,837		43,474,721		77,667,000		
Other Changes		(2,933)	(66)		(41,145)		(40,212)	(1,820,336)		(1,856,718)		(3,317,000)		
Net Changes	\$	2,261,186 \$	51,236	\$	31,721,262	\$	31,002,244 \$	1,403,410,513	\$	1,431,459,880	\$	2,557,283,806		
SubTotal	\$	17,398,487 \$	444,475	\$	258,862,510	\$	257,289,395 \$	11,471,901,004	\$	11,705,801,976	\$	21,079,190,886		
Changes in Proportionate Share		1,240,029	(22,145)		2,609,642		(1,743,968)	96,138,098		93,442,575		0		
Balances at June 30, 2020	\$	18,638,516 \$	422,330	\$	261,472,152	\$	255,545,427 \$	11,568,039,102	\$	11,799,244,551	\$	21,079,190,886		

<sup>1</sup> Balances at 6/30/2019 and 6/30/2020 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Changes in Net Pension Liability and Related Ratios

	<u>2020</u>	<u>2019</u>		<u>2018</u>	<u>2017</u>	<u>2016</u>		2015	<u>2014</u>		2013
1. Total Pension Liability											
a. Service Cost	\$ 2,037,698,922	. ,,,,	•	12,394 \$	1,920,457,666	\$ 1,899,994,413	• )•	32,487,270	\$ 1,807,063,169	\$	1,754,430,261
b. Interest	6,086,043,664	5,839,837,248	5,615,2	,	5,546,608,362	5,372,603,831	5,0	071,014,309	4,910,458,886		4,728,226,227
c. Changes of Benefit Terms	0	0	- ).	98,752	0	0	(2)	0	0		0
d. Differences b/t Expected and Actual Experience	1,051,271,220	1,852,474,974	(1,762,5	· ·	(238,253,928)	(817,971,278)	(2	288,598,641)	0		0
e. Changes of Assumptions	0	(928,929,318)		32,814	0	2,563,091,847		0	0		0
f. Benefit Payments	 (5,310,913,000)	(5,257,679,000)	(4,983,8		(4,646,479,000)	 (4,494,146,000)		24,135,000)	(4,002,681,000)	_	(3,863,595,000)
g. Net Changes in Total Pension Liability	\$ 3,864,100,806	\$ 3,536,696,563	\$ 878,3	10,519 \$	2,582,333,100	\$ 4,523,572,813	\$ 2,2	90,767,938	\$ 2,714,841,055	\$	2,619,061,488
2. Total Pension Liability - Beginning <sup>1</sup>	\$ 87,516,475,080	\$ 83,979,778,517	\$ 82,421,4	67,998 \$	79,839,134,898	\$ 75,315,562,085	\$ 73,0	24,794,147	\$ 70,309,953,092	\$	67,690,891,604
3. Total Pension Liability - Ending	\$ 91,380,575,886	\$ 87,516,475,080	\$ 83,299,7	78,517 \$	82,421,467,998	\$ 79,839,134,898	\$ 75,3	15,562,085	\$ 73,024,794,147	\$	70,309,953,092
4. Plan Fiduciary Net Position											
a. Contributions - Employer	\$ 3,727,558,000	\$ 3,692,711,000	\$ 3,377,0	24,000 \$	3,328,193,000	\$ 3,365,454,000	\$ 3,1	60,258,000	\$ 3,114,068,000	\$	3,046,845,000
b. Contributions - Employee	563,893,000	547,807,000	523,5	35,000	513,514,000	485,508,000	4	67,129,000	447,689,000		437,775,000
c. Net Investment Income	2,409,716,000	4,438,230,000	5,155,5	19,000	6,982,152,000	1,171,904,000	1,1	75,109,000	8,262,487,000		4,967,056,000
d. Benefit Payments	(5,310,913,000)	(5,257,679,000)	(4,983,8	74,000)	(4,646,479,000)	(4,494,146,000)	(4,3	24,135,000)	(4,002,681,000)		(3,863,595,000)
e. Payments to Other Retirement Systems	(9,087,000)	(9,769,000)	(9,0	55,000)	(8,087,000)	(7,440,000)		(7,142,000)	(7,228,000)		(5,250,000)
f. Transfers to Variable Supplements Fund	0	0		0	0	0		0	0		0
g. Administrative Expenses	(77,667,000)	(82,073,000)	(59,6	89,000)	(59,671,000)	(56,683,000)	(	(54,635,000)	(50,431,000)		(48,666,000)
h. Other Changes	3,317,000	3,258,000	3,4	22,000	3,266,000	2,928,000	(3	47,323,000)	4,881,000		5,072,000
i. Net Changes in Fiduciary Net Position	\$ 1,306,817,000	\$ 3,332,485,000	\$ 4,006,8	82,000 \$	6,112,888,000	\$ 467,525,000	\$	69,261,000	\$ 7,768,785,000	\$	4,539,237,000
5. Plan Fiduciary Net Position - Beginning	\$ 68,994,568,000	\$ 65,662,083,000	\$ 61,655,2	01,000 \$	55,542,313,000	\$ 55,074,788,000	\$ 55,0	05,527,000	\$ 47,236,742,000	\$	42,697,505,000
6. Plan Fiduciary Net Position - Ending	\$ 70,301,385,000	\$ 68,994,568,000	\$ 65,662,0	83,000 \$	61,655,201,000	\$ 55,542,313,000	\$ 55,0	74,788,000	\$ 55,005,527,000	\$	47,236,742,000
7. NYCERS' Net Pension Liability	\$ 21,079,190,886	\$ 18,521,907,080	\$ 17,637,6	95,517 \$	20,766,266,998	\$ 24,296,821,898	\$ 20,2	40,774,085	\$ 18,019,267,147	\$	23,073,211,092
8. Plan Fiduciary Net Position as a Percentage of Total Pension Liability	76.9%	78.8%		78.8%	74.8%	69.6%		73.1%	75.3%		67.2%
•											
9. Covered Employee Payroll <sup>2</sup>	\$ 14,981,461,175	\$ 14,459,118,057	\$ 12,834,1	29,514 \$	12,555,241,827	\$ 12,336,979,280	\$ 12,3	14,958,283	\$ 12,183,010,903	\$	11,955,093,092
10. NYCERS' Net Pension Liability as a Percentage of Covered Employee Payroll	140.7%	128.1%		137.4%	165.4%	196.9%		164.4%	147.9%		193.0%

<sup>1</sup> Revised Total Pension Liability at June 30, 2018 due to census data fix.

<sup>2</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Employer Contributions (\$ in thousands)

Fiscal Year Ending June 30	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
1. Actuarially Determined Contribution	\$ 3,726,701 \$	3,694,365 \$	3,377,024 \$	3,328,193 \$	3,365,454 \$	3,160,258 \$	3,114,068 \$	3,046,845 \$	3,017,004 \$	2,387,216
2. Actual/Funding Contributions Made	<u>\$ 3,713,825</u> <u>\$</u>	3,681,747 \$	3,377,024 \$	3,328,193 \$	3,365,454 \$	3,160,258 \$	3,114,068 \$	3,046,845 \$	3,017,004 \$	2,387,216
<ol> <li>Contribution Deficiency (Excess) Actual/Funding Contributions Made basis (1 2.)</li> </ol>	12,876	12,618	0	0	0	0	0	0	0	0
<ol> <li>Contributions as a percentage of Covered employee payroll<sup>1</sup> Actual/Funding Contributions Made basis</li> </ol>	24.789%	25.463%	26.313%	26.508%	27.279%	25.662%	25.561%	25.486%	25.540%	20.820%
5. Receivable Contributions	13,733	10,964	0	0	0	0	0	0	0	0
6. Accounting Contributions (2. + 5.)	<u>\$ 3,727,558</u> <u>\$</u>	3,692,711 \$	3,377,024 \$	3,328,193 \$	3,365,454 \$	3,160,258 \$	3,114,068 \$	3,046,845 \$	3,017,004 \$	2,387,216
<ol> <li>Contribution Deficiency (Excess) Accounting Contributions basis (1 6.)</li> </ol>	(857)	1,654	0	0	0	0	0	0	0	0
<ol> <li>Contributions as a percentage of Covered employee payroll<sup>1</sup> Accounting Contributions basis</li> </ol>	24.881%	25.539%	26.313%	26.508%	27.279%	25.662%	25.561%	25.486%	25.540%	20.820%

<sup>1</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# **Average Expected Remaining Service Lives**

		Average Expected
		Remaining Service Life
<u>Group</u>	<u># Count</u>	<u>@ 6/30/2019</u>
Active	191,501	12.73
Active Off Payroll	31,273	0
Terminated Vested	21,788	0
Retired	<u>157,153</u>	<u>0</u>
Total	401,715	6.07

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Experience

		Differences									
	1	between Expected	Recognition								
		and Actual	Period								
Year		Experience	(Years)	2019	2020	2021	2022	2023	2024	2025	2026
2016	\$	(817,971,278)	3.33	(81,060,218)							
2017	\$	(238,253,928)	5.60	(42,545,344)	(42,545,344)	(42,545,344)	(25,527,208)				
2018	\$	(1,762,549,696)	6.01	(293,269,500)	(293,269,500)	(293,269,500)	(293,269,500)	(293,269,500)	(2,932,696)		
2019	\$	1,852,474,974	6.10	303,684,422	303,684,422	303,684,422	303,684,422	303,684,422	303,684,422	30,368,442	
2020	\$	1,051,271,220	6.07		173,191,305	173,191,305	173,191,305	173,191,305	173,191,305	173,191,305	12,123,390
Net increase	(deci	rease) in Pension Expen	se	\$ (113,190,640) \$	141,060,883 \$	141,060,883 \$	158,079,019 \$	183,606,227 \$	473,943,031	\$ 203,559,747 \$	12,123,390

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Increase (Decrease) in Pension Expense Arising from the Recognition of Changes in Assumptions

	Changes in	Recognition Period								
Year	Assumptions	(Years)	20	19	2020	2021	2022	2023	2024	2025
2016 \$	2,563,091,847	3.33	254,000,09	4						
2017	0	0.00		0						
2018	17,732,814	6.01	2,950,55	1	2,950,551	2,950,551	2,950,551	2,950,551	29,508	
2019	(928,929,318)	6.10	(152,283,49	5)	(152,283,495)	(152,283,495)	(152,283,495)	(152,283,495)	(152,283,495)	(15,228,348)
Net increase (de	ecrease) in Pension Expens	se	\$ 104,667,15	0 \$	(149,332,944) \$	(149,332,944) \$	(149,332,944) \$	(149,332,944) \$	(152,253,987) \$	(15,228,348)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Pension Plan Investments

		and Actual Earnings on Pension Plan	Recognition Period						
Year		Investments	(Years)	2019	2020	2021	2022	2023	2024
2015	\$	2,624,717,092	5	524,943,416					
2016	\$	2,659,093,478	5	531,818,694	531,818,702				
2017	\$	(3,124,101,464)	5	(624,820,294)	(624,820,294)	(624,820,288)			
2018	\$	(879,179,528)	5	(175,835,906)	(175,835,906)	(175,835,906)	(175,835,904)		
2019	\$	120,067,125	5	24,013,424	24,013,424	24,013,424	24,013,424	24,013,429	
2020	\$	2,381,953,006	5		476,390,601	476,390,601	476,390,601	476,390,601	476,390,602
	(daam	ease) in Pension Expens		280,119,334 \$	231,566,527 \$	(300,252,169) \$	324,568,121 \$	500,404,030 \$	6 476,390,60

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Transit Authority	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)					
	Collective Amount at 6/30/2015	Share at 6/30/2015 22.380%	Share at 6/30/2016 22.227%	Change in Proportionate Share	Recognition Period (Years)		ount to Recognize in For the Fiscal Year 1 2017		2019
Deferred Outflows of Resources	(2,099,773,673)	(469,929,348)	(466,716,694)	3,212,654	3.33	964,761	964,761	964,761	318,371
Deferred Inflows of Resources	3,983,883,832	891,593,201	885,497,859	(6,095,342)	3.33	(1,830,433)	(1,830,433)	(1,830,433)	(604,043)
Net Pension Liability	20,240,774,085	4,529,885,240	4,498,916,855	(30,968,385)	3.33	(9,299,815)	(9,299,815)	(9,299,815)	(3,068,940)
Total	22,124,884,244	4,951,549,093	4,917,698,020	(33,851,073)		(10,165,487)	(10,165,487)	(10,165,487)	(3,354,612)
ТА ТР	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)					
	Collective Amount	Share at 6/30/2015	Share at 6/30/2016	Change in Proportionate	Recognition Period	1	ount to Recognize in For the Fiscal Year I	Ending June 30	
Deferred Outflows of Resources	at 6/30/2015 (2,099,773,673)	0.660% (13,858,506)	0.672%	Share (251,973)	(Years) 3.33	2016 (75,668)	(75,668)	2018 (75,668)	2019 (24,969)
Deferred Inflows of Resources	3,983,883,832	26,293,633	26,771,699	478,066	3.33	143,563	143,563	143,563	47,377
Net Pension Liability	20,240,774,085	133,589,109	136,018,002	2,428,893	3.33	729,397	729,397	729,397	240,702
Total	22,124,884,244	146,024,236	148,679,222	2,654,986	5.55	797,292	797,292	797,292	263,110
Housing Authority	(1)	(2)	(3)	(3) - (2)					
	Collective Amount at 6/30/2015	Proportionate Share at 6/30/2015 5.072%	Proportionate Share at 6/30/2016 4.997%	Change in Proportionate Share	Recognition Period (Years)		ount to Recognize in For the Fiscal Year 1 2017		2019
Deferred Outflows of Resources	(2,099,773,673)	(106,500,520)	(104,925,691)	1,574,829	3.33	472,922	472,922	472,922	156,063
Deferred Inflows of Resources	3,983,883,832	202,062,588	199,074,675	(2,987,913)	3.33	(897,271)	(897,271)	(897,271)	(296,100)
Net Pension Liability	20,240,774,085	1,026,612,062	1,011,431,481	(15,180,581)	3.33	(4,558,733)	(4,558,733)	(4,558,733)	(1,504,382)
Total	22,124,884,244	1,122,174,130	1,105,580,465	(16,593,665)		(4,983,082)	(4,983,082)	(4,983,082)	(1,644,419)
ннс	(1)		(2)						
	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)					
	Collective Amount	Proportionate Share at 6/30/2015	Proportionate Share at 6/30/2016	Change in Proportionate	Recognition Period	1	ount to Recognize in For the Fiscal Year 1	Ending June 30	2010
Deferred Outflows of Resources	Collective	Proportionate Share	Proportionate Share	Change in					<b>2019</b> (1,579,369)
Deferred Outflows	Collective Amount at 6/30/2015	Proportionate Share at 6/30/2015 14.030%	Proportionate Share at 6/30/2016 14.789%	Change in Proportionate Share	Period (Years)	1 2016	For the Fiscal Year 2017	Ending June 30 2018	
Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2015 (2,099,773,673)	Proportionate Share at 6/30/2015 14.030% (294,598,246)	Proportionate Share at 6/30/2016 14.789% (310,535,528)	Change in Proportionate Share (15,937,282)	Period (Years) 3.33	4,785,971)	For the Fiscal Year 2017 (4,785,971)	Ending June 30 2018 (4,785,971)	(1,579,369)
Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902	Proportionate Share at 6/30/2016 14.789% (310,535,528) 589,176,580	Change in Proportionate Share (15,937,282) 30,237,678	Period (Years) 3.33 3.33	(4,785,971) 9,080,384	For the Fiscal Year 1 2017 (4,785,971) 9,080,384	Ending June 30 2018 (4,785,971) 9,080,384	(1,579,369) 2,996,526
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2)	Proportionate Share at (3202016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3)	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475	Period (Years) 3.33 3.33	2016 (4,785,971) 9,080,384 46,134,377	For the Fiscal Year 1 2017 (4,785,971) 9,080,384 46,134,377	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377	(1,579,369) 2,996,526 15,224,344
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount	Proportionate Share at 6/30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260	Proportionate Share at 630/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475 167,927,871	Period (Years) 3.33 3.33	2016 (4,785,971) 9,080,384 46,134,377 50,428,790	For the Fiscal Year 1 2017 (4,785,971) 9,080,384 46,134,377	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense Ending June 30	(1,579,369) 2,996,526 15,224,344 16,641,501
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at (6/0/2015	Proportionate Share at (30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at (50/2016	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475 167,927,871 (3) - (2) Change in	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period	2016 (4,785,971) 9,080,384 46,134,377 50,428,790	For the Fiscal Year 1 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 ount to Recognize in For the Fiscal Year 1	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense	(1,579,369) 2,996,526 15,224,344
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at 6/30/2015 0.181%	Proportionate Share at 6(30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at 6(30/2016 0.307%	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475 167,927,871 (3) - (2) Change in Proportionate Share	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years)	2016 (4,785,971) 9,080,384 46,134,377 50,428,790 Am 2016	For the Fiscal Year 1 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 ount to Recognize in For the Fiscal Year 1 2017	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense Ending June 30 2018	(1,579,369) 2,996,526 15,224,344 16,641,501 <b>2019</b>
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673)	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at 6/30/2015 0.181% (3,800,591)	Proportionate Share at 6(30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at 6(30/2016 0.307% (6,435,807)	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475 167,927,871 (3) - (2) Change in Proportionate Share (2,635,216)	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33	2016 (4,785,971) 9,080,384 46,134,377 50,428,790 Mm 1 2016 (791,356)	For the Fiscal Year I 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 ount to Recognize in For the Fiscal Year I 2017 (791,356)	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense Ending June 30 2018 (791,356)	(1,579,369) 2,996,526 15,224,344 16,641,501 <b>2019</b> (261,148)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at 6/30/2015 0.181% (3,800,591) 7,210,830	Proportionate Share at (30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at (63/02016 0.307% (6,435,807) 12,210,604	Change in Proportionate Share           (15,937,282)           30,237,678           153,627,475           167,927,871           (3) - (2)           Change in Proportionate Share           (2,635,216)           4,999,775	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33 3.33	2016 (4,785,971) 9,080,384 46,134,377 50,428,790 Am 2016 (791,356) 1,501,434	For the Fiscal Year 1 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 ount to Recognize in For the Fiscal Year 1 2017 (791,356) 1,501,434	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense Ending June 30 2018 (791,356) 1,501,434	(1,579,369) 2,996,526 15,224,344 16,641,501 <b>2019</b> (261,148) 495,473
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at (30/2015 0.181% (3,800,591) 7,210,830 36,635,801 40,046,040 (2)	Proportionate Share at (30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at (30/2016 0,307% (6,435,807) 12,210,604 62,037,973 67,812,770 (3)	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475 167,927,871 (3) - (2) Change in Proportionate Share (2,635,216) 4,999,775 25,402,172	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33 3.33	2016 (4,785,971) 9,080,384 46,134,377 50,428,790 T 2016 (791,356) 1,501,434 7,628,280	For the Fiscal Year I 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 count to Recognize in 2017 (791,356) 1,501,434 7,628,280	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense Ending June 30 2018 (791,356) 1,501,434 7,628,280	(1,579,369) 2,996,526 15,224,344 16,641,501 <b>2019</b> (261,148) 495,473 2,517,333
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at (30/2015 0,181% (3,800,591) 7,210,830 36,635,801 40,046,040 (2) Proportionate Share at (63/2015	Proportionate Share at (30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at (30/2016 0,307% (6,435,807) 12,210,604 62,037,973 67,812,770 (3) Proportionate Share at (30/2016	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475 167,927,871 (3) - (2) Change in Proportionate Share (2,635,216) 4,999,775 25,402,172 27,766,730 (3) - (2) Change in Proportionate	Period (Years) 3.33 3.33 3.33 3.33 Recognition (Years) 3.33 3.33 3.33 3.33 3.33 3.33	2016 (4,785,971) 9,080,384 46,134,377 50,428,790 (791,356) 1,501,434 7,628,280 8,338,358 Am	For the Fiscal Year 1 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 ount to Recognize in 2017 (791,356) 1,501,434 7,628,280 8,338,358 ount to Recognize in for the Fiscal Year 1	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 2018 (791,356) 1,501,434 7,628,280 8,338,358 n Pension Expense Ending June 30	(1,579,369) 2,996,526 15,224,344 16,641,501 <b>2019</b> (261,148) 495,473 2,517,333 2,751,658
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective	Proportionate Share at (30/2015 14.030% (294,598,246) (294,598,246) (294,598,246) (294,598,246) (294,598,246) (294,598,246) (297 (297 (297) (207) (3,800,591) (3,800,591) (3,800,591) (3,800,591) (3,800,591) (207	Proportionate Share at 6/30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at 6/30/2016 0,307% (6,435,807) 12,210,604 62,037,973 67,812,770 (3) Proportionate Share	Change in Proportionate Share (15,937,282) 30,237,678 153,627,475 167,927,871 (3) - (2) Change in Proportionate Share (2,635,216) 4,999,775 25,402,172 27,766,730 (3) - (2) Change in	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33 3.33 3.33 3.33 3.33	2016 (4,785,971) 9,080,384 46,134,377 50,428,790 Mm 1 2016 (791,356) 1,501,434 7,628,280 8,338,358	For the Fiscal Year I 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 00000 to Recognize in For the Fiscal Year I 2017 (791,356) 1,501,434 7,628,280 8,338,358 00000 to Recognize in	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense Ending June 30 2018 (791,356) 1,501,434 7,628,280 8,338,358 n Pension Expense	(1,579,369) 2,996,526 15,224,344 16,641,501 <b>2019</b> (261,148) 495,473 2,517,333
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (State)	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at 6/30/2015 0,181% (3,800,591) 7,210,830 36,635,801 40,046,040 (2) Proportionate Share at 6/30/2015 0,181%	Proportionate Share at (30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at 6/30/2016 62,037,973 67,812,770 (3) Proportionate Share at 6/30/2016 0,307%	Change in Proportionate Share           (15,937,282)           30,237,678           153,627,475           167,927,871           (3) - (2)           Change in Proportionate Share           (2,635,216)           4,999,775           25,402,172           27,766,730           (3) - (2)           Change in Proportionate Share	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) Recognition Period (Years)	2016 2016 (4,785,971) 9,080,384 46,134,377 50,428,790 (791,356) 1,501,434 7,628,280 8,338,358 Am 12016	For the Fiscal Year I 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 00000 to Recognize in For the Fiscal Year I 2017 (791,356) 1,501,434 7,628,280 8,338,358 00000 to Recognize in For the Fiscal Year I 2017	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 n Pension Expense Ending June 30 2018 (791,356) 1,501,434 7,628,280 8,338,358 n Pension Expense Ending June 30 2018	(1,579,369) 2,996,526 15,224,344 16,641,501 <b>2019</b> (261,148) 495,473 2,517,333 2,751,658 <b>2019</b>
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (State) Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673)	Proportionate Share at (30/2015 14.030% (294,598,246) 558,938,902 2,839,780,604 3,104,121,260 (2) Proportionate Share at 6/30/2015 0.181% (3,800,591) 7,210,830 36,635,801 40,046,040 (2) Proportionate Share at 6/30/2015 0.181% (3,800,591)	Proportionate Share at (30/2016 14.789% (310,535,528) 589,176,580 2,993,408,079 3,272,049,131 (3) Proportionate Share at 6/30/2016 0,307% (6,435,807) 12,210,604 62,037,973 67,812,770 (3) Proportionate Share at 6/30/2016 0,307% (6,435,807)	Change in Proportionate Share           (15,937,282)           30,237,678           153,627,475           167,927,871           (3) - (2)           Change in Proportionate Share           (2,635,216)           4,999,775           25,402,172           27,766,730           (3) - (2)           Change in Proportionate Share           (2,635,216)           (2,635,216)	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) Period (Years) 3.33	2016 (4,785,971) 9,080,384 46,134,377 50,428,790 (791,356) 1,501,434 7,628,280 8,338,358 Am 2016 (791,356)	For the Fiscal Year I 2017 (4,785,971) 9,080,384 46,134,377 50,428,790 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ending June 30 2018 (4,785,971) 9,080,384 46,134,377 50,428,790 2018 (791,356) 1,501,434 7,628,280 8,338,358 n Pension Expense Ending June 30 2018 (791,356)	(1,579,369) 2,996,526 15,224,344 16,641,501 (261,148) 495,473 2,517,333 2,751,658 2019 (261,148)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

HDC/REMIC	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)					
	Collective Amount at 6/30/2015	Share at 6/30/2015 0.053%	Share at 6/30/2016 0.053%	Change in Proportionate Share	Recognition Period (Years)		unt to Recognize in or the Fiscal Year E 2017		2019
Deferred Outflows of Resources	(2,099,773,673)	(1,112,880)	(1,112,880)	0	3.33	0	0	0	0
Deferred Inflows of Resources	3,983,883,832	2,111,458	2,111,458	0	3.33	0	0	0	0
Net Pension Liability	20,240,774,085	10,727,610	10,727,610	0	3.33	0	0	0	0
Total	22,124,884,244	11,726,188	11,726,188	0		0	0	0	0
State Courts	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)					
	Collective Amount at 6/30/2015	Share at 6/30/2015 0.032%	Share at 6/30/2016 0.031%	Change in Proportionate Share	Recognition Period (Years)		unt to Recognize in or the Fiscal Year E 2017		2019
Deferred Outflows of Resources	(2,099,773,673)	(671,928)	(650,930)	20,998	3.33	6,306	6,306	6,306	2,080
Deferred Inflows of Resources	3,983,883,832	1,274,843	1,235,004	(39,839)	3.33	(11,964)	(11,964)	(11,964)	(3,947)
Net Pension Liability	20,240,774,085	6,477,048	6,274,640	(202,408)	3.33	(60,783)	(60,783)	(60,783)	(20,059)
Total	22,124,884,244	7,079,963	6,858,714	(221,249)		(66,441)	(66,441)	(66,441)	(21,926)
SCA	(1)	(2)	(3)	(3) - (2)					
	Collective Amount at 6/30/2015	Proportionate Share at 6/30/2015 0.042%	Proportionate Share at 6/30/2016 0.055%	Change in Proportionate Share	Recognition Period (Years)		unt to Recognize in or the Fiscal Year E 2017		2019
Deferred Outflows of Resources	(2,099,773,673)	(881,905)	(1,154,876)	(272,971)	3.33	(81,973)	(81,973)	(81,973)	(27,052)
Deferred Inflows of Resources	3,983,883,832	1,673,231	2,191,136	517,905	3.33	155,527	155,527	155,527	51,324
Net Pension Liability	20,240,774,085	8,501,125	11,132,426	2,631,301	3.33	790,180	790,180	790,180	260,761
Total	22,124,884,244	9,292,451	12,168,686	2,876,235		863,734	863,734	863,734	285,033
WFA									
WFA	(1)	(2)	(3)	(3) - (2)					
	Collective Amount	Proportionate Share at 6/30/2015	Proportionate Share at 6/30/2016	Change in Proportionate	Recognition Period	F	unt to Recognize in or the Fiscal Year E	nding June 30	
	Collective	Proportionate Share	Proportionate Share	Change in					<b>2019</b> 0
Deferred Outflows	Collective Amount at 6/30/2015	Proportionate Share at 6/30/2015 0.005%	Proportionate Share at 6/30/2016 0.005%	Change in Proportionate Share	Period (Years)	F0 2016	or the Fiscal Year E 2017	nding June 30 2018	
Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2015 (2,099,773,673)	Proportionate Share at 6/30/2015 0.005% (104,989)	Proportionate Share at 6/30/2016 0.005% (104,989)	Change in Proportionate Share 0	Period (Years) 3.33	F0 2016 0	or the Fiscal Year E 2017 0	<b>nding June 30</b> 2018	0
Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832	Proportionate Share at (30/2015 0.005% (104,989) 199,194	Proportionate Share at 6/30/2016 0.005% (104,989) 199,194	Change in Proportionate Share 0	Period (Years) 3.33 3.33	<b>2016</b> 0 0	or the Fiscal Year E 2017 0 0	<b>anding June 30</b> 2018 0	0 0
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2)	Proportionate Share at (30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3)	Change in Proportionate Share 0 0 0	Period (Years) 3.33 3.33	<b>2016</b> 0 0 0	or the Fiscal Year E 2017 0 0 0 0	inding June 30 2018 0 0 0	0 0 0
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244	Proportionate Share at 6/30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244	Proportionate Share at 6/30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244	Change in Proportionate Share 0 0 0 0	Period (Years) 3.33 3.33		or the Fiscal Year E 2017 0 0 0 0	nding June 30 2018 0 0 0 0 0 9 Pension Expense	0 0 0
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at (30/2015	Proportionate Share at (30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at (30/2016	Change in Proportionate Share 0 0 0 0 0 0 0 0 0 Change in Proportionate	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period		or the Fiscal Year E 2017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 9 Pension Expense nding June 30	0 0 0
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at 6/30/2015 1.221%	Proportionate Share at 6/30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at 6/30/2016 1.247%	Change in Proportionate Share 0 0 0 0 0 0 (3) - (2) Change in Proportionate Share	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years)	Amo 2016	or the Fiscal Vear E 2017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 Pension Expense nding June 30 2018	0 0 0 2019
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673)	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at (30/2015 1.221% (25,638,237)	Proportionate Share at 6/30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at 6/30/2016 1.247% (26,184,178)	Change in Proportionate Share 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Period (Years) 3.33 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33	Equiter 2016 0 0 0 0 0 0 0 0 0 0 For 2016 (163,946)	or the Fiscal Vear E 2017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 0 Pension Expense nding June 30 2018 (163,946)	0 0 0 2019 (54,103)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at 6/30/2015 1.221% (25,638,237) 48,643,222	Proportionate Share at 6/30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at 6/30/2016 1.247% (26,184,178) 49,679,031	Change in Proportionate Share 0 0 0 0 0 0 0 0 0 Change in Proportionate Share (545,941) 1,035,809	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33 3.33	Eq. 2016 0 0 0 0 0 0 0 Fe 2016 (163,946) 311,054	unt to Recognize in 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 Pension Expense nding June 30 2018 (163,946) 311,054	0 0 0 0 (54,103) 102,647
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at (30/2015 1.221% (25,638,237) 48,643,222 247,139,852 270,144,837 (2)	Proportionate Share at (30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at (30/2016 1.247% (26,184,178) 49,679,031 252,402,453 275,897,306 (3)	Change in Proportionate Share 0 0 0 0 0 0 0 0 0 (3) - (2) Change in Proportionate Share (545,941) 1,035,809 5,262,601	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33 3.33	2016 0 0 0 0 0 0 7 7 2016 (163,946) 311,054 1,580,361	unt to Recognize in r the Fiscal Year E 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2019 (54,103) 102,647 521,518
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at (30/2015 1.221% (25,638,237) 48,643,222 247,139,852 270,144,837 (2) Proportionate Share at (30/2015	Proportionate Share at (30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at (30/2016 1.247% (26,184,178) 49,679,031 252,402,453 275,897,306 (3) Proportionate Share at (30/2016	Change in Proportionate Share  0  0  0  0  0  0  0  0  0  0  0  0  0	Period (Years)	2016 0 0 0 0 0 0 7 7 7 7 7 7 7 7 7 7 7 6 9 7 7 7 7 7 7 7	or the Fiscal Year E 2017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2019 (54,103) 102,647 521,518 570,062
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at 6/30/2015 1.221% (25,638,237) 48,643,222 247,139,852 270,144,837 (2) Proportionate Share	Proportionate Share at 6/30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at 6/30/2016 1.247% (26,184,178) 49,679,031 252,402,453 275,897,306 (3) Proportionate Share	Change in Proportionate Share 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Period (Years) 3.33 3.33 3.33 3.33 Recognition Period (Years) 3.33 3.33 3.33 3.33 3.33	Amo 1,727,469 Fi 2016 0 0 0 0 0 0 0 0 0 0 0 0 0	vr the Fiscal Vear E 2017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2019 (54,103) 102,647 521,518
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total TBTA Deferred Outflows	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at 6/30/2015 1,221% (25,638,237) 48,643,222 247,139,852 270,144,837 (2) Proportionate Share at 6/30/2015 1,205%	Proportionate Share at (30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at 6/30/2016 1.247% (26,184,178) 49,679,031 252,402,453 275,897,306 (3) Proportionate Share at 6/30/2016 1.266%	Change in Proportionate Share         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           0         0         0           (3) - (2)         Change in Proportionate Share         5,262,601           5,752,469         (3) - (2)         Change in Proportionate Share	Period (Years) 3.33 3.33 3.33 3.33 3.33 Recognition Period (Years) Period	Amo 1,580,361 1,727,469 Amo Fe 2016 Amo Fe 2016 Amo Fe 2016	or the Fiscal Vear E 2017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2019 (54,103) 102,647 521,518 570,062 2019
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Net Pension Liability Total TBTA Deferred Outflows of Resources	Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673) 3,983,883,832 20,240,774,085 22,124,884,244 (1) Collective Amount at 6/30/2015 (2,099,773,673)	Proportionate Share at (30/2015 0.005% (104,989) 199,194 1,012,039 1,106,244 (2) Proportionate Share at 6/30/2015 1,221% (25,638,237) 48,643,222 247,139,852 270,144,837 (2) Proportionate Share at 6/30/2015 1,20%	Proportionate Share at (30/2016 0.005% (104,989) 199,194 1,012,039 1,106,244 (3) Proportionate Share at 6/30/2016 1.247% (26,184,178) 49,679,031 252,402,453 275,897,306 (3) Proportionate Share at 6/30/2016 1.266% (26,583,135)	Change in Proportionate Share  0  0  0  0  0  0  0  0  0  0  0  0  0	Period (Years)	Eq 2016 0 0 0 0 0 0 0 0 0 0 0 0 0	or the Fiscal Vear E 2017 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nding June 30 2018 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2019 (54,103) 102,647 521,518 570,062 2019 (126,933)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

City Other	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)					
	Collective Amount	Share at 6/30/2015	Share at 6/30/2016	Change in Proportionate	Recognition Period		ount to Recognize i for the Fiscal Year		
	at 6/30/2015	54.938%	54.045%	Share	(Years)	2016	2017	2018	2019
Deferred Outflows									
of Resources	(2,099,773,673)	(1,153,573,660)	(1,134,822,680)	18,750,980	3.33	5,630,924	5,630,924	5,630,924	1,858,208
Deferred Inflows									
of Resources	3,983,883,832	2,188,666,100	2,153,090,018	(35,576,082)	3.33	(10,683,508)	(10,683,508)	(10,683,508)	(3,525,558)
Net Pension Liability	20,240,774,085	11,119,876,467	10,939,126,356	(180,750,111)	3.33	(54,279,312)	(54,279,312)	(54,279,312)	(17,912,175)
Total	22,124,884,244	12,154,968,907	11,957,393,694	(197,575,213)		(59,331,896)	(59,331,896)	(59,331,896)	(19,579,525)
Subtotal City	(1)	(2)	(3)	(3) - (2)					
	Collective Amount	Proportionate Share at 6/30/2015	Proportionate Share at 6/30/2016	Change in Proportionate	Recognition Period	1	ount to Recognize i for the Fiscal Year	Ending June 30	
	at 6/30/2015	55.821%	55.079%	Share	(Years)	2016	2017	2018	2019
Deferred Outflows of Resources	(2,099,773,673)	(1,172,114,662)	(1,156,523,842)	15,590,820	3.33	4,681,927	4,681,927	4,681,927	1,545,039
Deferred Inflows									
of Resources	3,983,883,832	2,223,843,794	2,194,263,457	(29,580,337)	3.33	(8,882,984)	(8,882,984)	(8,882,984)	(2,931,385)
Net Pension Liability	20,240,774,085	11,298,602,502	11,148,314,757	(150,287,746)	3.33	(45,131,456)	(45,131,456)	(45,131,456)	(14,893,379)
Total	22,124,884,244	12,350,331,634	12,186,054,372	(164,277,262)		(49,332,513)	(49,332,513)	(49,332,513)	(16,279,725)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Transit Authority	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)							
	Collective Amount at 6/30/2016	Share at 6/30/2016 22.227%	Share at 6/30/2017 22.788%	Change in Proportionate Share	Recognition Period (Years)	2017		nt to Recognize the Fiscal Year 2019			2022
Deferred Outflows of Resources	(5,495,499,634)	(1,221,484,703)	(1,252,314,456)	(30,829,753)	5.60	(5,505,313)	(5,505,313)	(5,505,313)	(5,505,313)	(5,505,313)	(3,303,188)
Deferred Inflows of Resources	3,077,409,462	684,015,802	701,280,068	17,264,266	5.60	3,082,904	3,082,904	3,082,904	3,082,904	3,082,904	1,849,746
Net Pension Liability	24,296,821,898	5,400,454,603	5,536,759,774	136,305,171	5.60	24,340,209	24,340,209	24,340,209	24,340,209	24,340,209	14,604,126
Total	21,878,731,726	4,862,985,702	4,985,725,386	122,739,684		21,917,800	21,917,800	21,917,800	21,917,800	21,917,800	13,150,684
ТА ТР	(1) Collective Amount at 6/30/2016	(2) Proportionate Share at 6/30/2016 0.672%	(3) Proportionate Share at 6/30/2017 0.696%	(3) - (2) Change in Proportionate Share	Recognition Period (Years)	2017		nt to Recognize • the Fiscal Year 2019			2022
Deferred Outflows of Resources	(5,495,499,634)	(36,929,758)	(38,248,677)	(1,318,919)	5.60	(235,521)	(235,521)	(235,521)	(235,521)	(235,521)	(141,314)
Deferred Inflows of Resources	3,077,409,462	20,680,192	21,418,770	738,578	5.60	131,889	131,889	131,889	131,889	131,889	79,133
Net Pension Liability	24,296,821,898	163,274,643	169,105,880	5,831,237	5.60	1,041,292	1,041,292	1,041,292	1,041,292	1,041,292	624,777
Total	21,878,731,726	147,025,077	152,275,973	5,250,896		937,660	937,660	937,660	937,660	937,660	562,596
Housing Authority	(1) Collective Amount	(2) Proportionate Share at 6/30/2016	(3) Proportionate Share at 6/30/2017	(3) - (2) Change in Proportionate	Recognition Period		For	nt to Recognize • the Fiscal Year	Ending June 3	50	
Deferred Outflows	at 6/30/2016	4.997%	4.973%	Share	(Years)	2017	2018	2019	2020	2021	2022
of Resources	(5,495,499,634)	(274,610,117)	(273,291,197)	1,318,920	5.60	235,521	235,521	235,521	235,521	235,521	141,315
Deferred Inflows of Resources	3,077,409,462	153,778,151	153,039,572	(738,579)	5.60	(131,889)	(131,889)	(131,889)	(131,889)	(131,889)	(79,134)
Net Pension Liability	24,296,821,898	1,214,112,190	1,208,280,953	(5,831,237)	5.60	(1,041,292)	(1,041,292)	(1,041,292)	(1,041,292)	(1,041,292)	(624,777)
Total	21,878,731,726	1,093,280,224	1,088,029,328	(5,250,896)		(937,660)	(937,660)	(937,660)	(937,660)	(937,660)	(562,596)
ннс	(1)	(2)	(3)	(3) - (2)							
	Collective Amount	Proportionate Share at 6/30/2016 14.789%	Proportionate Share at 6/30/2017	Change in Proportionate	Recognition Period	2017	For	nt to Recognize the Fiscal Year		60	2022
Deferred Outflows of Resources	at 6/30/2016 (5,495,499,634)	(812,729,441)	14.788% (812,674,486)	Share 54,955	(Years) 5.60	9,813	<b>2018</b> 9,813	<b>2019</b> 9,813	9,813	9,813	2022 5,890
Deferred Inflows of Resources	3,077,409,462	455,118,085	455,087,311	(30,774)	5.60	(5,495)	(5,495)	(5,495)	(5,495)	(5,495)	(3,299)
Net Pension Liability	24,296,821,898	3,593,256,990	3,593,014,022	(242,968)	5.60	(43,387)	(43,387)	(43,387)	(43,387)	(43,387)	(26,033)
Total	21,878,731,726	3,235,645,634	3,235,426,847	(218,787)		(39,069)	(39,069)	(39,069)	(39,069)	(39,069)	(23,442)
OTB (City)	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)							
	Collective Amount at 6/30/2016	Share at 6/30/2016 0.307%	Share at 6/30/2017 0.278%	Change in Proportionate Share	Recognition Period (Years)	2017		nt to Recognize the Fiscal Year 2019	•		2022
Deferred Outflows of Resources	(5,495,499,634)	(16,843,707)	(15,277,489)	1,566,218	5.60	279,682	279,682	279,682	279,682	279,682	167,810
Deferred Inflows of Resources	3,077,409,462	9,432,260	8,555,199	(877,062)	5.60	(156,618)	(156,618)	(156,618)	(156,618)	(156,618)	(93,972)
Net Pension Liability	24,296,821,898	74,469,759	67,545,165	(6,924,594)	5.60	(1,236,535)	(1,236,535)	(1,236,535)	(1,236,535)	(1,236,535)	(741,922)
Total				(( 225 420)		(1,113,471)	(1,113,471)	(1,113,471)	(1,113,471)	(1,113,471)	(668,083)
	21,878,731,726	67,058,313	60,822,875	(6,235,438)				(1,115,471)	(1,115,471)	(1,115,471)	
OTB (State)	(1)	(2)	(3)	(3) - (2)				(1,115,471)	(1,115,471)	(1,115,471)	
OTB (State)	(1) Collective Amount	(2) Proportionate Share at 6/30/2016	(3) Proportionate Share at 6/30/2017	(3) - (2) Change in Proportionate	Recognition Period		For	nt to Recognize the Fiscal Year	in Pension Exp Ending June 3	ense 60	
OTB (State) Deferred Outflows of Resources	(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(3) - (2) Change in		<u>2017</u> 279,682		nt to Recognize	in Pension Exp	ense	<b>2022</b> 167,810
Deferred Outflows	(1) Collective Amount at 6/30/2016	(2) Proportionate Share at 6/30/2016 0.307%	(3) Proportionate Share at 6/30/2017 0.278%	(3) - (2) Change in Proportionate Share	Period (Years)	2017	For 2018	nt to Recognize the Fiscal Year 2019	in Pension Exp Ending June 3 2020	ense 60 2021	
Deferred Outflows of Resources Deferred Inflows	(1) Collective Amount at 6/30/2016 (5,495,499,634)	(2) Proportionate Share at 6/30/2016 0.307% (16,843,707)	(3) Proportionate Share at 6/30/2017 0.278% (15,277,489)	(3) - (2) Change in Proportionate Share 1,566,218	Period (Years) 5.60	<u>2017</u> 279,682	For 2018 279,682	nt to Recognize the Fiscal Year 2019 279,682	in Pension Exp Ending June 3 2020 279,682	ense 80 2021 279,682	167,810

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

HDC/REMIC	(1) Collective Amount	(2) Proportionate Share at 6/30/2016	(3) Proportionate Share at 6/30/2017	(3) - (2) Change in Proportionate	Recognition Period		For	the Fiscal Year	in Pension Exp r Ending June 3	0	
Deferred Outflows of Resources	at 6/30/2016 (5,495,499,634)	0.053%	0.053%	0	(Years) 5.60	0	<b>2018</b> 0	<b>2019</b> 0	<b>2020</b>	<b>2021</b> 0	<u>2022</u> 0
Deferred Inflows of Resources	3,077,409,462	1,631,027	1,631,027	0	5.60	0	0	0	0	0	0
Net Pension Liability	24,296,821,898	12,877,316	12,877,316	0	5.60	0	0	0	0	0	0
Total	21,878,731,726	11,595,728	11,595,728	0		0	0	0	0	0	0
State Courts	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)							
	Collective Amount	Share at 6/30/2016	Share at 6/30/2017	Change in Proportionate	Recognition Period		For	the Fiscal Year	in Pension Exp Ending June 3	0	
Deferred Outflows of Resources	at 6/30/2016 (5,495,499,634)	0.031% (1,703,605)	0.036%	Share (274,775)	(Years) 5.60	(49,067)	2018 (49,067)	2019 (49,067)	<b>2020</b> (49,067)	2021 (49,067)	(29,440)
Deferred Inflows of Resources	3,077,409,462	953,997	1,107,867	153,870	5.60	27,477	27,477	27,477	27,477	27,477	16,485
Net Pension Liability	24,296,821,898	7,532,015	8,746,856	1,214,841	5.60	216,936	216,936	216,936	216,936	216,936	130,161
Total	21,878,731,726	6,782,407	7,876,343	1,093,936		195,346	195,346	195,346	195,346	195,346	117,206
SCA	(1)	(2)	(3)	(3) - (2)							
	Collective Amount at 6/30/2016	Proportionate Share at 6/30/2016 0.055%	Proportionate Share at 6/30/2017 0.040%	Change in Proportionate Share	Recognition Period (Years)	2017			in Pension Exp Ending June 3 2020		2022
Deferred Outflows of Resources	(5,495,499,634)	(3,022,525)	(2,198,200)	824,325	5.60	147,201	147,201	147,201	147,201	147,201	88,320
Deferred Inflows of Resources	3,077,409,462	1,692,575	1,230,964	(461,611)	5.60	(82,431)	(82,431)	(82,431)	(82,431)	(82,431)	(49,456)
Net Pension Liability	24,296,821,898	13,363,252	9,718,729	(3,644,523)	5.60	(650,808)	(650,808)	(650,808)	(650,808)	(650,808)	(390,483)
Total	21,878,731,726	12,033,302	8,751,493	(3,281,809)		(586,038)	(586,038)	(586,038)	(586,038)	(586,038)	(351,619)
WFA	(1)	(2)	(3)	(3) - (2)							
	(1)			(3) - (2)							
	Collective Amount	Proportionate Share at 6/30/2016	Proportionate Share at 6/30/2017	Change in Proportionate	Recognition Period (Voorge)	2017	For	the Fiscal Year	in Pension Exp Ending June 3	0	2022
Deferred Outflows of Resources	Collective	Proportionate Share	Proportionate Share	Change in		<b>2017</b> 9,813					<b>2022</b> 5,890
Deferred Outflows	Collective Amount at 6/30/2016	Proportionate Share at 6/30/2016 0.005%	Proportionate Share at 6/30/2017 0.004%	Change in Proportionate Share	Period (Years)	-	For 2018	the Fiscal Year 2019	Ending June 3 2020	0 2021	
Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2016 (5,495,499,634)	Proportionate Share at 6/30/2016 0.005% (274,775)	Proportionate Share at 6/30/2017 0.004% (219,820)	Change in Proportionate Share 54,955	Period (Years) 5.60	9,813	For 2018 9,813	the Fiscal Year 2019 9,813	9,813	0 2021 9,813	5,890
Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462	Proportionate Share at (53)2016 0.005% (274,775) 153,870	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096	Change in Proportionate Share 54,955 (30,774)	Period (Years) 5.60 5.60	9,813 (5,495)	For 2018 9,813 (5,495)	the Fiscal Year 2019 9,813 (5,495)	r Ending June 3 2020 9,813 (5,495)	0 2021 9,813 (5,495)	5,890 (3,299)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (I) Collective	Proportionate Share at 6/30/2016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share	Change in Proportionate Share 54,955 (30,774) (242,968) (218,787) (3) - (2) Change in	Period (Years) 5.60 5.60 5.60	9,813 (5,495) (43,387)	For 2018 9,813 (5,495) (43,387) (39,069) Amou	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp	0 2021 9,813 (5,495) (43,387) (39,069) ense	5,890 (3,299) (26,033)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1)	Proportionate Share at (3)02016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate	Change in Proportionate Share 54,955 (30,774) (242,968) (218,787) (3) - (2)	Period (Years) 5.60 5.60 5.60	9,813 (5,495) (43,387)	For 2018 9,813 (5,495) (43,387) (39,069) Amou	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069)	0 2021 9,813 (5,495) (43,387) (39,069) ense	5,890 (3,299) (26,033)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount	Proportionate Share at 6/30/2016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at 6/30/2016	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017	Change in Proportionate Share 54,955 (30,774) (242,968) (218,787) (3) - (2) Change in	Period (Years) 5.60 5.60 5.60 Recognition Period	9,813 (5,495) (43,387) (39,069)	For 2018 9,813 (5,495) (43,387) (39,069) Amou For	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) • the Fiscal Year	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp. r Ending June 3	0 2021 9,813 (5,495) (43,387) (39,069)	5,890 (3,299) (26,033) (23,442)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016	Proportionate Share at 6/30/2016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at 6/30/2016 1.247%	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167%	Change in Proportionate Share 54,955 (30,774) (242,968) (218,787) (3) - (2) Change in Proportionate Share	Period (Years) 5.60 5.60 5.60 Recognition Period (Years)	9,813 (5,495) (43,387) (39,069) 2017	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize the Fiscal Year 2019	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp. r Ending June 3 2020	0 2021 9,813 (5,495) (43,387) (39,069) ense 0 2021	5,890 (3,299) (26,033) (23,442) <b>2022</b>
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (5,495,499,634)	Proportionate Share at 6/30/2016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at 6/30/2016 1,247% (68,528,880)	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167% (64,132,481)	Change in Proportionate Share           54,955           (30,774)           (242,968)           (218,787)           (3) - (2)           Change in Proportionate Share           4,396,399	Period (Years) 5.60 5.60 5.60 Recognition Period (Years) 5.60	9,813 (5,495) (43,387) (39,069) <u>2017</u> 785,071	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018 785,071	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize • the Fiscal Year 2019 785,071	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp r Ending June 3 2020 785,071	0 2021 9,813 (5,495) (43,387) (39,069) 2021 785,071	5,890 (3,299) (26,033) (23,442) <u>2022</u> 471,044
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462	Proportionate Share at 6/30/2016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at 6/30/2016 1.247% (68,528,880) 38,375,296	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167% (64,132,481) 35,913,368	Change in Proportionate Share 54,955 (30,774) (242,968) (218,787) (3) - (2) Change in Proportionate Share 4,396,399 (2,461,928)	Period (Years) 5.60 5.60 5.60 Recognition Period (Years) 5.60 5.60	9,813 (5,495) (43,387) (39,069) 2017 785,071 (439,630)	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018 785,071 (439,630)	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize the Fiscal Year 2019 785,071 (439,630)	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp F Ending June 3 2020 785,071 (439,630)	0 2021 9,813 (5,495) (43,387) (39,069) 2021 785,071 (439,630)	5,890 (3,299) (26,033) (23,442) <b>2022</b> 471,044 (263,778)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1)	Proportionate Share at (3)02016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at (3)02016 1.247% (68,528,880) 38,375,296 302,981,369 272,827,785 (2) Proportionate	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167% (64,132,481) 35,913,368 283,543,912 255,324,799 (3) Proportionate	Change in Proportionate Share           54,955           (30,774)           (242,968)           (218,787)           (3) - (2)           Change in Proportionate Share           4,396,399           (2,461,928)           (19,437,457)           (17,502,986)           (3) - (2)	Period (Years) 5.60 5.60 5.60 Recognition Period (Years) 5.60 5.60 5.60	9,813 (5,495) (43,387) (39,069) 2017 785,071 (439,630) (3,470,974)	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018 785,071 (439,630) (3,470,974) (3,125,533)	* the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize the Fiscal Year 2019 785,071 (439,630) (3,470,974) (3,125,533)	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp F Ending June 3 2020 785,071 (439,630) (3,470,974) (3,125,533)	0 2021 9,813 (5,495) (43,387) (39,069) 2021 785,071 (439,630) (3,470,974) (3,125,533)	5,890 (3,299) (26,033) (23,442) <b>2022</b> 471,044 (263,778) (2,082,587)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount	Proportionate Share at (3)302016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at (3)302016 1,247% (68,528,880) 38,375,296 302,981,369 272,827,785 (2) Proportionate Share at (6)30/2016	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167% (64,132,481) 35,913,368 283,543,912 255,324,799 (3) Proportionate Share at 6/30/2017	Change in Proportionate Share           54,955           (30,774)           (242,968)           (218,787)           (3) - (2)           Change in Proportionate Share           4,396,399           (2,461,928)           (19,437,457)           (17,502,986)           (3) - (2)           Change in Proportionate	Period (Years) 5.60 5.60 5.60 Recognition Period (Years) 5.60 5.60 5.60 5.60	9,813 (5,495) (43,387) (39,069) 2017 785,071 (439,630) (3,470,974) (3,125,533)	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018 785,071 (439,630) (3,470,974) (3,125,533) Amou For	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) • the Fiscal Year 2019 785,071 (439,630) (3,470,974) (3,125,533) • the Fiscal Year	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp r Ending June 3 2020 785,071 (439,630) (3,470,974) (3,125,533) in Pension Exp r Ending June 3	0 2021 9,813 (5,495) (43,387) (39,069) 2021 785,071 (439,630) (3,470,974) (3,125,533) cense 0	5,890 (3,299) (26,033) (23,442) <b>2022</b> 471,044 (263,778) (2,082,587) (1,875,321)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective	Proportionate Share at (53)(2016 0.005% (274,775) 153,870 1.214,841 1.093,936 (2) Proportionate Share at 6/30/2016 1.247% (68,528,880) 38,375,296 302,981,369 272,827,785 (2) Proportionate Share	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167% (64,132,481) 35,913,368 283,543,912 255,324,799 (3) Proportionate Share	Change in Proportionate Share           54,955           (30,774)           (242,968)           (218,787)           (3) - (2)           Change in Proportionate Share           4,396,399           (2,461,928)           (19,437,457)           (17,502,986)           (3) - (2)           Change in	Period (Years) 5.60 5.60 5.60 Period (Years) 5.60 5.60 5.60 5.60	9,813 (5,495) (43,387) (39,069) 2017 785,071 (439,630) (3,470,974)	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018 785,071 (439,630) (3,470,974) (3,125,533)	• the Fiscal Veat 2019 9,813 (5,495) (43,387) (39,069) • the Fiscal Veat 2019 785,071 (439,630) (3,470,974) (3,125,533) • the Recognize	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp r Ending June 3 2020 785,071 (439,630) (3,470,974) (3,125,533) in Pension Exp	0 2021 9,813 (5,495) (43,387) (39,069) 2021 785,071 (439,630) (3,470,974) (3,125,533) ense	5,890 (3,299) (26,033) (23,442) <b>2022</b> 471,044 (263,778) (2,082,587)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total TBTA Deferred Outflows	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (1) Collective 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016	Proportionate Share at (3/3/2016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at 6/30/2016 1,247% (68,528,880) 38,375,296 302,981,369 272,827,785 (2) Proportionate Share at 6/30/2016 1,266%	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167% (64,132,481) 35,913,368 283,543,912 255,324,799 (3) Proportionate Share at 6/30/2017 1.308%	Change in Proportionate Share           54,955           (30,774)           (242,968)           (218,787)           (3) - (2)           Change in Proportionate Share           4,396,399           (2,461,928)           (19,437,457)           (17,502,986)           (3) - (2)           Change in Proportionate Share	Period (Years) 5.60 5.60 5.60 Period (Years) 5.60 5.60 5.60 5.60 5.60	9,813 (5,495) (43,387) (39,069) 2017 785,071 (439,630) (3,470,974) (3,125,533) 2017	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018 785,071 (439,630) (3,470,974) (3,125,533) Amou For 2018	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize • the Fiscal Year 2019 785,071 (439,630) (3,470,974) (3,125,533) nt to Recognize • the Fiscal Year 2019	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp r Ending June 3 2020 785,071 (439,630) (3,470,974) (3,125,533) in Pension Exp r Ending June 3 2020	0 2021 9,813 (5,495) (43,387) (39,069) 2021 785,071 (439,630) (3,470,974) (3,125,533) ense 0 2021	5,890 (3,299) (26,033) (23,442) <b>2022</b> 471,044 (263,778) (2,082,587) (1,875,321) <b>2022</b>
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Net Pension Liability Total TBTA Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (5,495,499,634) 3,077,409,462 24,296,821,898 21,878,731,726 (1) Collective Amount at 6/30/2016 (5,495,499,634)	Proportionate Share at (3/3/2016 0.005% (274,775) 153,870 1,214,841 1,093,936 (2) Proportionate Share at 6/30/2016 1,247% (68,528,880) 38,375,296 302,981,369 272,827,785 (2) Proportionate Share at 6/30/2016 1,266% (69,573,025)	Proportionate Share at 6/30/2017 0.004% (219,820) 123,096 971,873 875,149 (3) Proportionate Share at 6/30/2017 1.167% (64,132,481) 35,913,368 283,543,912 255,324,799 (3) Proportionate Share at 6/30/2017 1.308% (71,881,135)	Change in Proportionate Share           54,955           (30,774)           (242,968)           (218,787)           (3) - (2)           Change in Proportionate Share           4,396,399           (2,461,928)           (19,437,457)           (17,502,986)           (3) - (2)           Change in Proportionate Share           (2,308,110)	Period (Years) 5.60 5.60 5.60 Period (Years) 5.60 5.60 5.60 5.60 5.60 5.60	9,813 (5,495) (43,387) (39,069) 2017 785,071 (439,630) (3,470,974) (3,125,533) 2017 (412,163)	For 2018 9,813 (5,495) (43,387) (39,069) Amou For 2018 785,071 (439,630) (3,470,974) (3,125,533) (3,470,974) (3,125,533) Amou For 2018 (412,163)	• the Fiscal Year 2019 9,813 (5,495) (43,387) (39,069) nt to Recognize • the Fiscal Year 2019 785,071 (439,630) (3,470,974) (3,125,533) nt to Recognize • the Fiscal Year 2019 (412,163)	r Ending June 3 2020 9,813 (5,495) (43,387) (39,069) in Pension Exp r Ending June 3 2020 785,071 (439,630) (3,470,974) (3,125,533) in Pension Exp r Ending June 3 2020 (412,163)	0 2021 9,813 (5,495) (43,387) (39,069) 2021 785,071 (439,630) (3,470,974) (3,125,533) conse 0 2021 (412,163)	5,890 (3,299) (26,033) (23,442) <b>2022</b> 471,044 (263,778) (2,082,587) (1,875,321) <b>2022</b> (247,295)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

City Other	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)							
	Collective Amount	Share at 6/30/2016	Share at 6/30/2017	Change in Proportionate	Recognition Period			0	e in Pension Exp r Ending June 3		
	at 6/30/2016	54.045%	53.591%	Share	(Years)	2017	2018	2019	2020	2021	2022
Deferred Outflows											
of Resources	(5,495,499,634)	(2,970,042,777)	(2,945,093,209)	24,949,568	5.60	4,455,282	4,455,282	4,455,282	4,455,282	4,455,282	2,673,158
Deferred Inflows											
of Resources	3,077,409,462	1,663,185,944	1,649,214,505	(13,971,437)	5.60	(2,494,900)	(2,494,900)	(2,494,900)	(2,494,900)	(2,494,900)	(1,496,937)
Net Pension Liability	24,296,821,898	13,131,217,395	13,020,909,823	(110,307,573)	5.60	(19,697,782)	(19,697,782)	(19,697,782)	(19,697,782)	(19,697,782)	(11,818,663)
Total	21,878,731,726	11,824,360,562	11,725,031,119	(99,329,442)		(17,737,400)	(17,737,400)	(17,737,400)	(17,737,400)	(17,737,400)	(10,642,442)
Subtotal City	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)							
	Collective Amount	Share at 6/30/2016	Share at 6/30/2017	Change in Proportionate	Recognition Period			0	e in Pension Exp r Ending June 3		
	at 6/30/2016	55.079%	54.605%	Share	(Years)	2017	2018	2019	2020	2021	2022
Deferred Outflows of Resources	at 6/30/2016 (5,495,499,634)	<u>55.079%</u> (3,026,838,767)	<u>54.605%</u> (3,000,817,575)	Share 26,021,192	(Years) 5.60	4,646,644	<b>2018</b> 4,646,644	<b>2019</b> 4,646,644	<b>2020</b> 4,646,644	<b>2021</b> 4,646,644	2022 2,787,974
of Resources Deferred Inflows	(5,495,499,634)	(3,026,838,767)	(3,000,817,575)	26,021,192	5.60	4,646,644	4,646,644	4,646,644	4,646,644	4,646,644	2,787,974

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

		(1)	(2) Proportionate	(3) Proportionate	(3) - (2)								
Deferred Outlines of Resurces         (1023.07345)         (233.200,15)         (290,005,00)         2.071,851         6.01         444,567         444,579         456,5789 <th></th> <th>Amount</th> <th>Share at 6/30/2017</th> <th>Share at 6/30/2018</th> <th>Proportionate</th> <th>Period</th> <th>2018</th> <th>For</th> <th>the Fiscal Year</th> <th>r Ending June 3</th> <th>D</th> <th>2023</th> <th>2024</th>		Amount	Share at 6/30/2017	Share at 6/30/2018	Proportionate	Period	2018	For	the Fiscal Year	r Ending June 3	D	2023	2024
of Resurves         1.402.610.637         319.626.913         315.966.989         (3.600.815)         6.01         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (090.12)         (000.12)												444,567	4,449
Total         21,145,180,200         4,818,556,865         4,765,374,765         (55,188,20)         (9,182,849)         (9,182,84)         (9,182,84)         (9,182,84)         (9,182,84)         (9,182,84)         <		1,402,610,637	319,626,913	315,966,098	(3,660,815)	6.01	(609,121)	(609,121)	(609,121)	(609,121)	(609,121)	(609,121)	(6,089)
TATP         (1)         (2) Propertinate at 630/2017         (3) Propertinate at 630/2017         (4) Propertinate at 630/2017         (4) Propertinate Propertinate at 630/2018         (4) Propertinate Propertinate Propertinate Propertinate Propertinate Propertinate Propertinate Propertinate At 630/2017         (4) Propertinate Pr	Net Pension Liability	20,766,266,998	4,732,216,923	4,678,016,967	(54,199,956)	6.01	(9,018,295)	(9,018,295)	(9,018,295)	(9,018,295)	(9,018,295)	(9,018,295)	(90,186)
Propertmante Amount at 6302017         Propertmante st 6302017         Propertmante st 6302018         Change in st 6302018         Receptition Propertmante (Nero)         Amount to Receptica IP exists E years 30 2019         2020         2021         2022         2023         2024         2024         2024         2024<	Fotal	21,145,180,290	4,818,563,685	4,763,374,765	(55,188,920)		(9,182,849)	(9,182,849)	(9,182,849)	(9,182,849)	(9,182,849)	(9,182,849)	(91,826)
Celective ansoning of Concerned of Resources         Share (2022017)         Share (2022017)         Share (2022017)         Share (2022017)         Share (2022017)         Share (2022017)         Amount (202207)         Amount (202207	ГА ТР	(1)	(2)	(3)	(3) - (2)								
of Resources         (1,023,697,345)         (7,124,934)         (7,687,967)         (563,033)         6.01         (93,683)         (93,683		Amount	Share at 6/30/2017	Share at 6/30/2018	Proportionate	Period	2018	For	the Fiscal Year	r Ending June 3	0	2023	2024
of Resources         1,402,610,637         9,762,170         10,533,606         771,436         6.01         128,359 <td></td> <td>(1,023,697,345)</td> <td>(7,124,934)</td> <td>(7,687,967)</td> <td>(563,033)</td> <td>6.01</td> <td>(93,683)</td> <td>(93,683)</td> <td>(93,683)</td> <td>(93,683)</td> <td>(93,683)</td> <td>(93,683)</td> <td>(935)</td>		(1,023,697,345)	(7,124,934)	(7,687,967)	(563,033)	6.01	(93,683)	(93,683)	(93,683)	(93,683)	(93,683)	(93,683)	(935)
Total         21,145,180,290         147,170,454         158,800,304         11,629,850         1.935,083         1,935,083		1,402,610,637	9,762,170	10,533,606	771,436	6.01	128,359	128,359	128,359	128,359	128,359	128,359	1,282
Total         21,145,180,290         147,170,454         158,800,304         11,629,850         1.935,083         1,935,083												1,900,407	19,005
Propertionate Annount         Propertionate share at 6302017         Propertionate share at 6302018         Propertionate share at 6302018         Recegnition Period         Amount to Recegnize in Persion Expense           Deferred Outflows of Resources         1,023,697,345)         (50,008,469)         (50,007,616)         900,853         6.01         149,893	-											1,935,083	19,352
Proportionate Annount         Proportionate share at 6/30/2017         Proportionate share at 6/30/2017         Proportionate share at 6/30/2017         Recention exists         Amount to Recentize in Persion Expense For the Fiscal Year Ending Jane 30         2021         2022         2           Deferred Outflows of Resources         (1,023,697,345)         (50,008,469)         (50,007,616)         900,853         6.01         149,893	Housing Authority	(1)	(2)	(3)	(3) - (2)								
Deferred Outflows of Resources         (1.023,697,345)         (50,908,469)         (50,007,616)         900,853         6.01         149,893 <td></td> <td>Collective Amount</td> <td>Proportionate Share at 6/30/2017</td> <td>Proportionate Share at 6/30/2018</td> <td>Change in Proportionate</td> <td>Period</td> <td>2019</td> <td>For</td> <td>the Fiscal Year</td> <td>r Ending June 3</td> <td>D</td> <td>2023</td> <td>2024</td>		Collective Amount	Proportionate Share at 6/30/2017	Proportionate Share at 6/30/2018	Change in Proportionate	Period	2019	For	the Fiscal Year	r Ending June 3	D	2023	2024
of Resources         1,402,610,637         69,751,827         68,517,529         (1,234,298)         6.01         (205,374)         (3040,652)         (3,040,												149,893	1,495
Total         21,145,180,290         1,051,549,816         1,032,942,056         (18,607,760)         (3,096,133)		1,402,610,637	69,751,827	68,517,529	(1,234,298)	6.01	(205,374)	(205,374)	(205,374)	(205,374)	(205,374)	(205,374)	(2,054)
HHC         (1)         (2)         (3)         (3) - (2)           Proportionate         Proportionate         Proportionate         Ansount         Amount to Recognize in Pension Expense           Amount         at 6/30/2017         at 6/30/2017         at 6/30/2018         Proportionate         Period         For the Fiscal Year Ending June 30           Deferred Outflows of Resources         (1,023,697,345)         (151,384,363)         (153,790,052)         (2,405,689)         6.01         (400,281)         <	Net Pension Liability	20,766,266,998	1,032,706,458	1,014,432,143	(18,274,315)	6.01	(3,040,652)	(3,040,652)	(3,040,652)	(3,040,652)	(3,040,652)	(3,040,652)	(30,403)
Proportionate Amount at 6/30/2017         Proportionate Share at 6/30/2017         Proportionate Share at 6/30/2018         Proportionate Share at 6/30/2018         Recognition Proportionate Proportionate Proportionate         Amount to Recognize in Pension Expense For the Fiscal Year Ending June 30           Deferred Outflows of Resources         (1,023,697,345)         (151,384,363)         (153,790,052)         (2,405,689)         6.01         (400,281)	Fotal	21,145,180,290	1,051,549,816	1,032,942,056	(18,607,760)		(3,096,133)	(3,096,133)	(3,096,133)	(3,096,133)	(3,096,133)	(3,096,133)	(30,962)
Collective Amount         Share at 6/30/2017         Share at 6/30/2018         Share result         Change in Proportionate Share         Recognition Period         Amount to Recognize in Pension Expense           Deferred Outflows of Resources         14.788%         15.023%         Share         (Years)         2018         2019         2020         2021         2022         2         2           Deferred Outflows of Resources         (1,023,697,345)         (151,384,363)         (153,790,052)         (2,405,689)         6.01         (400,281)         (400,2	ннс	(1)	(2)	(3)	(3) - (2)								
Deferred Outflows of Resources         (1,023,697,345)         (151,384,363)         (153,790,052)         (2,405,689)         6.01         (400,281)			Share	Share									
Deferred Inflows of Resources         1,402,610,637         207,418,061         210,714,196         3,296,135         6.01         548,442	Deferred Outflows	at 6/30/2017	14.788%	15.023%	Share	(Years)	2018	2019	2020	2021	2022	2023	2024
of Resources         1,402,610,637         207,418,061         210,714,196         3,296,135         6.01         548,442         548,4	of Resources	(1,023,697,345)	(151,384,363)	(153,790,052)	(2,405,689)	6.01	(400,281)	(400,281)	(400,281)	(400,281)	(400,281)	(400,281)	(4,003)
		1,402,610,637	207,418,061	210,714,196	3,296,135	6.01	548,442	548,442	548,442	548,442	548,442	548,442	5,483
Total         21,145,180,290         3,126,949,262         3,176,640,435         49,691,173         8,268,082	Net Pension Liability	20,766,266,998	3,070,915,564	3,119,716,291	48,800,727	6.01	8,119,921	8,119,921	8,119,921	8,119,921	8,119,921	8,119,921	81,201
	Fotal	21,145,180,290	3,126,949,262	3,176,640,435	49,691,173		8,268,082	8,268,082	8,268,082	8,268,082	8,268,082	8,268,082	82,681
OTB (City) (1) (2) (3) (3) - (2) Proportionate Proportionate	OTB (City)	(1)			(3) - (2)								
Collective Share Share Change in Recognition Amount to Recognize in Pension Expense Amount at 6/30/2017 at 6/30/2018 Proportionate Period For the Fiscal Year Ending June 30		Amount	Share at 6/30/2017	Share at 6/30/2018	Proportionate	Period	2018	2019	For the Fis	cal Year Ending	June 30	2023	2024
Deferred Outflows												10,220	102
Deferred Inflows         of Resources         1,402,610,637         3,899,258         3,815,101         (84,157)         6.01         (14,003)         (14,00		1,402,610,637	3,899,258	3,815,101	(84,157)	6.01	(14,003)	(14,003)	(14,003)	(14,003)	(14,003)	(14,003)	(142)
Net Pension Liability         20,766,266,998         57,730,223         56,484,246         (1,245,977)         6.01         (207,317)	Net Pension Liability	20,766,266,998	57,730,223	56,484,246	(1,245,977)	6.01	(207,317)	(207,317)	(207,317)	(207,317)	(207,317)	(207,317)	(2,075)
	Fotal	21,145,180,290	58,783,602	57,514,890	(1,268,712)		(211,100)	(211,100)	(211,100)	(211,100)	(211,100)	(211,100)	(2,115)
101a1    21,143,180,290    36,765,002    57,514,690    (1,206,712)    (211,100)  (211,	OTB (State)	(1)	(2)	(3)	(3) - (2)								
OTB (State) (1) (2) (3) (3) - (2)		Collective Amount	Share at 6/30/2017	Share at 6/30/2018	Change in Proportionate	Recognition Period	2019	2010	For the Fis	cal Year Ending	June 30	2022	2024
OTB (State)     (1)     (2)     (3)     (3) - (2)       Proportionate     Proportionate     Proportionate       Collective     Share     Share     Change in       Amount     at 6/30/2017     at 6/30/2018     Proportionate	Deferred Outflows of Resources	(1,023,697,345)	(2,845,879)	(2,784,457)	61,422	(Years) 6.01	10,220	10,220	10,220	10,220	10,220	<b>2023</b> 10,220	2024 102
OTB (State)     (1)     (2)     (3)     (3) - (2)       Proportionate     Proportionate     Proportionate       Collective     Share     Share     Change in       Amount     at 6/30/2017     at 6/30/2018     Proportionate       Amount     at 6/30/2017     at 6/30/2018       Proportionate     Period     For the Fiscal Year Ending June 30       at 6/30/2017     0.278%     0.272%     Share     (Years)     2018     2019     2020     2021     2022     2		1.402.610.637	3,899,258	3,815,101	(84,157)	6.01	(14.003)	(14,003)	(14,003)	(14,003)	(14,003)	(14,003)	(142)
OTB (State)     (1)     (2)     (3)     (3) - (2)       Proportionate     Proportionate     Proportionate       Collective     Share     Share     Change in     Recognition       Amount     at 6/30/2017     at 6/30/2018     Proportionate     Period       Deferred Outflows of Resources     (1,023,697,345)     (2,845,879)     (2,784,457)     61,422     6.01     10,220     10,220     10,220     10,220     10,220     10,220	of Resources	-,,,,					( ))						
OTB (State)         (1)         (2)         (3)         (3) - (2)           Proportionate         Proportionate         Share         Change in         Recognition         Amount to Recognize in Pension Expense           Amount         at 6/30/2017         0.278%         O.272%         Share         (Years)         2018         2019         2020         2021         2022         2           Deferred Outflows of Resources         (1,023,697,345)         (2,845,879)         (2,784,457)         61,422         6.01         10,220         10,200 <td></td> <td></td> <td></td> <td>56,484,246</td> <td></td> <td></td> <td></td> <td>(207,317)</td> <td>(207,317)</td> <td>(207,317)</td> <td></td> <td>(207,317)</td> <td>(2,075)</td>				56,484,246				(207,317)	(207,317)	(207,317)		(207,317)	(2,075)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Normal controlNormal controlNorma	REMIC	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)								
Deferse bullemin ff kourses         (a)(a)(a)(b)(a)         (b)(a)         (		Amount	Share at 6/30/2017	Share at 6/30/2018	Proportionate	Period	2018	2019	For the Fis	cal Year Ending	June 30	2023	2024
of theorem tension Labeling3.26.250.091.1.66.217.1.50.017.1.50.000.0.010.0.00												3,407	32
Tail         21,14,310,200         11,266,240         (12,256)         (20,37)		1,402,610,637	743,384	715,331	(28,053)	6.01	(4,668)	(4,668)	(4,668)	(4,668)	(4,668)	(4,668)	(45)
State Caurt:         (1)         (2)         (3)         (0) <t< td=""><td>nsion Liability</td><td>20,766,266,998</td><td>11,006,122</td><td>10,590,796</td><td>(415,326)</td><td>6.01</td><td>(69,106)</td><td>(69,106)</td><td>(69,106)</td><td>(69,106)</td><td>(69,106)</td><td>(69,106)</td><td>(690)</td></t<>	nsion Liability	20,766,266,998	11,006,122	10,590,796	(415,326)	6.01	(69,106)	(69,106)	(69,106)	(69,106)	(69,106)	(69,106)	(690)
		21,145,180,290	11,206,946	10,784,041	(422,905)		(70,367)	(70,367)	(70,367)	(70,367)	(70,367)	(70,367)	(703)
Advance         Store at 600007         Store at 600007         Store at 600007         Store at 600007         Recention (Nmm)         Advance 2019         Advance to Recention 2019         <	Courts	(1)	(2)	(3)	(3) - (2)								
of Hommore(1025072)450(200531)(1012)00(31,180)(1013)(0.017)(0.0		Amount	Share at 6/30/2017	Share at 6/30/2018	Proportionate	Period	2018	2019	For the Fis	cal Year Ending	June 30	2023	2024
of Resurvers         [482,010,07]         90,0490         97,5750         70,030         6.01         11,69         11,250 <th< td=""><td></td><td></td><td>(368,531)</td><td>(419,716)</td><td></td><td></td><td>(8,517)</td><td></td><td></td><td></td><td>(8,517)</td><td>(8,517)</td><td>(83)</td></th<>			(368,531)	(419,716)			(8,517)				(8,517)	(8,517)	(83)
Total         21,145,100.200         76,02.265         8,69,523         1,07,258         17,596		1,402,610,637	504,940	575,070	70,130	6.01	11,669	11,669	11,669	11,669	11,669	11,669	116
SCA         (1)         (2)         (3)         (1)         (3)         (2) <td>nsion Liability</td> <td>20,766,266,998</td> <td>7,475,856</td> <td>8,514,169</td> <td>1,038,313</td> <td>6.01</td> <td>172,764</td> <td>172,764</td> <td>172,764</td> <td>172,764</td> <td>172,764</td> <td>172,764</td> <td>1,729</td>	nsion Liability	20,766,266,998	7,475,856	8,514,169	1,038,313	6.01	172,764	172,764	172,764	172,764	172,764	172,764	1,729
Propertinant Ansonit         Propertinant at 63/2017         Propertinant at 63/2018         Propertinant at 63/2018         Propertinant Propertinant at 63/2018         Propertinant Propertinant at 63/2018         Ansonit Propertinant at 63/2018         Ansonit Propertinant Propertinant Propertinant at 63/2018         Ansonit Propertinant Propertinant Propertinant at 63/2018         Ansonit Propertinant Propertinant Propertinant at 63/2018         Ansonit Propertinant Pro		21,145,180,290	7,612,265	8,669,523	1,057,258		175,916	175,916	175,916	175,916	175,916	175,916	1,762
		(1)			(3) - (2)								
Deferred futures of Resurces         (1,023,077,345)         (409,479)         (511,849)         (102,370)         6.01         (17,033)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)         (17,03)<		Amount	Share at 6/30/2017	Share at 6/30/2018	Proportionate	Period	2018	For	the Fiscal Year	r Ending June 30	)	2023	2024
of Resources         1.402.610.637         561,044         701,305         140,261         6.01         23.338												(17,033)	(172)
Tetal         21,145,180.090         8,458.072         10,572,589         2,114517         351,833		1,402,610,637	561,044	701,305	140,261	6.01	23,338	23,338	23,338	23,338	23,338	23,338	233
WFA         (1)         (2)         (3)         (3) - (2)           Proportinate Annual         Share st 6302017         Change in 90.003%         Recognition Share         Recognition (Yeary)         Amount to Recognize in Pension Expense For the Fiscal Year Ending Jane 30           Deferred Outflows of Resources         (1.023,697345)         (40,948)         (30,711)         10,237         6.01         1,703         1	ension Liability	20,766,266,998	8,306,507	10,383,133	2,076,626	6.01	345,528	345,528	345,528	345,528	345,528	345,528	3,458
Propertinate Amount         Propertinate Share         Recognition Share         Recognition Share         Amount to Recognize in Pusion Expense For the Fiscal Year Ending June 30 2019         June 30 2020         June 30 2021         June 30 2022         June 30 2020         June 30 2021         June 30 2022         June 30 2020         June 30 2020         June 30 2021         June 30 2022         June 30 2020         June 30 2023         June 30 2021         June 30 2021 <td>·</td> <td></td> <td>351,833</td> <td>3,519</td>	·											351,833	3,519
Collective Amount at 630/2017         Share at 630/2017         Share at 630/2017         Share at 630/2017         Share at 630/2017         Change in at 630/2017         Recognition Properiment at 630/2017         Amount to experiment Properiment Properiment Properiment         Amount to Properiment Properiment         Amount to Properiment Properiment         Amount to Properiment Properiment         Amount to Properiment         Recognition Properiment         Amount to Properiment         Properiment         Properimant         Properimant         Proper		(1)	(2)	(3)	(3) - (2)								
Deferred Outflows of Resources         (1,023,697345)         (40,948)         (30,711)         10,237         6.01         1,703		Amount	Share at 6/30/2017	Share at 6/30/2018					the Fiscal Year	r Ending June 30	)		
Deferred Inflows of Resources         1,402,610,637         56,104         42,078         (14,026)         6.01         (2,334)         (2,314)         (3,184)         (3,184)         (3,184)         (3,184) <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2023</td><td>2024 19</td></th<>												2023	2024 19
of Resources         1,402,610,637         56,104         42,078         (14,026)         6.01         (2,334)         (34,553)         (34,553)         (34,553)         (34,553)         (34,553)         (34,553)         (34,553)         (34,553)         (34,553)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)         (35,184)		(1,020,007,010)	(10,510)	(30,711)	10,207	0.01	1,705	1,100	1,700	1,705	1,705	1,700	.,
Total         21,145,180,290         845,807         634,355         (211,452)         (35,184)         (21,25)		1,402,610,637	56,104	42,078	(14,026)	6.01	(2,334)	(2,334)	(2,334)	(2,334)	(2,334)	(2,334)	(22)
Senior College         (1)         (2) Proportionate Amount         (3) - (2) Proportionate         Recognition Proportionate         Amount to Recognize in Pension Expense           Deferred Outflows of Resources         1.023,697,345)         (11,946,548)         (13,584,464)         (1,637,916)         6.01         (272,532) <td>nsion Liability</td> <td>20,766,266,998</td> <td>830,651</td> <td>622,988</td> <td>(207,663)</td> <td>6.01</td> <td>(34,553)</td> <td>(34,553)</td> <td>(34,553)</td> <td>(34,553)</td> <td>(34,553)</td> <td>(34,553)</td> <td>(345)</td>	nsion Liability	20,766,266,998	830,651	622,988	(207,663)	6.01	(34,553)	(34,553)	(34,553)	(34,553)	(34,553)	(34,553)	(345)
Proportionate Amount         Proportionate st (30/2017         Proportionate st (30/2017         Proportionate st (30/2018         Proportionate Share st (30/2018         Recognition Period (Years)         Amount to Recognize in Pension Expense For the Fiscal Year Ending June 30           Deferred Outflows of Resources         (1,023,697,345)         (11,946,548)         (13,584,464)         (1,637,916)         6.01         (272,532)         (27		21,145,180,290	845,807	634,355	(211,452)		(35,184)	(35,184)	(35,184)	(35,184)	(35,184)	(35,184)	(348)
at 630/2017         1.167%         1.327%         Share         (Years)         2018         2019         2020         2021         2022         2023           Deferred Outflows of Resources         (1,023,697,345)         (11,946,548)         (13,584,464)         (1,637,916)         6.01         (272,532)	College	Collective	Proportionate Share	Proportionate Share	Change in								
of Resources       (1,023,697,345)       (11,946,548)       (13,584,464)       (1,637,916)       6.01       (272,532)       (27							2018					2023	2024
of Resources         1,402,610,637         16,368,466         18,612,643         2,244,177         6.01         373,407		(1,023,697,345)	(11,946,548)	(13,584,464)	(1,637,916)	6.01	(272,532)	(272,532)	(272,532)	(272,532)	(272,532)	(272,532)	(2,724)
Total         21,145,180,290         246,764,254         280,596,542         33,832,288         5,629,332		1,402,610,637	16,368,466	18,612,643	2,244,177	6.01	373,407	373,407	373,407	373,407	373,407	373,407	3,735
TBTA     (1)     (2)     (3)     (3) - (2)       Proportionate     Proportionate     Proportionate       Collective     Share     Change in     Recognition       Amount     at 6/30/2017     at 6/30/2018     Proportionate       at 6/30/2017     1.308%     1.155%     Share     (Years)       2018     2019     2020     2021     2022     202	nsion Liability	20,766,266,998	242,342,336	275,568,363	33,226,027	6.01	5,528,457	5,528,457	5,528,457	5,528,457	5,528,457	5,528,457	55,285
Proportionate         Proportionate           Collective         Share         Change in         Recognition         Amount to Recognize in Pension Expense           Amount         at 6/30/2017         at 6/30/2017         L155%         Share         Years)         2018         2019         2020         2021         2022         200		21,145,180,290	246,764,254	280,596,542	33,832,288		5,629,332	5,629,332	5,629,332	5,629,332	5,629,332	5,629,332	56,296
Collective         Share         Share         Change in         Recognition         Amount to Recognize in Pension Expense           Amount         at 6/30/2017         at 6/30/2018         Proportionate         Period         For the Fiscal Year Ending June 30           at 6/30/2017         1.308%         1.155%         Share         (Years)         2018         2019         2020         2021         2022         202		(1)			(3) - (2)								
			Share at 6/30/2017	Share at 6/30/2018	Proportionate	Period	2010	For	the Fiscal Year	r Ending June 30	)		
of Resources (1,023,697,345) (13,389,961) (11,823,704) 1,566,257 6.01 260,608		-4 6/20/2017		1.155%	Snare	( y ears)	2018	2019	2020	2021	2022	2023	2024
Deferred Inflows         of Resources         1,402,610,637         18,346,147         16,200,153         (2,145,994)         6.01         (357,071) <td></td> <td></td> <td></td> <td></td> <td>1,566,257</td> <td>6.01</td> <td>260,608</td> <td>260,608</td> <td>260,608</td> <td>260,608</td> <td>260,608</td> <td>260,608</td> <td>2,609</td>					1,566,257	6.01	260,608	260,608	260,608	260,608	260,608	260,608	2,609
	Resources red Inflows	(1,023,697,345)	(13,389,961)	(11,823,704)								260,608	2,609 (3,568)
	Resources red Inflows Resources	(1,023,697,345) 1,402,610,637	(13,389,961) 18,346,147	(11,823,704) 16,200,153	(2,145,994)	6.01	(357,071)	(357,071)	(357,071)	(357,071)	(357,071)		

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

City Other	(1)	(2) Proportionate	(3) Proportionate	(3) - (2)								
	Collective	Share	Share	Change in	Recognition			nt to Recognize				
	Amount	at 6/30/2017	at 6/30/2018	Proportionate	Period			the Fiscal Year	0			
Deferred Outflows	at 6/30/2017	53.591%	53.643%	Share	(Years)	2018	2019	2020	2021	2022	2023	2024
	(1.022.(07.245)	(548,000,044)	(540-141-066)	(522,222)	6.01	(00.572)	(00.573)	(00.572)	(00.573)	(00.573)	(00.573)	(800)
of Resources	(1,023,697,345)	(548,609,644)	(549,141,966)	(532,322)	6.01	(88,572)	(88,572)	(88,572)	(88,572)	(88,572)	(88,572)	(890)
Deferred Inflows												
of Resources	1,402,610,637	751,673,066	752,402,426	729,360	6.01	121,358	121,358	121,358	121,358	121,358	121,358	1,212
	-,,,	,,	,,	,								-,
Net Pension Liability	20,766,266,998	11,128,850,147	11,139,648,608	10,798,461	6.01	1,796,750	1,796,750	1,796,750	1,796,750	1,796,750	1,796,750	17,961
Total	21,145,180,290	11,331,913,569	11,342,909,068	10,995,499		1,829,536	1,829,536	1,829,536	1,829,536	1,829,536	1,829,536	18,283
Subtotal City	(1)	(2)	(3)	(3) - (2)								
		Proportionate	Proportionate	Change in	D		A mon	nt to Recognize	in Poncion Exn	<b>n</b> co		
	Collective	Sharo										
	Collective	Share at 6/30/2017	Share at 6/30/2018	0	Recognition			0	•			
	Amount	at 6/30/2017	at 6/30/2018	Proportionate	Period	2018	For	the Fiscal Year	Ending June 3	0	2023	2024
Deferred Outflows				0	0	2018		0	•		2023	2024
Deferred Outflows of Resources	Amount	at 6/30/2017	at 6/30/2018	Proportionate	Period	<b>2018</b> (189,068)	For	the Fiscal Year	Ending June 3	0	2023	2024
	Amount at 6/30/2017	at 6/30/2017 54.605%	at 6/30/2018 54.716%	Proportionate Share	Period (Years)		For 2019	the Fiscal Year 2020	Ending June 3 2021	0 2022		
	Amount at 6/30/2017	at 6/30/2017 54.605%	at 6/30/2018 54.716%	Proportionate Share	Period (Years)		For 2019	the Fiscal Year 2020	Ending June 3 2021	0 2022		
of Resources	Amount at 6/30/2017	at 6/30/2017 54.605%	at 6/30/2018 54.716%	Proportionate Share	Period (Years)		For 2019	the Fiscal Year 2020	Ending June 3 2021	0 2022		
of Resources Deferred Inflows of Resources	Amount at 6/30/2017 (1,023,697,345) 1,402,610,637	at 6/30/2017 54.605% (558,989,936) 765,895,538	at 6/30/2018 54.716% (560,126,239) 767,452,438	Proportionate Share (1,136,304) 1,556,901	Period (Years) 6.01	(189,068) 259,053	For 2019 (189,068) 259,053	the Fiscal Year 2020 (189,068) 259,053	Ending June 30 2021 (189,068) 259,053	0 2022 (189,068) 259,053	(189,068) 259,053	(1,896) 2,586
of Resources Deferred Inflows	Amount at 6/30/2017 (1,023,697,345)	at 6/30/2017 54.605% (558,989,936)	at 6/30/2018 54.716% (560,126,239)	Proportionate Share (1,136,304)	Period (Years) 6.01	(189,068)	For 2019 (189,068)	the Fiscal Year 2020 (189,068)	Ending June 30 2021 (189,068)	0 2022 (189,068)	(189,068)	(1,896)
of Resources Deferred Inflows of Resources	Amount at 6/30/2017 (1,023,697,345) 1,402,610,637	at 6/30/2017 54.605% (558,989,936) 765,895,538	at 6/30/2018 54.716% (560,126,239) 767,452,438	Proportionate Share (1,136,304) 1,556,901	Period (Years) 6.01	(189,068) 259,053	For 2019 (189,068) 259,053	the Fiscal Year 2020 (189,068) 259,053	Ending June 30 2021 (189,068) 259,053	0 2022 (189,068) 259,053	(189,068) 259,053	(1,896) 2,586

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Transit Authority	(1) Collective Amount	(2) Proportionate Share at 6/30/2018	(3) Proportionate Share at 6/30/2019	(4) Contributions in excess of Proportionate Share and Adjustments	(3) - (2) + (4) Change in Proportionate	Recognition Period				cognize in Pensio cal Year Ending			
	at 6/30/2018	22.527%	23.271%	Share and Adjustments Due to Rounding	Share	(Years)	2019	2020	2021	2022	2023	2024	2025
Deferred Outflows of Resources	(268,782,357)	(60,548,602)	(62,548,199)		(1,999,597)	6.10	(327,803)	(327,803)	(327,803)	(327,803)	(327,803)	(327,803)	(32,779)
Deferred Inflows of Resources	2,692,727,340	606,590,688	626,623,141		20,032,453	6.10	3,284,009	3,284,009	3,284,009	3,284,009	3,284,009	3,284,009	328,399
Net Pension Liability	18,317,695,517	4,126,427,270	4,262,701,134	10,711	136,284,575	6.10	22,341,734	22,341,734	22,341,734	22,341,734	22,341,734	22,341,734	2,234,171
Total	20,741,640,500	4,672,469,356	4,826,776,076	10,711	154,317,431		25,297,940	25,297,940	25,297,940	25,297,940	25,297,940	25,297,940	2,529,791
ТА ТР	(1) Collective Amount	(2) Proportionate Share at 6/30/2018	(3) Proportionate Share at 6/30/2019	(4) Contributions in excess of Proportionate Share and Adjustments	(3) - (2) + (4) Change in Proportionate	Recognition Period			For the Fise	cognize in Pensio cal Year Ending	June 30		
Deferred Outflows of Resources	at 6/30/2018 (268,782,357)	0.751% (2,018,556)	0.710%	Due to Rounding	Share 109,234	(Years) 6.10	2019 17,907	2020 17,907	2021 17,907	2022 17,907	2023 17,907	2024 17,907	1,792
Deferred Inflows													
of Resources	2,692,727,340	20,222,382	19,128,057		(1,094,325)	6.10	(179,398)	(179,398)	(179,398)	(179,398)	(179,398)	(179,398)	(17,937)
Net Pension Liability	18,317,695,517	137,565,893	130,121,574	18,551	(7,425,768)	6.10	(1,217,339)	(1,217,339)	(1,217,339)	(1,217,339)	(1,217,339)	(1,217,339)	(121,734)
Total	20,741,640,500	155,769,719	147,340,309	18,551	(8,410,859)		(1,378,830)	(1,378,830)	(1,378,830)	(1,378,830)	(1,378,830)	(1,378,830)	(137,879)
Housing Authority	(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(4) Contributions in excess of Proportionate	(3) - (2) + (4) Change in	Recognition			Amount to Re	cognize in Pensio	n Expense		
	Amount at 6/30/2018	at 6/30/2018 4.885%	at 6/30/2019 4.439%	Share and Adjustments Due to Rounding	Proportionate Share	Period (Years)	2019	2020	For the Fise 2021	cal Year Ending 2022	June 30 2023	2024	2025
Deferred Outflows of Resources	(268,782,357)	(13,130,018)	(11,930,104)	<b>_</b>	1,199,914	6.10	196,707	196,707	196,707	196,707	196,707	196,707	19,672
Deferred Inflows of Resources	2,692,727,340	131,539,731	119,518,699		(12,021,032)	6.10	(1,970,661)	(1,970,661)	(1,970,661)	(1,970,661)	(1,970,661)	(1,970,661)	(197,066)
Net Pension Liability	18,317,695,517	894,819,426	813,044,493	1,611	(81,773,322)	6.10	(13,405,463)	(13,405,463)	(13,405,463)	(13,405,463)	(13,405,463)	(13,405,463)	(1,340,544)
Total	20,741,640,500	1,013,229,139	920,633,088	1,611	(92,594,440)		(15,179,417)	(15,179,417)	(15,179,417)	(15,179,417)	(15,179,417)	(15,179,417)	(1,517,938)
ннс	(1)	(2)	(3)	(4)	(3) - (2) + (4)								
	Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 15.023%	Proportionate Share at 6/30/2019 13.959%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2019	2020		cognize in Pensio cal Year Ending 2022		2024	2025
Deferred Outflows of Resources	(268,782,357)	(40,379,173)	(37,518,475)		2,860,698	6.10	468,967	468,967	468,967	468,967	468,967	468,967	46,896
Deferred Inflows of Resources	2,692,727,340	404,528,428	375,869,254		(28,659,174)	6.10	(4,698,225)	(4,698,225)	(4,698,225)	(4,698,225)	(4,698,225)	(4,698,225)	(469,824)
Net Pension Liability	18,317,695,517	2,751,867,398	2,556,908,915	(6,879)	(194,965,362)	6.10	(31,961,535)	(31,961,535)	(31,961,535)	(31,961,535)	(31,961,535)	(31,961,535)	(3,196,152)
Total	20,741,640,500	3,116,016,653	2,895,259,694	(6,879)	(220,763,838)		(36,190,793)	(36,190,793)	(36,190,793)	(36,190,793)	(36,190,793)	(36,190,793)	(3,619,080)
OTB (City)	(1)	(2)	(3)	(4)	(3) - (2) + (4)								
	Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 0.272%	Proportionate Share at 6/30/2019 0.319%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2019	2020		cognize in Pensio cal Year Ending 2022		2024	2025
Deferred Outflows of Resources	(268,782,357)	(731,088)	(858,246)	Due to Rounding	(127,158)	6.10	(20,846)	(20,846)	(20,846)	(20,846)	(20,846)	(20,846)	(2,085)
Deferred Inflows of Resources	2,692,727,340	7,324,218	8,598,117		1,273,899	6.10	208,836	208,836	208,836	208,836	208,836	208,836	20,883
Net Pension Liability	18,317,695,517	49,824,132	58,490,027	6,528	8,672,423	6.10	1,421,709	1,421,709	1,421,709	1,421,709	1,421,709	1,421,709	142,172
Total	20,741,640,500	56,417,262	66,229,898	6,528	9,819,164		1,609,699	1,609,699	1,609,699	1,609,699	1,609,699	1,609,699	160,970
OTB (State)													
	(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3) - (2) + (4)								
	Collective Amount	Proportionate Share at 6/30/2018	Proportionate Share at 6/30/2019	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate	Recognition Period (Years)	2019	2020	For the Fise	cognize in Pensio cal Year Ending 2022	June 30	2024	2025
Deferred Outflows of Resources	Collective	Proportionate Share	Proportionate Share	Contributions in excess of Proportionate	Change in		<b>2019</b> (20,846)	2020				(20,846)	2025
	Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 0.272%	Proportionate Share at 6/30/2019 0.319%	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share	Period (Years)			For the Fise 2021	cal Year Ending 2022	June 30 2023		
of Resources Deferred Inflows	Collective Amount at 6/30/2018 (268,782,357)	Proportionate Share at 6/30/2018 0.272% (731,088)	Proportionate Share at 6/30/2019 0.319% (858,246)	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share (127,158)	Period (Years) 6.10	(20,846)	(20,846)	For the Fiss 2021 (20,846)	cal Year Ending. 2022 (20,846)	June 30 2023 (20,846)	(20,846)	(2,085)
of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340	Proportionate Share at 6/30/2018 0.272% (731,088) 7,324,218	Proportionate Share at 6/30/2019 0.319% (858,246) 8,598,117	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share (127,158) 1,273,899	Period (Years) 6.10 6.10	(20,846) 208,836	(20,846) 208,836	For the Fiss 2021 (20,846) 208,836	cal Year Ending. 2022 (20,846) 208,836	June 30 2023 (20,846) 208,836	(20,846) 208,836	(2,085) 20,883

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

HDC/REMIC	(1) Collective Amount at 6/30/2018	(2) Proportionate Share at 6/30/2018 0.051%	(3) Proportionate Share at 6/30/2019 0.054%	(4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	(3) - (2) + (4) Change in Proportionate Share	Recognition Period (Years)	2019	2020		cognize in Pension cal Year Ending J 2022		2024	2025
Deferred Outflows of Resources	(268,782,357)	(137,079)	(145,826)	Due to Kounding	(8,747)	6.10	(1,434)	(1,434)	(1,434)	(1,434)	(1,434)	(1,434)	(143)
Deferred Inflows of Resources	2,692,727,340	1,373,291	1,460,920		87,629	6.10	14,365	14,365	14,365	14,365	14,365	14,365	1,439
Net Pension Liability	18,317,695,517	9,342,025	9,938,133	16,630	612,738	6.10	100,449	100,449	100,449	100,449	100,449	100,449	10,044
Total	20,741,640,500	10,578,237	11,253,227	16,630	691,620		113,380	113,380	113,380	113,380	113,380	113,380	11,340
State Courts	(1) Collective Amount at 6/30/2018	(2) Proportionate Share at 6/30/2018 0.041%	(3) Proportionate Share at 6/30/2019 0.037%	(4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	(3) - (2) + (4) Change in Proportionate Share	Recognition Period (Years)	2019	2020		cognize in Pension cal Year Ending J 2022		2024	2025
Deferred Outflows of Resources	(268,782,357)	(110,201)	(98,773)		11,428	6.10	1,873	1,873	1,873	1,873	1,873	1,873	190
Deferred Inflows of Resources	2,692,727,340	1,104,018	989,533		(114,485)	6.10	(18,768)	(18,768)	(18,768)	(18,768)	(18,768)	(18,768)	(1,877)
Net Pension Liability	18,317,695,517	7,510,255	6,731,453	4,755	(774,047)	6.10	(126,893)	(126,893)	(126,893)	(126,893)	(126,893)	(126,893)	(12,689)
Total	20,741,640,500	8,504,072	7,622,213	4,755	(877,104)		(143,788)	(143,788)	(143,788)	(143,788)	(143,788)	(143,788)	(14,376)
SCA	(1) Collective Amount	(2) Proportionate Share at 6/30/2018	(3) Proportionate Share at 6/30/2019	(4) Contributions in excess of Proportionate Share and Adjustments	(3) - (2) + (4) Change in Proportionate	Recognition Period				cognize in Pension cal Year Ending J			
Deferred Outflows	at 6/30/2018	0.050%	0.082%	Due to Rounding	Share	(Years)	2019	2020	2021	2022	2023	2024	2025
of Resources	(268,782,357)	(134,391)	(219,666)		(85,275)	6.10	(13,980)	(13,980)	(13,980)	(13,980)	(13,980)	(13,980)	(1,395)
Deferred Inflows of Resources	2,692,727,340	1,346,364	2,200,671		854,307	6.10	140,050	140,050	140,050	140,050	140,050	140,050	14,007
Net Pension Liability	18,317,695,517	9,158,848	14,970,406	(16,086)	5,795,472	6.10	950,077	950,077	950,077	950,077	950,077	950,077	95,010
Total	20,741,640,500	10,370,821	16,951,411	(16,086)	6,564,504		1,076,147	1,076,147	1,076,147	1,076,147	1,076,147	1,076,147	107,622
WFA	(1) Collective Amount at 6/30/2018	(2) Proportionate Share at 6/30/2018 0.003%	(3) Proportionate Share at 6/30/2019 0.002%	(4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	(3) - (2) + (4) Change in Proportionate Share	Recognition Period (Years)	2019	2020	For the Fisc	cognize in Pension cal Year Ending J 2022	June 30	2024	2025
WFA Deferred Outflows of Resources	Collective	Proportionate Share	Proportionate Share	Contributions in excess of Proportionate	Change in		<b>2019</b> 386	<b>2020</b> 386				<b>2024</b> 386	<b>2025</b> 40
Deferred Outflows	Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 0.003%	Proportionate Share at 6/30/2019 0.002%	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share	Period (Years)			For the Fisc 2021	al Year Ending J 2022	June 30 2023		
Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2018 (268,782,357)	Proportionate Share at 6/30/2018 0.003% (8,063)	Proportionate Share at 6/30/2019 0.002% (5,707)	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share 2,356	Period (Years) 6.10	386	386	For the Fise 2021 386	<b>al Year Ending J</b> 2022 386	June 30 2023 386	386	40
Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share 2,356 (23,613)	Period (Years) 6.10 6.10	386 (3,871)	386 (3,871)	For the Fise 2021 386 (3,871)	<b>al Year Ending J</b> 2022 386 (3,871)	June 30 2023 386 (3,871)	386 (3,871)	40 (387)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate	Period (Years) 6.10 6.10 6.10 8.10 Period	386 (3,871) (24,109) (27,594)	386 (3,871) (24,109) (27,594)	For the Fisc 2021 386 (3,871) (24,109) (27,594) Amount to Rec For the Fisc	cal Year Ending J 2022 386 (3,871) (24,109) (27,594) cognize in Pension al Year Ending J	June 30 2023 386 (3,871) (24,109) (27,594) n Expense June 30	386 (3,871) (24,109) (27,594)	40 (387) (2,412) (2,759)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective	Proportionate Share at 6/30/2018 0.003% (8.063) 80,782 549,531 622,250 (2) Proportionate Share	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate	Change in Proportionate Share 2,356 (23,613) (147,066) (168,323) (3) - (2) + (4) Change in	Period (Years) 6.10 6.10 6.10	386 (3,871) (24,109)	386 (3,871) (24,109)	For the Fisc 2021 386 (3,871) (24,109) (27,594) Amount to Rec	cal Year Ending J 2022 386 (3,871) (24,109) (27,594) cognize in Pensiov	June 30 2023 386 (3,871) (24,109) (27,594) n Expense	386 (3,871) (24,109)	40 (387) (2,412)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate	Period (Years) 6.10 6.10 6.10 8.10 Period	386 (3,871) (24,109) (27,594)	386 (3,871) (24,109) (27,594)	For the Fisc 2021 386 (3,871) (24,109) (27,594) Amount to Rec For the Fisc	cal Year Ending J 2022 386 (3,871) (24,109) (27,594) cognize in Pension al Year Ending J	June 30 2023 386 (3,871) (24,109) (27,594) n Expense June 30	386 (3,871) (24,109) (27,594)	40 (387) (2,412) (2,759)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018 1.327% (3,566,742) 35,732,492	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019 1.226% (3,296,181) 33,021,948	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate Share           270,561           (2,710,544)	Period (Years) 6.10 6.10 6.10 8.00 9.00 9.00 9.00 9.00 9.00 9.00 9.0	386 (3,871) (24,109) (27,594) 2019 44,354 (444,351)	386 (3,871) (24,109) (27,594) 2020 44,354 (444,351)	For the Fisc 2021 386 (3,871) (24,109) (27,594) Amount to Rec For the Fisc 2021 44,354 (444,351)	cal Year Ending J 2022 386 (3,871) (24,109) (27,594) (27,594) (27,594) (27,594) 2022 44,354 (444,351)	June 30 2023 386 (3,871) (24,109) (27,594) n Expense June 30 2023 44,354 (444,351)	386 (3,871) (24,109) (27,594) 2024 44,354 (444,351)	40 (387) (2,412) (2,759) <b>2025</b> 4,437 (44,438)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018 1.327% (3,566,742) 35,732,492 243,075,820	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019 1.226% (3,296,181) 33,021,948 224,636,923	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate Share           270,561           (2,710,544)           (18,426,140)	Period (Years) 6.10 6.10 6.10 Recognition Period (Years) 6.10	386 (3,871) (24,109) (27,594) 2019 44,354 (444,351) (3,020,679)	386 (3,871) (24,109) (27,594) 2020 44,354 (444,351) (3,020,679)	For the Fisc 2021 386 (3,871) (24,109) (27,594) (27,594) Amount to Rete For the Fisc 2021 44,354 (444,351) (3,020,679)	cognize in Pension (24,109) (27,594) (27,594) (27,594) (27,594) (2022) (2022) (2022) (2022) (2023) (2023) (2023) (2024) (	June 30 2023 386 (3,871) (24,109) (27,594) (27,594) (27,594) (27,594) (27,594) (27,594) (24,109) (27,594) (24,109) (27,594) (24,109) (27,594) (24,109) (27,594) (24,109) (24,109) (27,594) (24,109) (24,109) (27,594) (24,109) (24,109) (24,109) (27,594) (24,109) (3,020) (3,02	386 (3,871) (24,109) (27,594) 2024 44,354 (444,351) (3,020,679)	40 (387) (2,412) (2,759) 2025 4,437 (44,438) (302,066)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018 1.327% (3,566,742) 35,732,492 243,075,820 275,241,570	Proportionate Share at 6/30/2019 0.002% (5,707) 57.169 388,903 440,365 (3) Proportionate Share at 6/30/2019 1.226% (3,296,181) 33,021,948 224,636,923 254,362,690	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding 12,757 12,757	Change in Proportionate Share 2,356 (23,613) (147,066) (168,323) (3) - (2) + (4) Change in Proportionate Share 270,561 (2,710,544) (18,426,140) (20,866,123)	Period (Years) 6.10 6.10 6.10 8.00 9.00 9.00 9.00 9.00 9.00 9.00 9.0	386 (3,871) (24,109) (27,594) 2019 44,354 (444,351)	386 (3,871) (24,109) (27,594) 2020 44,354 (444,351)	For the Fisc 2021 386 (3,871) (24,109) (27,594) Amount to Rec For the Fisc 2021 44,354 (444,351)	cal Year Ending J 2022 386 (3,871) (24,109) (27,594) (27,594) (27,594) (27,594) 2022 44,354 (444,351)	June 30 2023 386 (3,871) (24,109) (27,594) n Expense June 30 2023 44,354 (444,351)	386 (3,871) (24,109) (27,594) 2024 44,354 (444,351)	40 (387) (2,412) (2,759) <b>2025</b> 4,437 (44,438)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total TBTA	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018 1.327% (3,566,742) 35,732,492 243,075,820	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019 1.226% (3,296,181) 33,021,948 224,636,923	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate Share           270,561           (2,710,544)           (18,426,140)	Period (Years) 6.10 6.10 6.10 8.00 9.00 9.00 9.00 9.00 9.00 9.00 9.0	386 (3,871) (24,109) (27,594) 2019 44,354 (444,351) (3,020,679)	386 (3,871) (24,109) (27,594) 2020 44,354 (444,351) (3,020,679)	For the Fisc 2021 386 (3,871) (24,109) (27,594) Amount to Rec For the Fisc 2021 44,354 (444,351) (3,020,679) (3,420,676) Amount to Rec	cognize in Pension (24,109) (27,594) (27,594) (27,594) (27,594) (2022) (2022) (2022) (2022) (2023) (2023) (2023) (2024) (	June 30 2023 386 (3,871) (24,109) (27,594) 0 2023 44,354 (444,351) (3,020,679) (3,420,676) n Expense	386 (3,871) (24,109) (27,594) 2024 44,354 (444,351) (3,020,679)	40 (387) (2,412) (2,759) 2025 4,437 (44,438) (302,066)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018 1.327% (3,566,742) 35,732,492 243,075,820 275,241,570 (2) Proportionate Share at 6/30/2018	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019 1.226% (3,296,181) 33,021,948 224,636,923 254,362,690 (3) Proportionate Share at 6/30/2019	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding 12,757 12,757 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate Share           270,561           (2,710,544)           (18,426,140)           (20,866,123)           (3) - (2) + (4)           Change in Proportionate	Period (Years) 6.10 6.10 6.10 Period (Years) 6.10 6.10 6.10 6.10 6.10	386 (3,871) (24,109) (27,594) 2019 44,354 (444,351) (3,020,679) (3,420,676)	386 (3,871) (24,109) (27,594) 2020 44,354 (444,351) (3,020,679) (3,420,676)	For the Fisc 2021 386 (3,871) (24,109) (27,594)	cal Year Ending J 2022 386 (3,871) (24,109) (27,594) (27,	June 30 2023 386 (3,871) (24,109) (27,594) (27,594) an Expense June 30 2023 44,354 (444,351) (3,020,679) (3,420,676) an Expense June 30	386 (3,871) (24,109) (27,594) 2024 44,354 (444,351) (3,020,679) (3,420,676)	40 (387) (2,412) (2,759) 2025 4,437 (44,438) (302,066) (342,067)
Deferred Outflows of Resources Deferred Inflows of Resources Total Senior College Deferred Outflows of Resources Net Pension Liability Total Total TBTA	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018 1.327% (3,566,742) 35,732,492 243,075,820 275,241,570 (2) Proportionate Share at 6/30/2018 1.155%	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019 1.226% (3) Proportionate Share at 6/30/2019 1.222%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding 12,757 12,757 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate Share           270,561           (2,710,544)           (18,426,140)           (20,866,123)           (3) - (2) + (4)           Change in Proportionate Share	Period (Vears) 6.10 6.10 6.10 7 Recognition Period (Vears) 6.10 6.10 6.10 6.10	386 (3,871) (24,109) (27,594) 2019 44,354 (444,351) (3,020,679) (3,420,676) 2019	386 (3,871) (24,109) (27,594) 2020 44,354 (444,351) (3,020,679) (3,420,676) 2020	For the Fise 2021 386 (3,871) (24,109) (27,594) (27,594) Amount to Ree For the Fise 2021 (3,420,676) (3,420,676) Amount to Ree For the Fise 2021	cognize in Pensior (3,420,676) (3,420,676) (3,420,676) (3,222) (3,420,677) (3,420,676) (3,420,676)	June 30 2023 386 (3,871) (24,109) (27,594) (27,594) 2023 44,354 (444,351) (3,020,679) (3,420,676) n Expense June 30 2023	386 (3,871) (24,109) (27,594) 2024 44,354 (444,351) (3,020,679) (3,420,676) 2024	40 (387) (2,412) (2,759) 2025 4,437 (44,438) (302,066) (342,067) 2025
Deferred Outflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Net Pension Liability Total Total TBTA	Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357) 2,692,727,340 18,317,695,517 20,741,640,500 (1) Collective Amount at 6/30/2018 (268,782,357)	Proportionate Share at 6/30/2018 0.003% (8,063) 80,782 549,531 622,250 (2) Proportionate Share at 6/30/2018 1.327% (3,566,742) 35,732,492 243,075,820 275,241,570 (2) Proportionate Share at 6/30/2018 1.155% (3,104,436)	Proportionate Share at 6/30/2019 0.002% (5,707) 57,169 388,903 440,365 (3) Proportionate Share at 6/30/2019 1.226% (3,296,181) 33,021,948 224,636,923 254,362,690 (3) Proportionate Share at 6/30/2019 1.222% (3,283,787)	Contributions in excess of Proportionate Share and Adjustments Due to Rounding 13,562 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding 12,757 12,757 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share           2,356           (23,613)           (147,066)           (168,323)           (3) - (2) + (4)           Change in Proportionate Share           270,561           (2,710,544)           (18,426,140)           (20,866,123)           (3) - (2) + (4)           Change in Proportionate Share           (13,-(2) + (4))           (20,866,123)           (3) - (2) + (4)           (179,351)	Period (Years)           6.10           6.10           6.10           6.10           6.10           0	386 (3,871) (24,109) (27,594) 2019 44,354 (444,351) (3,020,679) (3,420,676) 2019 (29,402)	386 (3,871) (24,109) (27,594) 2020 44,354 (444,351) (3,020,679) (3,420,676) 2020 (29,402)	For the Fise 2021 386 (3,871) (24,109) (27,594) (27,594) (27,594) (27,594) (27,594) (27,594) (3,020,679) (3,420,676) (3,420,676) (3,420,676) (29,402)	cal Year Ending J 2022 386 (3,871) (24,109) (27,594) (27,	June 30 2023 386 (3,871) (24,109) (27,594) (27,594) <b>a Expense</b> June 30 2023 (444,351) (3,020,679) (3,420,676) <b>a Expense</b> June 30 2023	386 (3,871) (24,109) (27,594) 2024 44,354 (444,351) (3,020,679) (3,420,676) 2024 (29,402)	40 (387) (2,412) (2,759) 2025 4,437 (44,438) (302,066) (342,067) 2025 (2,939)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

City Other	(1) Collective Amount	(2) Proportionate Share at 6/30/2018	(3) Proportionate Share at 6/30/2019	(4) Contributions in excess of Proportionate Share and Adjustments	(3) - (2) + (4) Change in Proportionate	Recognition Period				cognize in Pensio cal Year Ending J			
	at 6/30/2018	53.643%	54.360%	Due to Rounding	Share	(Years)	2019	2020	2021	2022	2023	2024	2025
Deferred Outflows of Resources	(268,782,357)	(144,182,920)	(146,109,825)		(1,926,905)	6.10	(315,884)	(315,884)	(315,884)	(315,884)	(315,884)	(315,884)	(31,601)
Deferred Inflows of Resources	2,692,727,340	1,444,459,727	1,463,763,935		19,304,208	6.10	3,164,624	3,164,624	3,164,624	3,164,624	3,164,624	3,164,624	316,464
Net Pension Liability	18,317,695,517	9,826,161,406	9,957,481,287	(75,543)	131,244,338	6.10	21,515,466	21,515,466	21,515,466	21,515,466	21,515,466	21,515,466	2,151,542
Total	20,741,640,500	11,126,438,213	11,275,135,397	(75,543)	148,621,641		24,364,206	24,364,206	24,364,206	24,364,206	24,364,206	24,364,206	2,436,405
Subtotal City	(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3) - (2) + (4)								
	Collective Amount at 6/30/2018	Share at 6/30/2018 54.716%	Share at 6/30/2019 55.471%	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2019	2020		cognize in Pension cal Year Ending . 2022		2024	2025
Deferred Outflows of Resources	(268,782,357)	(147,066,955)	(149,097,059)	Due to Rounding	(2,030,104)	(Years) 6.10	(332,803)	(332,803)	(332,803)	(332,803)	(332,803)	(332,803)	(33,286)
Deferred Inflows of Resources	2,692,727,340	1,473,352,691	1,493,690,780		20,338,089	6.10	3,334,112	3,334,112	3,334,112	3,334,112	3,334,112	3,334,112	333,417
Net Pension Liability	18,317,695,517	10,022,710,279	10,161,063,294	(66,550)	138,286,465	6.10	22,669,913	22,669,913	22,669,913	22,669,913	22,669,913	22,669,913	2,266,987

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Transit Authority	(1)	(2)	(3)	(4)	(3) - (2) + (4)								
	Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 23.271%	Proportionate Share at 6/30/2020 23.207%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2020	2021		cognize in Pensi cal Year Ending 2023		2025	2026
Deferred Outflows of Resources	(1,560,622,264)	(363,171,573)	(362,177,472)	<u> </u>	994,101	6.07	163,773	163,773	163,773	163,773	163,773	163,773	11,463
Deferred Inflows of Resources	3,212,550,310	747,590,866	745,544,503		(2,046,363)	6.07	(337,127)	(337,127)	(337,127)	(337,127)	(337,127)	(337,127)	(23,601)
Net Pension Liability	18,521,907,080	4,310,223,097	4,298,424,826	(23)	(11,798,294)	6.07	(1,943,706)	(1,943,706)	(1,943,706)	(1,943,706)	(1,943,706)	(1,943,706)	(136,058)
Total	20,173,835,127	4,694,642,390	4,681,791,857	(23)	(12,850,556)		(2,117,060)	(2,117,060)	(2,117,060)	(2,117,060)	(2,117,060)	(2,117,060)	(148,196)
TA TP	(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3) - (2) + (4)								<u> </u>
	Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 0.710%	Share at 6/30/2020 0.686%	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2020	2021		cognize in Pensi cal Year Ending 2023		2025	2026
Deferred Outflows of Resources	(1,560,622,264)	(11,086,036)	(10,711,409)		374,627	6.07	61,718	61,718	61,718	61,718	61,718	61,718	4,319
Deferred Inflows of Resources	3,212,550,310	22,820,671	22,049,499		(771,172)	6.07	(127,046)	(127,046)	(127,046)	(127,046)	(127,046)	(127,046)	(8,896)
Net Pension Liability	18,521,907,080	131,572,211	127,126,030	1	(4,446,180)	6.07	(732,484)	(732,484)	(732,484)	(732,484)	(732,484)	(732,484)	(51,276)
Total	20,173,835,127	143,306,846	138,464,120	1	(4,842,725)		(797,812)	(797,812)	(797,812)	(797,812)	(797,812)	(797,812)	(55,853)
Housing Authority	(1)	(2) Proportionate	(3) Bronartionata	(4) Contributions in excess	(3) - (2) + (4)								<u> </u>
	Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 4.439%	Proportionate Share at 6/30/2020 4.333%	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2020	2021		cognize in Pensi cal Year Ending 2023		2025	2026
Deferred Outflows of Resources	(1,560,622,264)	(69,269,376)	(67,628,401)		1,640,975	6.07	270,342	270,342	270,342	270,342	270,342	270,342	18,923
Deferred Inflows of Resources	3,212,550,310	142,591,427	139,213,469		(3,377,958)	6.07	(556,500)	(556,500)	(556,500)	(556,500)	(556,500)	(556,500)	(38,958)
Net Pension Liability	18,521,907,080	822,108,575	802,633,016	(3)	(19,475,562)	6.07	(3,208,495)	(3,208,495)	(3,208,495)	(3,208,495)	(3,208,495)	(3,208,495)	(224,592)
Total	20,173,835,127	895,430,626	874,218,084	(3)	(21,212,545)		(3,494,653)	(3,494,653)	(3,494,653)	(3,494,653)	(3,494,653)	(3,494,653)	(244,627)
ннс	(1)	(2)	(3)	(4)	(3) - (2) + (4)								
ннс	Collective Amount	Proportionate Share at 6/30/2019	Proportionate Share at 6/30/2020	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate	Recognition Period (Vacuus)	2020	2021	For the Fis	ecognize in Pensi cal Year Ending 2023	June 30	2025	2026
HHC Deferred Outflows of Resources	Collective	Proportionate Share	Proportionate Share	Contributions in excess of Proportionate	Change in		<b>2020</b> 1,013,495	<b>2021</b> 1,013,495				<b>2025</b> 1,013,495	<b>2026</b> 70,942
Deferred Outflows	Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 13.959%	Proportionate Share at 6/30/2020 13.564%	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share	Period (Years)			For the Fis 2022	cal Year Ending 2023	June 30 2024		
Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2019 (1,560,622,264)	Proportionate Share at 6/30/2019 13.959% (217,842,303)	Proportionate Share at 6/30/2020 13.564% (211,690,391)	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share 6,151,912	Period (Years) 6.07	1,013,495	1,013,495	For the Fis 2022 1,013,495	cal Year Ending 2023 1,013,495	June 30 2024 1,013,495	1,013,495	70,942
Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share 6,151,912 (12,663,748)	Period (Years) 6.07 6.07	1,013,495 (2,086,285)	1,013,495 (2,086,285)	For the Fis 2022 1,013,495 (2,086,285)	cal Year Ending 2023 1,013,495 (2,086,285)	June 30 2024 1,013,495 (2,086,285)	1,013,495 (2,086,285)	70,942 (146,038)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective	Proportionate Share at 6/30/2019 13/959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (4) Contributions in excess of Proportionate	Change in Proportionate Share 6,151,912 (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4) Change in	Period (Years) 6.07 6.07 6.07 8.007	1,013,495 (2,086,285) (12,028,443)	1,013,495 (2,086,285) (12,028,443)	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Re	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) ccognize in Pensio	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense	1,013,495 (2,086,285) (12,028,443)	70,942 (146,038) (841,991)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City)	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1)	Proportionate Share at 6/30/2019 13.959% (217.842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (14) (14)	Change in Proportionate Share (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4)	Period (Years) 6.07 6.07 6.07	1,013,495 (2,086,285) (12,028,443)	1,013,495 (2,086,285) (12,028,443)	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Re	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233)	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense	1,013,495 (2,086,285) (12,028,443)	70,942 (146,038) (841,991)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share 6,151,912 (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4) Change in Proportionate	Period (Years) 6.07 6.07 6.07 6.07 Recognition Period	1,013,495 (2,086,285) (12,028,443) (13,101,233)	1,013,495 (2,086,285) (12,028,443) (13,101,233)	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to R. For the Fis	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) cognize in Pensic	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense June 30	1,013,495 (2,086,285) (12,028,443) (13,101,233)	70,942 (146,038) (841,991) (917,087)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0.319%	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0.322%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share 6,151,912 (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4) Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 6.07 Recognition Period (Years)	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b>	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b>	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Re For the Fis 2022	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) ccognize in Pensic cal Year Ending 2023	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense June 30 2024	1,013,495 (2,086,285) (12,028,443) (13,101,233) 2025	70,942 (146,038) (841,991) (917,087) <b>2026</b>
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264)	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0,319% (4,983,205)	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0.322% (5,026,230)	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share           6,151,912           (12,663,748)           (73,012,649)           (79,524,485)           (3) - (2) + (4)           Change in Proportionate Share           (43,025)	Period (Years) 6.07 6.07 6.07 Recognition Period (Years) 6.07	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b> (7,088)	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b> (7,088)	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Rt For the Fis 2022 (7,088)	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) cognize in Pensia cal Year Ending 2023 (7,088)	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense June 30 2024 (7,088)	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2025</b> (7,088)	70,942 (146,038) (841,991) (917,087) <b>2026</b> (497)
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0.319% (4,983,205) 10,257,958	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0.322% (5,026,230) 10,346,525	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (14) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share 6,151,912 (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4) Change in Proportionate Share (43,025) 88,567	Period (Years) 6.07 6.07 6.07 Recognition Period (Years) 6.07 6.07	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b> (7,088) 14,591	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b> (7,088) 14,591	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Rr For the Fis 2022 (7,088) 14,591	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) cognize in Pensic 2023 (7,088) 14,591	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense June 30 2024 (7,088) 14,591	1,013,495 (2,086,285) (12,028,443) (13,101,233) 2025 (7,088) 14,591	70,942 (146,038) (841,991) (917,087) <b>2026</b> (497) 1,021
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1)	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0,319% (4,983,205) 10,257,958 59,142,093 64,416,846 (2) Proportionate	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0,322% (5,026,230) 10,346,525 59,652,722 64,973,017 (3) Proportionate	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (14) (14) (14) (14) (15) Share and Adjustments Due to Rounding (1) (1) (1)	Change in Proportionate Share (,151,912 (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4) (3) - (2) + (4) (43,025) 88,567 510,628 556,170 (3) - (2) + (4)	Period (Years) 6.07 6.07 6.07 Period (Years) 6.07 6.07 6.07	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b> (7,088) 14,591 84,123	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b> (7,088) 14,591 84,123	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) (13,101,233) Amount to Rt For the Fis 2022 (7,088) 14,591 84,123 91,626	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) (13,101,233) (13,101,233) ccognize in Pensis cal Year Ending 2023 (7,088) 14,591 84,112 91,626	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense June 30 2024 (7,088) 14,591 84,123 91,626	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2025</b> (7,088) 14,591 84,123	70,942 (146,038) (841,991) (917,087) <b>2026</b> (497) 1,021 5,890
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0,319% (4,983,205) 10,257,958 59,142,093 64,416,846 (2) Proportionate Share at 6/30/2019	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0.322% (5,026,230) 10,346,525 59,652,722 64,973,017 (3) Proportionate Share at 6/30/2020	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (14) (14) (14) (14) (14) (15) Share and Adjustments Due to Rounding (1) (1) (1) (1) (2) (1) (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Change in Proportionate Share 6,151,912 (12,663,748) (73,012,649) (79,524,485) (3)-(2)+(4) Change in Proportionate Share (43,025) 88,567 510,628 556,170 (3)-(2)+(4) Change in Proportionate	Period (Years) 6.07 6.07 6.07 Period (Years) 6.07 6.07 6.07 6.07 6.07	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b> (7,088) 14,591 84,123 91,626	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b> (7,088) 14,591 84,123 91,626	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Rt For the Fis 2022 (7,088) 14,591 84,123 91,626 Amount to Rt For the Fis	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) 2023 2023 2023 (7,088) 14,591 84,123 91,626 2024 2025 2025 2027 2027 2027 2027 2027 2027	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) m Expense June 30 2024 (7,088) 14,591 84,123 91,626 m Expense June 30	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2025</b> (7,088) 14,591 84,123 91,626	70,942 (146,038) (841,991) (917,087) <b>2026</b> (497) 1,021 5,890 6,414
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0,319% (4,983,205) 10,257,958 59,142,093 64,416,846 (2) Proportionate Share	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0.322% (5.026,230) 10,346,525 59,652,722 64,973,017 (3) Proportionate Share	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (14) (14) (14) (14) (14) (15) (17) (1) (1) (1) (1) (1)	Change in Proportionate Share 6,151,912 (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4) Change in Proportionate Share (43,025) 88,567 510,628 556,170 (3) - (2) + (4) Change in	Period (Years) 6.07 6.07 6.07 Recognition Period (Years) 6.07 6.07 6.07	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b> (7,088) 14,591 84,123	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b> (7,088) 14,591 84,123	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Rr For the Fis 2022 (7,088) 14,591 84,123 91,626 Amount to Rr	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) ccognize in Pensic cal Year Ending 2023 (7,088) 14,591 84,123 91,626	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense June 30 2024 (7,088) 14,591 84,123 91,626 on Expense	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2025</b> (7,088) 14,591 84,123	70,942 (146,038) (841,991) (917,087) <b>2026</b> (497) 1,021 5,890
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (State)	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0.319% (4,983,205) 10,257,958 59,142,093 64,416,846 (2) Proportionate Share at 6/30/2019 0.319%	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0.322% (5,026,230) 10,346,525 59,652,722 64,973,017 (3) Proportionate Share at 6/30/2020 0.368%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (14) (14) (14) (14) (14) (15) Share and Adjustments Due to Rounding (1) (1) (1) (1) (2) (1) (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Change in Proportionate Share 6,151,912 (12,663,748) (73,012,649) (79,524,485) (3) - (2) + (4) Change in Proportionate Share (43,025) 88,567 510,628 556,170 (3) - (2) + (4) Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 7 6.07 6.07 6.07 6.07 6.	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b> (7,088) 14,591 84,123 91,626 <b>2020</b>	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b> (7,088) 14,591 84,123 91,626 <b>2021</b>	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Rr For the Fis 2022 (7,088) 14,591 84,123 91,626 Amount to Rr For the Fis 2022	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) (	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) 2024 (7,088) 14,591 84,123 91,626 on Expense June 30 2024	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2025</b> (7,088) 14,591 84,123 91,626	70,942 (146,038) (841,991) (917,087) <b>2026</b> (497) 1,021 5,890 6,414 <b>2026</b>
Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total OTB (City) Deferred Outflows of Resources Net Pension Liability Total OTB (State) Deferred Outflows of Resources	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264)	Proportionate Share at 6/30/2019 13.959% (217,842,303) 448,429,690 2,585,414,158 2,816,001,545 (2) Proportionate Share at 6/30/2019 0,319% (4,983,205) 10,257,958 59,142,093 64,416,846 (2) Proportionate Share at 6/30/2019 0,319% (4,983,205)	Proportionate Share at 6/30/2020 13.564% (211,690,391) 435,765,942 2,512,401,523 2,736,477,074 (3) Proportionate Share at 6/30/2020 0.322% (5,026,230) 10,346,525 59,652,722 64,973,017 (3) Proportionate Share at 6/30/2020 0.368%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (14) (14) (14) (14) (14) (14) (14) (15) Share and Adjustments Due to Rounding (1) (1) (1) (1) (2) (1) (1) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	Change in Proportionate Share           6,151,912           (12,663,748)           (73,012,649)           (79,524,485)           (3)-(2)+(4)           Change in Proportionate Share           (43,025)           88,567           510,628           356,170           (3)-(2)+(4)           Change in Proportionate Share           (2)-(2)+(4)           Change in Proportionate Share           (3)-(2)+(4)           Change in Share	Period (Years) 6.07 6.07 6.07 Period (Years) 6.07 6.07 6.07 6.07 6.07 6.07 6.07 6.07	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2020</b> (7,088) 14,591 84,123 91,626 <b>2020</b> (126,258)	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2021</b> (7,088) 14,591 84,123 91,626 <b>2021</b> (126,258)	For the Fis 2022 1,013,495 (2,086,285) (12,028,443) (13,101,233) Amount to Rt For the Fis 2022 (7,088) 14,591 84,123 91,626 Amount to Rt For the Fis 2022 (126,258)	cal Year Ending 2023 1,013,495 (2,086,285) (12,028,443) (13,101,233) 2023 2023 (7,088) 14,591 84,123 91,626 2023 2023 2023 2023 2023 2023 2023 2	June 30 2024 1,013,495 (2,086,285) (12,028,443) (13,101,233) on Expense June 30 2024 (7,088) 14,591 84,123 91,626 on Expense June 30 2024 (126,258)	1,013,495 (2,086,285) (12,028,443) (13,101,233) <b>2025</b> (7,088) 14,591 84,123 91,626 <b>2025</b> (126,258)	70,942 (146,038) (841,991) (917,087) <b>2026</b> (497) 1,021 5,890 6,414 <b>2026</b> (8,839)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

HDC/REMIC	(1)	(2)	(3)	(4)	(3) - (2) + (4)								
	Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 0.054%	Proportionate Share at 6/30/2020 0.057%	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share	Recognition Period (Years)	2020	2021		ognize in Pensior al Year Ending J 2023		2025	2026
Deferred Outflows of Resources	(1,560,622,264)	(846,704)	(882,638)	Due to Rounding	(35,934)	6.07	(5,920)	(5,920)	(5,920)	(5,920)	(5,920)	(5,920)	(414)
Deferred Inflows of Resources	3,212,550,310	1,742,946	1,816,916		73,970	6.07	12,186	12,186	12,186	12,186	12,186	12,186	854
Net Pension Liability	18,521,907,080	10,048,927	10,475,401	1	426,475	6.07	70,259	70,259	70,259	70,259	70,259	70,259	4,921
Total	20,173,835,127	10,945,169	11,409,679	1	464,511		76,525	76,525	76,525	76,525	76,525	76,525	5,361
State Courts	(1)	(2)	(3)	(4)	(3) - (2) + (4)								
	Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 0.037%	Proportionate Share at 6/30/2020 0.039%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2020	2021		ognize in Pensior al Year Ending J 2023		2025	2026
Deferred Outflows of Resources	(1,560,622,264)	(573,503)	(613,798)		(40,295)	6.07	(6,638)	(6,638)	(6,638)	(6,638)	(6,638)	(6,638)	(467)
Deferred Inflows of Resources	3,212,550,310	1,180,560	1,263,508		82,948	6.07	13,665	13,665	13,665	13,665	13,665	13,665	958
Net Pension Liability	18,521,907,080	6,806,497	7,284,733	0	478,236	6.07	78,787	78,787	78,787	78,787	78,787	78,787	5,514
Total	20,173,835,127	7,413,554	7,934,443	0	520,889		85,814	85,814	85,814	85,814	85,814	85,814	6,005
SCA	(1) Collective Amount	(2) Proportionate Share at 6/30/2019	(3) Proportionate Share at 6/30/2020	(4) Contributions in excess of Proportionate Share and Adjustments	(3) - (2) + (4) Change in Proportionate	Recognition Period				ognize in Pensior al Year Ending J			
Deferred Outflows	at 6/30/2019	0.082%	0.088%	Due to Rounding	Share	(Years)	2020	2021	2022	2023	2024	2025	2026
of Resources	(1,560,622,264)	(1,275,442)	(1,379,924)		(104,482)	6.07	(17,213)	(17,213)	(17,213)	(17,213)	(17,213)	(17,213)	(1,204)
Deferred Inflows of Resources	3,212,550,310	2,625,504	2,840,582		215,078	6.07	35,433	35,433	35,433	35,433	35,433	35,433	2,480
Net Pension Liability	18,521,907,080	15,137,301	16,377,330	0	1,240,029	6.07	204,288	204,288	204,288	204,288	204,288	204,288	14,301
Total	20,173,835,127	16,487,363	17,837,988	0	1,350,625		222,508	222,508	222,508	222,508	222,508	222,508	15,577
WFA	(1)	(2)	(3)	(4)	(3) - (2) + (4)								
	Collective	Proportionate Share	Proportionate Share	Contributions in excess of Proportionate Share and Adjustments	Change in	Recognition				ognize in Pensior			
Defensed Outflows		Proportionate	Proportionate			Recognition Period (Years)	2020	2021		ognize in Pensior al Year Ending J 2023		2025	2026
Deferred Outflows of Resources	Collective Amount	Proportionate Share at 6/30/2019	Proportionate Share at 6/30/2020	of Proportionate Share and Adjustments	Change in Proportionate	Period	<b>2020</b> 307	<b>2021</b> 307	For the Fisc	al Year Ending J	une 30	<b>2025</b> 307	<b>2026</b> 24
	Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 0.002%	Proportionate Share at 6/30/2020 0.002%	of Proportionate Share and Adjustments	Change in Proportionate Share	Period (Years)			For the Fisc 2022	al Year Ending J 2023	une 30 2024		
of Resources Deferred Inflows	Collective Amount at 6/30/2019 (1,560,622,264)	Proportionate Share at 6/30/2019 0.002% (33,134)	Proportionate Share at 6/30/2020 0.002% (31,268)	of Proportionate Share and Adjustments	Change in Proportionate Share 1,866	Period (Years) 6.07	307	307	For the Fisca 2022 307	al Year Ending J 2023 307	<b>2024</b> 307	307	24
of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share 1,866 (3,841)	Period (Years) 6.07 6.07	307 (633)	307 (633)	For the Fisc 2022 307 (633)	al Year Ending J 2023 307 (633)	2024 307 (633)	307 (633)	24 (43)
of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2019 (1.560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share	of Proportionate Share and Adjustments Due to Rounding 1 1 (4) Contributions in excess of Proportionate	Change in Proportionate Share 1.866 (3,841) (22,145) (24,120) (3) - (2) + (4) Change in	Period (Years) 6.07 6.07 8.07 8.07	307 (633) (3,648)	307 (633) (3,648)	For the Fisca 2022 307 (633) (3,648) (3,974) Amount to Rece	al Year Ending J 2023 307 (633) (3,648) (3,974) ognize in Pensior	June 30 2024 307 (633) (3,648) (3,974) n Expense	307 (633) (3,648)	24 (43) (257)
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1)	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate	of Proportionate Share and Adjustments Due to Rounding 1 1 (4) Contributions in excess	Change in Proportionate Share 1,866 (3,841) (22,145) (24,120) (3) - (2) + (4)	Period (Years) 6.07 6.07 6.07	307 (633) (3,648)	307 (633) (3,648)	For the Fisca 2022 307 (633) (3,648) (3,974) Amount to Rece	al Year Ending J 2023 307 (633) (3,648) (3,974)	June 30 2024 307 (633) (3,648) (3,974) n Expense	307 (633) (3,648)	24 (43) (257)
of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020	of Proportionate Share and Adjustments Due to Rounding 1 1 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share 1,866 (3,841) (22,145) (24,120) (3)-(2)+(4) Change in Proportionate	Period (Years) 6.07 6.07 6.07 6.07 8.009 Recognition Period	307 (633) (3,648) (3,974)	307 (633) (3,648) (3,974)	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc	al Year Ending J 2023 307 (633) (3,648) (3,974) ognize in Pension al Year Ending J	lune 30 2024 307 (633) (3,648) (3,974) a Expense lune 30	307 (633) (3,648) (3,974)	24 (43) (257) (276)
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226%	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240%	of Proportionate Share and Adjustments Due to Rounding 1 1 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share 1,866 (3,841) (22,145) (24,120) (3) - (2) + (4) Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 8.07 Recognition Period (Years)	307 (633) (3,648) (3,974) 2020	307 (633) (3,648) (3,974) 2021	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022	al Year Ending J 2023 307 (633) (3,648) (3,974) ognize in Pensior al Year Ending J 2023	lune 30 2024 307 (633) (3,648) (3,974) h Expense lune 30 2024	307 (633) (3,648) (3,974) 2025	24 (43) (257) (276) <b>2026</b>
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264)	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226% (19,138,509)	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240% (19,358,393)	of Proportionate Share and Adjustments Due to Rounding 1 1 (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share 1,866 (3,841) (22,145) (24,120) (3)-(2)+(4) Change in Proportionate Share (219,884)	Period (Years) 6.07 6.07 6.07 8.07 Recognition Period (Years) 6.07	307 (633) (3,648) (3,974) <b>2020</b> (36,225)	307 (633) (3,648) (3,974) <b>2021</b> (36,225)	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022 (36,225)	al Year Ending J 2023 307 (633) (3,648) (3,648) (3,974) 2023 (36,225)	2024 2024 307 (633) (3,648) (3,648) (3,974) PExpense ture 30 2024 (36,225)	307 (633) (3,648) (3,974) <b>2025</b> (36,225)	24 (43) (257) (276) <b>2026</b> (2,534)
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226% (19,138,509) 39,396,736	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240% (19,358,393) 39,849,368	of Proportionate Share and Adjustments Due to Rounding 1 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 Recognition Period (Years) 6.07 6.07	307 (633) (3,648) (3,974) <b>2020</b> (36,225) 74,569	307 (633) (3,648) (3,974) <b>2021</b> (36,225) 74,569	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022 (36,225) 74,569	al Year Ending J 2023 307 (633) (3,648) (3,974) ognize in Pension al Year Ending J 2023 (36,225) 74,569	2024 2024 307 (633) (3,648) (3,974) 10 11 15 15 10 10 2024 (3,6,225) 74,569	307 (633) (3,648) (3,974) <b>2025</b> (36,225) 74,569	24 (43) (257) (276) <b>2026</b> (2,534) 5,218
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2019 (1.560.622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1.560,622,264) 3,212,550,310 18,521,907,080	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226% (19,138,509) 39,396,736 227,141,247 247,399,474 (2)	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240% (19,358,393) 39,849,368 229,750,892 250,241,867 (3)	of Proportionate Share and Adjustments Due to Rounding 1 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding (3) (3)	Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 Recognition Period (Years) 6.07 6.07	307 (633) (3,648) (3,974) 2020 (36,225) 74,569 429,925	307 (633) (3,648) (3,974) <b>2021</b> (36,225) 74,569 429,925	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022 (36,225) 74,569 429,925	al Year Ending J 2023 307 (633) (3,648) (3,974) 000000000000000000000000000000000000	lune 30 2024 307 (633) (3,648) (3,974)	307 (633) (3,648) (3,974) 2025 (36,225) 74,569 429,925	24 (43) (257) (276) (2,534) 5,218 30,092
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226% (19,138,509) 39,396,736 227,141,247 247,399,474 (2) Proportionate Share at 6/30/2019	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240% (19,358,393) 39,849,368 229,750,892 250,241,867 (3) Proportionate Share at 6/30/2020	6) Proportionate Share and Adjustments Due to Rounding 1 1 1 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding (3) (3) (4) Contributions in excess of Proportionate Share and Adjustments Share and Adjustments	Change in Proportionate           1,866           (3,841)           (22,145)           (24,120)           (3) - (2) + (4)           Change in Proportionate           (219,884)           452,632           2,609,642           2,842,390           (3) - (2) + (4)           Change in Proportionate	Period (Years) 6.07 6.07 6.07 Period (Years) 6.07 6.07 6.07 6.07 6.07	307 (633) (3,648) (3,974) 2020 (36,225) 74,569 429,925 468,269	307 (633) (3,648) (3,974) <b>2021</b> (36,225) 74,569 429,925 468,269	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022 (36,225) 74,569 429,925 468,269 Amount to Rec For the Fisc	al Year Ending J 2023 307 (633) (3,648) (3,648) (3,974) ognize in Pension al Year Ending J 2023 (36,225) 74,569 429,925 468,269 ognize in Pension User Ending J	2024 2024 307 (633) (3,648) (3,974) 36 57 57 50 50 2024 (3,6,225) 74,569 429,925 468,269 2024 2024 2024 2024 2024 2024 2024 202	307 (633) (3,648) (3,974) 2025 (36,225) 74,569 429,925 468,269	24 (43) (257) (276) (2,534) 5,218 30,092 32,776
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2019 (1.560.622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1.560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226% (19,138,509) 39,396,736 227,141,247 247,399,474 (2) Proportionate Share	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240% (19,358,393) 39,849,368 229,750,892 250,241,867 (3) Proportionate Share	6) Proportionate Share and Adjustments Due to Rounding 1 1 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding (3) (3) (4) Contributions in excess of Proportionate	Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 Period (Years) 6.07 6.07 6.07	307 (633) (3,648) (3,974) 2020 (36,225) 74,569 429,925	307 (633) (3,648) (3,974) <b>2021</b> (36,225) 74,569 429,925	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022 (36,225) 74,569 429,925 468,269 Amount to Rec	al Year Ending J 2023 307 (633) (3,648) (3,974) 000000000000000000000000000000000000	Iune 30         2024           307	307 (633) (3,648) (3,974) 2025 (36,225) 74,569 429,925	24 (43) (257) (276) (2,534) 5,218 30,092
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Net Pension Liability Total TBTA Deferred Outflows	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226% (19,138,509) 39,396,736 227,141,247 247,399,474 (2) Proportionate Share at 6/30/2019 1.222%	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240% (19,358,393) 39,849,368 229,750,892 250,241,867 (3) Proportionate Share at 6/30/2020 1.212%	6) Proportionate Share and Adjustments Due to Rounding 1 1 1 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding (3) (3) (4) Contributions in excess of Proportionate Share and Adjustments Share and Adjustments	Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 Recognition Period (Years) 6.07 6.07 6.07 6.07	307 (633) (3,648) (3,974) 2020 (36,225) 74,569 429,925 468,269 2020	307 (633) (3,648) (3,974) (36,225) 74,569 429,925 468,269 2021	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022 (36,225) 74,569 429,925 468,269 Amount to Rec For the Fisc 2022	al Year Ending J 2023 307 (633) (3,648) (3,974) ognize in Pension al Year Ending J 2023 (36,225) 74,569 429,925 468,269 ognize in Pension al Year Ending J 2023	Iune 30         2024           307	307 (633) (3,648) (3,974) 2025 (36,225) 74,569 429,925 468,269 2025	24 (43) (257) (276) (2,534) 5,218 30,092 32,776 2026
of Resources Deferred Inflows of Resources Net Pension Liability Total Senior College Deferred Outflows of Resources Deferred Inflows Total TBTA Deferred Outflows of Resources Deferred Outflows Deferred Inflows	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount at 6/30/2019 (1,560,622,264)	Proportionate Share at 6/30/2019 0.002% (33,134) 68,206 393,239 428,311 (2) Proportionate Share at 6/30/2019 1.226% (19,138,509) 39,396,736 227,141,247 247,399,474 (2) Proportionate Share at 6/30/2019 1.222% (19,066,545)	Proportionate Share at 6/30/2020 0.002% (31,268) 64,365 371,093 404,190 (3) Proportionate Share at 6/30/2020 1.240% (19,358,393) 39,849,368 229,750,892 250,241,867 (3) Proportionate Share at 6/30/2020 1.212% (18,919,601)	6) Proportionate Share and Adjustments Due to Rounding 1 1 1 (4) Contributions in excess of Proportionate Share and Adjustments Due to Rounding (3) (3) (4) Contributions in excess of Proportionate Share and Adjustments Share and Adjustments	Change in Proportionate Share           1,866           (3,841)           (22,145)           (24,120)           (3)-(2)+(4)           Change in Proportionate Share           (219,884)           452,632           2,609,642           2,842,390           (3)-(2)+(4)           Change in Proportionate Share           (3)-(2)+(4)           Change in Proportionate Share	Period (Years) 6.07 6.07 6.07 Recognition Period (Years) 6.07 6.07 6.07 6.07 6.07 6.07	307 (633) (3,648) (3,974) 2020 (36,225) 74,569 429,925 468,269 2020 24,208	307 (633) (3,648) (3,974) <b>2021</b> (36,225) 74,569 429,925 468,269 <b>2021</b> 24,208	For the Fisc 2022 307 (633) (3,648) (3,974) Amount to Rec For the Fisc 2022 (36,225) 74,569 429,925 468,269 Amount to Rec For the Fisc 2022 24,208	al Year Ending J 2023 307 (633) (3,648) (3,648) (3,974) ognize in Pension al Year Ending J 2023 (36,225) 74,569 429,925 468,269 ognize in Pension al Year Ending J 2023 24,208	June 30         2024           207         307           307         307           (633)         (3,648)           (3,648)         (3,974)           Despense lane 30         2024           (36,225)         74,569           429,925         468,269           Despense lane 30         2024           Despense lane 30         2024	307 (633) (3,648) (3,974) 2025 (36,225) 74,569 429,925 468,269 2025 24,208	24 (43) (257) (276) (2,534) 5,218 30,092 32,776 2026 1,696

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

(1) Collective Amount	(2) Proportionate Share at 6/30/2019	(3) Proportionate Share at 6/30/2020	(4) Contributions in excess of Proportionate Share and Adjustments	(3) - (2) + (4) Change in Proportionate	Recognition Period			For the Fis	cal Year Ending	June 30		
at 6/30/2019	54.360%	54.879%	Due to Rounding	Share	(Years)	2020	2021	2022	2023	2024	2025	2026
(1,560,622,264)	(848,352,729)	(856,453,147)		(8,100,418)	6.07	(1,334,501)	(1,334,501)	(1,334,501)	(1,334,501)	(1,334,501)	(1,334,501)	(93,412)
3,212,550,310	1,746,339,192	1,763,013,951		16,674,761	6.07	2,747,077	2,747,077	2,747,077	2,747,077	2,747,077	2,747,077	192,299
18,521,907,080	10,068,490,489	10,164,628,544	43	96,138,098	6.07	15,838,237	15,838,237	15,838,237	15,838,237	15,838,237	15,838,237	1,108,676
20,173,835,127	10,966,476,952	11,071,189,348	43	104,712,441		17,250,813	17,250,813	17,250,813	17,250,813	17,250,813	17,250,813	1,207,563
(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in avcess	(3) - (2) + (4)								
Collective	Share	Share		Change in	Recognition			Amount to Re	cognize in Pensio	on Expense		
Amount	at 6/30/2019	at 6/30/2020	Share and Adjustments	Proportionate	Period			For the Fis	cal Year Ending	June 30		
at 6/30/2019	55.471%	55.976%	Due to Rounding	Share	(Years)	2020	2021	2022	2023	2024	2025	2026
(1,560,622,264)	(865,697,412)	(873,570,710)	<b></b>	(7,873,298)	6.07	(1,297,084)	(1,297,084)	(1,297,084)	(1,297,084)	(1,297,084)	(1,297,084)	(90,794)
(1,560,622,264)	(865,697,412)		<b>e</b>	(7,873,298)	· · · · · ·		(1,297,084)	(1,297,084)	(1,297,084)	(1,297,084)	(1,297,084)	(90,794)
(1,560,622,264) 3,212,550,310	(865,697,412) 1,782,043,325			(7,873,298)	· · · · · ·		(1,297,084) 2,670,055	(1,297,084) 2,670,055	(1,297,084) 2,670,055	(1,297,084) 2,670,055	(1,297,084) 2,670,055	(90,794) 186,902
		(873,570,710)	43		6.07	(1,297,084)		())	(),			
	Collective Amount at 6/30/2019 (1,560,622,264) 3,212,550,310 18,521,907,080 20,173,835,127 (1) Collective Amount	Proportionate           Collective Amount         Proportionate           16/30/2019         54.360%           (1,560,622,264)         (848,352,729)           3,212,550,310         1,746,339,192           18,521,907,080         10,068,490,489           20,173,835,127         10.966,476,952           (1)         (2)           Proportionate         Share           Amount         at 6/30/2019	Proportionate Share         Proportionate Share         Proportionate Share           Amount at 6/30/2019         Share         Share           (1,560,622,264)         (848,352,729)         (856,453,147)           3,212,550,310         1,746,339,192         1,763,013,951           18,521,907,080         10,068,490,489         10,164,628,544           20,173,835,127         10,966,476,952         11,071,189,348           (1)         (2)         (3)           Proportionate Share         Share         Share           Amount         at 6/30/2019         36/2020	Proportionate Share Amount at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share at 6/30/2020           (1,560,622,264)         (848,352,729)         (856,453,147)           3,212,550,310         1,746,339,192         1,763,013,951           18,521,907,080         10,068,490,489         10,164,628,544         43           20,173,835,127         10,966,476,952         11,071,189,348         43           (1)         (2)         (3)         (4)           Proportionate Share         Share Share         Af 6/30/2019	Proportionate Share         Proportionate Share         Contributions in excess of Proportionate Share and Adjustments         Change in Proportionate Share           (1,560,622,264)         (848,352,729)         (856,453,147)         (8,100,418)           3,212,550,310         1,746,339,192         1,763,013,951         16,674,761           18,521,907,080         10,068,490,489         10,164,628,544         43         96,138,098           20,173,835,127         10,966,476,952         11,071,189,348         43         104,712,441           (1)         (2)         (3)         (4)         (3) - (2) + (4)           Proportionate Share         Share         Share and Adjustments         Change in           Amount         at 630/2019         Share and Adjustments         Proportionate Proportionate         Proportionate	Proportionate Amount at 6/30/2019         Proportionate Share at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share and Adjustments         Change in Proportionate Share and Adjustments         Recognition Period (Years)           (1,560,622,264)         (848,352,729)         (856,453,147)         (8,100,418)         6.07           3,212,550,310         1,746,339,192         1,763,013,951         16,674,761         6.07           18,521,907,080         10,068,490,489         10,164,628,544         43         96,138,098         6.07           20,173,335,127         10,966,476,952         11,071,189,348         43         104,712,441         607           (1)         (2)         (3)         (4)         (3)-(2)+(4)         Contributions in excess of Proportionate         Change in Proportionate         Recognition           Collective Amount         Share at 6/30/2019         630/2019         54,340         Gange in Proportionate         Recognition	Proportionate Amount at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share and Adjustments         Change in Proportionate Share and Adjustments         Recognition Period (Years)         Z020           (1,560,622,264)         (848,352,729)         (856,453,147)         (8,100,418)         6.07         (1,334,501)           3,212,550,310         1,746,339,192         1,763,013,951         16,674,761         6.07         2,747,077           18,521,907,080         10,068,490,489         10,164,628,544         43         96,138,098         6.07         15,838,237           20,173,835,127         10,966,476,952         11,071,189,348         43         104,712,441         17,250,813           (1)         (2)         (3)         (4)         (3)-(2) + (4)         72,250,813           Collective         Share         Share         of Proportionate         Recognition           Share         16/30/2019         Share         of Proportionate         Proportionate           Share         at 6/30/2020         Share         of Proportionate         Proportionate	Proportionate Share anount at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share and Adjustments         Change in Proportionate Share and Adjustments         Recognition Period (Years)         2020         2021           (1,560,622,264)         (848,352,729)         (856,453,147)         (8,100,418)         6.07         (1,34,501)         (1,34,501)           3,212,550,310         1,746,339,192         1,763,013,951         16,674,761         6.07         2,747,077         2,747,077           18,521,907,080         10,068,490,489         10,164,628,544         43         96,138,098         6.07         15,838,237         15,838,237           20,173,835,127         10,966,476,952         11,071,189,348         43         104,712,441         17,250,813         17,250,813           (1)         (2)         (3)         (4)         (3)-(2) + (4)         72,250,813         17,250,813           (1)         (2)         (3)         (4)         (3)-(2) + (4)         72,250,813         17,250,813         17,250,813           (1)         (2)         63/02019         Share         Share         Contributions in excess of Proportionate         Change in Proportionate         Recognition           Amount at 6/30/2019         Share         Share         Adjustments	Proportionate Amount at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share an Adjustments         Change in Proportionate Share an Adjustments         Recognition Period (Years)         Amount to Rc 2020         Amount to Rc For the Fis 2022           (1,560,622,264)         (848,352,729)         (856,453,147)         (8,100,418)         6.07         (1,334,501)	Proportionate Share Amount at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share at 6/30/2019         Recognition Period (Years)         Recognition Period (Years)         Amount to Recognize in Pensic For the Fiscal Year Ending 2022         Just 2022         Just 2022         Just 2022         Just 2023         Just 2	Proportionate Share at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share at 6/30/2019         Contributions Share Share Share Share at 6/30/2019         Contributions Share Sha	Proportionate Share at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share and Adjustments Due to Rounding         Change in Proportionate Share Due to Rounding         Recognition Period (Years)         Amount to Recognize in Pension Expense For the Fiscal Year Ending June 30         June 30           (1,560,622,264)         (848,352,729)         (856,453,147)         (8,100,418)         6.07         (1,134,501)         (1,34,501)         (1,16,628,544)         43         104,712,441         17,250,813         17,250,813         17,250,813         17,250,813         17,250,813         17,250,813         17,250,813         17,250,813         17,250,813         17,250,813         17,250,813         17,250,

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Components of Pension Expense for the Fiscal Year Ending June 30, 2019

<u>Component</u>		<u>Transit</u> <u>Authority</u>	TA TP	<u>Housing</u> <u>Authority</u>	HHC	OTB (City)
a. Service Cost <sup>1</sup>	\$	625,815,217 \$	19.534.359 \$	90,147,115 \$	385,655,812 \$	8,334,639
b. Interest on the Total Pension Liability	Ф	1,358,985,405	41,483,865	259,205,505	815,164,326	18,647,118
c. Changes of Benefit Terms		1,558,985,405	41,465,805	239,203,303	815,104,520	18,047,118
d. Differences between Expected and Actual Experience		(26,340,534)	(804,061)	(5,024,050)	(15,799,922)	(361,428)
e. Changes of Assumptions		24,357,037	743,514	4,645,729	14,610,155	334,211
f. Employee Contributions		(127,479,874)	(3,891,402)	(24,314,820)	(76,466,639)	(1,749,196)
1 5		(127,479,874) (1,060,758,887)	(3,891,402) (32,380,317)	(24,314,820) (202,323,397)	(636,278,212)	(14,555,047)
g. Projected Earnings on Pension Plan Investments		(1,060,758,887) 65,186,421	(32,380,317) 1,989,856	(202,323,397) 12,433,304	(030,278,212) 39,100,968	(14,555,047) 894,446
h. Differences between Projected and Actual Earnings on Plan Investments		· · ·	, ,	, ,	· · · ·	· · · · ·
i. Pension Plan Administrative Expenses		19,099,164	583,014	3,642,871	11,456,309	262,067
j. Other Changes in Fiduciary Net Position <sup>2</sup>		1,515,171	46,252	288,995	908,850	20,790
k. Changes in Proportionate Share		34,678,279	1,757,023	(20,857,629)	(11,320,279)	3,036,786
Total Pension Expense	\$	915,057,399 \$	29,062,103 \$	117,843,623 \$	527,031,368 \$	14,864,386
Component		OTB (State)	HDC/REMIC	<u>State Courts</u>	<u>SCA</u>	WFA
a. Service Cost <sup>1</sup>	\$	8,334,640 \$	1,101,900 \$	1,025,357 \$	1,999,859 \$	63,120
b. Interest on the Total Pension Liability		18,647,119	3,168,361	2,146,044	4,772,693	123,986
c. Changes of Benefit Terms		0	0	0	0	0
d. Differences between Expected and Actual Experience		(361,428)	(61,411)	(41,596)	(92,507)	(2,403)
e. Changes of Assumptions		334,212	56,786	38,463	85,541	2,222
f. Employee Contributions		(1,749,197)	(297,209)	(201,310)	(447,703)	(11,630)
g. Projected Earnings on Pension Plan Investments		(14,555,047)	(2,473,071)	(1,675,099)	(3,725,335)	(96,777)
h. Differences between Projected and Actual Earnings on Plan Investments		894,446	151,977	102,939	228,932	5,947
i. Pension Plan Administrative Expenses		262,066	44,528	30,160	67,075	1,742
j. Other Changes in Fiduciary Net Position <sup>2</sup>		20,790	3,532	2,393	5,321	138
k. Changes in Proportionate Share		3,036,786	43,013	205,548	1,126,975	(101,847)

Total Pension Expense	\$ 14,864,387	\$ 1,738,406	5 1,632,899	\$ 4,020,851	\$ (15,502)	
k. Changes in Proportionate Share	3,036,786	43,013	205,548	1,126,975	(101,847)	
J. Other Changes in Fiduciary Net I ostiton	20,790	5,552	2,393	5,521	138	

Component	<u>Senior</u> Colleges	TBTA	<u>City Other</u>	Subtotal City	Total
a. Service Cost <sup>1</sup>	\$ 33,930,842 \$	32,667,187 \$	1,104,045,612 \$	1,133,914,469 \$	2,312,655,659
b. Interest on the Total Pension Liability	71,616,163	71,346,872	3,174,529,791	3,239,433,467	5,839,837,248
c. Changes of Benefit Terms	0	0	0	0	0
d. Differences between Expected and Actual Experience	(1,388,100)	(1,382,881)	(61,530,319)	(62,788,315)	(113,190,640)
e. Changes of Assumptions	1,283,573	1,278,747	56,896,960	58,060,226	104,667,150
f. Employee Contributions	(6,717,967)	(6,692,706)	(297,787,347)	(303,875,648)	(547,807,000)
g. Projected Earnings on Pension Plan Investments	(55,900,145)	(55,689,950)	(2,477,885,841)	(2,528,546,540)	(4,558,297,125)
h. Differences between Projected and Actual Earnings on Plan Investments	3,435,211	3,422,294	152,272,593	155,385,827	280,119,334
i. Pension Plan Administrative Expenses	1,006,493	1,002,708	44,614,803	45,526,959	82,073,000
j. Other Changes in Fiduciary Net Position <sup>2</sup>	79,847	79,547	3,539,374	3,611,737	6,511,000
k. Changes in Proportionate Share	 (346,815)	(134,657)	(11,123,183)	(5,202,399)	0
Total Pension Expense	\$ 46,999,102 \$	45,897,161 \$	1,687,572,443 \$	1,735,519,783 \$	3,406,568,626

<sup>1</sup> Includes adjustment for census data fix for those obligors that did not recognize the liabilities in their pension expense last year. Housing Regular, Housing Police, HDC and City already recognized this liability in Fiscal Year 2018.

<sup>2</sup> Includes Payments to Other Retirement Systems.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Components of Pension Expense for the Fiscal Year Ending June 30, 2020

<u>Component</u>	<u>Transit</u> <u>Authority</u>	<u>TA TP</u>	Housing <u>Authority</u>	<u>HHC</u>	OTB (City)
a. Service Cost	\$ 472,893,833 \$	13,985,848 \$	88,302,162 \$	276,403,388 \$	6,562,731
b. Interest on the Total Pension Liability	1,412,403,219	41,771,863	263,734,159	825,540,551	19,601,063
c. Changes of Benefit Terms	0	0	0	0	0
d. Differences between Expected and Actual Experience	32,736,348	968,178	6,112,768	19,134,184	454,309
e. Changes of Assumptions	(34,656,066)	(1,024,954)	(6,471,232)	(20,256,247)	(480,950)
f. Employee Contributions	(130,864,044)	(3,870,308)	(24,435,882)	(76,489,188)	(1,816,106)
g. Projected Earnings on Pension Plan Investments	(1,112,014,488)	(32,887,858)	(207,643,399)	(649,965,279)	(15,432,326)
h. Differences between Projected and Actual Earnings on Plan Investments	53,740,217	1,589,368	10,034,763	31,410,810	745,797
i. Pension Plan Administrative Expenses	18,024,373	533,071	3,365,641	10,535,129	250,139
j. Other Changes in Fiduciary Net Position <sup>1</sup>	1,339,058	39,603	250,039	782,671	18,583
k. Changes in Proportionate Share	 35,915,831	696,101	(22,707,863)	(41,063,013)	376,754
Total Pension Expense	\$ 749,518,281 \$	21,800,912 \$	110,541,156 \$	376,033,006 \$	10,279,994
Component	OTB (State)	HDC/REMIC	State Courts	<u>SCA</u>	<u>WFA</u>
a. Service Cost	\$ 7,507,222 \$	1,152,458 \$	801,434 \$	1,801,762 \$	40,826
b. Interest on the Total Pension Liability	22,421,997	3,442,072	2,393,663	5,381,365	121,936
c. Changes of Benefit Terms	0	0	0	0	0
d. Differences between Expected and Actual Experience	519,692	79,780	55,480	124,728	2,826
e. Changes of Assumptions	(550,167)	(84,458)	(58,733)	(132,042)	(2,992)
f. Employee Contributions	(2,077,476)	(318,920)	(221,781)	(498,602)	(11,298)
g. Projected Earnings on Pension Plan Investments	(17,653,305)	(2,710,015)	(1,884,581)	(4,236,861)	(96,003)
h. Differences between Projected and Actual Earnings on Plan Investments	853,130	130,967	91,076	204,754	4,640
i. Pension Plan Administrative Expenses	286,138	43,926	30,547	68,674	1,556
j. Other Changes in Fiduciary Net Position <sup>1</sup>	21,258	3,263	2,269	5,102	116
k. Changes in Proportionate Share	 1,917,240	119,538	313,288	1,064,450	(105,821)
Total Pension Expense	\$ 13,245,729 \$	1,858,611 \$	1,522,662 \$	3,783,330 \$	(44,214)

		Senior				
Component		Colleges	TBTA	City Other	Subtotal City	<u>Total</u>
	¢	25.27(105 0	24.702.25/ 6	1 110 2(7.017 0	1 140 (10 170 0	2 027 (00 022
a. Service Cost	\$	25,276,185 \$	24,703,256 \$	1,118,267,817 \$	1,140,618,158 \$	2,037,698,922
<ul> <li>Interest on the Total Pension Liability</li> </ul>		75,492,980	73,781,799	3,339,956,997	3,406,711,288	6,086,043,664
c. Changes of Benefit Terms		0	0	0	0	0
d. Differences between Expected and Actual Experience		1,749,758	1,710,097	77,412,735	78,959,950	141,060,883
e. Changes of Assumptions		(1,852,367)	(1,810,380)	(81,952,356)	(83,590,302)	(149,332,944)
f. Employee Contributions		(6,994,686)	(6,836,139)	(309,458,570)	(315,643,586)	(563,893,000)
g. Projected Earnings on Pension Plan Investments		(59,437,196)	(58,089,948)	(2,629,617,747)	(2,682,174,792)	(4,791,669,006)
h. Differences between Projected and Actual Earnings on Plan Investments		2,872,416	2,807,307	127,081,282	129,621,201	231,566,527
i. Pension Plan Administrative Expenses		963,403	941,566	42,622,837	43,474,721	77,667,000
j. Other Changes in Fiduciary Net Position <sup>1</sup>		71,573	69,950	3,166,515	3,229,803	5,770,000
k. Changes in Proportionate Share		(448,608)	(1,785,052)	25,707,155	27,844,460	0
		25 (02 150 0				2 054 042 044
Total Pension Expense	\$	37,693,458 \$	35,492,456 \$	1,713,186,665 \$	1,749,050,901 \$	3,074,912,046

<sup>1</sup> Includes Payments to Other Retirement Systems.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

Recognized Pension Expense	Fiscal Year June 30, 2 \$2,091,781	2015	Fiscal Year E June 30, 20 \$3,119,301,	016	Fiscal Year Ending June 30, 2017 \$2,594,641,564		Fiscal Year E June 30, 20 <b>\$2,293,484</b> ,	018	Fiscal Year E June 30, 20 \$3,406,568,	19	Fiscal Year Ending June 30, 2020 \$3,074,912,046		
Deferred Resources	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	
Differences between Expected and Actual Experience	\$ 0 \$	202,961,062 \$	0 \$	572,334,258 \$	0 \$	195,708,584 \$	0 \$	1,469,280,196 \$	1,548,790,552 \$	0 \$	878,079,915 \$	0	
Changes of Assumptions	0	0	1,793,394,596	0	0	0	14,782,263	0	0	776,645,823	0	0	
Net Difference between Projected and Actual Earnings on Pension Plan Investments	2,099,773,673	0	2,127,274,784	0	0	2,499,281,170	0	703,343,622	96,053,701	0	1,905,562,405	0	
Total	\$ 2,099,773,673 \$	202,961,062 \$	3,920,669,380 \$	572,334,258 \$	0 \$	2,694,989,754 \$	14,782,263 \$	2,172,623,818 \$	1,644,844,253 \$	776,645,823 \$	2,783,642,320 \$	0	

Reported amounts will be recognized in Pension Expense during Fiscal Year Ending June 30

2015	\$439,305,840					
2016	\$439,305,840	\$1,055,878,925				
2017	\$439,305,840	\$1,055,878,925	(\$667,365,638)			
2018	\$493,257,515	\$1,055,878,925	(\$667,365,638)	(\$466,154,855)		
2019	\$524,943,416	\$704,758,570	(\$667,365,638)	(\$466,154,855)	\$175,414,351	
2020		\$531,818,702	(\$667,365,638)	(\$466,154,855)	\$175,414,351	\$649,581,906
2021			(\$667,365,632)	(\$466,154,855)	\$175,414,351	\$649,581,906
2022			(\$25,527,208)	(\$466,154,853)	\$175,414,351	\$649,581,906
2023				(\$290,318,949)	\$175,414,356	\$649,581,906
2024				(\$2,903,188)	\$151,400,927	\$649,581,907
2025					\$15,140,094	\$173,191,305
2026						\$12,123,390

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ending June 30, 2020, the Obligors recognized Pension Expense for NYCERS of \$3,074,912,046.

# At June 30, 2020, the Obligors reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to Pensions for NYCERS from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between Expected and Actual Experience	\$ 2,123,186,045	\$ 950,813,748
Changes of Assumptions	8,881,161	624,362,328
Net Difference between Projected and Actual Earnings on Pension Plan Investments	1,001,110,584	 0
Total	\$ 3,133,177,790	\$ 1,575,176,076

# Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions for NYCERS will be recognized in Pension Expense as follows:

Fiscal Year	
Ending	
June 30	Amount
2020	\$ 223,294,466
2021	(308,524,230)
2022	333,314,196
2023	534,677,313
2024	798,079,646
2025	188,331,399
2026	12,123,390

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Pension Amounts by Employer As of and for the year ending June 30, 2019

		-			Defe	rred Ou	tflows of Res	ource	5			Deferred Inflows of Resources								Pension Expense					
<u>Entity*</u>	Differences Between Expected Net Pension and Actual Chang Liability Assump S 4310.223.007 S 360.418.222 S 2.7			Between Expected Net Pension and Actual Char Liability Experience Assum			Changes in Net Difference Proportion Between and Differences Projected Between and Actual Employer Total Investment Contributions Deferred Earnings on and Proportionate Outflows Pension Plan Share of of Investments Contributions Resources			Deferred Outflows of	Differences Between Expected and Actual Change of Experience Assumptions			Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Inflows of Resources		Proportionate Share of Plan Pension Expense		Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions			Total Employer Pension Expense	
Transit Authority	\$	4,310,223,097	\$ 360,418,222	\$	2,753,352	\$	0	\$	163,385,444	\$	526,557,018	\$	\$ 299,410,652	\$ 180,732,834	\$ 267,447,379	\$	14,202,891	\$	761,793,756	\$	880,379,120	\$	34,678,279	\$	915,057,399
TA TP		131,572,211	11,001,988		84,048		0		4,062,267		15,148,303		9,139,694	5,516,981	8,163,996		896,696		23,717,367		27,305,080		1,757,023	\$	29,062,103
Housing Authority		822,108,574	68,744,216		525,159		0		(94,485,064)		(25,215,689)		57,107,964	34,472,001	51,011,463		(2,216,631)		140,374,797		138,701,252		(20,857,629)	\$	117,843,623
HHC		2,585,414,159	216,190,752		1,651,551		0		(152,331,736)		65,510,567		179,596,397	108,409,523	160,423,771		(812,120)		447,617,571		538,351,647		(11,320,279)	\$	527,031,368
OTB (City)		59,142,093	4,945,425		37,780		0		3,806,085		8,789,290		4,108,319	2,479,899	3,669,740		(661,842)		9,596,116		11,827,600		3,036,786	\$	14,864,386
OTB (State)		59,142,093	4,945,426		37,779		0		3,806,085		8,789,290		4,108,319	2,479,899	3,669,740		(661,842)		9,596,116		11,827,601		3,036,786	\$	14,864,387
HDC/REMIC		10,048,926	840,285		6,419		0		289,722		1,136,426		698,051	421,364	623,531		(6,347)		1,736,599		1,695,393		43,013	\$	1,738,406
State Courts		6,806,497	569,155		4,348		0		632,178		1,205,681		472,815	285,405	422,340		152,170		1,332,730		1,427,351		205,548	\$	1,632,899
SCA		15,137,301	1,265,772		9,670		0		5,132,390		6,407,832		1,051,516	634,725	939,263		(243,123)		2,382,381		2,893,876		1,126,975	\$	4,020,851
WFA		393,239	32,882		251		0		(417,710)		(384,577)		27,316	16,489	24,400		(34,317)		33,888		86,345		(101,847)	\$	(15,502)
Senior Colleges		227,141,248	18,993,412		145,097		0		(4,172,751)		14,965,758		15,778,420	9,524,305	14,094,011		(1,174,541)		38,222,195		47,345,917		(346,815)	\$	46,999,102
TBTA		226,287,151	18,921,993		144,551		0		(5,566,007)		13,500,537		15,719,090	9,488,492	14,041,015		176,529		39,425,126		46,031,818		(134,657)	\$	45,897,161
City Other	_	10,068,490,491	841,921,024		6,431,707		0		75,859,097		924,211,828	_	699,410,039	422,183,906	624,745,246		(9,617,523)		1,736,721,668		1,698,695,626		(11,123,183)	\$	1,687,572,443
Subtotal City		10,274,342,096	859,134,209		6,563,205		0		88,859,839		954,557,253		713,709,568	430,815,511	637,518,245		(9,625,792)		1,772,417,532		1,740,722,182		(5,202,399)		1,735,519,783
Total	\$	18,521,907,080	\$ 1,548,790,552	\$	11,831,712	\$	0	\$	0	\$	1,560,622,264	5	1,286,628,592	\$ 776,645,823	\$ 1,149,275,895	\$	0	\$	3,212,550,310	\$	3,406,568,626	\$	0	\$	3,406,568,626

\* Transit Authority - Transit Operating, Transit Non-Operating, and Transit Capital Project Engineers

TA TP - Transit Authority Transit Police

IA IP- Transit Authority Transit Police Housing Authority - Regular, and Housing Police HHC - Health and Hospitals Corporation OTB (City) - Off-Track Betting (City) OTB (State) - Off-Track Betting (State)

HDC/REMIC - Housing Development Corporation / REMIC

State Courts - State Courts

SCA - School Construction Authority

WFA - Water Finance Authority Senior Colleges - Senior Colleges

TBTA - Triborough Bridge and Tunnel Authority

1B1A - Introloging Tange shar Junier Junier Junier City Other - City of New York Subtotal City - City Other, Transit Authority Transit Police, School Construction Authority, and Off-Track Betting (City)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Pension Amounts by Employer As of and for the year ending June 30, 2020

	_		Defe	rred Outflows of Reso	ources				1	Deferred Inflows of	Resou	irces			Pen	sion Expense	
<u>Entity*</u>	 Net Pension Liability	Differences Between Expected and Actual Experience	Change of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	an	Changes in Proportion and Differences Between Employer Contributions dd Proportionate Share of Contributions	Total Deferred Outflows of Resources	 Differences Between Expected and Actual Experience	Change of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	 Total Deferred Inflows of Resources	 Proportionate Share of Plan Pension Expense	Defe from and Co and	unortization of rred Amounts n Changes in Proportion I Differences Between Employer ontributions Proportionate Share of ontributions	 Total Employer Pension Expense
Transit Authority	\$ 4,891,900,010	\$ 492,733,041	\$ 2,061,073	\$ 232,330,211	\$	108,400,180	\$ 835,524,505	\$ 220,657,700	\$ 144,897,311	\$ 0	\$	5 7,984,014	\$ 373,539,025	\$ 713,602,450	\$	35,915,831	\$ 749,518,281
TA TP	144,678,075	14,572,593	60,956	6,871,172		(2,100,765)	19,403,956	6,525,957	4,285,342	0		272,490	11,083,789	21,104,811		696,101	21,800,912
Housing Authority	913,451,001	92,006,682	384,858	43,382,380		(93,778,258)	41,995,662	41,202,804	27,056,275	0		(3,005,143)	65,253,936	133,249,019		(22,707,863)	110,541,156
HHC	2,859,283,931	287,999,277	1,204,684	135,795,507		(195,853,126)	229,146,342	128,972,999	84,691,542	0		(5,872,038)	207,792,503	417,096,019		(41,063,013)	376,033,006
OTB (City)	67,888,858	6,838,055	28,603	3,224,234		4,290,494	14,381,386	3,062,246	2,010,857	0		(356,849)	4,716,254	9,903,240		376,754	10,279,994
OTB (State)	77,659,243	7,822,170	32,720	3,688,258		12,704,945	24,248,093	3,502,956	2,300,255	0		247,343	6,050,554	11,328,489		1,917,240	13,245,729
HDC/REMIC	11,921,719	1,200,806	5,023	566,196		666,682	2,438,707	537,750	353,119	0		25,640	916,509	1,739,073		119,538	1,858,611
State Courts	8,290,522	835,057	3,493	393,740		817,725	2,050,015	373,958	245,564	0		130,116	749,638	1,209,374		313,288	1,522,662
SCA	18,638,516	1,877,351	7,853	885,196		5,622,022	8,392,422	840,723	552,070	0		(39,666)	1,353,127	2,718,880		1,064,450	3,783,330
WFA	422,330	42,539	178	20,058		(325,666)	(262,891)	19,050	12,509	0		(23,974)	7,585	61,607		(105,821)	(44,214)
Senior Colleges	261,472,152	26,336,591	110,164	12,418,054		(141,201)	38,723,608	11,794,158	7,744,764	0		(433,989)	19,104,933	38,142,066		(448,608)	37,693,458
TBTA	255,545,427	25,739,626	107,667	12,136,577		(5,984,157)	31,999,713	11,526,823	7,569,215	0		(127,164)	18,968,874	37,277,508		(1,785,052)	35,492,456
City Other	 11,568,039,102	1,165,182,257	 4,873,889	549,399,001		165,681,126	 1,885,136,273	 521,796,624	342,643,505	0		1,199,220	 865,639,349	 1,687,479,510		25,707,155	 1,713,186,665
Subtotal City	11,799,244,551	1,188,470,256	4,971,301	560,379,603		173,492,877	1,927,314,037	532,225,550	349,491,774	0		1,075,195	882,792,519	1,721,206,441		27,844,460	1,749,050,901
Total	\$ 21,079,190,886	\$ 2,123,186,045	\$ 8,881,161	\$ 1,001,110,584	\$	0	\$ 3,133,177,790	\$ 950,813,748	\$ 624,362,328	\$ 0	\$	5 0	\$ 1,575,176,076	\$ 3,074,912,046	\$	0	\$ 3,074,912,046

\* Transit Authority - Transit Operating, Transit Non-Operating, and Transit Capital Project Engineers

TA TP - Transit Authority Transit Police

IA IP - Iransi Authority Iransit Police Housing Authority - Regular, and Housing Police HHC - Health and Hospitals Corporation OTB (City) - Off-Track Betting (City) OTB (State) - Off-Track Betting (State)

HDC/REMIC - Housing Development Corporation / REMIC

State Courts - State Courts

SCA - School Construction Authority

WFA - Water Finance Authority

Senior Colleges - Senior Colleges TBTA - Triborough Bridge and Tunnel Authority

1B1A - Introloging Tange shar Junier Junier Junier City Other - City of New York Subtotal City - City Other, Transit Authority Transit Police, School Construction Authority, and Off-Track Betting (City)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Collective Pension Amounts As of and for the year ending June 30, 2020

-		Deferred Outflo	ws of Resources			Deferred Inflows of Resources							
Net Pension	Differences Between Expected and Actual	Change of	Net Difference Between Projected and Actual Investment Earnings on Pension Plan	Total Deferred Outflows of Resources Excluding Employer Specific	Differences Between Expected and Actual	Change of	Net Difference Between Projected and Actual Investment Earnings on Pension Plan	Total Deferred Inflows of Resources Excluding Employer Specific	Plan Pension				
Liability	Experience	Assumptions	Investments	Amounts	Experience	Assumptions	Investments	Amounts	Expense				
\$ 21,079,190,886	\$ 2,123,186,045	\$ 8,881,161	\$ 1,001,110,584	\$ 3,133,177,790	\$ 950,813,748	\$ 624,362,328	\$ 0	\$ 1,575,176,076	\$ 3,074,912,046				

# **Appendix B**

# **APPENDIX B**

# NEW YORK CITY TEACHERS' RETIREMENT SYSTEM (TRS)

Page 1	-	Statement of Fiduciary Net Position
Page 2	-	Statement of Changes in Fiduciary Net Position
Page 3	-	Market Value of Assets
Page 4	-	Long-Term Expected Rate of Return
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Page 6	-	Roll-Forward of Entry Age Accrued Liabilities to June 30, 2020
Page 7a 7b 7c 7d	-	Schedule of Employer Allocations - June 30, 2019 Changes in Net Pension Liability by Source - June 30, 2019 Schedule of Employer Allocations - June 30, 2020 Changes in Net Pension Liability by Source - June 30, 2020
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12b 12c 12d	- - -	Changes in Proportionate Share - June 30, 2016 Changes in Proportionate Share - June 30, 2017 Changes in Proportionate Share - June 30, 2018 Changes in Proportionate Share - June 30, 2019 Changes in Proportionate Share - June 30, 2020
-		Components of Pension Expense - June 30, 2019 Components of Pension Expense - June 30, 2020
-		Pension Expense, Deferred Inflows/Outflows of Resources through June 30, 2020 Pension Expense, Total Deferred Inflows/Outflows of Resources at June 30, 2020
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# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Statement of Fiduciary Net Position - QPP Only June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

		June 30, 2020		June 30, 2019
GETS Cash	\$	48,488	\$	76,796
Casii	φ	40,400	φ	/0,/90
Receivables:				
Investment securities sold		1,889,299		2,305,855
Member loans		323,805		320,976
Accrued interest and dividends		289,845		290,228
Total receivables	\$	2,502,949	\$	2,917,059
Investments - at fair value				
Pooled NYC Pension Fund Assets:				
Short-term investments:				
Short-term investment fund		747,639		779,479
Commercial paper		381,195		567,394
Discount notes		0		203,555
U.S. Treasury bills and agencies		2,149,709		100,011
Debt securities:				
U.S. Government		9,911,190		11,074,088
Corporate		14,707,801		11,914,295
Treasury inflation protected securities		3,126,355		3,387,131
Equities:				
Domestic		25,363,162		24,374,505
International equity		14,990,424		15,224,013
Alternative Investments		10,765,147		10,069,086
Diversified Equity Fund:				
Short-term investments		119,761		123,852
Equity Securities		5,366,777		5,826,298
Corporate Bonds		129,398		120,152
Bond Fund:				
Short-term investments		1,086		775
Equity Securities		57,937		62,502
International Equity Fund:				
Short-term investments		104		65
Equity Securities		9,422		11,131
Inflation Protection Fund:				
Short-term investments		0		13
Equity Securities		0		3,930
Socially Responsive Equity Fund:				
Short-term investments		315		410
Equity Securities		12,691		10,975
International - equity		0		985
U.S. Equity Index Fund:				
Equity Securities		2,568		0
International Equity Index Fund:		50		0
Equity Securities Collateral from securities lending (Fixed and Variable-Return Funds)		59 1,391,240		0 1,222,314
	¢.		¢	
Total Investments	\$	89,233,980	\$	85,076,959
Other assets		63,899		42,615
Total assets	\$	91,849,316	\$	88,113,429
ви инго				
BILITIES		200 (49		646.010
Accounts payable		299,648		646,918
Payables for investment securities purchased		3,096,888		2,574,584
Accrued benefits payable		88,957		77,154
Due to TDA Program		27,653,633		25,602,248
Securities lending		1,391,240		1,222,314
Total liabilities	\$	32,530,366	\$	30,123,218
Net Position Held in Trust for Benefits	\$	59,318,950	\$	57,990,211

# NEW YORK CITY TEACHERS' RETIREMENT SYSTEM (TRS)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Statement of Changes in Fiduciary Net Position - QPP Only June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

	June 30, 2020					June 30, 2019				
		Fixed	/	Variable		Fixed	,	Variable		
ADDITIONS										
Contributions:	<u>^</u>	226 (72)	¢	2.15	¢	016 055	¢	220		
Member Contributions	\$	226,673	\$	247	\$	216,875	\$	330		
Employer Contributions		3,590,822		0		3,696,686		0		
Other Employer Contributions <sup>1</sup>		61,734		14		62,495		18		
Total contributions	\$	3,879,229	\$	261	\$	3,976,056	\$	348		
Investment income:										
Interest income		1,091,255		2,885		1,144,517		4,272		
Dividend income		996,781		128,399		964,931		147,800		
Net appreciation (depreciation) in fair value		1,949,874		22,354		3,478,612		270,483		
Total investment income	\$	4,037,910	\$	153,638	\$	5,588,060	\$	422,555		
Less:										
Investment expenses		288,080		2,791		299,763		1,674		
Net income		3,749,830		150,847		5,288,297		420,881		
Securities lending transactions:										
Securities lending income		11,038		847		12,452		964		
Securities lending fees		(1,291)		(84)		(1,188)		(96)		
Net securities lending income		9,747		763		11,264		868		
Net investment income		3,759,577		151,610		5,299,561		421,749		
Other:										
Net receipts from/(to) other retirement systems		(2,798)		0		1,222		0		
Transfers between Funds		7,201		(7,201)		127,717		(127,717)		
Litigation income		0		0		0		0		
Total Other		4,403		(7,201)		128,939		(127,717)		
Total additions	\$	7,643,209	\$	144,670	\$	9,404,556	\$	294,380		
DEDUCTIONS										
Benefit payments and withdrawals		4,005,502		585,584		3,888,293		599,387		
Interest to TDA Fixed Funds		1,846,173		0		1,716,679		0		
TDA Rebalance		(42,651)		0		(27,449)		0		
Administrative expenses		51,059		13,473		50,184		14,107		
Total deductions	\$	5,860,083	\$	599,057	\$	5,627,707	\$	613,494		
INCREASE IN PLAN NET POSITION		1,783,126		(454,387)		3,776,849		(319,114)		
PLAN NET POSITION HELD IN TRUST FOR BENEFITS: Beginning of year	\$	51,949,650	\$	6,040,561	\$	48,172,801	\$	6,359,675		
End of year	\$	53,732,776	\$	5,586,174	\$	51,949,650	\$	6,040,561		

<sup>1</sup> Includes amounts for employer's portion of Additional Member Contributions and supplemental contributions for the ASAF and ASF Funds.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# **Market Values of Assets - QPP Only**

	Fixed	Variable	Total
1. Plan Net Position @ 6/30/2018	\$ 48,172,801,000	\$ 6,359,675,000	\$ 54,532,476,000
2. Changes for the year:			
a. ER Contributions	3,696,686,000	0	3,696,686,000
b. Other Employer Contributions <sup>1</sup>	62,495,000	18,000	62,513,000
c. EE Contributions	216,875,000	330,000	217,205,000
d. Net Investment Income	5,299,561,000	421,749,000	5,721,310,000
e. Benefit Payments	(3,888,293,000)	(599,387,000)	(4,487,680,000)
f. Payment of Interest on TDA Fixed Funds	(1,716,679,000)	0	(1,716,679,000)
g. Administrative Expenses	(50,184,000)	(14,107,000)	(64,291,000)
h. Other <sup>2</sup>	156,388,000	(127,717,000)	28,671,000
i. Net Changes	 3,776,849,000	(319,114,000)	3,457,735,000
3. Plan Net Position @ 6/30/2019	\$ 51,949,650,000	\$ 6,040,561,000	\$ 57,990,211,000
4. Changes for the year:			
a. ER Contributions	3,590,822,000	0	3,590,822,000
b. Other Employer Contributions <sup>1</sup>	61,734,000	14,000	61,748,000
c. EE Contributions	226,673,000	247,000	226,920,000
d. Net Investment Income	3,759,577,000	151,610,000	3,911,187,000
e. Benefit Payments	(4,005,502,000)	(585,584,000)	(4,591,086,000)
f. Payment of Interest on TDA Fixed Funds	(1,846,173,000)	0	(1,846,173,000)
g. Administrative Expenses	(51,059,000)	(13,473,000)	(64,532,000)
h. Other <sup>2</sup>	47,054,000	(7,201,000)	39,853,000
i. Net Changes	\$ 1,783,126,000	\$ (454,387,000)	\$ 1,328,739,000
5. Plan Net Position @ 6/30/2020	\$ 53,732,776,000	\$ 5,586,174,000	\$ 59,318,950,000

<sup>1</sup> Includes amounts for employer's portion of Additional Member Contributions and supplemental contributions for the ASAF and ASF Funds. <sup>2</sup> Includes TDA rebalance amount of (\$27,449,000) and (\$42,651,000) for the Fixed Fund for Fiscal Years 2019 and 2020, respectively.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Long-Term Expected Rate of Return

The Long-Term Expected Rate of Return (LTEROR) assumption on pension fund investments was determined using a Building-Block Method in which best-estimate ranges of Expected Real Rates of Return (i.e. Expected Returns, net of pension fund investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the LTEROR by weighting the Expected Real Rates of Return (RROR) by the Target Asset Allocation percentage and by adding Expected Inflation. The Target Asset Allocation and best estimates of Arithmetic Real Rates of Return for each major asset class are summarized in the following table:

		Long-Term
	Target	Expected
	Asset	Real Rate
Asset Class	Allocation	of Return
Public Markets:		
U.S. Public Market Equities	25.0%	5.7%
Developed Public Market Equities	10.0%	7.5%
Emerging Public Market Equities	9.5%	10.2%
Fixed Income	32.5%	1.6%
Private Markets (Alternative Investments):		
Private Equity	7.0%	10.6%
Private Real Estate	7.0%	6.7%
Infrastructure	4.0%	5.1%
Opportunistic Fixed Income	<u>5.0%</u>	6.3%
	100.0%	

The Discount Rate used to measure the Total Pension Liability was 7.0% per annum. The projection of Cash Flows used to determine the Discount Rate assumes that employee contributions will be made at the rates applicable to the current Tier for each member and that employer contributions will be made at rates as determined by the Actuary. Based on those assumptions, the pension fund's Fiduciary Net Position is projected to be available to make all projected future benefit payments of current active and non-active members. Therefore, the Long-Term Expected Rate of Return on pension fund investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Development of Asset (Gain) / Loss - QPP Only June 30, 2019

	Fixed	Variable	Variable		
1. Market Value 6/30/2018	\$ 48,172,801,000	\$ 6,359,675,000	\$	54,532,476,000	
2. Market Value 6/30/2019	51,949,650,000	6,040,561,000		57,990,211,000	
3. Net Investment Income	5,299,561,000	421,749,000		5,721,310,000	
4. Cash Flow (2 1 3.)	(1,522,712,000)	(740,863,000)		(2,263,575,000)	
5. Projected Earnings <sup>1</sup> (7% * 1. + 3.441% * 4.)	3,319,699,550	421,749,000		3,741,448,550	
6. (Gain) / Loss (5 3.)	(1,979,861,450)	0		(1,979,861,450)	
7. Recognition Period	5 Years	5 Years		5 Years	
8. Amount Recognized in Pension Expense (6. / 7.)	(395,972,290)	0		(395,972,290)	
9. Deferred (Inflow) / Outflow of Resources (6 8.)	\$ (1,583,889,160)	\$ 0	\$	(1,583,889,160)	

<sup>1</sup> Variable Funds Projected Earnings set equal to Variable Funds Net Investment Income.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Development of Asset (Gain) / Loss - QPP Only June 30, 2020

	Fixed	Variable	Variable		
1. Market Value 6/30/2019	\$ 51,949,650,000	\$ 6,040,561,000	\$	57,990,211,000	
2. Market Value 6/30/2020	53,732,776,000	5,586,174,000		59,318,950,000	
3. Net Investment Income	3,759,577,000	151,610,000		3,911,187,000	
4. Cash Flow (2 1 3.)	(1,976,451,000)	(605,997,000)		(2,582,448,000)	
5. Projected Earnings <sup>1</sup> (7% * 1. + 3.441% * 4.)	3,568,465,821	151,610,000		3,720,075,821	
6. (Gain) / Loss (5 3.)	(191,111,179)	0		(191,111,179)	
7. Recognition Period	5 Years	5 Years		5 Years	
8. Amount Recognized in Pension Expense (6. / 7.)	(38,222,236)	0		(38,222,236)	
9. Deferred (Inflow) / Outflow of Resources (6 8.)	\$ (152,888,943)	\$ 0	\$	(152,888,943)	

<sup>1</sup> Variable Funds Projected Earnings set equal to Variable Funds Net Investment Income.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Roll-Forward of Entry Age Accrued Liabilities to June 30, 2020

	Fixed	Variable	Total
1. Disclosed EA Accrued Liability at 6/30/2019	\$ 67,373,107,081	\$ 5,973,743,385	\$ 73,346,850,466
2. EA Normal Cost at 6/30/2019	1,555,754,951	0	1,555,754,951
3. Benefit Payments-FY2020	(4,005,502,000)	(585,584,000)	(4,591,086,000)
4. Interest <sup>1</sup>	4,687,191,018	151,610,000	4,838,801,018
5. Experience (Gain)/Loss-FY2020	(25,514,446)	(8,809,313)	(34,323,759)
6. Roll-Forward EAAL at 6/30/2020	\$ 69,585,036,604	\$ 5,530,960,072	\$ 75,115,996,676

<sup>1</sup> Interest on Variable Funds set equal to Variable Funds Net Investment Income.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Employer Allocations June 30, 2019

Employer	(	2019 Employer Contributions	Employer Allocation Percentage
Department of Education	\$	3,547,597,502	95.9669802957%
CUNY Senior Colleges		95,023,058	2.5704933915%
CUNY Community Colleges		46,144,383	1.2482636747%
Charter Schools		7,920,616	0.2142626381%
Total	\$	3,696,685,559	100.000%

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source - by Obligor Balances at June 30, 2019

		<b>Total Pe</b>	nsion Liabilit	t <b>y</b>	
	 DEPT. OF ED.	SENIOR COLL.	COMM. COLL.	Charter Schools	TOTAL
1. Balances at June 30, 2018	\$ 70,320,766,041 \$	1,922,653,198 \$	862,081,072 \$	138,431,030 \$	73,243,931,341
2. Changes for the Year:					
a. Service Cost	1,622,939,570	43,470,738	21,109,933	3,623,489	1,691,143,730
b. Interest	4,716,347,391	126,328,241	61,346,571	10,530,049	4,914,552,252
<ul> <li>c. Changes of Benefit Terms</li> </ul>	0	0	0	0	0
d. Differences b/t Expected and Actual Experience	(1,140,324,519)	(30,543,804)	(14,832,452)	(2,545,969)	(1,188,246,744)
e. Changes of Assumptions	(793,503,084)	(21,254,128)	(10,321,270)	(1,771,631)	(826,850,113)
f. Benefit Payments	 (4,306,690,981)	(115,355,518)	(56,018,079)	(9,615,422)	(4,487,680,000)
g. Net Changes	\$ 98,768,377 \$	2,645,529 \$	1,284,703 \$	220,516 \$	102,919,125
3. SubTotal	\$ 70,419,534,418 \$	1,925,298,727 \$	863,365,775 \$	138,651,546 \$	73,346,850,466
4. Changes in Proportionate Share	\$ (30,776,884) \$	(39,922,783) \$	52,196,316 \$	18,503,351 \$	-
5. Balances at June 30, 2019	\$ 70,388,757,534 \$	1,885,375,944 \$	915,562,091 \$	157,154,897 \$	73,346,850,466

		Plan Fiduci	ary Net Posi	ition	
	 DEPT. OF ED.	SENIOR COLL.	COMM. COLL.	Charter Schools	TOTAL
1. Balances at June 30, 2018	\$ 52,356,084,883 \$	1,431,477,495 \$	641,847,243 \$	103,066,379 \$	54,532,476,000
2. Changes for the Year:					
a. Contributions - Employer	3,547,597,943	95,023,058	46,144,383	7,920,616	3,696,686,000
<ul> <li>Contributions - Other Employer<sup>1</sup></li> </ul>	59,991,838	1,606,893	780,327	133,942	62,513,000
c. Contributions - Employee	208,445,080	5,583,240	2,711,291	465,389	217,205,000
d. Net Investment Income	5,490,568,441	147,065,895	71,417,034	12,258,630	5,721,310,000
e. Benefit Payments	(4,306,690,981)	(115,355,518)	(56,018,079)	(9,615,422)	(4,487,680,000)
f. Payment of Interest on TDA Fixed Funds	(1,647,444,998)	(44,127,120)	(21,428,680)	(3,678,202)	(1,716,679,000)
g. Administrative Expenses	(61,698,131)	(1,652,596)	(802,521)	(137,752)	(64,291,000)
h. Other Changes	27,514,693	736,986	357,890	61,431	28,671,000
i. Net Changes	\$ 3,318,283,885 \$	88,880,838 \$	43,161,645 \$	7,408,632 \$	3,457,735,000
3. SubTotal	\$ 55,674,368,768 \$	1,520,358,333 \$	685,008,888 \$	110,475,011 \$	57,990,211,000
4. Changes in Proportionate Share	\$ (22,914,404) \$	(29,723,792) \$	38,861,851 \$	13,776,345 \$	-
5. Balances at June 30, 2019	\$ 55,651,454,364 \$	1,490,634,541 \$	723,870,739 \$	124,251,356 \$	57,990,211,000

			Net 1	Pen	sion Liabil	ity		
		 DEPT. OF ED.	SENIOR COLL		COMM. COLL.	0	harter Schools	TOTAL
1. Ba	lances at June 30, 2018	\$ 17,964,681,158	\$ 491,175,703	\$	220,233,829	\$	35,364,651 \$	18,711,455,341
2. Ch	anges for the Year:							
a.	Service Cost	1,622,939,570	43,470,738		21,109,933		3,623,489	1,691,143,730
b.	Interest	4,716,347,391	126,328,241		61,346,571		10,530,049	4,914,552,252
c.	Changes of Benefit Terms	0	0		0		0	0
d.	Differences b/t Expected and Actual Experience	(1,140,324,519)	(30,543,804	)	(14,832,452)		(2,545,969)	(1,188,246,744)
e.	Changes of Assumptions	(793,503,084)	(21,254,128	)	(10,321,270)		(1,771,631)	(826,850,113)
f.	Contributions - Employer	(3,547,597,943)	(95,023,058	)	(46,144,383)		(7,920,616)	(3,696,686,000)
g.	Contributions - Other Employer <sup>1</sup>	(59,991,838)	(1,606,893	)	(780,327)		(133,942)	(62,513,000)
h.	Contributions - Employee	(208,445,080)	(5,583,240	)	(2,711,291)		(465,389)	(217,205,000)
i.	Net Investment Income	(5,490,568,441)	(147,065,895	)	(71,417,034)		(12,258,630)	(5,721,310,000)
j.	Benefit Payments	0	0		0		0	0
k.	Payment of Interest on TDA Fixed Funds	1,647,444,998	44,127,120		21,428,680		3,678,202	1,716,679,000
1.	Administrative Expenses	61,698,131	1,652,596		802,521		137,752	64,291,000
m.	Other Changes	(27,514,693)	(736,986	)	(357,890)		(61,431)	(28,671,000)
n.	Net Changes	\$ (3,219,515,508)	\$ (86,235,309	) \$	(41,876,942)	\$	(7,188,116) \$	(3,354,815,875)
3. Sul	bTotal	\$ 14,745,165,650	\$ 404,940,394	\$	178,356,887	\$	28,176,535 \$	15,356,639,466
4. Ch	anges in Proportionate Share	\$ (7,862,480)	\$ (10,198,991	)\$	13,334,465	\$	4,727,006 \$	-
5. Bal	lances at June 30, 2019	\$ 14,737,303,170	\$ 394,741,403	\$	191,691,352	\$	32,903,541 \$	15,356,639,466

<sup>1</sup> Includes amounts for employer's portion of Additional Member Contributions and supplemental contributions for the ASAF and ASF Funds.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Employer Allocations June 30, 2020

Employer	(	2020 Employer Contributions	Employer Allocation Percentage
Department of Education	\$	3,441,459,566	95.8404466437%
CUNY Senior Colleges		95,856,030	2.6694733884%
CUNY Community Colleges		45,940,141	1.2793768306%
Charter Schools		7,565,974	0.2107031373%
Total	\$	3,590,821,711	100.000%

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source - by Obligor Balances at June 30, 2020

		Total Pe	nsion Liabili	ity	
	 DEPT. OF ED.	SENIOR COLL.	COMM. COLL.	Charter Schools	TOTAL
1. Balances at June 30, 2019	\$ 70,388,757,534 \$	1,885,375,944 \$	915,562,091 \$	157,154,897 \$	73,346,850,466
2. Changes for the Year:					
a. Service Cost	1,491,042,495	41,530,464	19,903,968	3,278,024	1,555,754,951
b. Interest	4,637,528,508	129,170,505	61,906,499	10,195,506	4,838,801,018
<ul> <li>c. Changes of Benefit Terms</li> </ul>	0	0	0	0	0
d. Differences b/t Expected and Actual Experience	(32,896,044)	(916,264)	(439,130)	(72,321)	(34,323,759)
e. Changes of Assumptions	0	0	0	0	0
f. Benefit Payments	 (4,400,117,328)	(122,557,819)	(58,737,291)	(9,673,562)	(4,591,086,000)
g. Net Changes	\$ 1,695,557,631 \$	47,226,886 \$	22,634,046 \$	3,727,647 \$	1,769,146,210
3. SubTotal	\$ 72,084,315,165 \$	1,932,602,830 \$	938,196,137 \$	160,882,544 \$	75,115,996,676
4. Changes in Proportionate Share	\$ (92,808,450) \$	72,598,712 \$	22,820,520 \$	(2,610,782) \$	-
5. Balances at June 30, 2020	\$ 71,991,506,715 \$	2,005,201,542 \$	961,016,657 \$	158,271,762 \$	75,115,996,676

		Plan Fid	uci	iary Net Po	osi	tion	
	 DEPT. OF ED.	SENIOR COLL.		COMM. COLL.		Charter Schools	TOTAL
1. Balances at June 30, 2019	\$ 55,651,454,364	\$ 1,490,634,541	\$	723,870,739	\$	124,251,356	\$ 57,990,211,000
2. Changes for the Year:							
<ul> <li>Contributions - Employer</li> </ul>	3,441,459,855	95,856,030		45,940,141		7,565,974	3,590,822,000
<ul> <li>b. Contributions - Other Employer<sup>1</sup></li> </ul>	59,179,559	1,648,346		789,990		130,105	61,748,000
c. Contributions - Employee	217,481,141	6,057,569		2,903,162		478,128	226,920,000
d. Net Investment Income	3,748,499,090	104,408,096		50,038,820		8,240,994	3,911,187,000
e. Benefit Payments	(4,400,117,328)	(122,557,819)		(58,737,291)		(9,673,562)	(4,591,086,000)
f. Payment of Interest on TDA Fixed Funds	(1,769,380,449)	(49,283,097)		(23,619,510)		(3,889,944)	(1,846,173,000)
g. Administrative Expenses	(61,847,757)	(1,722,665)		(825,607)		(135,971)	(64,532,000)
h. Other Changes	 38,195,293	1,063,865		509,870		83,972	39,853,000
i. Net Changes	\$ 1,273,469,404	\$ 35,470,325	\$	16,999,575	\$	2,799,696	\$ 1,328,739,000
3. SubTotal	\$ 56,924,923,768	\$ 1,526,104,866	\$	740,870,314	\$	127,051,052	\$ 59,318,950,000
4. Changes in Proportionate Share	\$ (73,377,144)	\$ 57,398,719	\$	18,042,588	\$	(2,064,163)	\$ -
5. Balances at June 30, 2020	\$ 56,851,546,624	\$ 1,583,503,585	\$	758,912,902	\$	124,986,889	\$ 59,318,950,000

			Net Po	ension Liabil	ity	
		 DEPT. OF ED.	SENIOR COLL.	COMM. COLL.	Charter Schools	TOTAL
1. Bal	ances at June 30, 2019	\$ 14,737,303,170	\$ 394,741,403	\$ 191,691,352	\$ 32,903,541 \$	15,356,639,466
2. Ch	anges for the Year:					
a.	Service Cost	1,491,042,495	41,530,464	19,903,968	3,278,024	1,555,754,951
b.	Interest	4,637,528,508	129,170,505	61,906,499	10,195,506	4,838,801,018
с.	Changes of Benefit Terms	0	0	0	0	0
d.	Differences b/t Expected and Actual Experience	(32,896,044)	(916,264)	(439,130)	(72,321)	(34,323,759)
e.	Changes of Assumptions	0	0	0	0	0
f.	Contributions - Employer	(3,441,459,855)	(95,856,030)	(45,940,141)	(7,565,974)	(3,590,822,000)
g.	Contributions - Other Employer <sup>1</sup>	(59,179,559)	(1,648,346)	(789,990)	(130,105)	(61,748,000)
h.	Contributions - Employee	(217,481,141)	(6,057,569)	(2,903,162)	(478,128)	(226,920,000)
i.	Net Investment Income	(3,748,499,090)	(104,408,096)	(50,038,820)	(8,240,994)	(3,911,187,000)
j.	Benefit Payments	0	0	0	0	0
k.	Payment of Interest on TDA Fixed Funds	1,769,380,449	49,283,097	23,619,510	3,889,944	1,846,173,000
1.	Administrative Expenses	61,847,757	1,722,665	825,607	135,971	64,532,000
m.	Other Changes	(38,195,293)	(1,063,865)	(509,870)	(83,972)	(39,853,000)
n.	Net Changes	\$ 422,088,227	\$ 11,756,561	\$ 5,634,471	\$ 927,951 \$	440,407,210
3. Sul	oTotal	\$ 15,159,391,397	\$ 406,497,964	\$ 197,325,823	\$ 33,831,492 \$	15,797,046,676
4. Ch	anges in Proportionate Share	\$ (19,431,306)	\$ 15,199,993	\$ 4,777,932	\$ (546,619) \$	-
5. Ba	ances at June 30, 2020	\$ 15,139,960,091	\$ 421,697,957	\$ 202,103,755	\$ 33,284,873 \$	15,797,046,676

<sup>1</sup> Includes amounts for employer's portion of Additional Member Contributions and supplemental contributions for the ASAF and ASF Funds.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Changes in Net Pension Liability and Related Ratios

		2020	<u>2019</u>	<u>2018</u>	2017	<u>2016</u>	2015	<u>2014</u>	<u>2013</u>
1. Total Pension Liability a. Service Cost	\$	1.555.754.951 \$	1.691.143.730 \$	1.436.616.796 \$	1.386.673.964 \$	1.274.307.859 \$	1.223.157.877 \$	1.205.662.452 \$	1,170,546,070
b. Interest	¢	4.838.801.018	4,914,552,252	5,071,480,880	5,147,042,567	4,131,176,953	4,027,138,338	4,407,702,189	4,176,571,397
c. Changes of Benefit Terms		4,050,001,010	4,914,952,252	0	0	4,151,170,555	4,027,150,550	4,407,702,109	-,170,571,577
<ul> <li>d. Differences b/t Expected and Actual Experience</li> </ul>		(34,323,759)	(1,188,246,744)	(2,235,672,787)	1,008,248,813	1,229,501,602	1,507,964,351	0	0
e. Changes of Assumptions		(01,020,700)	(826,850,113)	(2,235,612,161)	1,000,210,015	2,432,878,017	0	0	0
f. Benefit Payments		(4,591,086,000)	(4.487.680.000)	(4,351,924,000)	(4,219,312,000)	(4,107,455,000)	(4,024,272,000)	(3.818.248.000)	(3,619,254,000)
g. Net Changes in Total Pension Liability	\$	1,769,146,210 \$	102,919,125 \$	(79,499,111) \$	3,322,653,344 \$	4,960,409,431 \$	2,733,988,566 \$	1,795,116,641 \$	1,727,863,467
2. Total Pension Liability - Beginning	\$	73,346,850,466 \$	73,243,931,341 \$	73,323,430,452 \$	70,000,777,108 \$	65,040,367,677 \$	62,306,379,111 \$	60,511,262,470 \$	58,783,399,003
3. Total Pension Liability - Ending	\$	75,115,996,676 \$	73,346,850,466 \$	73,243,931,341 \$	73,323,430,452 \$	70,000,777,108 \$	65,040,367,677 \$	62,306,379,111 \$	60,511,262,470
4. Plan Fiduciary Net Position									
<ul> <li>Contributions - Employer</li> </ul>	\$	3,590,822,000 \$	3,696,686,000 \$	3,889,710,000 \$	3,888,399,000 \$	3,760,714,000 \$	3,325,528,000 \$	3,054,424,000 \$	2,912,844,000
<li>b. Contributions - Other Employer<sup>1</sup></li>		61,748,000	62,513,000	59,979,000	57,369,000	n/a	n/a	n/a	n/a
c. Contributions - Employee		226,920,000	217,205,000	195,241,000	180,076,000	173,696,000	158,590,000	154,962,000	154,698,000
d. Net Investment Income		3,911,187,000	5,721,310,000	6,275,115,000	8,133,280,000	960,267,000	1,611,929,000	9,435,906,000	5,721,112,000
e. Benefit Payments		(4,591,086,000)	(4,487,680,000)	(4,351,924,000)	(4,219,312,000)	(4,107,455,000)	(4,024,272,000)	(3,818,248,000)	(3,619,254,000)
f. Payment of Interest on TDA Fixed Funds		(1,846,173,000)	(1,716,679,000)	(1,595,462,000)	(1,466,615,000)	(1,354,207,000)	(1,248,988,000)	(1,147,923,000)	(1,047,979,000)
g. Administrative Expenses		(64,532,000)	(64,291,000)	(65,076,000)	(60,790,000)	(59,367,000)	(58,391,000)	(46,042,000)	(39,682,000)
h. Other Changes		39,853,000	28,671,000	29,170,000	(46,229,000)	1,233,000	329,000	404,000	(44,000)
i. Net Changes in Fiduciary Net Position	\$	1,328,739,000 \$	3,457,735,000 \$	4,436,753,000 \$	6,466,178,000 \$	(625,119,000) \$	(235,275,000) \$	7,633,483,000 \$	4,081,695,000
5. Plan Fiduciary Net Position - Beginning	\$	57,990,211,000 \$	54,532,476,000 \$	50,095,723,000 \$	43,629,545,000 \$	44,254,664,000 \$	44,489,939,000 \$	36,856,456,000 \$	32,774,761,000
6. Plan Fiduciary Net Position - Ending	\$	59,318,950,000 \$	57,990,211,000 \$	54,532,476,000 \$	50,095,723,000 \$	43,629,545,000 \$	44,254,664,000 \$	44,489,939,000 \$	36,856,456,000
7. TRS' Net Pension Liability	\$	15,797,046,676 \$	15,356,639,466 \$	18,711,455,341 \$	23,227,707,452 \$	26,371,232,108 \$	20,785,703,677 \$	17,816,440,111 \$	23,654,806,470
8. Plan Fiduciary Net Position as a Percentage of Total Pension Liability		79.0%	79.1%	74.5%	68.3%	62.3%	68.0%	71.4%	60.9%
9. Covered Employee Payroll <sup>2</sup>	\$	10,903,755,059 \$	10,404,403,684 \$	9,200,179,606 \$	8,818,536,927 \$	8,256,100,227 \$	8,074,522,271 \$	7,996,941,545 \$	7,964,148,973
10. TRS' Net Pension Liability as a Percentage of Covered Employee Payroll		144.9%	147.6%	203.4%	263.4%	319.4%	257.4%	222.8%	297.0%

<sup>1</sup> Includes amounts for employer's portion of Additional Member Contributions and supplemental contributions for the ASAF and ASF Funds.

<sup>2</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Employer Contributions (\$ in thousands)

Fiscal Year Ending June 30	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Actuarially Determined Contribution	\$ 3,590,822	\$ 3,696,686 \$	3,889,710 \$	3,888,399 \$	3,702,569 \$	3,270,007 \$	2,998,694 \$	2,855,640 \$	2,673,078 \$	2,468,973
Contributions in relation to the Actuarially Determined Contribution	<u>\$ 3,590,822</u>	<u>\$ 3,696,686</u> <u>\$</u>	3,889,710 \$	<u>3,888,399</u> <u>\$</u>	3,702,569 \$	<u>3,270,007</u> <u>\$</u>	2,998,694 \$	2,855,640 \$	2,673,078 <u>\$</u>	2,468,973
Contribution Deficiency (Excess)	0	0	0	0	0	0	0	0	0	0
Contributions as a percentage of Covered employee payroll <sup>1</sup>	32.932%	35.530%	42.279%	44.093%	44.846%	40.498%	37.652%	36.455%	33.747%	31.114%

<sup>1</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# **Average Expected Remaining Service Lives**

		Average Expected
		Remaining Service Life
<u>Group</u>	Count	<u>@ 6/30/2019</u>
Active	123,336	15.14
Active Off Payroll	8,174	0.00
Term Vested	13,410	0.00
Retired	88,507	<u>0.00</u>
Total	233,427	8.00

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Experience

Year		between Expected and Actual Experience	Recognition Period (Years)	2019	2020	2021	2022	2023	2024	2025	2026	2027
2016	\$	1,229,501,602	3.84	268,953,475	2020	2021	2022	2023	2024	2025	2020	2021
2017		1,008,248,813	7.20	140,034,557	140,034,557	140,034,557	140,034,557	140,034,557	28,006,914			
2018		(2,235,672,787)	7.81	(286,257,719)	(286,257,719)	(286,257,719)	(286,257,719)	(286,257,719)	(286,257,719)	(231,868,754)		
2019		(1,188,246,744)	7.87	(150,984,339)	(150,984,339)	(150,984,339)	(150,984,339)	(150,984,339)	(150,984,339)	(150,984,339)	(131,356,371)	
2020		(34,323,759)	8.00		(4,290,470)	(4,290,470)	(4,290,470)	(4,290,470)	(4,290,470)	(4,290,470)	(4,290,470)	(4,290,469)
t increase (	(decre	ase) in Pension Expense		\$ (28,254,026) <b>\$</b>	(301,497,971) \$	(301,497,971) \$	(301,497,971) \$	(301,497,971) \$	(413,525,614) \$	(387,143,563) \$	(135,646,841) \$	(4,290,469)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Increase (Decrease) in Pension Expense Arising from the Recognition of Changes in Assumptions

		Changes in	Recognition Period								
Year		Assumptions	(Years)	 2019	2020	2021	2022	2023	2024	2025	2026
2016	\$	2,432,878,017	3.84	 532,192,065							
2017		0									
2018		0									
2019		(826,850,113)	7.87	(105,063,547)	(105,063,547)	(105,063,547)	(105,063,547)	(105,063,547)	(105,063,547)	(105,063,547)	(91,405,284)
2020		0									
Net increase (	(decreas	se) in Pension Expense		\$ 427,128,518 \$	(105,063,547) \$	(105,063,547) \$	(105,063,547) \$	(105,063,547) \$	(105,063,547) \$	(105,063,547) \$	(91,405,284)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Pension Plan Investments

	ł	Differences between Projected and Actual Earnings on Pension Plan	Recognition Period						
Year		Investments	(Years)	 2019	2020	2021	2022	2023	2024
2015	\$	1,385,375,562	5	277,075,114					
2016		1,886,427,168	5	377,285,434	377,285,432				
2017		(4,593,826,280)	5	(918,765,256)	(918,765,256)	(918,765,256)			
2018		(2,511,052,439)	5	(502,210,488)	(502,210,488)	(502,210,488)	(502,210,487)		
2019		(1,979,861,450)	5	(395,972,290)	(395,972,290)	(395,972,290)	(395,972,290)	(395,972,290)	
2020		(191,111,179)	5		(38,222,236)	(38,222,236)	(38,222,236)	(38,222,236)	(38,222,235)
Net increase (de	ecrea	se) in Pension Expense		\$ (1,162,587,486) \$	(1,477,884,838) \$	(1,855,170,270) \$	(936,405,013) \$	(434,194,526) \$	(38,222,235)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Department of	(1)	(2)	(3)	(3)-(2)					
Education	Collective Amount at 6/30/2015	Proportionate Share at 6/30/2015 96.346%	Proportionate Share at 6/30/2016 96.019%	Change in Proportionate Share	Recognition Period (Years)		0	e in Pension Exp ar Ending June 3 2018	
Deferred Outflows of Resources	(2,227,614,195)	(2,146,217,172)	(2,138,932,874)	7,284,298	3.84	1,896,953	1,896,953	1,896,953	1,593,439
Deferred Inflows of Resources	5,094,667,839	4,908,508,675	4,891,849,112	(16,659,563)	3.84	(4,338,427)	(4,338,427)	(4,338,427)	(3,644,282)
Net Pension Liability	20,785,703,677	20,026,194,063	19,958,224,814	(67,969,249)	3.84	(17,700,324)	(17,700,324)	(17,700,324)	(14,868,277)
Total	23,652,757,321	22,788,485,566	22,711,141,052	(77,344,514)		(20,141,798)	(20,141,798)	(20,141,798)	(16,919,120)
CUNY Senior Colleges	(1) Collective Amount at 6/30/2015	(2) Proportionate Share at 6/30/2015 2.540%	(3) Proportionate Share at 6/30/2016 2.779%	(3)-(2) Change in Proportionate Share	Recognition Period (Years)		-	e in Pension Exp ar Ending June 3 2018	
Deferred Outflows	at 0/30/2013				<u> </u>				
of Resources	(2,227,614,195)	(56,581,401)	(61,905,398)	(5,323,997)	3.84	(1,386,458)	(1,386,458)	(1,386,458)	(1,164,623)
Deferred Inflows of Resources	5,094,667,839	129,404,563	141,580,819	12,176,256	3.84	3,170,900	3,170,900	3,170,900	2,663,556
Net Pension Liability	20,785,703,677	527,956,873	577,634,705	49,677,832	3.84	12,936,935	12,936,935	12,936,935	10,867,027
Total	23,652,757,321	600,780,035	657,310,126	56,530,091		14,721,377	14,721,377	14,721,377	12,365,960
CUNY Community Colleges	(1) Collective Amount at 6/30/2015	(2) Proportionate Share at 6/30/2015 0.928%	(3) Proportionate Share at 6/30/2016 1.056%	(3)-(2) Change in Proportionate Share	Recognition Period (Years)		0	e in Pension Exp ar Ending June 3 2018	
Deferred Outflows of Resources	(2,227,614,195)	(20,672,260)	(23,523,606)	(2,851,346)	3.84	(742,538)	(742,538)	(742,538)	(623,732)
Deferred Inflows of Resources	5,094,667,839	47,278,518	53,799,692	6,521,174	3.84	1,698,222	1,698,222	1,698,222	1,426,508
Net Pension Liability	20,785,703,677	192,891,330	219,497,031	26,605,701	3.84	6,928,568	6,928,568	6,928,568	5,819,997
Total	23,652,757,321	219,497,588	249,773,117	30,275,529		7,884,252	7,884,252	7,884,252	6,622,773
Charter Schools	(1)	(2) Proportionate	(3) Proportionate	(3)-(2)					
	Collective Amount at 6/30/2015	Share at 6/30/2015 0.186%	Share at 6/30/2016 0.146%	Change in Proportionate Share	Recognition Period (Years)		-	e in Pension Exp r Ending June 3 2018	
Deferred Outflows of Resources	(2,227,614,195)	(4,143,361)	(3,252,316)	891,045	3.84	232,043	232,043	232,043	194,916
Deferred Inflows of Resources	5,094,667,839	9,476,083	7,438,215	(2,037,868)	3.84	(530,696)	(530,696)	(530,696)	(445,780)
Net Pension Liability	20,785,703,677	38,661,409	30,347,126	(8,314,283)	3.84	(2,165,178)	(2,165,178)	(2,165,178)	(1,818,749)
Total	23,652,757,321	43,994,131	34,533,025	(9,461,106)		(2,463,831)	(2,463,831)	(2,463,831)	(2,069,613)

# Changes in Proportionate Share Changes in Proportionate Share at 6/30/2016

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Proportionate Share Changes in Proportionate Share at 6/30/2017

Department of Education	(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(3)-(2) Change in	Recognition			Amor	unt to Recogniz	e in Pension Exp	AONEO		
	Amount at 6/30/2016	at 6/30/2016 96.019%	at 6/30/2017 96.627%	Proportionate Share	Period (Years)	2017	2018		0	r Ending June 3 2021		2023	2024
Deferred Outflows of Resources	(5,779,665,137)	(5,549,576,668)	(5,584,717,032)	(35,140,364)	7.20	(4,880,607)	(4,880,607)	(4,880,607)	(4,880,607)	(4,880,607)	(4,880,607)	(4,880,607)	(976,116)
Deferred Inflows of Resources	3,189,542,961	3,062,567,255	3,081,959,677	19,392,422	7.20	2,693,393	2,693,393	2,693,393	2,693,393	2,693,393	2,693,393	2,693,393	538,670
Net Pension Liability	26,371,232,108	25,321,393,356	25,481,730,449	160,337,093	7.20	22,269,041	22,269,041	22,269,041	22,269,041	22,269,041	22,269,041	22,269,041	4,453,804
Total	23,781,109,932	22,834,383,943	22,978,973,094	144,589,147		20,081,827	20,081,827	20,081,827	20,081,827	20,081,827	20,081,827	20,081,827	4,016,358
CUNY Senior Colleges	(1) Collective Amount at 6/30/2016	(2) Proportionate Share at 6/30/2016 2.779%	(3) Proportionate Share at 6/30/2017 2.175%	(3)-(2) Change in Proportionate Share	Recognition Period (Years)	2017	2018		0	e in Pension Exp r Ending June : 2021		2023	2024
Deferred Outflows of Resources	(5,779,665,137)	(160,616,894)	(125,707,717)	34,909,177	7.20	4,848,497	4,848,497	4,848,497	4,848,497	4,848,497	4,848,497	4,848,497	969,698
Deferred Inflows of Resources	3,189,542,961	88,637,399	69,372,559	(19,264,840)	7.20	(2,675,672)	(2,675,672)	(2,675,672)	(2,675,672)	(2,675,672)	(2,675,672)	(2,675,672)	(535,136)
Net Pension Liability	26,371,232,108	732,856,540	573,574,298	(159,282,242)	7.20	(22,122,534)	(22,122,534)	(22,122,534)	(22,122,534)	(22,122,534)	(22,122,534)	(22,122,534)	(4,424,504)
Total	23,781,109,932	660,877,045	517,239,140	(143,637,905)		(19,949,709)	(19,949,709)	(19,949,709)	(19,949,709)	(19,949,709)	(19,949,709)	(19,949,709)	(3,989,942)
CUNY Community	<b>(4)</b>												
Colleges	(1) Collective Amount	(2) Proportionate Share at 6/30/2016	(3) Proportionate Share at 6/30/2017	(3)-(2) Change in Proportionate	Recognition Period				0	e in Pension Exp r Ending June 3			
Colleges	Collective	Proportionate Share	Proportionate Share	Change in	0	2017	2018		0	e in Pension Exp r Ending June : 2021		2023	2024
	Collective Amount	Proportionate Share at 6/30/2016	Proportionate Share at 6/30/2017	Change in Proportionate	Period	<b>2017</b> 537,830	<b>2018</b> 537,830	Fo	r the Fiscal Yea	r Ending June	30	<b>2023</b> 537,830	<b>2024</b> 107,566
Colleges Deferred Outflows	Collective Amount at 6/30/2016	Proportionate Share at 6/30/2016 1.056%	Proportionate Share at 6/30/2017 0.989%	Change in Proportionate Share	Period (Years)			For 2019	r the Fiscal Yea 2020	r Ending June 2021	30 2022		
Colleges Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2016 (5,779,665,137)	Proportionate Share at 6/30/2016 1.056% (61,033,264)	Proportionate Share at 6/30/2017 0.989% (57,160,888)	Change in Proportionate Share 3,872,376	Period (Years) 7.20	537,830	537,830	For 2019 537,830	r the Fiscal Yea 2020 537,830	r Ending June 2021 537,830	<b>2022</b> 537,830	537,830	107,566
Colleges Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2016 (5,779,665,137) 3,189,542,961	Proportionate Share at 6/30/2016 1.056% (61,033,264) 33,681,574	Proportionate Share at 6/30/2017 0.989% (57,160,888) 31,544,580	Change in Proportionate Share 3,872,376 (2,136,994)	Period (Years) 7.20 7.20	537,830 (296,805)	537,830 (296,805)	For 2019 537,830 (296,805)	r the Fiscal Yea 2020 537,830 (296,805)	r Ending June 2021 537,830 (296,805)	30 2022 537,830 (296,805)	537,830 (296,805)	107,566 (59,359)
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2016 (5,779,665,137) 3,189,542,961 26,371,232,108 23,781,109,932 (1) Collective	Proportionate Share at 6/30/2016 1.056% (61.033,264) 33,681,574 278,480,211 251,128,521 (2) Proportionate Share	Proportionate Share at 6/30/2017 0.989% (57,160,888) 31,544,580 260,811,486 235,195,178 (3) Proportionate Share	Change in Proportionate Share 3,872,376 (2,136,994) (17,668,725) (15,933,343) (3)-(2) Change in	Period (Years) 7.20 7.20 7.20 7.20 8.0000000000000000000000000000000000	537,830 (296,805) (2,453,990)	537,830 (296,805) (2,453,990)	For 2019 537,830 (296,805) (2,453,990) (2,212,965) Amou	r the Fiscal Yea 2020 537,830 (296,805) (2,453,990) (2,212,965) ant to Recognizz	r Ending June 2021 2021 537,830 (296,805) (2,453,990) (2,212,965) c in Pension Exp	30 2022 537,830 (296,805) (2,453,990) (2,212,965) wense	537,830 (296,805) (2,453,990)	107,566 (59,359) (490,795)
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2016 (5,779,665,137) 3,189,542,961 26,371,232,108 23,781,109,932 (1)	Proportionate Share at 6/30/2016 1.056% (61,033,264) 33,681,574 278,480,211 251,128,521 (2) Proportionate	Proportionate Share at 6/30/2017 0.989% (57,160,888) 31,544,580 260,811,486 235,195,178 (3) Proportionate	Change in Proportionate Share 3,872,376 (2,136,994) (17,668,725) (15,933,343) (3)-(2)	Period (Years) 7.20 7.20 7.20	537,830 (296,805) (2,453,990)	537,830 (296,805) (2,453,990)	For 2019 537,830 (296,805) (2,453,990) (2,212,965) Amou	r the Fiscal Yea 2020 537,830 (296,805) (2,453,990) (2,212,965) ant to Recognizz	r Ending June 2021 537,830 (296,805) (2,453,990) (2,212,965)	30 2022 537,830 (296,805) (2,453,990) (2,212,965) wense	537,830 (296,805) (2,453,990)	107,566 (59,359) (490,795)
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2016 (5,779,665,137) 3,189,542,961 26,371,232,108 23,781,109,932 (1) Collective Amount	Proportionate Share at 6/30/2016 1.056% (61,033,264) 33,681,574 278,480,211 251,128,521 (2) Proportionate Share at 6/30/2016	Proportionate Share at 6/30/2017 0.989% (57,160,888) 31,544,580 260,811,486 235,195,178 (3) Proportionate Share at 6/30/2017	Change in Proportionate Share 3,872,376 (2,136,994) (17,668,725) (15,933,343) (3)-(2) Change in Proportionate	Period (Years) 7.20 7.20 7.20 7.20 7.20	537,830 (296,805) (2,453,990) (2,212,965)	537,830 (296,805) (2,453,990) (2,212,965)	For 2019 537,830 (296,805) (2,453,990) (2,212,965) Amou For	r the Fiscal Yea 2020 537,830 (296,805) (2,453,990) (2,212,965) ant to Recognizz r the Fiscal Yea	r Ending June - 2021 537,830 (296,805) (2,453,990) (2,212,965) e in Pension Exp r Ending June -	30 2022 537,830 (296,805) (2,453,990) (2,212,965) sense 30	537,830 (296,805) (2,453,990) (2,212,965)	107,566 (59,359) (490,795) (442,588)
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Charter Schools Deferred Outflows	Collective Amount at 6/30/2016 (5,779,665,137) 3,189,542,961 26,371,232,108 23,781,109,932 (1) Collective Amount at 6/30/2016	Proportionate Share at 6/30/2016 1.056% (61.033,264) 33,681,574 278,480,211 251,128,521 (2) Proportionate Share at 6/30/2016 0,146%	Proportionate Share at 6/30/2017 0.989% (57,160,888) 31,544,580 260,811,486 235,195,178 (3) Proportionate Share at 6/30/2017 0.209%	Change in Proportionate Share 3,872,376 (2,136,994) (17,668,725) (15,933,343) (3)-(2) Change in Proportionate Share	Period (Years) 7.20 7.20 7.20 7.20 Recognition Period (Years)	537,830 (296,805) (2,453,990) (2,212,965) <b>2017</b>	537,830 (296,805) (2,453,990) (2,212,965) <b>2018</b>	For 2019 537,830 (296,805) (2,453,990) (2,212,965) (2,212,965) Amou For 2019	r the Fiscal Yea 2020 537,830 (296,805) (2,453,990) (2,212,965) ant to Recogniz r the Fiscal Yea 2020	r Ending June 2021 537,830 (296,805) (2,453,990) (2,212,965) c in Pension Exp r Ending June 2021	30 2022 537,830 (296,805) (2,453,990) (2,212,965) 2022	537,830 (296,805) (2,453,990) (2,212,965) <b>2023</b>	107,566 (59,359) (490,795) (442,588) <b>2024</b>
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Charter Schools Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2016 (5,779,665,137) 3,189,542,961 26,371,232,108 23,781,109,932 (1) Collective Amount at 6/30/2016 (5,779,665,137)	Proportionate Share at 6/30/2016 1.056% (61.033,264) 33,681,574 278,480,211 251,128,521 (2) Proportionate Share at 6/30/2016 0.146% (8,438,313)	Proportionate Share at 6/30/2017 0.989% (57,160,888) 31,544,580 260,811,486 235,195,178 (3) Proportionate Share at 6/30/2017 0.209% (12,079,501)	Change in Proportionate Share 3,872,376 (2,136,994) (17,668,725) (15,933,343) (3)-(2) Change in Proportionate Share (3,641,188)	Period (Vears) 7.20 7.20 7.20 7.20 Recognition Period (Vears) 7.20	537,830 (296,805) (2,453,990) (2,212,965) <b>2017</b> (505,720)	537,830 (296,805) (2,453,990) (2,212,965) <b>2018</b> (505,720)	For 2019 537,830 (296,805) (2,453,990) (2,212,965) (2,212,965) Amou For 2019 (505,720)	r the Fiscal Year 2020 537,830 (296,805) (2,453,990) (2,212,965) nt to Recognize the Fiscal Year 2020 (505,720)	r Ending June 2021 537,830 (296,805) (2,453,990) (2,212,965) c in Pension Exp r Ending June 2021 (505,720)	30 2022 537,830 (296,805) (2,453,990) (2,212,965) 2022 50 2022 (505,720)	537,830 (296,805) (2,453,990) (2,212,965) <b>2023</b> (505,720)	107,566 (59,359) (490,795) (442,588) <b>2024</b> (101,148)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Proportionate Share Changes in Proportionate Share at 6/30/2018

Department of Education	(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(3)-(2) Change in	Recognition					in Pension Expe			
	Amount at 6/30/2017	at 6/30/2017 96.642%	at 6/30/2018 96.009%	Proportionate Share	Period (Years)	2018	2019	For 2020	the Fiscal Year 2021	Ending June 30 2022	2023	2024	2025
Deferred Outflows of Resources	(2,965,117,022)	(2,865,548,392)	(2,846,779,202)	18,769,190	7.81	2,403,225	2,403,225	2,403,225	2,403,225	2,403,225	2,403,225	2,403,225	1,946,616
Deferred Inflows of Resources	3,273,472,580	3,163,549,369	3,142,828,289	(20,721,080)	7.81	(2,653,148)	(2,653,148)	(2,653,148)	(2,653,148)	(2,653,148)	(2,653,148)	(2,653,148)	(2,149,044)
Net Pension Liability	23,227,707,452	22,447,721,036	22,300,689,648	(147,031,388)	7.81	(18,826,042)	(18,826,042)	(18,826,042)	(18,826,042)	(18,826,042)	(18,826,042)	(18,826,042)	(15,249,095)
Total	23,536,063,010	22,745,722,013	22,596,738,735	(148,983,278)		(19,075,965)	(19,075,965)	(19,075,965)	(19,075,965)	(19,075,965)	(19,075,965)	(19,075,965)	(15,451,523)
CUNY Senior Colleges	(1) Collective Amount at 6/30/2017	(2) Proportionate Share at 6/30/2017 2.175%	(3) Proportionate Share at 6/30/2018 2.625%	(3)-(2) Change in Proportionate Share	Recognition Period (Years)	2018	2019			in Pension Expe • Ending June 30 2022		2024	2025
Deferred Outflows of Resources	(2,965,117,022)	(64,491,295)	(77,834,322)	(13,343,027)	7.81	(1,708,454)	(1,708,454)	(1,708,454)	(1,708,454)	(1,708,454)	(1,708,454)	(1,708,454)	(1,383,849)
Deferred Inflows of Resources	3,273,472,580	71,198,029	85,928,655	14,730,626	7.81	1,886,124	1,886,124	1,886,124	1,886,124	1,886,124	1,886,124	1,886,124	1,527,758
Net Pension Liability	23,227,707,452	505,202,637	609,727,321	104,524,684	7.81	13,383,442	13,383,442	13,383,442	13,383,442	13,383,442	13,383,442	13,383,442	10,840,590
Total	23,536,063,010	511,909,371	617,821,654	105,912,283		13,561,112	13,561,112	13,561,112	13,561,112	13,561,112	13,561,112	13,561,112	10,984,499
CUNY Community Colleges	(1) Collective Amount	(2) Proportionate Share at 6/30/2017	(3) Proportionate Share at 6/30/2018	(3)-(2) Change in Proportionate	Recognition Period					in Pension Expe • Ending June 30			
	at 6/30/2017	0.989%	1.177%	Share	(Years)	2018	2019	2020	2021	2022	2023	2024	2025
Deferred Outflows of Resources	(2,965,117,022)	(29,325,007)	(34,899,427)	(5,574,420)	7.81	(713,754)	(713,754)	(713,754)	(713,754)	(713,754)	(713,754)	(713,754)	(578,142)
Deferred Inflows of Resources	3,273,472,580	32,374,644	38,528,772	6,154,128	7.81	787,981	787,981	787,981	787,981	787,981	787,981	787,981	638,261
Net Pension Liability	23,227,707,452	229,722,027	273,390,117	43,668,090	7.81	5,591,305	5,591,305	5,591,305	5,591,305	5,591,305	5,591,305	5,591,305	4,528,955
Total	23,536,063,010	232,771,664	277,019,462	44,247,798		5,665,532	5,665,532	5,665,532	5,665,532	5,665,532	5,665,532	5,665,532	4,589,074
Charter Schools	(1) Collective	(2) Proportionate Share at 6(30/2017	(3) Proportionate Share at 6/30/2018	(3)-(2) Change in	Recognition					in Pension Expe			
		Proportionate	Proportionate		Recognition Period (Years)	2018	2019			in Pension Expe • Ending June 30 2022		2024	2025
Charter Schools Deferred Outflows of Resources	Collective Amount	Proportionate Share at 6/30/2017	Proportionate Share at 6/30/2018	Change in Proportionate	Period	<b>2018</b> 18,983	<b>2019</b> 18,983	For	the Fiscal Year	Ending June 30	1	<b>2024</b> 18,983	<b>2025</b> 15,375
Deferred Outflows	Collective Amount at 6/30/2017	Proportionate Share at 6/30/2017 0.194%	Proportionate Share at 6/30/2018 0.189%	Change in Proportionate Share	Period (Years)			For 2020	the Fiscal Year 2021	Ending June 30 2022	2023		
Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2017 (2,965,117,022)	Proportionate Share at 6/30/2017 0.194% (5,752,327)	Proportionate Share at 6/30/2018 0.189% (5,604,071)	Change in Proportionate Share 148,256	Period (Years) 7.81	18,983	18,983	For 2020 18,983	the Fiscal Year 2021 18,983	Ending June 30 2022 18,983	<b>2023</b> 18,983	18,983	15,375

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Changes in Proportionate Share										
Changes in Proportionate Share at 6/30/20	)19									

Department of Education	(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3)-(2)+(4)									
	Collective Amount at 6/30/2018	Share at 6/30/2018 96.009%	Share at 6/30/2019 95.967%	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2019	2020			in Pension Exper Ending June 30 2023		2025	2026
Deferred Outflows of Resources	(1,529,325,239)	(1,468,289,868)	(1,467,647,251)		642,617	7.87	81,654	81,654	81,654	81,654	81,654	81,654	81,654	71,039
Deferred Inflows of Resources	5,682,906,807	5,456,101,996	5,453,714,056		(2,387,940)	7.87	(303,423)	(303,423)	(303,423)	(303,423)	(303,423)	(303,423)	(303,423)	(263,979)
Net Pension Liability	18,711,455,341	17,964,681,158	17,956,818,660	18	(7,862,480)	7.87	(999,044)	(999,044)	(999,044)	(999,044)	(999,044)	(999,044)	(999,044)	(869,172)
Total	22,865,036,909	21,952,493,286	21,942,885,465	18	(9,607,803)		(1,220,813)	(1,220,813)	(1,220,813)	(1,220,813)	(1,220,813)	(1,220,813)	(1,220,813)	(1,062,112)
CUNY Senior	(1)	(2)	(3) B	(4) Controller dia dia	(3)-(2)+(4)									
Colleges	Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 2.625%	Proportionate Share at 6/30/2019 2.570%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2019	2020			in Pension Expe Ending June 30 2023		2025	2026
Deferred Outflows of Resources	(1,529,325,239)	(40,144,788)	(39,311,204)	<b>n</b>	833,584	7.87	105,919	105,919	105,919	105,919	105,919	105,919	105,919	92,151
Deferred Inflows of Resources	5,682,906,807	149,176,304	146,078,744		(3,097,560)	7.87	(393,591)	(393,591)	(393,591)	(393,591)	(393,591)	(393,591)	(393,591)	(342,423)
Net Pension Liability	18,711,455,341	491,175,703	480,976,723	(11)	(10,198,991)	7.87	(1,295,933)	(1,295,933)	(1,295,933)	(1,295,933)	(1,295,933)	(1,295,933)	(1,295,933)	(1,127,460)
Total	22,865,036,909	600,207,219	587,744,263	(11)	(12,462,967)		(1,583,605)	(1,583,605)	(1,583,605)	(1,583,605)	(1,583,605)	(1,583,605)	(1,583,605)	(1,377,732)
CUNY Community Colleges	(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(4) Contributions in excess of Proportionate	(3)-(2)+(4) Change in	Recognition			Amou	nt to Recognize	in Pension Expe	nse		
	Collective Amount	Proportionate Share at 6/30/2018	Proportionate Share at 6/30/2019	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate	Recognition Period (Venre)	2019	2020	For	the Fiscal Year	in Pension Expe Ending June 30	1	2025	2026
	Collective	Proportionate Share	Proportionate Share	Contributions in excess of Proportionate	Change in		<b>2019</b> (138,482)	<b>2020</b> (138,482)					2025 (138,482)	2026
Colleges Deferred Outflows	Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 1.177%	Proportionate Share at 6/30/2019 1.248%	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share	Period (Years)			For 2021	the Fiscal Year 2022	Ending June 30 2023	2024		
Colleges Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2018 (1,529,325,239)	Proportionate Share at 6/30/2018 1.177% (18,000,158)	Proportionate Share at 6/30/2019 1.248% (19,090,011)	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share (1,089,853)	Period (Years) 7.87	(138,482)	(138,482)	For 2021 (138,482)	the Fiscal Year 2022 (138,482)	Ending June 30 2023 (138,482)	<b>2024</b> (138,482)	(138,482)	(120,479)
Colleges Deferred Outflows of Resources Deferred Inflows of Resources	Collective Amount at 6/30/2018 (1,529,325,239) 5,682,906,807	Proportionate Share at 6/30/2018 1.177% (18,000,158) 66,887,813	Proportionate Share at 6/30/2019 1.248% (19,090,011) 70,937,661	Contributions in excess of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share (1,089,853) 4,049,848	Period (Years) 7.87 7.87	(138,482) 514,593	(138,482) 514,593	For 2021 (138,482) 514,593	the Fiscal Year 2022 (138,482) 514,593	Ending June 30 2023 (138,482) 514,593	2024 (138,482) 514,593	(138,482) 514,593	(120,479) 447,697
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability	Collective Amount at 6/30/2018 (1,529,325,239) 5,682,906,807 18,711,455,341	Proportionate Share at 6/30/2018 1.177% (18,000,158) 66,887,813 220,233,829 269,121,484 (2)	Proportionate Share at 6/30/2019 1.248% (19,090,011) 70,937,661 233,568,300 285,415,950 (3)	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (6) (6)	Change in Proportionate Share (1,089,853) 4,049,848 13,334,465	Period (Years) 7.87 7.87	(138,482) 514,593 1,694,341	(138,482) 514,593 1,694,341	For 2021 (138,482) 514,593 1,694,341	the Fiscal Year 2022 (138,482) 514,593 1,694,341	Ending June 30 2023 (138,482) 514,593 1,694,341	2024 (138,482) 514,593 1,694,341	(138,482) 514,593 1,694,341	(120,479) 447,697 1,474,078
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2018 (1,529,325,239) 5,682,906,807 18,711,455,341 22,865,036,909 (1) Collective Amount	Proportionate Share at 6/30/2018 1.177% (18,000,158) 66,887,813 220,233,829 269,121,484 (2) Proportionate Share at 6/30/2018	Proportionate Share at 6/30/2019 1.248% (19,090,011) 70,937,661 233,568,300 285,415,950 (3) Proportionate Share at 6/30/2019	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (6) (6) (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share (1,089,853) 4,049,848 13,334,465 16,294,460 (3)-(2)+(4) Change in Proportionate	Period (Years) 7.87 7.87 7.87 7.87 7.87 8 8 Recognition Period	(138,482) 514,593 1,694,341 2,070,452	(138,482) 514,593 1,694,341 2,070,452	For 2021 (138,482) 514,593 1,694,341 2,070,452 Amoun For	the Fiscal Year 2022 (138,482) 514,593 1,694,341 2,070,452 the Fiscal Year	Ending June 30 2023 (138,482) 514,593 1,694,341 2,070,452 in Pension Expe Ending June 30	2024 (138,482) 514,593 1,694,341 2,070,452	(138,482) 514,593 1,694,341 2,070,452	(120,479) 447,697 1,474,078 1,801,296
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total	Collective Amount at 6/30/2018 (1,529,325,239) 5,682,906,807 18,711,455,341 22,865,036,909 (1) Collective	Proportionate Share at 6/30/2018 1.177% (18,000,158) 66,887,813 220,233,829 269,121,484 (2) Proportionate Share	Proportionate Share at 6/30/2019 1.248% (19,090,011) 70,937,661 233,568,300 285,415,950 (3) Proportionate Share	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (6) (6) (4) Contributions in excess of Proportionate	Change in Proportionate Share (1,089,853) 4,049,848 13,334,465 16,294,460 (3)-(2)+(4) Change in	Period (Years)	(138,482) 514,593 1,694,341	(138,482) 514,593 1,694,341	For 2021 (138,482) 514,593 1,694,341 2,070,452 Amoun	the Fiscal Year 2022 (138,482) 514,593 1,694,341 2,070,452 nt to Recognize	Ending June 30 2023 (138,482) 514,593 1,694,341 2,070,452 in Pension Exper	2024 (138,482) 514,593 1,694,341 2,070,452	(138,482) 514,593 1,694,341	(120,479) 447,697 1,474,078
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Charter Schools Deferred Outflows	Collective Amount at 6/30/2018 (1,529,325,239) 5,682,906,807 18,711,455,341 22,865,036,909 (1) Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018 1.177% (18,000,158) 66,887,813 220,233,829 269,121,484 (2) Proportionate Share at 6/30/2018 0.189%	Proportionate Share at 6/30/2019 1.248% (19,090,011) 70,937,661 233,568,300 285,415,950 (3) Proportionate Share at 6/30/2019 0.214%	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (6) (6) (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share (1,089,853) 4,049,848 13,334,465 16,294,460 (3)-(2)+(4) Change in Proportionate Share	Period (Years) 7.87 7.87 7.87 7.87 7.87 8 Recognition Period (Years)	(138,482) 514,593 1,694,341 2,070,452 2019	(138,482) 514,593 1,694,341 2,070,452 2020	For 2021 (138,482) 514,593 1,694,341 2,070,452 Amoun For 2021	the Fiscal Year 2022 (138,482) 514,593 1,694,341 2,070,452 nt to Recognize the Fiscal Year 2022	Ending June 30 2023 (138,482) 514,593 1,694,341 2,070,452 in Pension Exper Ending June 30 2023	2024 (138,482) 514,593 1,694,341 2,070,452 nse 2024	(138,482) 514,593 1,694,341 2,070,452 2025	(120,479) 447,697 1,474,078 1,801,296 2026
Colleges Deferred Outflows of Resources Deferred Inflows of Resources Net Pension Liability Total Charter Schools Deferred Outflows of Resources Deferred Inflows	Collective Amount at 6/30/2018 (1,529,325,239) 5,682,906,807 18,711,455,341 22,865,036,909 (1) Collective Amount at 6/30/2018 (1,529,325,239)	Proportionate Share at 6/30/2018 1.177% (18,000,158) 66,887,813 220,233,829 269,121,484 (2) Proportionate Share at 6/30/2018 0,189% (2,890,425)	Proportionate Share at 6/30/2019 1.248% (19,090,011) 70,937,661 233,568,300 285,415,950 (3) Proportionate Share at 6/30/2019 0.214% (3,276,773)	Contributions in excess of Proportionate Share and Adjustments Due to Rounding (6) (6) (4) Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate Share (1,089,853) 4,049,848 13,334,465 16,294,460 (3)-(2)+(4) Change in Proportionate Share (386,348)	Period (Years) 7.87 7.87 7.87 7.87 Recognition Period (Years) 7.87	(138,482) 514,593 1,694,341 2,070,452 2019 (49,091)	(138,482) 514,593 1,694,341 2,070,452 <b>2020</b> (49,091)	For 2021 (138,482) 514,593 1,694,341 2,070,452 Amoun For 2021 (49,091)	the Fiscal Year 2022 (138,482) 514,593 1,694,341 2,070,452 at to Recognize (49,091)	Ending June <sup>3</sup> 0 2023 (138,482) 514,593 1,694,341 2,070,452 in Pension Expe Ending June 30 2023 (49,091)	2024 (138,482) 514,593 1,694,341 2,070,452 sec (49,091)	(138,482) 514,593 1,694,341 2,070,452 2025 (49,091)	(120,479) 447,697 1,474,078 1,801,296 2026 (42,711)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Changes in Proportionate Share									
Changes in Proportionate Share at 6/30/2020	)								

Department of Education	(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3)-(2)+(4)									
	Collective Amount at 6/30/2019	Share at 6/30/2019 95.967%	Share at 6/30/2020 95.840%	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2020	2021			in Pension Exper Ending June 30 2024		2026	2027
Deferred Outflows of Resources	(588,145,142)	(564,425,133)	(563,680,931)		744,202	8.00	93,025	93,025	93,025	93,025	93,025	93,025	93,025	93,027
Deferred Inflows of Resources	7,972,972,023	7,651,420,490	7,641,331,998		(10,088,492)	8.00	(1,261,061)	(1,261,061)	(1,261,061)	(1,261,061)	(1,261,061)	(1,261,061)	(1,261,061)	(1,261,065)
Net Pension Liability	15,356,639,466	14,737,303,170	14,717,871,854	10	(19,431,306)	8.00	(2,428,914)	(2,428,914)	(2,428,914)	(2,428,914)	(2,428,914)	(2,428,914)	(2,428,914)	(2,428,908)
Total	22,741,466,347	21,824,298,527	21,795,522,921	10	(28,775,596)		(3,596,950)	(3,596,950)	(3,596,950)	(3,596,950)	(3,596,950)	(3,596,950)	(3,596,950)	(3,596,946)
CUNY Senior Colleges	(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3)-(2)+(4)									
Coneges	Collective Amount at 6/30/2019	share at 6/30/2019 2.570%	share at 6/30/2020 2.669%	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2020	2021			in Pension Exper Ending June 30 2024		2026	2027
Deferred Outflows of Resources	(588,145,142)	(15,118,232)	(15,700,378)	Duc to Kounding	(582,146)	8.00	(72,768)	(72,768)	(72,768)	(72,768)	(72,768)	(72,768)	(72,768)	(72,770)
Deferred Inflows of Resources	7,972,972,023	204,944,719	212,836,366		7,891,647	8.00	986,456	986,456	986,456	986,456	986,456	986,456	986,456	986,455
Net Pension Liability	15,356,639,466	394,741,403	409,941,404	(8)	15,199,993	8.00	1,899,999	1,899,999	1,899,999	1,899,999	1,899,999	1,899,999	1,899,999	1,900,000
Total	22,741,466,347	584,567,890	607,077,392	(8)	22,509,494		2,813,687	2,813,687	2,813,687	2,813,687	2,813,687	2,813,687	2,813,687	2,813,685
CUNY Community Colleges	(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3)-(2)+(4)									
	Collective				Change in	Percognition			Amou	at to Pecognize i	in Pansion Exna			
	Collective Amount at 6/30/2019	Share at 6/30/2019 1.248%	Share at 6/30/2020 1.279%	of Proportionate Share and Adjustments Due to Rounding	Change in Proportionate Share	Recognition Period (Years)	2020	2021			in Pension Exper Ending June 30 2024	1	2026	2027
Deferred Outflows of Resources	Amount	Share at 6/30/2019	Share at 6/30/2020	of Proportionate Share and Adjustments	Proportionate		<b>2020</b> (22,874)	<b>2021</b> (22,874)	For	the Fiscal Year	Ending June 30		2026	2027 (22,873)
	Amount at 6/30/2019	Share at 6/30/2019 1.248%	Share at 6/30/2020 1.279%	of Proportionate Share and Adjustments	Proportionate Share	Period (Years)			For 2022	the Fiscal Year 2023	Ending June 30 2024	2025		
of Resources Deferred Inflows	Amount at 6/30/2019 (588,145,142)	Share at 6/30/2019 1.248% (7,341,602)	Share at 6/30/2020 1.279% (7,524,593)	of Proportionate Share and Adjustments	Proportionate Share (182,991)	Period (Years) 8.00	(22,874)	(22,874)	For 2022 (22,874)	the Fiscal Year 2023 (22,874)	Ending June 30 2024 (22,874)	<b>2025</b> (22,874)	(22,874)	(22,873)
of Resources Deferred Inflows of Resources	Amount at 6/30/2019 (588,145,142) 7,972,972,023	Share at 6/30/2019 1.248% (7,341,602) 99,523,714	Share at 6/30/2020 1.279% (7,524,593) 102,004,357	of Proportionate Share and Adjustments Due to Rounding	Proportionate Share (182,991) 2,480,643	Period (Years) 8.00 8.00	(22,874) 310,080	(22,874) 310,080	For 2022 (22,874) 310,080	the Fiscal Year 2023 (22,874) 310,080	Ending June 30 2024 (22,874) 310,080	2025 (22,874) 310,080	(22,874) 310,080	(22,873) 310,083
of Resources Deferred Inflows of Resources Net Pension Liability	Amount at 6/30/2019 (588,145,142) 7,972,972,023 15,356,639,466	Share at 6/30/2019 1.248% (7,341,602) 99,523,714 191,691,352 283,873,464 (2)	Share at 6/30/2020 1.279% (7,524,593) 102,004,357 196,469,287 290,949,051 (3)	of Proportionate Share and Adjustments Due to Rounding (3) (4)	Proportionate Share (182,991) 2,480,643 4,777,932	Period (Years) 8.00 8.00	(22,874) 310,080 597,242	(22,874) 310,080 597,242	For 2022 (22,874) 310,080 597,242	the Fiscal Year 2023 (22,874) 310,080 597,242	Ending June 30 2024 (22,874) 310,080 597,242	2025 (22,874) 310,080 597,242	(22,874) 310,080 597,242	(22,873) 310,083 597,238
of Resources Deferred Inflows of Resources Net Pension Liability Total	Amount at 6/30/2019 (588,145,142) 7,972,972,023 15,356,639,466 22,741,466,347 (1) Collective Amount	Share at 6/30/2019 1.248% (7,341,602) 99,523,714 191,691,352 283,873,464 (2) Proportionate Share at 6/30/2019	Share at 6/30/2020 1.279% (7,524,593) 102,004,357 196,469,287 290,949,051 (3) Proportionate Share at 6/30/2020	of Proportionate Share and Adjustments Due to Rounding (3) (4) Contributions in excess of Proportionate Share and Adjustments	Proportionate           Share           (182,991)           2,480,643           4,777,932           7,075,584           (3)-(2)+(4)           Change in           Proportionate	Period (Years)	(22,874) 310,080 597,242 884,448	(22,874) 310,080 597,242 884,448	For 2022 (22,874) 310,080 597,242 884,448 Amoun For	the Fiscal Year 2023 (22,874) 310,080 597,242 884,448 at to Recognize i the Fiscal Year	Ending June 30 2024 (22,874) 310,080 597,242 884,448 in Pension Exper Ending June 30	2025 (22,874) 310,080 597,242 884,448	(22,874) 310,080 597,242 884,448	(22,873) 310,083 597,238 884,448
of Resources Deferred Inflows of Resources Net Pension Liability Total	Amount at 6/30/2019 (588,145,142) 7,972,972,023 15,356,639,466 22,741,466,347 (1) Collective	Share at 6/30/2019 1.24%/6 (7,341,602) 99,523,714 191,691,352 283,873,464 (2) Proportionate Share	Share at 6/30/2020 1.279% (7,524,593) 102,004,357 196,469,287 290,949,051 (3) Proportionate Share	of Proportionate Share and Adjustments Due to Rounding (3) (4) Contributions in excess of Proportionate	Proportionate Share (182,991) 2,480,643 4,777,932 7,075,584 (3)-(2)+(4) Change in	Period (Years)	(22,874) 310,080 597,242	(22,874) 310,080 597,242	For 2022 (22,874) 310,080 597,242 884,448 Amout	the Fiscal Year 2023 (22,874) 310,080 597,242 884,448 nt to Recognize	Ending June 30 2024 (22,874) 310,080 597,242 884,448 in Pension Exper	2025 (22,874) 310,080 597,242 884,448	(22,874) 310,080 597,242	(22,873) 310,083 597,238
of Resources Deferred Inflows of Resources Net Pension Liability Total Charter Schools Deferred Outflows	Amount at 6/30/2019 (588,145,142) 7,972,972,023 15,356,639,466 22,741,466,347 (1) Collective Amount at 6/30/2019	Share at 630/2019 1.248% (7.341,602) 99,523,714 191,691,352 283,873,464 (2) Proportionate Share at 6/30/2019 0.214%	Share at 6/30/2020 1.279% (7.524,593) 102,004,357 196,469,287 290,949,051 (3) Proportionate Share at 6/30/2020 0.211%	of Proportionate Share and Adjustments Due to Rounding (3) (4) Contributions in excess of Proportionate Share and Adjustments	Proportionate <u>Share</u> (182,991) 2,480,643 4,777,932 7,075,584 (3)-(2)+(4) Change in Proportionate <u>Share</u>	Period (Years)	(22,874) 310,080 597,242 884,448 <b>2020</b>	(22,874) 310,080 597,242 884,448 <b>2021</b>	For 2022 (22,874) 310,080 597,242 884,448 Amoun For 2022	the Fiscal Year 2023 (22,874) 310,080 597,242 884,448 at to Recognize i the Fiscal Year 2023	Ending June 30 2024 (22,874) 310,080 597,242 884,448 in Pension Exper Ending June 30 2024	2025 (22,874) 310,080 597,242 884,448 nse 2025	(22,874) 310,080 597,242 884,448 <b>2026</b>	(22,873) 310,083 597,238 884,448 2027
of Resources Deferred Inflows of Resources Net Pension Liability Total Charter Schools Deferred Outflows of Resources Deferred Inflows	Amount at 6/30/2019 (588,145,142) 7,972,972,023 15,356,639,466 22,741,466,347 (1) Collective Amount at 6/30/2019 (588,145,142)	Share at 6/30/2019 1.248% (7,341,602) 99,523,714 191,691,352 283,873,464 (2) Proportionate Share at 6/30/2019 0.214% (1,260,175)	Share at 6/30/2020 1.279% (7,524,593) 102,004,357 196,469,287 290,949,051 (3) Proportionate Share at 6/30/2020 0.211% (1,239,240)	of Proportionate Share and Adjustments Due to Rounding (3) (4) Contributions in excess of Proportionate Share and Adjustments	Proportionate           Share           (182,991)           2,480,643           4,777,932           7,075,584           (3)-(2)+(4)           Change in           Proportionate           Share           20,935	Period (Vears)	(22,874) 310,080 597,242 884,448 <b>2020</b> 2,617	(22,874) 310,080 597,242 884,448 <b>2021</b> 2,617	For 2022 (22,874) 310,080 597,242 884,448 884,448 For 2022 2,617	the Fiscal Year 2023 (22.874) 310,080 597,242 884,448 at to Recognize : 884,448 2,617	Ending June 30 2024 (22.874) 310,080 597,242 884,448 in Pension Exper Ending June 30 2024 2,617	2025 (22,874) 310,080 597,242 884,448 884,448 2025 2,617	(22,874) 310,080 597,242 884,448 <b>2026</b> 2,617	(22,873) 310,083 597,238 884,448 2027 2,616

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Components of Pension Expense for the Fiscal Year Ending June 30, 2019 - By Obligor

<u>Component</u>	DEPT. OF ED.	SENIOR COLL.	COMM. COLL.	Charter Schools	<u>Total</u>
a. Service Cost	\$ 1,622,939,570 \$	43,470,738 \$	21,109,933 \$	3,623,489 \$	1,691,143,730
b. Interest on the Total Pension Liability	4,716,347,391	126,328,241	61,346,571	10,530,049	4,914,552,252
c. Differences between Expected and Actual Experience	(27,114,535)	(726,268)	(352,685)	(60,538)	(28,254,026)
d. Changes of Assumptions	409,902,341	10,979,310	5,331,690	915,177	427,128,518
e. Employee Contributions	(208,445,080)	(5,583,240)	(2,711,291)	(465,389)	(217,205,000)
f. Projected Earnings on Pension Plan Investments	(3,590,555,193)	(96,173,688)	(46,703,143)	(8,016,526)	(3,741,448,550)
g. Differences between Projected and Actual Earnings on Plan Investments	(1,115,700,104)	(29,884,234)	(14,512,157)	(2,490,991)	(1,162,587,486)
h. Pension Plan Administrative Expenses	61,698,131	1,652,596	802,521	137,752	64,291,000
i. Payment of Interest on TDA Fixed Funds	1,647,444,998	44,127,120	21,428,680	3,678,202	1,716,679,000
j. Other Changes in Fiduciary Net Position	(27,514,693)	(736,986)	(357,890)	(61,431)	(28,671,000)
k. Changes in Proportionate Share	(17,368,530)	4,393,758	12,145,792	828,980	0
Total Pension Expense	\$ 3,471,634,296 \$	97,847,347 \$	57,528,021 \$	8,618,774 \$	3,635,628,438

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Components of Pension Expense for the Fiscal Year Ending June 30, 2020 - By Obligor

<u>Component</u>	DEPT. OF ED.	SENIOR COLL.	COMM. COLL.	Charter Schools	<u>Total</u>
a. Service Cost	\$ 1,491,042,495 \$	41,530,464 \$	19,903,968 \$	3,278,024 \$	1,555,754,951
b. Interest on the Total Pension Liability	4,637,528,508	129,170,505	61,906,499	10,195,506	4,838,801,018
c. Differences between Expected and Actual Experience	(288,957,002)	(8,048,408)	(3,857,295)	(635,266)	(301,497,971)
d. Changes of Assumptions	(100,693,373)	(2,804,643)	(1,344,159)	(221,372)	(105,063,547)
e. Employee Contributions	(217,481,141)	(6,057,569)	(2,903,162)	(478,128)	(226,920,000)
f. Projected Earnings on Pension Plan Investments	(3,565,337,283)	(99,306,434)	(47,593,788)	(7,838,316)	(3,720,075,821)
g. Differences between Projected and Actual Earnings on Plan Investments	(1,416,411,430)	(39,451,742)	(18,907,716)	(3,113,950)	(1,477,884,838)
h. Pension Plan Administrative Expenses	61,847,757	1,722,665	825,607	135,971	64,532,000
i. Payment of Interest on TDA Fixed Funds	1,769,380,449	49,283,097	23,619,510	3,889,944	1,846,173,000
j. Other Changes in Fiduciary Net Position	(38,195,293)	(1,063,865)	(509,870)	(83,972)	(39,853,000)
k. Changes in Proportionate Share	(3,580,696)	(5,158,515)	6,407,467	2,331,744	0
Total Pension Expense	\$ 2,329,142,991 \$	59,815,555 \$	37,547,061 \$	7,460,185 \$	2,433,965,792

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

Recognized Pension Expense	Fiscal Year Ending June 30, 2015 \$2,162,052,493		Fiscal Year June 30, <b>\$3,889,06</b>	2016		Fiscal Yea June 30, <b>\$3,700,7</b>	2017	Fiscal Yea June 30 \$3,278,6	, 2018	Fiscal Yea June 30 <b>\$3,635,6</b>	, 2019	Fiscal Year June 30, <b>\$2,433,9</b> 0	2020
Deferred Resources	Outflows Inflow	vs	Outflows	Inflows		Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows
Differences Between Expected and Actual Experience	1,119,313,745	0	909,318,893		0	868,214,256	0	0	1,949,415,068	0	1,037,262,405	0	30,033,289
Changes of Assumptions	0	0	1,799,316,033		0	0	0	0	0	0	721,786,566	0	0
Net Difference between Projected and Actual Earnings on Pension Plan Investments	1,108,300,450	0	1,509,141,734		0	0	3,675,061,024	0	2,008,841,951	0	1,583,889,160	0	152,888,943
Total	2,227,614,195	0	4,217,776,660		0	868,214,256	3,675,061,024	0	3,958,257,019	0	3,342,938,131	0	182,922,232
Reported amounts will be recognized in Pension Expense during Fiscal Year Ending June 30 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2026 2027	\$665,725,718 \$665,725,718 \$665,725,718 \$619,087,645 \$277,075,114		\$1,331,03 \$1,331,03 \$1,331,03 \$1,178,43 \$377,285	0,127 0,127 0,974		(\$778,73 (\$778,73 (\$778,73 (\$778,73 (\$778,73 (\$778,73 \$140,03 \$140,03 \$28,006	0,699) 0,699) 0,699) 0,699) 4,557 4,557	(\$788,44 (\$788,44 (\$788,44 (\$788,44 (\$788,44 (\$788,44 (\$286,2: (\$286,2: (\$286,2: (\$231,80	58,207) 58,207) 58,207) 58,206) 57,719) 57,719)	(\$652,02 (\$652,02 (\$652,02 (\$652,02 (\$652,02 (\$256,04 (\$225,04 (\$222,76	20,176) 20,176) 20,176) 20,176) 47,886) 47,886)	(\$42,512 (\$42,512 (\$42,512 (\$42,512 (\$42,512 (\$42,512 (\$42,512 (\$42,50) (\$42,90) (\$4,290)	,706) ,706) ,706) ,705) 470) 470)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ending June 30, 2020, the Obligors recognized Pension Expense for TRS of \$2,433,965,792.

# At June 30, 2020, the Obligors reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions for TRS from the following sources:

	0	Deferred Outflows f Resources	Deferred Inflows of Resources			
Differences between Expected and Actual Experience	\$	448,110,585	\$ 2,293,210,985			
Changes of Assumptions		0	616,723,019			
Net Difference between Projected and Actual Earnings on Pension Plan Investments		0	 3,263,992,044			
Total	\$	448,110,585	\$ 6,173,926,048			

# Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to Pensions for TRS will be recognized in Pension Expense as follows:

Fiscal Year	
Ending	
June 30	Amount
2020	\$ (1,884,446,356)
2021	(2,261,731,788)
2022	(1,342,966,531)
2023	(840,756,044)
2024	(556,811,396)
2025	(492,207,110)
2026	(227,052,125)
2027	(4,290,469)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Pension Amounts by Employer As of and for the year ending June 30, 2019

			Deferred Outflows of Resources										
Entity	Net Pension Liability	Differences Between Expected and Actual Change of Experience Assumptions			tet Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Outflows of Resources						
Department of Education	\$ 14,737,303,170	\$ 564,425,133	\$	0 \$	0	\$ (27,692,766)	\$ 536,732,367						
CUNY Senior Colleges	394,741,403	15,118,232		0	0	(27,043,313)	(11,925,081)						
CUNY Community Colleges	191,691,352	7,341,602		0	0	40,685,691	48,027,293						
Charter Schools	32,903,541	1,260,175		0	0	14,050,388	15,310,563						
Total	\$ 15,356,639,466	\$ 588,145,142	\$	0 \$	0	\$ 0	\$ 588,145,142						

	Deferred Inflows of Resources										
Entity		Differences Between Expected and Actual Experience		Change of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Inflows of Resources		
Department of Education	\$	2,591,511,293	\$	692,676,771	\$	4,367,232,425	\$	6,210,844	\$	7,657,631,333	
CUNY Senior Colleges		69,414,111		18,553,476		116,977,132		(11,165,232)		193,779,487	
CUNY Community Colleges		33,708,359		9,009,800		56,805,555		2,839,397		102,363,111	
Charter Schools		5,785,991		1,546,519		9,750,591		2,114,991		19,198,092	
Total	\$	2,700,419,754	\$	721,786,566	\$	4,550,765,703	\$	0	\$	7,972,972,023	

	Pension Expense									
Entite	]	Proportionate Share of Plan Pension Evenesce	Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of			Total Employer Pension Ermonge				
Entity	Expense			ontributions		Expense				
Department of Education	\$	3,489,002,826	\$	(17,368,530)	\$	3,471,634,296				
CUNY Senior Colleges		93,453,589		4,393,758		97,847,347				
CUNY Community Colleges		45,382,229		12,145,792		57,528,021				
Charter Schools		7,789,794		828,980		8,618,774				
Total	\$	3,635,628,438	\$	0	\$	3,635,628,438				

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Pension Amounts by Employer As of and for the year ending June 30, 2020

			Deferred Outflows of Resources										
Entity	Net Pension Liability	Differences Between Expected and Actual Experience	Net Differer Between Projectec and Actue Investmer Earnings o Pension Pla Investmen	l l t n n	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Outflows of Resources						
Department of Education	\$ 15,139,960,091	\$ 429,471,186	\$	\$	0	\$	(55,990,762)	\$	373,480,424				
CUNY Senior Colleges	421,697,957	11,962,193	(	1	0		4,380,036		16,342,229				
CUNY Community Colleges	202,103,755	5,733,023	(	1	0		41,199,519		46,932,542				
Charter Schools	33,284,873	944,183	(	<u> </u>	0		10,411,207		11,355,390				
Total	\$ 15,797,046,676	\$ 448,110,585	\$	\$	0	\$	0	\$	448,110,585				

	Deferred Inflows of Resources										
Entity		Differences Between Expected and Actual Experience		Change of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Inflows of Resources		
Department of Education	\$	2,197,823,651	\$	591,070,096	\$	3,128,224,553	\$	3,107,748	\$ 5,920,226,048		
CUNY Senior Colleges		61,216,657		16,463,257		87,131,399		(7,409,892)	157,401,421		
CUNY Community Colleges		29,338,810		7,890,211		41,758,758		2,685,108	81,672,887		
Charter Schools		4,831,867		1,299,455		6,877,334		1,617,036	14,625,692		
Total	\$	2,293,210,985	\$	616,723,019	\$	3,263,992,044	\$	0	\$ 6,173,926,048		

			Pens	ion Expense		
	]	Proportionate Share of Plan Pension	Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of			Total Employer Pension
Entity	Expense		Co	ontributions		Expense
Department of Education	\$	2,332,723,687	\$	(3,580,696)	\$	2,329,142,991
CUNY Senior Colleges		64,974,070		(5,158,515)		59,815,555
CUNY Community Colleges		31,139,594		6,407,467		37,547,061
Charter Schools		5,128,441		2,331,744		7,460,185
Total	\$	2,433,965,792	\$	0	\$	2,433,965,792

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Collective Pension Amounts As of and for the year ending June 30, 2020

		Deferred Out	flows of Resources			Deferred Inflows of Resources						
Net Pension Liability	Differences Between Expected and Actual Experience	Change of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Total Deferred Outflows of Resources Excluding Employer Specific Amounts	Differences Between Expected and Actual Experience	Change of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Total Deferred Inflows of Resources Excluding Employer Specific Amounts	Plan Pension Expense			
\$ 15,797,046,676	\$ 448,110,585	\$ 0	\$ 0	\$ 448,110,585	\$ 2,293,210,985	\$ 616,723,019	\$ 3,263,992,044	\$ 6,173,926,048	\$ 2,433,965,792			

# **Appendix C**

# **APPENDIX C**

# NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM (BERS)

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# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Statement of Fiduciary Net Position - QPP Only June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

ASSE 15         S         977         S         3.694           Receivables:         Investment securities sold         116.436         173,665           Member loans         48.751         50.360           Accrued interest and dividends         15.279         15.501           Other         14.724         626           Total receivables         8         195,190         \$         240,378           Investments - at fair value         Fixed Return Funds:         5         2179         46,054           Short-term investments:         Commercial paper         29,179         46,054           Debt securities         1,941,029         1,841,703         2,847,706           Alternative investments         2,723,900         2,2116,377         Alternative investments         976,076         892,479           Collective Trust Funds:         976,076         892,479         2616,858         Mortgage debt security         22,905         20,023           International equity         71,226         1,096,779         20,014,858         Mortgage debt securities         0         0           International equity         11,226         20,023         119,264         123,051           Collacteral from securities lending         31,826		J	une 30, 2020		June 30, 2019	
Receivables:         116,436         173,665           Member Ioans         48,751         50,586           Accrued interest and dividends         15,279         115,501           Other         14,724         626           Total receivables         \$ 195,190         \$ 240,378           Investments - at fair value         Fixed Return Funds:         20,179         46,954           Short-term investments:         Commercial paper         29,179         46,954           Short-term investments:         144,029         1,841,703         26,625           Discount notes         144,029         1,841,703         26,625           Discourt rotes         1,940,029         1,841,703         26,625         106,779           Collective Truns Funds:         12,723,900         2,116,377         Alternative investments         1,940,029         1,841,703           Equity securities         1,9206         1096,779         20,018,58         1096,779           Collective Truns Funds:         1         119,264         123,051           International equity         51,279         261,858         1096,759           Mortgage debt securities         0         0         0           Variable Return Funds:         119,264         <	ASSETS					
Investment securities sold         116,436         173,665           Member loans         48,751         50,586           Accrued interest and dividends         15,279         15,501           Other         14,724         626           Total receivables         \$ 195,190         \$ 240,378           Investments - at fair value         Fixed Return Funds:         626           Commercial paper         29,179         46,954           Short-term investments:         149,094         11,108           Debt securities         1,941,029         1,841,703           Debt securities         2,739,00         2,116,377           Alternative investments         976,076         892,479           Collective Trust Funds:         119,264         123,051           Collasteral from securities lending         411,742         411,646           Variable Return Funds:         119,264         123,051           Collasteral from securities lending         345         359           Total Investinents         7,367,801         \$<	Cash	\$	977	\$	3,694	
Member loans       48,751       50,586         Accrued interest and dividends       15,279       15,501         Other $14,224$ $626$ Total receivables       \$ 195,190       \$ 240,378         Investments - at fair value       Fixed Return Funds: $5$ 195,190       \$ 240,378         Investments - at fair value       Fixed Return Funds: $29,179$ 46,954         Short-term investments:       Commercial paper       29,179       46,954         Discount notes       149,094       11,108         Debt securities       1,941,029       1,841,703         Equity securities       2,723,900       2,116,377         Alternative investments       976,076       892,479         Collective Trust Funds:       International equity       776,286       1,096,779         Domestic equity       51,279       261,858       0       0         Fixed income       119,264       123,051       1         Collateral from securities lending       451,742       4411,646         Variable Return Funds:       1,250       1,095       1         Short-term investments       484       467       242,160       248,466         Variable Return Funds:						
Accrued interest and dividends $15,279$ $15,501$ Other $14,224$ $626$ Total receivables       \$ $195,190$ \$ $240,378$ Investments - at fair value       Fixed Return Funds:       Short-term investments: $20,179$ $46,954$ Short-term investment fund $73,082$ $26,625$ $Discount notes$ $149,094$ $11,108$ Debt securities $194,029$ $15,41,703$ $Equity securities$ $2,723,900$ $2,116,377$ Alternative investments $976,076$ $892,479$ Collective Trust Funds: $192,964$ $12,096,779$ Donestic equity $71,279$ $261,858$ $000$ $0$ $0$ Mortgage debt security $22,965$ $20,203$ $72,994$ $11,046$ Variable Return Funds: $90$ $0$ $0$ $0$ $0$ $0$ $0$ Short-term investments $484$ $467$ $19,264$ $123,051$ $19,264$ $123,051$ Collateral from securities lending $31,272$ $411,646$ $31,265$ $53,088$ $359$ $51,826$ $53,088$	Investment securities sold		116,436		173,665	
Other $14724$ $626$ Total receivables\$195,190\$240,378Investments - at fair valueFixed Return Funds:\$\$240,378Short-term investments:Commercial paper $29,179$ $46,954$ Short-term investment fund73,082 $26,625$ Discout notes149,09411,108Debt securities1,941,0291,841,703Equity securities $2,723,900$ $2,116,377$ Alternative investments $976,076$ $892,479$ Collective Trust Funds: $976,076$ $892,479$ International equity $776,286$ $1,096,779$ Domestic equity $51,279$ $261,858$ Mortgage debt security $22,965$ $20,203$ Treasury inflation protected securities $0$ $0$ Fixed income119,264123,051Collateral from securities lending $451,742$ $411,646$ Variable Return Funds: $1,250$ $1,095$ Equities $345$ $359$ Total Investments $484$ $467$ Debt securities lending $345$ $359$ Total assets $7,367,801$ \$Goltareal from securities lending $345$ $359$ Total assets $7,806,128$ \$ $7,396,330$ LIABILITIESInternational equities purchased $166,434$ $182,667$ Accroard spayable $12,884$ $10,034$ $10,244$ Date torins payable $12,884$ $10,034$ Date borgram from the System $1,959,392$ <t< td=""><td>Member loans</td><td></td><td>48,751</td><td></td><td>50,586</td></t<>	Member loans		48,751		50,586	
Total receivables         \$         195,190         \$         240,378           Investments - at fair value Fixed Return Funds: Short-term investments: Commercial paper         29,179         46,954           Short-term investment fund         73,082         26,625           Discount notes         149,094         11,108           Debt securities         1,941,029         1,841,703           Equity securities         2,723,900         2,116,377           Alternative investments         976,076         892,479           Collective Trust Funds:         11,029         1,216,377           International equity         776,286         1,096,779           Domestic equity         51,279         20,1858           Mortgage debt security         22,965         20,203           Treasury inflation protected securities         0         0           Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         1,250         1,095           Short-term investments         484         467           Debt securities         1,250         1,095           Equities         51,826         53,088           Collateral fro	Accrued interest and dividends		15,279		15,501	
Investments - at fair value Fixed Return Funds: Short-term investments: Commercial paper 29,179 46,954 Short-term investment fund 73,082 26,625 Discount notes 149,094 11,108 Debt securities 1,941,029 1,841,703 Equity securities 2,2723,900 2,116,377 Alternative investments 976,076 892,479 Collective Trust Funds: International equity 776,286 1,096,779 Domestic equity 51,279 261,858 Morgage debt security 22,965 20,203 Treasury inflation protected securities 0 0 0 Fixed income 119,264 123,051 Collateral from securities lending 451,742 411,646 Variable Return Funds: Short-term investments 484 467 Debt securities 1,250 1,095 Equities 51,826 53,088 Collateral from securities lending 345 359 Total Investments 7,367,801 \$ 6,903,792 Other assets 7,806,128 \$ 7,396,330 <b>Iternational equity 10,000</b> Fixed income 10,250 2,000 2,48,466 Total assets 7,806,128 \$ 7,396,330 <b>LIABULITIES</b> Accounts payable 3,2,441 43,333 Payables for investment securities purchased 166,434 182,667 Accrued benefits payable 12,2484 10,034 Data Securities lending 452,087 412,005 Total liabilities 2,623,238 \$ 2,404,498	Other		14,724		626	
Fixed Return Funds:       29,179       46,954         Short-term investment fund       73,082       26,625         Discount notes       149,004       11,108         Debt securities       2,723,900       2,116,377         Alternative investments       976,076       82,479         Collective Trust Funds:       976,076       20,203         International equity       77,6286       1,096,779         Domestic equity       21,259       20,203         Treasury inflation protected securities       0       0         Fixed income       119,264       123,051         Collective Steaming       451,742       411,646         Variable Return Funds:       484       467         Debt securities lending       451,742       411,646         Variable Return Funds:       1,250       1,095         Equities       1,250       1,095         Equities       33,088       23,088         Collateral from securities lending       345       359         Total Investments       7,367,801       \$       6,903,792         Other assets       7,806,128       \$       7,396,330 <b>LABULTIES</b> 12,441       43,333         Phyables for i	Total receivables	\$	195,190	\$	240,378	
Short-term investments:         29,179         46,954           Short-term investment fund         73,082         26,625           Discount notes         149,094         11,108           Debt securities         1,941,029         1,841,703           Equity securities         2,723,900         2,216,377           Alternative investments         2976,076         892,479           Collective Trust Funds:         1         1096,779           Domestic equity         51,279         261,858           Mortgage debt security         22,965         20,203           Treasury inflation protected securities         0         0           Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         51,826         53,088           Collateral from securities lending         345         359           Total nectrities lending         345         359           Total assets         7,806,128         \$7,396,330           ELABILITIES         166,434         182,667           Accounts payable         32,441         43,333           Payables for investment securities purchased         166,434         182,667 </td <td>Investments - at fair value</td> <td></td> <td></td> <td></td> <td></td>	Investments - at fair value					
$\begin{array}{c cccc} Commercial paper & 29,179 & 46,954 \\ Short-term investment fund & 73,082 & 26,625 \\ Discount notes & 149,094 & 11,108 \\ Debt securities & 2,723,900 & 2,116,377 \\ Alternative investments & 976,076 & 892,479 \\ Collective Trust Funds: & 976,076 & 892,479 \\ Collective Trust Funds: & 976,076 & 20,203 \\ International equity & 776,286 & 1,096,779 \\ Domestic equity & 51,279 & 261,858 \\ Mortgage debt security & 22,965 & 20,203 \\ Treasury inflation protected securities & 0 & 0 \\ Fixed income & 119,264 & 123,051 \\ \hline Collateral from securities lending & 451,742 & 411,646 \\ Variable Return Funds: & 484 & 467 \\ Debt securities & 1,250 & 1,095 \\ Equities & 51,826 & 53,088 \\ Collateral from securities lending & 345 & 359 \\ Total Investments & 7,367,801 & $ 6,903,792 \\ \hline Other assets & 7,806,128 & $ 7,396,330 \\ \hline ELABILITIES & 242,160 & 248,466 \\ Total assets & 7,806,128 & $ 7,396,330 \\ \hline ELABILITIES & 242,160 & 248,466 \\ Total assets & 7,806,128 & $ 7,396,330 \\ \hline ELABILITIES & 242,160 & 248,466 \\ Total assets & 7,806,128 & $ 7,396,330 \\ \hline ELABILITIES & 242,160 & 248,466 \\ Total assets & 16,6434 & 182,667 \\ Accrued benefits payable & 32,441 & 43,333 \\ Payables for investment securities purchased & 166,434 & 182,667 \\ Accrued benefits payable & 12,884 & 10,034 \\ Due to TDA Program from the System & 1,959,392 & 1,756,459 \\ Securities lending & 452,087 & 412,005 \\ Total liabilities & 2,623,238 & $ 2,404,498 \\ \hline \end{tabular}$	Fixed Return Funds:					
Short-term investment fund         73,082         26,625           Discourt notes         149,094         11,108           Debt securities         1,941,029         1,841,703           Equity securities         2,723,900         2,116,377           Alternative investments         976,076         892,479           Collective Trust Funds:         976,076         892,479           Domestic equity         51,279         261,858           Mortage debt security         22,965         20,203           Treasury inflation protected securities         0         0           Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         1,250         1,095           Equities         51,826         53,088           Collateral from securities lending         345         359           Total Investments         484         467           Debt securities         1,250         1,095           Equities         51,826         53,088           Collateral from securities lending         345         359           Total Investments         7,860,128         \$ 7,396,330           LIABILITIES	Short-term investments:					
Short-term investment fund         73,082         26,625           Discount notes         149,094         11,108           Debt securities         1,941,029         1,841,703           Equity securities         2,723,900         2,116,377           Alternative investments         976,076         892,479           Collective Trust Funds:         976,076         892,479           Domestic equity         51,279         261,858           Mortgage debt security         22,965         20,203           Treasury inflation protected securities         0         0           Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         1,250         1,095           Short-term investments         484         467           Debt securities         1,250         1,095           Equities         51,826         53,088           Collateral from securities lending         345         359           Total Investments         7,866,128         \$ 7,396,330           LIABILITIES         242,160         248,466           Total assets         7,806,128         \$ 7,396,330           LIABILITIES </td <td>Commercial paper</td> <td></td> <td>29,179</td> <td></td> <td>46,954</td>	Commercial paper		29,179		46,954	
Discount notes         149,094         11,108           Debt securities         1,941,029         1,841,703           Equity securities         2,73,900         2,116,377           Alternative investments         976,076         892,479           Collective Trust Funds:         976,076         892,479           Domestic equity         716,286         1,096,779           Domestic equity         51,279         20,183           Mortgage debt security         22,965         20,203           Treasury inflation protected securities         0         0           Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         484         467           Debt securities         1,250         1,095           Equities         51,826         53,088           Collateral from securities lending	Short-term investment fund		73,082			
Debt securities         1,941,029         1,841,703           Equity securities         2,723,900         2,116,377           Alternative investments         2,760,76         892,479           Collective Trust Funds:         1         1           International equity         776,286         1,096,779           Domestic equity         51,279         261,858           Mortgage debt security         22,965         20,003           Treasury inflation protected securities         0         0           Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         484         467           Debt securities         1,250         1,095           Equities         51,826         53,088           Collateral from securities lending         345         359           Total Investments         7,367,801         \$         6,903,792           Other assets         7,206,128         \$         7,396,330           LIABILITIES         32,441         43,333         7,394,366           Total assets         7,806,128         \$         7,396,330           LIABILITIES         32,441         <	Discount notes					
Equity securities         2,723,900         2,116,377           Alternative investments         976,076         892,479           Collective Trust Funds:         776,286         1,096,779           Domestic equity         51,279         261,858           Mortgage debt security         22,965         20,203           Treasury inflation protected securities         0         0           Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         119,264         123,051           Short-term investments         484         467           Debt securities         1,250         1,095           Equities         51,826         53,088           Collateral from securities lending         345         359           Total Investments         7,367,801         \$         6,903,792           Other assets         242,160         248,466         248,466           Total assets         7,806,128         \$         7,396,330           LIABILITIES         1         43,333         166,434         182,667           Accrounts payable         12,884         10,034         10,246         12,864	Debt securities		1,941,029			
Alternative investments976,076892,479Collective Trust Funds:International equity776,2861,096,779Domestic equity51,279261,858Mortgage debt security22,96520,203Treasury inflation protected securities00Fixed income119,264123,051Collateral from securities lending451,742411,646Variable Return Funds:1,2501,095Equities1,2501,095Equities51,82653,088Collateral from securities lending345359Total Investments7,367,801\$6,903,792Other assets242,160Collateral from securities lending34,5359Total Investments7,367,801\$Accounts payable2,44143,333Payables for investment securities purchased166,434182,667Accrued benefits payable12,88410,034Due to TDA Program from the System1,959,3921,756,459Securities lending452,087412,005Total liabilities2,623,238\$2,404,498	Equity securities					
Collective Trust Funds:International equity $776,286$ $1,096,779$ Domestic equity $51,279$ $261,858$ Mortgage debt security $22,965$ $20,203$ Treasury inflation protected securities $0$ $0$ Fixed income $119,264$ $123,051$ Collateral from securities lending $451,742$ $411,646$ Variable Return Funds: $484$ $467$ Debt securities $1,250$ $1,095$ Equities $51,826$ $53,088$ Collateral from securities lending $345$ $359$ Total Investments $7,367,801$ \$ $6,903,792$ Other assets $242,160$ $248,466$ Total assets $7,806,128$ \$ $7,396,330$ LIABILITIESIterative sputchased $166,434$ $182,667$ Accounts payable $22,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accrued benefits payable $12,884$ $10,034$ Due to TDA Program from the System $1,959,392$ $1,756,459$ Securities lending $452,087$ $412,005$ Total liabilities $2,623,238$ \$ $2,404,498$						
Domestic equity $51,279$ $261,858$ Mortgage debt security $22,965$ $20,203$ Treasury inflation protected securities00Fixed income $119,264$ $123,051$ Collateral from securities lending $451,742$ $411,646$ Variable Return Funds: $844$ $467$ Debt securities $1,250$ $1,095$ Equities $51,826$ $53,088$ Collateral from securities lending $345$ $359$ Total Investments $7,367,801$ \$ $6,903,792$ Other assets $242,160$ $248,466$ Total assets $7,806,128$ \$ $7,396,330$ LIABILITIES $32,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accounts payable $32,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accrued benefits payable $12,884$ $10,034$ Due to TDA Program from the System $1,959,392$ $1,756,459$ Securities lending $452,087$ $412,005$ Total liabilities $2,623,238$ \$ $2,404,498$	Collective Trust Funds:		,		,	
Domestic equity $51,279$ $261,858$ Mortgage debt security $22,965$ $20,203$ Treasury inflation protected securities00Fixed income $119,264$ $123,051$ Collateral from securities lending $451,742$ $411,646$ Variable Return Funds: $844$ $467$ Debt securities $1,250$ $1,095$ Equities $51,826$ $53,088$ Collateral from securities lending $345$ $359$ Total Investments $7,367,801$ \$ $6,903,792$ Other assets $242,160$ $248,466$ Total assets $7,806,128$ \$ $7,396,330$ LIABILITIES $32,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accounts payable $32,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accrued benefits payable $12,884$ $10,034$ Due to TDA Program from the System $1,959,392$ $1,756,459$ Securities lending $452,087$ $412,005$ Total liabilities $2,623,238$ \$ $2,404,498$	International equity		776.286		1.096.779	
Mortgage debt security $22,965$ $20,203$ 0Treasury inflation protected securities00Fixed income119,264123,051Collateral from securities lending $451,742$ $411,646$ Variable Return Funds: $484$ $467$ Debt securities $1,250$ $1,095$ EquitiesCollateral from securities lending $345$ $359$ Total Investments $7,367,801$ \$ $6,903,792$ Other assets $242,160$ $248,466$ Total assets $7,806,128$ \$ $7,396,330$ LIABILITIES Accounts payable $32,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accrued benefits payable $12,884$ $10,034$ Due to TDA Program from the System $1,959,392$ $1,756,459$ Securities lending $452,087$ $412,005$ Total liabilitiesTotal liabilities $2,623,238$ \$ $2,404,498$						
Treasury inflation protected securities00Fixed income119,264123,051Collateral from securities lending451,742411,646Variable Return Funds:484467Debt securities1,2501,095Equities51,82653,088Collateral from securities lending345359Total Investments7,367,801\$6,903,792Other assets242,160248,466Total assets7,806,128\$7,396,330 <b>LIABILITIES</b> 32,44143,333Payables for investment securities purchased166,434182,667Accounts payable32,44143,333Payables for investment securities purchased166,434182,667Accrued benefits payable1,288410,034Due to TDA Program from the System1,959,3921,756,459Securities lending452,087411,2005Total liabilities2,623,238\$2,404,498					<i>,</i>	
Fixed income         119,264         123,051           Collateral from securities lending         451,742         411,646           Variable Return Funds:         484         467           Debt securities         1,250         1,095           Equities         51,826         53,088           Collateral from securities lending         345         359           Total Investments         7,367,801         \$         6,903,792           Other assets         242,160         248,466           Total assets         7,806,128         \$         7,396,330           LIABILITIES         32,441         43,333           Payables for investment securities purchased         166,434         182,667           Accounts payable         32,441         43,333           Payables for investment securities purchased         166,434         182,667           Accounts payable         1,959,392         1,756,459           Securities lending         452,087         412,005           Total liabilities         2,623,238         \$         2,404,498						
Variable Return Funds:       484       467         Short-term investments       484       467         Debt securities       1,250       1,095         Equities       51,826       53,088         Collateral from securities lending       345       359         Total Investments       7,367,801       \$       6,903,792         Other assets       242,160       248,466         Total assets       7,806,128       \$       7,396,330 <b>LIABILITIES</b> 32,441       43,333         Payables for investment securities purchased       166,434       182,667         Accounts payable       32,441       43,333         Payables for investment securities purchased       166,434       182,667         Account payable       12,884       10,034         Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$       2,404,498						
Short-term investments       484       467         Debt securities       1,250       1,095         Equities       51,826       53,088         Collateral from securities lending       345       359         Total Investments       7,367,801       \$       6,903,792         Other assets       242,160       248,466         Total assets       7,806,128       \$       7,396,330         LIABILITIES       32,441       43,333         Payables for investment securities purchased       166,434       182,667         Accrued benefits payable       12,884       10,034         Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$       2,404,498	Collateral from securities lending		451,742		411,646	
Debt securities $1,250$ $1,095$ Equities $51,826$ $53,088$ Collateral from securities lending $345$ $359$ Total Investments $7,367,801$ \$ $6,903,792$ Other assets $242,160$ $248,466$ Total assets $7,806,128$ \$ $7,396,330$ LIABILITIES $32,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accrued benefits payable $1,959,392$ $1,756,459$ Due to TDA Program from the System $1,959,392$ $1,756,459$ Securities lending $452,087$ $412,005$ Total liabilities $2,623,238$ \$ $2,404,498$	Variable Return Funds:					
Equities Collateral from securities lending $51,826$ $345$ $53,088$ $359$ Total Investments $7,367,801$ \$ $6,903,792$ Other assets $242,160$ $248,466$ Total assets $7,806,128$ \$ $7,396,330$ LIABILITIESAccounts payable $32,441$ $43,333$ Payables for investment securities purchased $166,434$ $182,667$ Accrued benefits payable $1,2,884$ $10,034$ Due to TDA Program from the System $1,959,392$ $1,756,459$ Securities lending $452,087$ $412,005$ Total liabilities $2,623,238$ \$ $2,404,498$	Short-term investments		484		467	
Equities       51,826       53,088         Collateral from securities lending       345       359         Total Investments       7,367,801       \$       6,903,792         Other assets       242,160       248,466         Total assets       7,806,128       \$       7,396,330         LIABILITIES       32,441       43,333         Payables for investment securities purchased       166,434       182,667         Accrued benefits payable       1,2,884       10,034         Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$       2,404,498	Debt securities		1,250		1,095	
Collateral from securities lending       345       359         Total Investments       7,367,801       \$       6,903,792         Other assets       242,160       248,466         Total assets       7,806,128       \$       7,396,330         LIABILITIES       32,441       43,333         Payables for investment securities purchased       166,434       182,667         Accrued benefits payable       1,959,392       1,756,459         Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$       2,404,498	Equities					
Other assets242,160248,466Total assets7,806,128\$7,396,330LIABILITIES32,44143,333Payables for investment securities purchased166,434182,667Accrued benefits payable12,88410,034Due to TDA Program from the System1,959,3921,756,459Securities lending452,087412,005Total liabilities2,623,238\$2,404,498				_		
Total assets       7,806,128       \$       7,396,330         LIABILITIES       Accounts payable       32,441       43,333         Payables for investment securities purchased       166,434       182,667         Accrued benefits payable       1,2,884       10,034         Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$       2,404,498	Total Investments		7,367,801	\$	6,903,792	
LIABILITIESAccounts payable32,44143,333Payables for investment securities purchased166,434182,667Accrued benefits payable12,88410,034Due to TDA Program from the System1,959,3921,756,459Securities lending452,087412,005Total liabilities2,623,238\$ 2,404,498	Other assets		242,160		248,466	
Accounts payable       32,441       43,333         Payables for investment securities purchased       166,434       182,667         Accrued benefits payable       12,884       10,034         Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$ 2,404,498	Total assets		7,806,128	\$	7,396,330	
Payables for investment securities purchased166,434182,667Accrued benefits payable12,88410,034Due to TDA Program from the System1,959,3921,756,459Securities lending452,087412,005Total liabilities2,623,238\$ 2,404,498	LIABILITIES					
Payables for investment securities purchased166,434182,667Accrued benefits payable12,88410,034Due to TDA Program from the System1,959,3921,756,459Securities lending452,087412,005Total liabilities2,623,238\$ 2,404,498	Accounts payable		32,441		43,333	
Accrued benefits payable       12,884       10,034         Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$ 2,404,498	Pavables for investment securities purchased		166,434		182.667	
Due to TDA Program from the System       1,959,392       1,756,459         Securities lending       452,087       412,005         Total liabilities       2,623,238       \$ 2,404,498					,	
Securities lending         452,087         412,005           Total liabilities         2,623,238         \$ 2,404,498						
					· · ·	
Plan Net Position Held in Trust for Benefits5,182,890\$ 4,991,832	Total liabilities		2,623,238	\$	2,404,498	
	Plan Net Position Held in Trust for Benefits		5,182,890	\$	4,991,832	

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Changes in Fiduciary Net Position - QPP Only June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

	June 30 Fixed	, 2020	Variable	June 30 Fixed	, 2019	Variable
ADDITIONS						
Contributions:						
Member Contributions	\$ 49,766	\$	0	\$ 46,304	\$	0
Employer Contributions	 257,503		0	 269,637		0
Total contributions	\$ 307,269	\$	0	\$ 315,941	\$	0
Investment income:						
Interest income	81,847		23	85,214		35
Dividend income	78,625		794	81,451		1,000
Net appreciation (depreciation) in fair value	 235,297		386	 265,605		2,874
Total investment income	\$ 395,769	\$	1,203	\$ 432,270	\$	3,909
Less:						
Investment expenses	32,624		53	31,170		50
Net income	363,145		1,150	401,100		3,859
Securities lending transactions:						
Securities lending income	1,608		0	2,124		0
Securities lending fees	 (136)		0	 (204)		0
Net securities lending income	1,472		0	1,920		0
Net investment income	364,617		1,150	403,020		3,859
Other:						
Net receipts from other retirement systems	(7,947)		(28)	35,595		29
Litigation income	0		0	0		0
Total additions	\$ 663,939	\$	1,122	\$ 754,556	\$	3,888
DEDUCTIONS						
Benefit payments and withdrawals	293,844		2,203	277,848		2,615
Payment of Interest on TDA Fixed Funds	155,749		2,200	141,695		2,019
Administrative expenses	22,207		0	17,357		0
Auministrative expenses	22,207		0	17,557		0
Total deductions	\$ 471,800	\$	2,203	\$ 436,900	\$	2,615
INCREASE IN PLAN NET POSITION	192,139		(1,081)	317,656		1,273
PLAN NET POSITION HELD IN TRUST FOR BENEFITS:						
Beginning of year	\$ 4,937,065	\$	54,767	\$ 4,619,409	\$	53,494
End of year	\$ 5,129,204	\$	53,686	\$ 4,937,065	\$	54,767

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Market Values of Assets - QPP Only

	Fixed	Variable	Total
1. Plan Net Position @ 6/30/2018	\$ 4,619,409,000	\$ 53,494,000	\$ 4,672,903,000
2. Changes for the year:			
a. ER Contributions	269,637,000	0	269,637,000
b. EE Contributions	46,304,000	0	46,304,000
c. Net Investment Income	403,020,000	3,859,000	406,879,000
d. Benefit Payments	(277,848,000)	(2,615,000)	(280,463,000)
e. Payment of Interest on TDA Fixed Funds	(141,695,000)	0	(141,695,000)
f. Administrative Expenses	(17,357,000)	0	(17,357,000)
g. Other	35,595,000	29,000	35,624,000
h. Net Changes	\$ 317,656,000	\$ 1,273,000	\$ 318,929,000
3. Plan Net Position @ 6/30/2019	\$ 4,937,065,000	\$ 54,767,000	\$ 4,991,832,000
4. Changes for the year:			
a. ER Contributions	257,503,000	0	257,503,000
b. EE Contributions	49,766,000	0	49,766,000
c. Net Investment Income	364,617,000	1,150,000	365,767,000
d. Benefit Payments	(293,844,000)	(2,203,000)	(296,047,000)
e. Payment of Interest on TDA Fixed Funds	(155,749,000)	0	(155,749,000)
f. Administrative Expenses	(22,207,000)	0	(22,207,000)
g. Other	(7,947,000)	(28,000)	(7,975,000)
h. Net Changes	\$ 192,139,000	\$ (1,081,000)	\$ 191,058,000
5. Plan Net Position @ 6/30/2020	\$ 5,129,204,000	\$ 53,686,000	\$ 5,182,890,000

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Long-Term Expected Rate of Return

The Long-Term Expected Rate of Return (LTEROR) assumption on pension fund investments was determined using a Building-Block Method in which best-estimate ranges of Expected Real Rates of Return (i.e. Expected Returns, net of pension fund investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the LTEROR by weighting the Expected Real Rates of Return (RROR) by the Target Asset Allocation percentage and by adding Expected Inflation. The Target Asset Allocation and best estimates of Arithmetic Real Rates of Return for each major asset class are summarized in the following table:

		Long-Term
	Target	Expected
	Asset	Real Rate
Asset Class	Allocation	of Return
Dublis Maubata		
Public Markets:		
U.S. Public Market Equities	31.0%	6.6%
Developed Public Market Equities	10.0%	7.2%
Emerging Public Market Equities	6.0%	9.1%
Fixed Income	27.0%	1.6%
Private Markets (Alternative Investments):		
Private Equity	9.0%	10.4%
Private Real Estate	8.0%	4.8%
Infrastructure	4.0%	6.0%
Opportunistic Fixed Income	5.0%	7.3%
Total	100.0%	

The Discount Rate used to measure the Total Pension Liability was 7.0% per annum. The projection of Cash Flows used to determine the Discount Rate assumes that employee contributions will be made at the rates applicable to the current Tier for each member and that employer contributions will be made at rates as determined by the Actuary. Based on those assumptions, the pension fund's Fiduciary Net Position is projected to be available to make all projected future benefit payments of current active and non-active members. Therefore, the Long-Term Expected Rate of Return on pension fund investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

	Fixed	Variable	Total
1. Market Value 6/30/2018	\$ 4,619,409,000	\$ 53,494,000 \$	4,672,903,000
2. Market Value 6/30/2019	4,937,065,000	54,767,000	4,991,832,000
3. Net Investment Income	403,020,000	3,859,000	406,879,000
4. Cash Flow (2 1 3.)	(85,364,000)	(2,586,000)	(87,950,000)
5. Projected Earnings <sup>1</sup> (7% * 1. + 3.441% * 4.)	320,421,255	3,859,000	324,280,255
6. (Gain) / Loss (5 3.)	(82,598,745)	0	(82,598,745)
7. Recognition Period	5 Years	5 Years	5 Years
8. Amount Recognized in Pension Expense (6. / 7.)	(16,519,749)	0	(16,519,749)
9. Deferred (Inflow) / Outflow of Resources (6 8.)	\$ (66,078,996)	\$ 0 \$	666,078,996)

# Development of Asset (Gain) / Loss - QPP Only June 30, 2019

<sup>1</sup>Variable Funds Projected Earnings set equal to Variable Funds Net Investment Income.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

	Fixed	Variable	Total
1. Market Value 6/30/2019	\$ 4,937,065,000	\$ 54,767,000	\$ 4,991,832,000
2. Market Value 6/30/2020	5,129,204,000	53,686,000	5,182,890,000
3. Net Investment Income	364,617,000	1,150,000	365,767,000
4. Cash Flow (2 1 3.)	(172,478,000)	(2,231,000)	(174,709,000)
5. Projected Earnings <sup>1</sup> (7% * 1. + 3.441% * 4.)	339,659,582	1,150,000	340,809,582
6. (Gain) / Loss (5 3.)	(24,957,418)	0	(24,957,418)
7. Recognition Period	5 Years	5 Years	5 Years
8. Amount Recognized in Pension Expense (6. / 7.)	(4,991,484)	0	(4,991,484)
9. Deferred (Inflow) / Outflow of Resources (6 8.)	\$ (19,965,934)	\$ 0	\$ (19,965,934)

# Development of Asset (Gain) / Loss - QPP Only June 30, 2020

<sup>1</sup>Variable Funds Projected Earnings set equal to Variable Funds Net Investment Income.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Roll-Forward of Entry Age Actuarial Accrued Liabilities to June 30, 2020

	Fixed	Variable	Total		
1. Disclosed EA Accrued Liability at 6/30/2019	\$ 5,245,567,708	\$	20,498,363	\$	5,266,066,071
2. EA Normal Cost at 6/30/2019	\$ 166,791,932	\$	0	\$	166,791,932
3. Benefit Payments-FY2020	\$ (293,844,000)	\$	(2,203,000)	\$	(296,047,000)
4. Interest <sup>1</sup>	\$ 368,754,003	\$	1,150,000	\$	369,904,003
5. Experience (Gain)/Loss-FY2020	\$ (44,429,391)	\$	(2,144,923)	\$	(46,574,314)
6. Roll-Forward EAAL at 6/30/2020	\$ 5,442,840,252	\$	17,300,440	\$	5,460,140,692

<sup>1</sup> Interest on Variable Funds set equal to Variable Funds Net Investment Income.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Employer Allocations June 30, 2019

Employer	2019 Employer Contributions	Employer Allocation Percentage
Department of Education (DOE)	\$ 257,905,187	95.6491759812%
School Construction Authority (SCA)	11,689,168	4.3351562646%
Charter Schools	42,246	0.0156677542%
Total	\$ 269,636,601	100.00000000%

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source - By Obligor Balances as of June 30, 2019

	Total Pension Liability								
		DOE		SCA		Charter Schools		TOTAL	
1. Balances at June 30, 2018	\$	4,951,688,886	\$	221,149,014	\$	1,448,800	\$	5,174,286,700	
2. Changes for the Year:									
a. Service Cost		161,169,588		7,304,771		26,400		168,500,759	
b. Interest		350,156,369		15,870,315		57,357		366,084,041	
c. Changes of Benefit Terms		0		0		0		0	
d. Differences b/t Expected and Actual Experience		145,539,868		6,596,378		23,840		152,160,086	
e. Changes of Assumptions		(300,819,065)		(13,634,175)		(49,275)		(314,502,515)	
f. Benefit Payments		(268,260,549)		(12,158,509)		(43,942)		(280,463,000)	
g. Net Changes	\$	87,786,211	\$	3,978,780	\$	14,380	\$	91,779,371	
3. SubTotal	\$	5,039,475,097	\$	225,127,794	\$	1,463,180	\$	5,266,066,071	
4. Changes in Proportionate Share	\$	(2,526,293)	\$	3,164,399	\$	(638,106)	\$	0	
5. Balances at June 30, 2019	\$	5,036,948,804	\$	228,292,193	\$	825,074	\$	5,266,066,071	
				Plan Fiduciar	y N	et Position			
		DOE		SCA	•	Charter Schools		TOTAL	
6. Balances at June 30, 2018	\$	4,471,874,713	\$	199,719,874	\$	1,308,413	\$	4,672,903,000	
7. Changes for the Year:									
a. Contributions - Employer		257,905,586		11,689,168		42,246		269,637,000	
<ul> <li>b. Contributions - Employee</li> </ul>		44,289,394		2,007,351		7,255		46,304,000	
c. Net Investment Income		389,176,411		17,638,840		63,749		406,879,000	
d. Benefit Payments		(268,260,549)		(12,158,509)		(43,942)		(280,463,000)	
e. Administrative Expenses		(16,601,828)		(752,453)		(2,719)		(17,357,000)	
f. Payment of Interest on TDA Fixed Funds		(135,530,100)		(6,142,700)		(22,200)		(141,695,000)	
g. Other Changes		34,074,063		1,544,356		5,581		35,624,000	
h. Net Changes	\$	305,052,977	\$	13,826,053	\$	49,970	\$	318,929,000	
8. SubTotal	\$	4,776,927,690	\$	213,545,927	\$	1,358,383	\$	4,991,832,000	

9. Changes in Proportionate Share	\$ (2,281,516)	\$ 2,857,791	\$ (576,275) \$	5	0
10. Balances at June 30, 2019	\$ 4,774,646,174	\$ 216,403,718	\$ 782,108 \$	5	4,991,832,000

	Net Pension Liablility									
		DOE		SCA		Charter Schools	TOTAL			
11. Balances at June 30, 2018	\$	479,814,173	\$	21,429,140	\$	140,387 \$	501,383,700			
12. Changes for the Year:										
a. Service Cost		161,169,588		7,304,771		26,400	168,500,759			
b. Interest		350,156,369		15,870,315		57,357	366,084,041			
c. Changes of Benefit Terms		0		0		0	0			
c. Differences b/t Expected and Actual Experience		145,539,868		6,596,378		23,840	152,160,086			
d. Changes of Assumptions		(300,819,065)		(13,634,175)		(49,275)	(314,502,515)			
e. Contributions - Employer		(257,905,586)		(11,689,168)		(42,246)	(269,637,000)			
f. Contributions - Employee		(44,289,394)		(2,007,351)		(7,255)	(46,304,000)			
g. Net Investment Income		(389,176,411)		(17,638,840)		(63,749)	(406,879,000)			
h. Benefit Payments		0		0		0	0			
i. Administrative Expenses		16,601,828		752,453		2,719	17,357,000			
j. Payment of Interest on TDA Fixed Funds		135,530,100		6,142,700		22,200	141,695,000			
k. Other Changes		(34,074,063)		(1,544,356)		(5,581)	(35,624,000)			
l. Net Changes	\$	(217,266,766)	\$	(9,847,273)	\$	(35,590) \$	(227,149,629)			
13. SubTotal	\$	262,547,407	\$	11,581,867	\$	104,797 \$	274,234,071			
14. Changes in Proportionate Share	\$	(244,777)	\$	306,608	\$	(61,831) \$	0			
15. Balances at June 30, 2019	\$	262,302,630	\$	11,888,475	\$	42,966 \$	274,234,071			

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Employer Allocations June 30, 2020

Employer	(	2020 Employer Contributions	Employer Allocation Percentage
Department of Education (DOE)	\$	245,646,817	95.3955451323%
School Construction Authority (SCA)		11,720,440	4.5515662553%
Charter Schools		136,190	0.0528886124%
Total	\$	257,503,447	100.00000000%

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source - By Obligor Balances as of June 30, 2020

	Total Pension Liability							
		DOE	<u>SCA</u>	Charter Schools	TOTAL			
1. Balances at June 30, 2019	\$	5,036,948,804 \$	228,292,193 \$	825,074 \$	5,266,066,071			
2. Changes for the Year:								
a. Service Cost		159,112,073	7,591,645	88,214	166,791,932			
b. Interest		352,871,940	16,836,426	195,637	369,904,003			
c. Changes of Benefit Terms		0	0	0	0			
d. Differences b/t Expected and Actual Experience		(44,429,820)	(2,119,861)	(24,633)	(46,574,314)			
e. Changes of Assumptions		0	0	0	0			
f. Benefit Payments		(282,415,650)	(13,474,775)	(156,575)	(296,047,000)			
g. Net Changes	\$	185,138,543 \$	8,833,435 \$	102,643 \$	194,074,621			
3. SubTotal	\$	5,222,087,347 \$	237,125,628 \$	927,717 \$	5,460,140,692			
4. Changes in Proportionate Share	\$	(13,356,369) \$	11,396,293 \$	1,960,076 \$	0			
5. Balances at June 30, 2020	\$	5,208,730,978 \$	248,521,921 \$	2,887,793 \$	5,460,140,692			

	Plan Fiduciary Net Position									
		DOE	SCA	Charter Schools	TOTAL					
6. Balances at June 30, 2019	\$	4,774,646,174 \$	216,403,718 \$	782,108 \$	4,991,832,000					
7. Changes for the Year:										
a. Contributions - Employer		245,646,370	11,720,440	136,190	257,503,000					
b. Contributions - Employee		47,474,547	2,265,132	26,321	49,766,000					
c. Net Investment Income		348,925,424	16,648,127	193,449	365,767,000					
d. Benefit Payments		(282,415,650)	(13,474,775)	(156,575)	(296,047,000)					
e. Administrative Expenses		(21,184,489)	(1,010,766)	(11,745)	(22,207,000)					
f. Payment of Interest on TDA Fixed Funds		(148,577,608)	(7,089,019)	(82,373)	(155,749,000)					
g. Other Changes		(7,607,795)	(362,987)	(4,218)	(7,975,000)					
h. Net Changes	\$	182,260,799 \$	8,696,152 \$	101,049 \$	191,058,000					
8. SubTotal	\$	4,956,906,973 \$	225,099,870 \$	883,157 \$	5,182,890,000					
9. Changes in Proportionate Share	\$	(12,660,804) \$	10,802,802 \$	1,858,002 \$	0					
10. Balances at June 30, 2020	\$	4,944,246,169 \$	235,902,672 \$	2,741,159 \$	5,182,890,000					

	Net Pension Liablility									
		DOE		SCA		Charter Schools		TOTAL		
11. Balances at June 30, 2019	\$	262,302,630	\$	11,888,475	\$	42,966	\$	274,234,071		
12. Changes for the Year:										
a. Service Cost		159,112,073		7,591,645		88,214		166,791,932		
b. Interest		352,871,940		16,836,426		195,637		369,904,003		
<ul> <li>c. Changes of Benefit Terms</li> </ul>		0		0		0		0		
c. Differences b/t Expected and Actual Experience		(44,429,820)		(2,119,861)		(24,633)		(46,574,314)		
d. Changes of Assumptions		0		0		0		0		
e. Contributions - Employer		(245,646,370)		(11,720,440)		(136,190)		(257,503,000)		
f. Contributions - Employee		(47,474,547)		(2,265,132)		(26,321)		(49,766,000)		
g. Net Investment Income		(348,925,424)		(16,648,127)		(193,449)		(365,767,000)		
h. Benefit Payments		0		0		0		0		
i. Administrative Expenses		21,184,489		1,010,766		11,745		22,207,000		
j. Payment of Interest on TDA Fixed Funds		148,577,608		7,089,019		82,373		155,749,000		
k. Other Changes		7,607,795		362,987		4,218		7,975,000		
l. Net Changes	\$	2,877,744	\$	137,283	\$	1,594	\$	3,016,621		
13. SubTotal	\$	265,180,374	\$	12,025,758	\$	44,560	\$	277,250,692		
14. Changes in Proportionate Share	\$	(695,565)	\$	593,491	\$	102,074	\$	0		
15. Balances at June 30, 2020	\$	264,484,809	\$	12,619,249	\$	146,634	\$	277,250,692		

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Changes in Net Pension Liability and Related Ratios

	<u>2020</u>	<u>2019</u>	<u>2018</u>	2017	2016	2015	<u>2014</u>	<u>2013</u>
1. Total Pension Liability								
a. Service Cost	\$ 166,791,932 \$	168,500,759 \$	176,109,730 \$	168,625,048 \$	153,106,995 \$	147,898,591 \$	142,686,386 \$	138,530,472
b. Interest	369,904,003	366,084,041	350,999,332	346,508,926	320,315,152	299,591,999	288,162,040	271,737,317
c. Changes of Benefit Terms	0	0	0	0	0	0	0	0
<ul> <li>Differences b/t Expected and Actual Experience</li> </ul>	(46,574,314)	152,160,086	(164,586,983)	19,938,359	(75,906,864)	50,147,724	0	0
e. Changes of Assumptions	0	(314,502,515)	0	0	183,677,129	0	0	0
f. Benefit Payments	 (296,047,000)	(280,463,000)	(261,574,000)	(262,432,000)	(240,727,000)	(223,244,000)	(214,315,000)	(204,093,000)
g. Net Changes in Total Pension Liability	\$ 194,074,621 \$	91,779,371 \$	100,948,079 \$	272,640,333 \$	340,465,412 \$	274,394,314 \$	216,533,426 \$	206,174,789
2. Total Pension Liability - Beginning	\$ 5,266,066,071 \$	5,174,286,700 \$	5,073,338,621 \$	4,800,698,288 \$	4,460,232,876 \$	4,185,838,562 \$	3,969,305,136 \$	3,763,130,347
3. Total Pension Liability - Ending	\$ 5,460,140,692 \$	5,266,066,071 \$	5,174,286,700 \$	5,073,338,621 \$	4,800,698,288 \$	4,460,232,876 \$	4,185,838,562 \$	3,969,305,136
4. Plan Fiduciary Net Position								
<ul> <li>Contributions - Employer</li> </ul>	\$ 257,503,000 \$	269,637,000 \$	318,643,000 \$	288,233,000 \$	265,532,000 \$	258,099,000 \$	214,590,000 \$	196,246,000
<ul> <li>b. Contributions - Employee</li> </ul>	49,766,000	46,304,000	40,846,000	39,821,000	38,581,000	39,564,000	37,193,000	39,056,000
c. Net Investment Income	365,767,000	406,879,000	565,577,000	862,510,000	164,144,000	177,166,000	875,453,000	660,827,000
d. Benefit Payments	(296,047,000)	(280,463,000)	(261,574,000)	(262,432,000)	(240,727,000)	(223,244,000)	(214,315,000)	(204,093,000)
e. Administrative Expenses	(22,207,000)	(17,357,000)	(13,212,000)	(15,486,000)	(12,818,000)	(10,956,000)	(9,776,000)	(8,927,000)
f. Payment of Interest on TDA Fixed Funds	(155,749,000)	(141,695,000)	(127,972,000)	(106,554,000)	(94,789,000)	(85,104,000)	(206,615,000)	(163,756,000)
g. Other Changes	 (7,975,000)	35,624,000	51,024,000	(122,954,000)	(157,499,000)	(52,021,000)	(70,916,000)	(176,301,000)
h. Net Changes in Fiduciary Net Position	\$ 191,058,000 \$	318,929,000 \$	573,332,000 \$	683,138,000 \$	(37,576,000) \$	103,504,000 \$	625,614,000 \$	343,052,000
5. Plan Fiduciary Net Position - Beginning	\$ 4,991,832,000 \$	4,672,903,000 \$	4,099,571,000 \$	3,416,433,000 \$	3,454,009,000 \$	3,350,505,000 \$	2,653,651,000 \$	2,310,599,000
6. Plan Fiduciary Net Position - Ending	\$ 5,182,890,000 \$	4,991,832,000 \$	4,672,903,000 \$	4,099,571,000 \$	3,416,433,000 \$	3,454,009,000 \$	3,279,265,000 \$	2,653,651,000
7. BERS' Net Pension Liability	\$ 277,250,692 \$	274,234,071 \$	501,383,700 \$	973,767,621 \$	1,384,265,288 \$	1,006,223,876 \$	906,573,562 \$	1,315,654,136
8. Plan Fiduciary Net Position as a Percentage of Total Pension Liability	94.9%	94.8%	90.3%	80.8%	71.2%	77.4%	78.3%	66.9%
9. Covered Employee Payroll <sup>1</sup>	\$ 1,353,266,355 \$	1,264,079,158 \$	1,102,183,933 \$	1,052,171,260 \$	1,008,055,944 \$	1,016,822,150 \$	989,160,097 \$	886,178,191
10. BERS' Net Pension Liability as a Percentage of Covered Employee Payroll	20.5%	21.7%	45.5%	92.5%	137.3%	99.0%	91.7%	148.5%

<sup>1</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Employer Contributions (\$ in thousands)

Fiscal Year Ending June 30	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Actuarially Determined Contribution	\$ 257,503	\$ 269,637	\$ 318,643	\$ 288,233 \$	265,532 \$	258,099 \$	214,590 \$	196,246 \$	213,651 \$	180,191
Contributions in relation to the Actuarially Determined Contribution	<u>\$ 257,503</u>	<u>\$ 269,637</u>	<u>\$ 318,643</u>	<u>\$ 288,233</u> <u>\$</u>	<u>265,532</u> <u>\$</u>	258,099 \$	214,590 \$	<u> 196,246</u> <u>\$</u>	213,651 \$	180,191
Contribution Deficency (Excess)	0	0	0	0	0	0	0	0	0	0
Contributions as a percentage of Covered Employee Payroll <sup>1</sup>	19.028%	21.331%	28.910%	27.394%	26.341%	25.383%	21.694%	22.145%	24.293%	20.461%

<sup>1</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# **Average Expected Remaining Service Lives**

		Average Expected
		Remaining Service Life
Group	Count	<u>@ 6/30/2019</u>
Active	25,825	11.93
Active Off Payroll	11,422	0
Term Vested	2,019	0
Retired	<u>18,502</u>	<u>0</u>
Total	57,768	5.33

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# NEW YORK CITY BOARD OF EDUCATION RETIREMENT SYSTEM (BERS)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Experience

	ł	Differences between Expected and Actual	Recognition Period							
Year		Experience	(Years)	2019	2020	2021	2022	2023	2024	2025
2016	\$	(75,906,864)	3.19	 (4,521,099)	0	0	0	0	0	0
2017	\$	19,938,359	5.17	3,856,549	3,856,549	3,856,549	655,614	0	0	0
2018	\$	(164,586,983)	5.85	(28,134,527)	(28,134,527)	(28,134,527)	(28,134,527)	(23,914,348)	0	0
2019	\$	152,160,086	5.92	25,702,717	25,702,717	25,702,717	25,702,717	25,702,717	23,646,501	0
2020	\$	(46,574,314)	5.33		(8,738,145)	(8,738,145)	(8,738,145)	(8,738,145)	(8,738,145)	(2,883,589)
t increase	(dec	crease) in Pension Exp	ense	\$ (3,096,360) \$	(7,313,406) \$	(7,313,406) \$	(10,514,341) \$	(6,949,776) \$	14,908,356 \$	(2,883,589)

Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Increase (Decrease) in Pension Expense Arising from the Recognition of Changes in Assumptions

Year		Changes in Assumptions	Recognition Period (Years)	2019	2020	2021	2022	2023	2024
2016	\$	183,677,129	3.19	 10,940,018					
2017									
2018									
2019	\$	(314,502,515)	5.92	(53,125,425)	(53,125,425)	(53,125,425)	(53,125,425)	(53,125,425)	(48,875,390)
2020									
Net increase	(deci	rease) in Pension Exp	pense	\$ (42,185,407) \$	(53,125,425) \$	(53,125,425) \$	(53,125,425) \$	(53,125,425) \$	(48,875,390)

Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Pension Plan Investments

Year		Differences tween Projected and Actual Earnings on Pension Plan Investments	Recognition Period (Years)	2019	2020	2021	2022	2023	2024
2015	\$	54,021,526	5	 10,804,306					
2016	\$	67,373,543	5	13,474,709	13,474,707				
2017	\$	(624,753,917)	5	(124,950,783)	(124,950,783)	(124,950,785)			
2018	\$	(275,816,841)	5	(55,163,368)	(55,163,368)	(55,163,368)	(55,163,369)		
2019	\$	(82,598,745)	5	(16,519,749)	(16,519,749)	(16,519,749)	(16,519,749)	(16,519,749)	
2020	\$	(24,957,418)	5		(4,991,484)	(4,991,484)	(4,991,484)	(4,991,484)	(4,991,482)
Net increase	(dec	rease) in Pension E	xpense	\$ (172,354,885) \$	(188,150,677) \$	(201,625,386) \$	(76,674,602) \$	(21,511,233) \$	(4,991,482)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Department of	(1)	(2)	(3)	(3)-(2)					
Education	Collective Amount	Proportionate Share at 6/30/2015	Proportionate Share at 6/30/2016	Change in Proportionate	Recognition Period		0	in Pension Expe r Ending June 3	
	at 6/30/2015	96.5724%	96.8080%	Share	(Years)	2016	2017	2018	2019
Deferred Outflows of Resources	(78,168,665)	(75,489,357)	(75,673,522)	(184,165)	3.19	(57,732)	(57,732)	(57,732)	(10,969)
Deferred Inflows of Resources	617,120,991	595,968,552	597,422,488	1,453,936	3.19	455,779	455,779	455,779	86,599
Net Pension Liability	1,006,223,876	971,734,546	974,105,211	2,370,665	3.19	743,155	743,155	743,155	141,200
Total	1,545,176,202	1,492,213,741	1,495,854,177	3,640,436		1,141,202	1,141,202	1,141,202	216,830
School Construction Authority	(1)	(2) Proportionate	(3) Proportionate	(3)-(2)					
	Collective Amount at 6/30/2015	Share at 6/30/2015 3.4105%	Share at 6/30/2016 3.1787%	Change in Proportionate Share	Recognition Period (Years)			in Pension Expe Ending June 3 2018	
Deferred Outflows of Resources	(78,168,665)	(2,665,942)	(2,484,747)	181,195	3.19	56,801	56,801	56,801	10,792
Deferred Inflows									
of Resources	617,120,991	21,046,911	19,616,425	(1,430,486)	3.19	(448,428)	(448,428)	(448,428)	(85,202)
Net Pension Liability	1,006,223,876	34,317,265	31,984,838	(2,332,427)	3.19	(731,168)	(731,168)	(731,168)	(138,923)
Total	1,545,176,202	52,698,234	49,116,516	(3,581,718)		(1,122,795)	(1,122,795)	(1,122,795)	(213,333)
Charter Schools	(1)	(2) Proportionate	(3) Proportionate	(3)-(2)					
	Collective Amount	Share at 6/30/2015	Share at 6/30/2016	Change in Proportionate	Recognition Period	Amount to Recognize in Pension Expense For the Fiscal Year Ending June 30			0
Deferred Outflows of Resources	at 6/30/2015 (78,168,665)	0.0171% (13,366)	<b>0.0133%</b> (10,396)	<u>Share</u> 2,970	(Years) 3.19	<b>2016</b> 931	<b>2017</b> 931	<b>2018</b> 931	<b>2019</b> 177
Deferred Inflows									
of Resources	617,120,991	105,528	82,078	(23,450)	3.19	(7,351)	(7,351)	(7,351)	(1,397)
Net Pension Liability	1,006,223,876	172,065	133,827	(38,238)	3.19	(11,987)	(11,987)	(11,987)	(2,277)
Total	1,545,176,202	264,227	205,509	(58,718)		(18,407)	(18,407)	(18,407)	(3,497)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Department of Education	(1)	(2) Proportionate	(3) Proportionate	(3)-(2)							
	Collective Amount	Share at 6/30/2016	Share at 6/30/2017	Change in Proportionate	Recognition Period			to Recognize in he Fiscal Year I			
-	at 6/30/2016	96.8080%	95.2749%	Share	(Years)	2017	2018	2019	2020	2021	2022
Deferred Outflows of Resources	(232,165,006)	(224,754,299)	(221,194,978)	3,559,321	5.17	688,456	688,456	688,456	688,456	688,456	117,041
Deferred Inflows of Resources	429,833,123	416,112,850	409,523,077	(6,589,773)	5.17	(1,274,618)	(1,274,618)	(1,274,618)	(1,274,618)	(1,274,618)	(216,683)
Net Pension Liability	1,384,265,288	1,340,079,540	1,318,857,369	(21,222,171)	5.17	(4,104,869)	(4,104,869)	(4,104,869)	(4,104,869)	(4,104,869)	(697,826)
Total	1,581,933,405	1,531,438,091	1,507,185,468	(24,252,623)		(4,691,031)	(4,691,031)	(4,691,031)	(4,691,031)	(4,691,031)	(797,468)
School Construction Authority	(1)	(2) Proportionate	(3) Proportionate	(3)-(2)							
	Collective Amount	Share at 6/30/2016	Share at 6/30/2017	Change in Proportionate	Recognition Period		For the	to Recognize ir he Fiscal Year I	Ending June 30	)	
- IO (7	at 6/30/2016	3.1787%	4.6845%	Share	(Years)	2017	2018	2019	2020	2021	2022
Deferred Outflows of Resources	(232,165,006)	(7,379,829)	(10,875,770)	(3,495,941)	5.17	(676,197)	(676,197)	(676,197)	(676,197)	(676,197)	(114,956)
Deferred Inflows											
of Resources	429,833,123	13,663,105	20,135,533	6,472,428	5.17	1,251,920	1,251,920	1,251,920	1,251,920	1,251,920	212,828
Net Pension Liability	1,384,265,288	44,001,641	64,845,907	20,844,266	5.17	4,031,773	4,031,773	4,031,773	4,031,773	4,031,773	685,401
Total	1,581,933,405	50,284,917	74,105,670	23,820,753		4,607,496	4,607,496	4,607,496	4,607,496	4,607,496	783,273
Charter Schools	(1)	(2)	(3)	(3)-(2)							
	Collective Amount	Proportionate Share at 6/30/2016	Proportionate Share at 6/30/2017	Change in Proportionate	Recognition Period		For the	to Recognize ir he Fiscal Year I		)	
-	at 6/30/2016	0.0133%	0.0406%	Share	(Years)	2017	2018	2019	2020	2021	2022
Deferred Outflows of Resources	(232,165,006)	(30,878)	(94,258)	(63,380)	5.17	(12,259)	(12,259)	(12,259)	(12,259)	(12,259)	(2,085)
Deferred Inflows of Resources	429,833,123	57,168	174,513	117,345	5.17	22,698	22,698	22,698	22,698	22,698	3,855
Net Pension Liability	1,384,265,288	184,107	562,012	377,905	5.17	73,096	73,096	73,096	73,096	73,096	12,425
Total	1,581,933,405	210,397	642,267	431,870		83,535	83,535	83,535	83,535	83,535	14,195

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Department of Education	(1)	(2) Proportionate	(3) Proportionate	(3)-(2)							
	Collective Amount	Share at 6/30/2017	Share at 6/30/2018	Change in Proportionate	Recognition Period			to Recognize in e Fiscal Year E			
	at 6/30/2017	95.2799%	95.698%	Share	(Years)	2018	2019	2020	2021	2022	2023
Deferred Outflows of Resources	(89,159,749)	(84,951,320)	(85,324,096)	(372,776)	5.85	(63,722)	(63,722)	(63,722)	(63,722)	(63,722)	(54,166)
Deferred Inflows of Resources	604,408,790	575,880,090	578,407,124	2,527,034	5.85	431,971	431,971	431,971	431,971	431,971	367,179
Net Pension Liability	973,767,621	927,804,816	931,876,138	4,071,322	5.85	695,953	695,953	695,953	695,953	695,953	591,557
Total	1,489,016,662	1,418,733,586	1,424,959,166	6,225,580		1,064,202	1,064,202	1,064,202	1,064,202	1,064,202	904,570
School Construction Authority	(1)	(2) Proportionate	(3) Proportionate	(3)-(2)							
·	Collective Amount	Share at 6/30/2017	Share at 6/30/2018	Change in Proportionate	Recognition Period			to Recognize in e Fiscal Year E	-		
_	at 6/30/2017	4.6845%	4.274%	Share	(Years)	2018	2019	2020	2021	2022	2023
Deferred Outflows of Resources	(89,159,749)	(4,176,688)	(3,810,688)	366,000	5.85	62,564	62,564	62,564	62,564	62,564	53,180
Deferred Inflows											
of Resources	604,408,790	28,313,530	25,832,432	(2,481,098)	5.85	(424,119)	(424,119)	(424,119)	(424,119)	(424,119)	(360,503)
Net Pension Liability	973,767,621	45,616,144	41,618,828	(3,997,316)	5.85	(683,302)	(683,302)	(683,302)	(683,302)	(683,302)	(580,806)
Total	1,489,016,662	69,752,986	63,640,572	(6,112,414)		(1,044,857)	(1,044,857)	(1,044,857)	(1,044,857)	(1,044,857)	(888,129)
Charter Schools	(1)	(2)	(3)	(3)-(2)							
	Collective Amount	Proportionate Share at 6/30/2017	Proportionate Share at 6/30/2018	Change in Proportionate	Recognition Period			to Recognize in e Fiscal Year E			
-	at 6/30/2017	0.0356%	0.028%	Share	(Years)	2018	2019	2020	2021	2022	2023
Deferred Outflows of Resources	(89,159,749)	(31,741)	(24,965)	6,776	5.85	1,158	1,158	1,158	1,158	1,158	986
Deferred Inflows of Resources	604,408,790	215,170	169,234	(45,936)	5.85	(7,852)	(7,852)	(7,852)	(7,852)	(7,852)	(6,676)
Net Pension Liability	973,767,621	346,661	272,655	(74,006)	5.85	(12,651)	(12,651)	(12,651)	(12,651)	(12,651)	(10,751)
Total	1,489,016,662	530,090	416,924	(113,166)		(19,345)	(19,345)	(19,345)	(19,345)	(19,345)	(16,441)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(4) Contributions in excess of Proportionate	(3)-(2)+(4) Change in	Recognition		Amount to	o Recognize in l	Pension Expens	ie .	
Amount	at 6/30/2018	at 6/30/2019	Share and Adjustments	Proportionate	Period	2010	For the	Fiscal Year Er	ding June 30		2024
at 0/30/2018	95.09876	93.04976	Due to Kounding	Share	(rears)	2019	2020	2021	2022	2023	2024
(23,165,279)	(22,168,709)	(22,157,399)		11,310	5.92	1,910	1,910	1,910	1,910	1,910	1,760
698,725,657	668,666,479	668,325,333		(341,146)	5.92	(57,626)	(57,626)	(57,626)	(57,626)	(57,626)	(53,016)
501,383,700	479,814,173	479,569,377	19	(244,777)	5.92	(41,348)	(41,348)	(41,348)	(41,348)	(41,348)	(38,037)
1,176,944,078	1,126,311,943	1,125,737,311	19	(574,613)		(97,064)	(97,064)	(97,064)	(97,064)	(97,064)	(89,293)
(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3)-(2)+(4)	<b>D</b> 111			n			
Amount	at 6/30/2018	at 6/30/2019	Share and Adjustments	Proportionate	Period	2019	For the	Fiscal Year Er	ding June 30		2024
(23,165,279)	(990,084)	(1,004,251)		(14,167)	5.92	(2,393)	(2,393)	(2,393)	(2,393)	(2,393)	(2,202)
698,725,657	29,863,535	30,290,849		427,314	5.92	72,181	72,181	72,181	72,181	72,181	66,409
501,383,700	21,429,140	21,735,767	(19)	306,608	5.92	51,792	51,792	51,792	51,792	51,792	47,648
1,176,944,078	50,302,591	51,022,365	(19)	719,755		121,580	121,580	121,580	121,580	121,580	111,855
(1)	(2) Proportionate	(3) Proportionate	(4) Contributions in excess	(3)-(2)+(4)							
Collective Amount	Share at 6/30/2018	Share at 6/30/2019	of Proportionate Share and Adjustments	Change in Proportionate	Recognition Period		For the	Fiscal Year Er	ding June 30		
at 6/30/2018 (23,165,279)	0.028% (6,486)	0.016%	Due to Rounding		(Years) 5.92	<b>2019</b> 483	<b>2020</b> 483	<b>2021</b> 483	<b>2022</b> 483	<b>2023</b> 483	<b>2024</b> 442
698,725,657	195,643	109,475		(86,168)	5.92	(14,555)	(14,555)	(14,555)	(14,555)	(14,555)	(13,393)
501,383,700	140,387	78,556	0	(61,831)	5.92	(10,444)	(10,444)	(10,444)	(10,444)	(10,444)	(9,611)
	Collective Amount at 6/30/2018 (23,165,279) 698,725,657 501,383,700 1,176,944,078 (1) Collective Amount at 6/30/2018 (23,165,279) 698,725,657 501,383,700 1,176,944,078 (1) Collective Amount at 6/30/2018	Proportionate Share at 6/30/2018         Proportionate Share at 6/30/2018           2010         95.08%           (23,165,279)         (22,168,709)           698,725,657         668,666,479           501,383,700         479,814,173           1,176,944,078         1,126,311,943           (1)         (2)           Collective Amount at 6/30/2018         970,97100000           (23,165,279)         (990,084)           698,725,657         29,863,535           501,383,700         21,429,140           1,176,944,078         50,302,591           (1)         (2)           Proportionate Share at 6/30/2018         50,302,591           (1)         (2)           Proportionate Share at 6/30/2018         50,302,591           (1)         (2)           Proportionate Share at 6/30/2018         9,2084,000           at 6/30/2018         0,028%           (23,165,279)         (6,486)           698,725,657         195,643	Proportionate Amount         Proportionate Share at 6/30/2018         Proportionate Share at 6/30/2019         Proportionate at 6/30/2019           (23,165,279)         (22,168,709)         (22,157,399)           698,725,657         668,666,479         668,325,333           501,383,700         479,814,173         479,569,377           1,176,944,078         1,126,311,943         1,125,737,311           (1)         (2)         (3)           Proportionate Amount at 6/30/2018         Share at 6/30/2018         Share at 6/30/2018           (23,165,279)         (990,084)         (1,004,251)           698,725,657         29,863,535         30,290,849           501,383,700         21,429,140         21,735,767           1,176,944,078         50,302,591         51,022,365           (1)         (2)         (3)           Proportionate Share at 6/30/2018         Share at 6/30/2019           (1)         (2)         (3)           (23,165,279)         (6,486)         (3,629)           (23,165,279)         (6,486)         (3,629)           (23,165,279)         (6,486)         (3,629)           698,725,657         195,643         109,475	Proportionate Amount at 6/30/2018         Proportionate Share at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share and Adjustments Due to Rounding           (23,165,279)         (22,168,709)         (22,157,399)         Due to Rounding           698,725,657         668,666,479         668,325,333         Due to Rounding           501,383,700         479,814,173         479,569,377         19           1,176,944,078         1,126,311,943         1,125,737,311         19           (1)         (2)         (3)         (4)           Collective Amount at 6/30/2018         Share at 6/30/2018         Contributions in excess of Proportionate Share at 6/30/2019         Ontributions in excess of Proportionate Share and Adjustments Due to Rounding           (23,165,279)         (990,084)         (1,004,251)         Ontributions in excess of Proportionate Share at 6/30/2018         30,290,849           (1)         (2)         (3)         (4)           (1)         (2)         (3)         (4)           Collective Amount at 6/30/2018         Proportionate Share at 6/30/2019         Share at Adjustments Due to Rounding           (1)         (2)         (3)         (4)           Collective Amount at 6/30/2018         Share at 6/30/2019         Share and Adjustments Due to Rounding	Proportionate Amount         Proportionate share at 6/30/2018         Proportionate share at 6/30/2019         Contributions in excess of Proportionate Share and Adjustments         Change in Proportionate Share           (23,165,279)         (22,168,709)         (22,157,399)         11,310           698,725,657         668,666,479         668,325,333         (341,146)           501,383,700         479,814,173         479,569,377         19         (24,777)           1,176,944,078         1,126,311,943         1,125,737,311         19         (574,613)           (1)         (2)         (3)         (4)         (3-(2)+(4)           Collective Amount at 6/30/2018         Proportionate Share at 6/30/2019         Proportionate Share at 6/30/2019         Contributions in excess of Proportionate Share at 6/30/2019         Change in Proportionate Share           (23,165,279)         (990,084)         (1,004,251)         (14,167)           698,725,657         29,863,535         30,290,849         427,314           501,383,700         21,429,140         21,735,767         (19)         306,608           1,176,944,078         50,302,591         51,022,365         (19)         719,755           (1)         (2)         (3)         (4)         (3-(2)+(4)           Collective Amount         Share Shar	Proportionate Amount         Proportionate share at 6/30/2018         Proportionate share at 6/30/2019         Contributions in excess of Proportionate Share and Adjustments Due to Rounding         Charge in Proportionate Share         Recognition (Years)           (23,165,279)         (22,168,709)         (22,157,399)         11,310         5.92           698,725,657         668,666,479         668,325,333         (341,146)         5.92           501,383,700         479,814,173         479,569,377         19         (244,777)         5.92           1,176,944,078         1,126,311,943         1,125,737,311         19         (3)-(2)+(4)         Contributions in excess of Proportionate Share         Charge in Proportionate Share         Recognition Period           (1)         (2)         (3)         (4)         (3)-(2)+(4)         Contributions in excess of Proportionate Share         Charge in Proportionate Share         Recognition Period           (23,165,279)         (990,084)         (1,004,251)         (14,167)         5.92           (3,165,279)         (990,084)         (1,004,251)         (14,167)         5.92           (1,176,944,078)         50,302,591         51,022,365         (19)         719,755           (1)         (2)         (3)         (4)         (3)-(2)+(4)           (1,176,944,078)	Proportionate Amount at 630/2018         Proportionate share at 630/2018         Proportionate share at 630/2018         Contributions in excess of Proportionate Share and Adjustments Due to Rounding         Change in Proportionate Share         Recognition (Years)         2019           (23,165,279)         (22,168,709)         (22,157,399)         11,310         5.92         1,910           698,725,657         668,666,479         668,325,333         (341,146)         5.92         (57,626)           501,383,700         479,814,173         479,569,377         19         (244,777)         5.92         (41,348)           1,176,944,078         1,126,311,943         1,125,737,311         19         (3/42)+(4)         (97,064)           (1)         (2)         (3)         (4)         (0)/(2+(4))         (Proportionate Share at 6/30/2018         Contributions in excess of Proportionate Share and Adjustments         Proportionate Share and Adjustments         Proportionate Share at 6/30/2018         Change in Proportionate Share         Recognition Preriod           (23,165,279)         (990,084)         (1,004,251)         Cutributions in excess of Proportionate Share         Contributions in excess of Proportionate Share         Contributions in excess of Proportionate Share         Share         72,181           (1)         (2)         (3)         (4)         Contributions in excess of Prop	Proportionate Manual at 630/2018         Proportionate Share at 630/2018         Contributions in excess of Proportionate Share ad Adjustments Due to Rounding         Contributions in excess of Proportionate Share ad Adjustments Due to Rounding         Contributions in excess of Proportionate Share         Contributions in excess of Proportionate Share         Contributions in excess of Proportionate         Contributions Previd         Recognition Previd         Amount to Previd           (23,165,279)         (22,168,709)         (22,157,399)         11,310         5.92         1,910         1,910           698,725,657         668,666,479         668,325,333         (341,146)         5.92         (57,626)         (57,626)           501,383,700         479,814,173         479,569,377         19         (24,777)         5.92         (41,348)         (41,348)           (1)         (2)         (3)         (4)         (3)-(2)+(4)         (41,448)         (41,348)           (23,165,279)         (990,084)         (1,004,251)         (14,167)         5.92         (2,393)         (2,393)           698,725,657         29,863,535         30,290,849         427,314         5.92         51,792         51,792           (1)         (2)         (3)         (4)         (3)-(2)+(4)         (2,158)         121,580         121,580	Proportionate Amount         Proportionate share at 630/2018         Proportionate share at 630/2019         Contributions in excess of Proportionate Share and Adjustments         Change in Proportionate Share         Recognition Period         Amount to Recognize in 1 For the Fiscal Year Er           (23,165,279)         (22,168,709)         (22,157,399)         (22,157,399)         (22,157,399)         11,310         5.92         1,910         1,910         1,910           698,725,657         668,666,479         668,325,333         (341,146)         5.92         (57,626)         (57,626)         (57,626)         (57,626)           501,383,700         479,814,173         479,569,377         19         (244,777)         5.92         (41,348)         (41,348)           (1,176,944,078         1,126,311,943         1,125,737,311         19         (574,613)         (97,064)         (97,064)         (97,064)           (1)         (2)         (3)         (4)         (3)         (1,41,67)         5.92         (2,393)         (2,393)         (2,393)           (23,165,279)         (990,084)         (1,004,251)         Contributions in excess of Proportionate Share and Adjustments         Proportionate Share and Adjustments         Recognition Proportionate         Recognition Period         Proportionate         Share           (10,10,42,57)		Proportionate Amount         Proportionate st 630/2018         Contributions in scress of 630/2019         Amount to Recognition Period         Amount to Recognition (Years)         Amount to Recog

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Department of Education	(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(4) Contributions in excess of Proportionate	(3)-(2)+(4) Change in	Recognition		Amount t	o Recognize in	Pension Expen	se	
	Amount at 6/30/2019	at 6/30/2019 95.649%	at 6/30/2020 95.396%	Share and Adjustments Due to Rounding	Proportionate Share	Period (Years)	2020	For the 2021	e Fiscal Year E 2022	nding June 30 2023	2024	2025
Deferred Outflows of Resources	(134,826,081)	(128,960,036)	(128,618,075)	g	341,961	5.33	64,157	64,157	64,157	64,157	64,157	21,176
Deferred Inflows of Resources	837,690,981	801,244,521	799,119,878		(2,124,643)	5.33	(398,619)	(398,619)	(398,619)	(398,619)	(398,619)	(131,548)
Net Pension Liability	274,234,071	262,302,628	261,607,087	(24)	(695,565)	5.33	(130,500)	(130,500)	(130,500)	(130,500)	(130,500)	(43,065)
Total	977,098,971	934,587,113	932,108,890	(24)	(2,478,247)		(464,962)	(464,962)	(464,962)	(464,962)	(464,962)	(153,437)
School Construction Authority	(1) Collective	(2) Proportionate Share	(3) Proportionate Share	(4) Contributions in excess of Proportionate	(3)-(2)+(4) Change in	Recognition		Amount t	o Recognize in	Pension Expen	se	
	Amount at 6/30/2019	at 6/30/2019 4.335%	at 6/30/2020 4.552%	Share and Adjustments Due to Rounding	Proportionate Share	Period (Years)	2020	For the 2021	e Fiscal Year E 2022	nding June 30 2023	2024	2025
Deferred Outflows of Resources	(134,826,081)	(5,844,921)	(6,136,698)		(291,777)	5.33	(54,742)	(54,742)	(54,742)	(54,742)	(54,742)	(18,067)
Deferred Inflows of Resources	837,690,981	36,315,213	38,128,060		1,812,847	5.33	340,121	340,121	340,121	340,121	340,121	112,242
Net Pension Liability	274,234,071	11,888,477	12,481,945	23	593,491	5.33	111,349	111,349	111,349	111,349	111,349	36,746
Total	977,098,971	42,358,769	44,473,307	23	2,114,561		396,728	396,728	396,728	396,728	396,728	130,921
Charter Schools	(1)	(2)	(3)	(4)	(3)-(2)+(4)							
	Collective Amount	Proportionate Share at 6/30/2019	Proportionate Share at 6/30/2020	Contributions in excess of Proportionate Share and Adjustments	Change in Proportionate	Recognition Period		For the	o Recognize in e Fiscal Year E	nding June 30		
Deferred Outflows of Resources	at 6/30/2019 (134,826,081)	0.016%	0.053%	Due to Rounding	Share (50,184)	<u>(Years)</u> 5.33	(9,415)	(9,415)	(9,415)	(9,415)	(9,415)	(3,109)
Deferred Inflows of Resources	837,690,981	131,247	443,043		311,796	5.33	58,498	58,498	58,498	58,498	58,498	19,306
Net Pension Liability	274,234,071	42,966	145,039	1	102,074	5.33	19,151	19,151	19,151	19,151	19,151	6,319
Total	977,098,971	153,089	516,774	1	363,686		68,234	68,234	68,234	68,234	68,234	22,516
	,,,,,,,,,,,,	100,007	510,774	1	505,000		00,204	00,201	00,201	00,207	00,204	,

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Components of Pension Expense for the Fiscal Year Ending June 30, 2019 - By Obligor

<u>Component</u>	DOE	<u>SCA</u>	<b>Charter Schools</b>	<u>Total</u>
a. Service Cost	\$ 161,169,588 \$	7,304,771 \$	\$ 26,400 \$	168,500,759
b. Interest on the Total Pension Liability	350,156,369	15,870,315	57,357	366,084,041
c. Differences between Expected and Actual Experience	(2,961,643)	(134,232)	(485)	(3,096,360)
d. Changes of Assumptions	(40,349,994)	(1,828,803)	(6,610)	(42,185,407)
e. Employee Contributions	(44,289,394)	(2,007,351)	(7,255)	(46,304,000)
f. Projected Earnings on Pension Plan Investments	(310,171,392)	(14,058,056)	(50,807)	(324,280,255)
g. Differences between Projected and Actual Earnings on Plan Investments	(164,856,027)	(7,471,854)	(27,004)	(172,354,885)
h. Pension Plan Administrative Expenses	16,601,828	752,453	2,719	17,357,000
i. Payment of Interest on TDA Fixed Funds	135,530,100	6,142,700	22,200	141,695,000
j. Other Changes in Fiduciary Net Position	(34,074,063)	(1,544,356)	(5,581)	(35,624,000)
k. Changes in Proportionate Share	 (3,514,744)	3,470,886	43,858	0
Total Pension Expense	\$ 63,240,628 \$	6,496,473	§ 54,792 \$	69,791,893

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Components of Pension Expense for the Fiscal Year Ending June 30, 2020 - By Obligor

<u>Component</u>	DOE	<u>SCA</u>	<b>Charter Schools</b>	<u>Total</u>
a. Service Cost	\$ 159,112,073 \$	7,591,645 \$	88,214 \$	166,791,932
b. Interest on the Total Pension Liability	352,871,940	16,836,426	195,637	369,904,003
c. Differences between Expected and Actual Experience	(6,976,663)	(332,875)	(3,868)	(7,313,406)
d. Changes of Assumptions	(50,679,289)	(2,418,039)	(28,097)	(53,125,425)
e. Employee Contributions	(47,474,547)	(2,265,132)	(26,321)	(49,766,000)
f. Projected Earnings on Pension Plan Investments	(325,117,159)	(15,512,174)	(180,249)	(340,809,582)
g. Differences between Projected and Actual Earnings on Plan Investments	(179,487,364)	(8,563,803)	(99,510)	(188,150,677)
h. Pension Plan Administrative Expenses	21,184,489	1,010,766	11,745	22,207,000
i. Payment of Interest on TDA Fixed Funds	148,577,608	7,089,019	82,373	155,749,000
j. Other Changes in Fiduciary Net Position	7,607,795	362,987	4,218	7,975,000
k. Changes in Proportionate Share	 (4,195,892)	4,080,947	114,945	0
Total Pension Expense	\$ 75,422,991 \$	7,879,767 \$	159,087 \$	83,461,845

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

	Fiscal Year Ending June 30, 2015		Fiscal Year Ending June 30, 2016		Fiscal Year Ending June 30, 2017		Fiscal Year Ending June 30, 2018		Fiscal Year Ending June 30, 2019		Fiscal Year June 30,	
Recognized Pension Expense	\$111,421,172		\$302,289,203		\$195,316,257		\$6,570,416		\$69,791,893		\$83,461,845	
Deferred Resources	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows
Differences Between Expected and Actual Experience	34,951,444	0	0	52,111,609	16,081,810	0	0	136,452,456	126,457,369	0	0	37,836,169
Chages of Assumptions	0	0	126,098,092	0	0	0	0	0	0	261,377,090	0	0
Net Difference between Projected and Actual Earnings on Pension Plan Investments	43,217,221	0	53,898,834	0	0	499,803,134	0	220,653,473	0	66,078,996	0	19,965,934
Total	78,168,665	0	179,996,926	52,111,609	16,081,810	499,803,134	0	357,105,929	126,457,369	327,456,086	0	57,802,103
Reported amounts will be recognized in Pension Expense during Fiscal Year Ending June 30         S26,000,585           2016         \$26,000,585           2017         \$26,000,585           2018         \$15,363,189           2020         2020           2021         2022           2022         2023           2024         2025		\$47,258 \$47,258 \$47,258 \$19,893 \$13,474	,491 ,491 ,628	16,081,810 499,803,134 (\$121,094,234) (\$121,094,234) (\$121,094,234) (\$121,094,234) (\$121,094,234) (\$121,094,236) \$655,614		(\$83,297,895) (\$83,297,895) (\$83,297,895) (\$83,297,895) (\$83,297,896) (\$23,914,348)		(\$43,94 (\$43,94 (\$43,94 (\$43,94 (\$43,94 (\$43,94 (\$43,94	2,457) 2,457) 2,457) 2,457) 2,457)	(\$13,729 (\$13,729 (\$13,729 (\$13,729 (\$13,729 (\$13,729 (\$2,883	9,629) 9,629) 9,629) 9,629)	

## Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ending June 30, 2020, the Obligors recognized Pension Expense for BERS of \$83,461,845.

# At June 30, 2020, the Obligors reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions for BERS from the following sources:

	0	Deferred Inflows of Resources		
Differences between Expected and Actual Experience	\$	105,266,815	\$	118,019,571
Changes of Assumptions		0		208,251,665
Net Difference between Projected and Actual Earnings on Pension Plan Investments		0		304,802,703
Total	\$	105,266,815	\$	631,073,939

# Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to Pensions for BERS will be recognized in Pension Expense as follows:

<u>Amount</u>
\$ (248,589,508)
\$ (262,064,217)
\$ (140,314,368)
\$ (81,586,434)
\$ (38,958,516)
\$ (2,883,589)
\$ \$ \$ \$

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Pension Amounts by Employer As of and for the year ending June 30, 2019

Entity	:	Net Pension Liability	Differences Between Expected and Actual Experience		Changes of Assumptions		Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Outflows of Resources	
Department of Education	\$	262,302,630	\$	128,960,036	\$	0	\$	0	\$	(7,835,438)	\$	121,124,598
School Construction Authority		11,888,475		5,844,921		0		0	\$	7,811,992		13,656,913
Charter Schools		42,966		21,124		0		0	\$	23,446		44,570
Total	\$	274,234,071	\$	134,826,081	\$	0	\$	0	\$	0	\$	134,826,081

#### Deferred Inflows of Resources

**Deferred Outflows of Resources** 

Entity	Differences Between Expected and Actual Experience	Changes of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Inflows of Resources	
Department of Education	\$ 103,605,207	\$ 250,005,033	\$ 447,634,282	\$ (1,260,262)	\$ 799,984,260	
School Construction Authority	4,695,751	11,331,105	20,288,356	1,238,252	37,553,464	
Charter Schools	16,971	40,952	73,324	22,010	153,257	
Total	\$ 108,317,929	\$ 261,377,090	\$467,995,962	\$ 0	\$ 837,690,981	

		Pension Expense		
Entity	Proportionate Share of Plan Pension Expense	Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Employer Pension Expense	
Department of Education	\$ 66,755,372	\$ (3,514,744)	\$ 63,240,628	
School Construction Authority	3,025,587	3,470,886	6,496,473	
Charter Schools	10,934	43,858	54,792	
Total	\$ 69,791,893	\$ 0	\$ 69,791,893	

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Schedule of Pension Amounts by Employer As of and for the year ending June 30, 2020

Entity	Net Pension Liability	Differences Between Expected and Actual Experience		Changes of Assumptions		Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments		Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions		Total Deferred Outflows of Resources	
Department of Education	\$ 264,484,809	\$	100,419,852	\$	0	\$	0	\$	(5,767,920)	\$	94,651,932
School Construction Authority	12,619,249		4,791,289		0		0	\$	5,466,615		10,257,904
Charter Schools	 146,634		55,674		0		0	\$	301,305		356,979
Total	\$ 277,250,692	\$	105,266,815	\$	0	\$	0	\$	0	\$	105,266,815

#### **Deferred Inflows of Resources**

**Deferred Outflows of Resources** 

Entity	Differences Between Expected and Actual Experience	Changes of Assumptions	Net Difference Between Projected and Actual Investment Earnings on Pension Plan Investments	Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Deferred Inflows of Resources	
Department of Education	\$ 112,585,413	\$ 198,662,811	\$ 290,768,200	\$ (910,389)	\$ 601,106,035	
School Construction Authority	5,371,739	9,478,713	13,873,297	859,261	29,583,010	
Charter Schools	62,419	110,141	161,206	51,128	384,894	
Total	\$ 118,019,571	\$ 208,251,665	\$ 304,802,703	\$ 0	\$ 631,073,939	

Pension	Expense

Entity	Proportionate Share of Plan Pension Expense	Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions	Total Employer Pension Expense		
Department of Education	\$ 79,618,883	\$ (4,195,892)	\$ 75,422,991		
School Construction Authority	3,798,820	4,080,947	7,879,767		
Charter Schools	44,142	114,945	159,087		
Total	\$ 83,461,845	\$ 0	\$ 83,461,845		

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Schedule of Collective Pension Amounts As of and for the year ending June 30, 2020

-	Deferred Outflows of Resources					Deferred Inflows of Resources				
	Differences		Net Difference Between Projected and Actual	Total Deferred Outflows of Resources	Differences		Net Difference Between Projected and Actual	Total Deferred Inflows of Resources		
Net Pension	Between Expected and Actual	Changes of	Investment Earnings on Pension Plan	Excluding Employer Specific	Between Expected and Actual	Changes of	Investment Earnings on Pension Plan	Excluding Employer Specific	Plan Pension	
Liability	Experience	Assumptions	Investments	Amounts	Experience	Assumptions	Investments	Amounts	Expense	
\$ 277,250,692	\$ 105,266,815	\$ 0	\$ 0	\$ 105,266,815	\$ 118,019,571	\$ 208,251,665	\$ 304,802,703	\$ 631,073,939	\$ 83,461,845	

# **Appendix D**

# **APPENDIX D**

# NEW YORK CITY POLICE PENSION FUND (POLICE)

Page 1a	-	Statement of Fiduciary Net Position - POLICE
1b	-	Statement of Fiduciary Net Position - POVSF
1c	-	Statement of Fiduciary Net Position - PSOVSF
Page 2a	-	Statement of Changes in Fiduciary Net Position - POLICE
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Page 5a	-	Development of Asset (Gain) / Loss - June 30, 2019
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Page 12a	-	Components of Pension Expense - June 30, 2019
12b	-	Components of Pension Expense - June 30, 2020
Page 13a	-	Pension Expense, Deferred Inflows and Outflows of Resources through June 30, 2020
13b	-	Pension Expense, Total Deferred Inflows/Outflows of Resources at June 30, 2020

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Fiduciary Net Position June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

		June 30, 2020		June 30, 2019
ASSETS	¢	0.015	¢	22 (00
Cash	\$	9,815	\$	23,690
Receivables:				
Investment securities sold		608,688		865,477
Member loans		218,592		238,644
Transferable earnings due from VSFs		0		0
Accrued interest and dividends		1,009		2,294
Total receivables	\$	828,289	\$	1,106,415
	ψ	020,209	φ	1,100,115
Investments - at fair value				
Short-term investments:				
Commercial paper		238,555		235,970
Short-term investment fund		293,923		234,110
U.S. treasury bills and agencies		636,923		0
Discount notes		0		162,145
Debt securities:				,
U.S. government and agency		3,069,573		4,618,579
Corporate and other		4,396,908		3,696,453
Bank Loans		226,857		206,667
Mortgage Debt Securities		1,377,705		861,533
Treasury Inflation Protected Securities		1,710,665		1,412,234
Equity Securities:		1,710,000		1,112,201
Domestic Equity		13,542,621		12,958,661
International Equity		2,814,260		259,640
Collective trust funds:		2,011,200		200,010
Domestic equity		356,956		87,942
International equity		2,872,858		5,984,252
Mortgage debt security		205,647		204,347
Treasury inflation protected securities		203,047		457,367
Bank Loans		514,197		536,357
Corporate and Other		11,597		50,620
		0		25,958
U.S. Government and Agency Opportunistic Fixed Income		137,770		
Alternative Investments:		137,770		132,311
Infrastructure		504,681		406 812
				406,813
Opportunistic Fixed Income		1,354,060		1,223,141
Private Equity Private Real Estate		2,489,568		2,516,553
		2,181,695		1,980,800
Hedge Fund Investment		2,955,325		2,730,587
Collateral from securities lending		3,430,138		3,733,667
Total Investments	\$	45 222 482	\$	44 716 707
i otar nivesuitents	φ	45,322,482	φ	44,716,707
Other assets		9,716		7,093
Total assets	\$	46,170,302	\$	45,853,905
LIABILITIES				
Accounts payable		49,637		265,086
Payables for investment securities purchased		1,026,317		863,328
Accrued benefits payable		54,183		69,608
Transferable earnings due to VSFs		317,013		802,792
Securities lending		3,430,138		3,733,667
Total liabilities	\$	4,877,288	\$	5,734,481
Plan Net Position Held in Trust for Benefits	\$	41,293,014	\$	40,119,424

# NEW YORK CITY POLICE DEPARTMENT POLICE OFFICERS' VARIABLE SUPPLEMENTS FUND (POVSF)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Statement of Fiduciary Net Position June 30, 2020 and June 30, 2019

(Dollar amounts in thousands)

ASSETS	June 30, 2020	June 30, 2019
Cash	\$ 4,213	\$ 2,026
Receivables:		
Investment securities sold	509	9,491
Transferable earnings due from QPP	144,452	135,164
Accrued interest and dividends	43	235
Total receivables	\$ 145,004	\$ 144,890
Investments - at fair value		
Short term investments:		
Commercial paper	3,000	0
Short-term investments fund	679	651
U.S. treasury bills and agencies	4,005	0
Discount notes	0	5,927
Equity Securities:		
Domestic Equity	591,182	613,984
Collective trust funds:		
Domestic equity	68,109	66,139
International equity	467,350	516,950
Mortgage Debt Securities	194,387	188,703
Corporate and other	206,576	181,261
U.S. Government and Agency	268,294	265,406
Alternative Investments:		
Collateral from securities lending	51,839	49,847
Total Investments	\$ 1,855,421	\$ 1,888,868
Total assets	\$ 2,004,638	\$ 2,035,784
LIABILITIES		
Accounts payable	347	188
Payables for investment securities purchased	345	9,350
Transferable earnings due to QPP	0	0
Accrued benefits payable	78,659	77,820
Securities lending	51,839	49,847
Total liabilities	\$ 131,190	\$ 137,205
Plan Net Position Held in Trust for Benefits	\$ 1,873,448	\$ 1,898,579

# NEW YORK CITY POLICE DEPARTMENT POLICE SUPERIOR OFFICERS' VARIABLE SUPPLEMENTS FUND (PSOVSF)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Fiduciary Net Position June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

June 30, 2020 June 30, 2019 ASSETS Cash \$ 3.944 \$ 411 Receivables: Investment securities sold 852 12,469 Transferable earnings due from QPP 172,561 667,628 Accrued interest and dividends 78 228 Total receivables \$ 173,491 \$ 680,325 Investments - at fair value Short-term investments: 69,000 0 Commercial paper 1,005 Short-term investment fund 0 2,005 U.S. treasury bills and agencies 0 Discount notes 0 6,492 Equity Securities: 994,288 811,896 Domestic Equity Collective trust funds: 89,563 Domestic equity 115,789 International equity 852,805 687,831 Mortgage Debt Securities 312,925 247,255 Corporate and other 332,546 237,504 U.S. Government and Agency 431,900 347,758 Alternative Investments: Collateral from securities lending 77,814 67,906 Total Investments \$ 3,189,072 \$ 2,497,210 Total assets S 3,366,507 S 3,177,946 LIABILITIES Accounts payable & accrued liabilities 69,315 244 Payables for investment securities purchased 1,643 12,440 Transferable earnings due to QPP 0 0 Accrued benefits payable 121,306 118,052 Securities lending 77,814 67,906 Total liabilities \$ 270,078 \$ 198,642 Plan Net Position Held in Trust for Benefits 3,096,429 \$ 2,979,304 \$

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Changes in Fiduciary Net Position June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

June 30, 2020 June 30, 2019 ADDITIONS Contributions: Member Contributions \$ 280,129 \$ 278,087 **Employer** Contributions 2,458,907 2,558,256 Total contributions \$ 2,739,036 \$ 2,836,343 Investment income: Interest income 548,925 421,859 494,434 Dividend income 497,886 Net appreciation (depreciation) in fair value 1,191,629 1,772,808 Total investment income \$ 2,111,374 \$ 2,816,167 Less: Investment expenses 226,384 249,849 Net income 1,884,990 2,566,318 Securities lending transactions: Securities lending income 12.194 17.063 Securities lending fees (1, 172)(1,679) \$ \$ Net securities lending income 11,022 15,384 \$ 1,896,012 2,581,702 Net investment income \$ Transferable earnings due from VSFs 0 139.836 Other: 2,053 1,907 Net receipts from other retirement systems Litigation income 4,435 2,201 Other total 6,488 4,108 Total additions 4,641,536 5,561,989 \$ \$ DEDUCTIONS Benefit payments and withdrawals 3,039,785 2,853,799 Transferable earnings due to VSFs 401,358 518,628 Administrative expenses 29,005 26,803 Total deductions \$ 3,467,946 \$ 3,401,432 **INCREASE IN PLAN NET POSITION** 1,173,590 2,160,557 PLAN NET POSITION HELD IN TRUST FOR BENEFITS: Beginning of year \$ 40,119,424 \$ 37,958,867 End of year \$ 41,293,014 40,119,424 \$

June 30, 2019

# NEW YORK CITY POLICE DEPARTMENT POLICE OFFICERS' VARIABLE SUPPLEMENTS FUND (POVSF)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Changes in Fiduciary Net Position June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

June 30, 2020

ADDITIONS	June 30, 2020	June 30, 2019
Contributions:		
Member Contributions	\$ 0	\$ 0
Employer Contributions	 0	 0
Total contributions	\$ 0	\$ 0
Investment income:		
Interest income	35,663	19,067
Dividend income	27,344	30,837
Net appreciation (depreciation) in fair value	 (66,717)	 54,392
Total investment income	\$ (3,710)	\$ 104,296
Less:		
Investment expenses	998	1,122
Net income	(4,708)	103,174
Securities lending transactions:		
Securities lending income	533	573
Securities lending fees	 (46)	 (53)
Net securities lending income	\$ 487	\$ 520
Net investment income	(4,221)	103,694
Other	29	40
Transferable earnings due from QPP	144,808	108,000
Total additions	 140,616	 211,734
DEDUCTIONS		
Benefit payments and withdrawals	165,747	165,195
Transferable earnings due to QPP	0	139,836
Total deductions	 165,747	 305,031
INCREASE IN PLAN NET POSITION	(25,131)	(93,297)
PLAN NET POSITION HELD IN TRUST FOR BENEFITS:		
Beginning of year	\$ 1,898,579	\$ 1,991,876
End of year	\$ 1,873,448	\$ 1,898,579

# NEW YORK CITY POLICE DEPARTMENT POLICE SUPERIOR OFFICERS' VARIABLE SUPPLEMENTS FUND (PSOVSF)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Statement of Changes in Fiduciary Net Position June 30, 2020 and June 30, 2019

(Dollar amounts in thousands)

	June 30, 2020	June 30, 2019		
ADDITIONS				
Contributions:		_		
Member Contributions	\$ 0	\$ 0		
Employer Contributions	 0	 0		
Total contributions	\$ 0	\$ 0		
Investment income:				
Interest income	65,359	20,198		
Dividend income	41,093	34,196		
Net appreciation (depreciation) in fair value	 40,878	 122,482		
Total investment income	\$ 147,330	\$ 176,876		
Less:				
Investment expenses	1,545	1,313		
Net income	145,785	175,563		
Securities lending transactions:				
Securities lending income	797	645		
Securities lending fees	 (68)	 (60)		
Net securities lending income	\$ 729	\$ 585		
Net investment income	146,514	176,148		
Other	24	35		
Transferable earnings due from QPP	256,550	410,628		
Total additions	 403,088	 586,811		
DEDUCTIONS				
Benefit payments and withdrawals	285,963	263,077		
Transferable earnings due to QPP	0	0		
Total deductions	 285,963	 263,077		
INCREASE IN PLAN NET POSITION	117,125	323,734		
PLAN NET POSITION HELD IN TRUST FOR BENEFITS:				
Beginning of year	\$ 2,979,304	\$ 2,655,570		
End of year	\$ 3,096,429	\$ 2,979,304		

## Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### **Market Values of Assets**

			QPP	POVSF	PSOVSF	Total
1.	Plan Net Position @ 6/30/2018	\$	39,238,867,000	\$ 1,861,876,000	\$ 1,505,570,000	\$ 42,606,313,000
2.	Accrued Benefits Payable		0	76,906,000	115,640,000	192,546,000
3.	Transferable Earnings		(1,280,000,000)	130,000,000	1,150,000,000	0
4.	Adjusted Market Value @ 6/30/2018		37,958,867,000	2,068,782,000	2,771,210,000	42,798,859,000
5.	Changes for the year:					
	a. ER Contributions		2,558,256,000	0	0	2,558,256,000
	b. EE Contributions		278,087,000	0	0	278,087,000
	c. Net Investment Income		2,581,702,000	103,694,000	176,148,000	2,861,544,000
	d. Benefit Payments <sup>1</sup>		(2,853,799,000)	(164,281,000)	(260,665,000)	(3,278,745,000)
	e. Administrative Expenses		(29,005,000)	0	0	(29,005,000)
	f. Other		4,108,000	40,000	35,000	4,183,000
	g. Net Changes	\$	2,539,349,000	\$ (60,547,000)	\$ (84,482,000)	\$ 2,394,320,000
6.	Plan Net Position @ 6/30/2019	\$	40,498,216,000	\$ 1,930,415,000	\$ 2,568,676,000	\$ 44,997,307,000
7.	Accrued Benefits Payable		0	77,820,000	118,052,000	195,872,000
8.	Transferable Earnings		(378,792,000)	(31,836,000)	410,628,000	0
9.	Adjusted Market Value @ 6/30/2019	\$	40,119,424,000	\$ 1,976,399,000	\$ 3,097,356,000	\$ 45,193,179,000
10.	Changes for the year:					
	a. ER Contributions		2,458,907,000	0	0	2,458,907,000
	b. EE Contributions		280,129,000	0	0	280,129,000
	c. Net Investment Income		1,896,012,000	(4,221,000)	146,514,000	2,038,305,000
	d. Benefit Payments <sup>2</sup>		(3,039,785,000)	(164,908,000)	(282,709,000)	(3,487,402,000)
	e. Administrative Expenses		(26,803,000)	0	0	(26,803,000)
	f. Other		6,488,000	 29,000	 24,000	 6,541,000
	g. Net Changes	\$	1,574,948,000	\$ (169,100,000)	\$ (136,171,000)	\$ 1,269,677,000
11.	Plan Net Position @ 6/30/2020	\$	41,694,372,000	\$ 1,728,640,000	\$ 2,839,879,000	\$ 46,262,891,000
12.	Accrued Benefits Payable		0	78,659,000	121,306,000	199,965,000
13.			(401,358,000)	144,808,000	256,550,000	0
14. Adjusted Market Value @ 6/30/2020         \$ 41,293,014,0			41,293,014,000	\$ 1,952,107,000	\$ 3,217,735,000	\$ 46,462,856,000

<sup>1</sup> Includes Net Accrued Benefits Payable of \$914,000 for POVSF and \$2,412,000 for PSOVSF.

<sup>2</sup> Includes Net Accrued Benefits Payable of \$839,000 for POVSF and \$3,254,000 for PSOVSF.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Long-Term Expected Rate of Return

The Long-Term Expected Rate of Return (LTEROR) assumption on pension fund investments was determined using a Building-Block Method in which best-estimate ranges of Expected Real Rates of Return (i.e. Expected Returns, net of pension fund investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the LTEROR by weighting the Expected Real Rates of Return (RROR) by the Target Asset Allocation percentage and by adding Expected Inflation. The Target Asset Allocation and best estimates of Arithmetic Real Rates of Return for each major asset class are summarized in the following table:

		Long-Term
	Target	Expected
	Asset	Real Rate
Asset Class	Allocation	of Return
Public Markets:		
U.S. Public Market Equities	30.0%	6.3%
Developed Public Market Equities	8.0%	6.7%
Emerging Public Market Equities	5.0%	8.1%
Fixed Income	28.0%	1.5%
Private Markets (Alternative Investments):		
Private Equity	8.0%	10.8%
Private Real Estate	7.0%	7.8%
Infrastructure	3.0%	8.9%
Hedge Funds	6.0%	4.0%
Opportunistic Fixed Income	5.0%	<u>3.9%</u>
Total	100.0%	

The Discount Rate used to measure the Total Pension Liability was 7.0% per annum. The projection of Cash Flows used to determine the Discount Rate assumes that employee contributions will be made at the rates applicable to the current Tier for each member and that employer contributions will be made at rates as determined by the Actuary. Based on those assumptions, the pension fund's Fiduciary Net Position is projected to be available to make all projected future benefit payments of current active and non-active members. Therefore, the Long-Term Expected Rate of Return on pension fund investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

## Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Development of Asset (Gain) / Loss June 30, 2019

	QPP	POVSF	PSOVSF	Total
1. Assets				
a. Market Value 6/30/2018*	\$ 39,238,867,000	\$ 1,938,782,000	\$ 1,621,210,000	\$ 42,798,859,000
b. 2018 Transferable Earnings	(1,280,000,000)	130,000,000	1,150,000,000	0
c. Adjusted Market Value @6/30/2018	37,958,867,000	2,068,782,000	2,771,210,000	42,798,859,000
d. Market Value 6/30/2019**	40,498,216,000	2,008,235,000	2,686,728,000	45,193,179,000
e. 2019 Transferable Earnings	(378,792,000)	(31,836,000)	410,628,000	0
f. Adjusted Market Value @6/30/2019	40,119,424,000	1,976,399,000	3,097,356,000	45,193,179,000
2. Net Investment Income	2,581,702,000	103,694,000	176,148,000	2,861,544,000
3. Cash Flow (1.d 1.a 2.)	(1,322,353,000)	(34,241,000)	889,370,000	(467,224,000)
4. Projected Earnings (7% * 1.a. + 3.441% * 3.)	2,701,218,523	134,536,507	144,087,922	2,979,842,952
5. (Gain) / Loss (4 2.)	119,516,523	30,842,507	(32,060,078)	118,298,952
6. Recognition Period	5 Years	5 Years	5 Years	5 Years
<ol> <li>Amount Recognized in Pension Expense (5. / 6.)</li> </ol>	23,903,305	6,168,501	(6,412,016)	23,659,790
8. Deferred (Inflow) / Outflow of Resources (5 7.)	\$ 95,613,218	\$ 24,674,006	\$ (25,648,062)	\$ 94,639,162

\* Before Reflecting 2018 Transferable Earnings.

\*\* Before Reflecting 2019 Transferable Earnings.

## Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Development of Asset (Gain) / Loss June 30, 2020

		QPP	POVSF	PSOVSF	Total
1.	Assets				
	a. Market Value 6/30/2019*	\$ 40,498,216,000	\$ 2,008,235,000	\$ 2,686,728,000	\$ 45,193,179,000
	b. 2019 Transferable Earnings	(378,792,000)	(31,836,000)	410,628,000	0
	c. Adjusted Market Value @6/30/2019	40,119,424,000	1,976,399,000	3,097,356,000	45,193,179,000
	d. Market Value 6/30/2020**	41,694,372,000	1,807,299,000	2,961,185,000	46,462,856,000
	e. 2020 Transferable Earnings	(401,358,000)	144,808,000	256,550,000	0
	f. Adjusted Market Value @6/30/2020	41,293,014,000	1,952,107,000	3,217,735,000	46,462,856,000
2.	Net Investment Income	1,896,012,000	(4,221,000)	146,514,000	2,038,305,000
3.	Cash Flow (1.d 1.a 2.)	(699,856,000)	(196,715,000)	127,943,000	(768,628,000)
4.	Projected Earnings (7% * 1.a. + 3.441% * 3.)	2,810,793,075	133,807,487	192,473,479	3,137,074,041
5.	(Gain) / Loss (4 2.)	914,781,075	138,028,487	45,959,479	1,098,769,041
6.	Recognition Period	5 Years	5 Years	5 Years	5 Years
7.	Amount Recognized in Pension Expense (5. / 6.)	182,956,215	27,605,697	9,191,896	219,753,808
8.	Deferred (Inflow) / Outflow of Resources (5 7.)	\$ 731,824,860	\$ 110,422,790	\$ 36,767,583	\$ 879,015,233

\* Before Reflecting 2019 Transferable Earnings.

\*\* Before Reflecting 2020 Transferable Earnings.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Roll-Forward of Entry Age Accrued Liabilities to June 30, 2020

		QPP	POVSF	PSOVSF	Total
1.	Disclosed EA Accrued Liability at 6/30/2019	\$ 49,089,967,123	\$ 2,034,838,864	\$ 3,872,625,392	\$ 54,997,431,379
2.	EA Normal Cost at 6/30/2019	1,375,436,447	34,290,728	73,382,177	1,483,109,352
3.	Benefit Payments-FY2020	(3,039,785,000)	(164,908,000)	(282,709,000)	(3,487,402,000)
4.	Interest	3,427,979,248	139,164,587	266,492,513	3,833,636,348
5.	Experience (Gain)/Loss - FY 2020	463,894,454	11,749,784	(33,990,094)	441,654,144
6.	Roll-Forward EAAL at 6/30/2020	\$ 51,317,492,272	\$ 2,055,135,963	\$ 3,895,800,988	\$ 57,268,429,223

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Changes in Net Pension Liability (NPL) by Source Balance at June 30, 2019

		Total Pension Liability							
			OPP		POVSF		PSOVSF		TOTAL
1.	Balances at June 30, 2018	\$	48,379,196,497	\$	2,022,236,650	\$	3,754,205,218	\$	54,155,638,365
2.	Changes for the Year:								
	a. Service Cost		1,396,466,498		41,454,079		60,989,286		1,498,909,863
	b. Interest		3,386,097,186		138,805,442		258,094,133		3,782,996,761
	c. Changes of Benefit Terms		0		0		0		0
	d. Differences b/t Expected and Actual Experience		(868,163,702)		133,399,400		(84,202,519)		(818,966,821)
	e. Changes of Assumptions		(349,830,356)		(136,775,707)		144,204,274		(342,401,789)
	f. Benefit Payments		(2,853,799,000)		(164,281,000)		(260,665,000)		(3,278,745,000)
	g. Net Changes	\$	710,770,626	\$	12,602,214	\$	118,420,174	\$	841,793,014
3.	Balances at June 30, 2019	\$	49,089,967,123	\$	2,034,838,864	\$	3,872,625,392	\$	54,997,431,379
					Plan Fiduciar	y Net I	Position <sup>1</sup>		
			<u>QPP</u>		POVSF		PSOVSF		TOTAL
4.	Balances at June 30, 2018	\$	37,958,867,000	\$	2,068,782,000	\$	2,771,210,000	\$	42,798,859,000
5.	Changes for the Year:								
	a. Contributions - Employer		2,558,256,000		0		0		2,558,256,000
	<ul> <li>b. Contributions - Employee</li> </ul>		278,087,000		0		0		278,087,000
	c. Net Investment Income		2,581,702,000		103,694,000		176,148,000		2,861,544,000
	d. Benefit Payments		(2,853,799,000)		(164,281,000)		(260,665,000)		(3,278,745,000)
	e. Administrative Expenses		(29,005,000)		0		0		(29,005,000)
	f. Other Changes	5	4,108,000		40,000	\$	35,000	\$	4,183,000
	g. Net Changes	\$	2,539,349,000	\$	(60,547,000)	3	(84,482,000)	\$	2,394,320,000
6.	Transferable Earnings		(378,792,000)		(31,836,000)		410,628,000		0
7.	Balances at June 30, 2019	\$	40,119,424,000	\$	1,976,399,000	\$	3,097,356,000	\$	45,193,179,000
					N / D		•••		
			OPP		Net Pensio POVSF	on Liat	PSOVSF		TOTAL
8.	Balances at June 30, 2018	s	10,420,329,497	\$	(46,545,350)	s	982,995,218	\$	11,356,779,365
о.	Datances at June 50, 2016	3	10,420,529,497	.,	(40,545,550)		362,333,218	æ	11,550,779,505
9.	Changes for the Year: a. Service Cost		1,396,466,498		41,454,079		60,989,286		1,498,909,863
	b. Interest		3,386,097,186		138,805,442		258,094,133		3,782,996,761
	c. Changes of Benefit Terms		0		0		230,094,139		0
	d. Differences b/t Expected and Actual Experience		(868,163,702)		133,399,400		(84,202,519)		(818,966,821)
	e. Changes of Assumptions		(349,830,356)		(136,775,707)		144,204,274		(342,401,789)
	f. Contributions - Employer		(2,558,256,000)		0		0		(2,558,256,000)
	g. Contributions - Employee		(278,087,000)		0		0		(278,087,000)
	h. Net Investment Income		(2,581,702,000)		(103,694,000)		(176,148,000)		(2,861,544,000)
	i. Benefit Payments		0		0		0		0
	j. Administrative Expenses		29,005,000		0		0		29,005,000
	k. Other Changes		(4,108,000)		(40,000)		(35,000)		(4,183,000)
	I. Net Changes	\$	(1,828,578,374)	\$	73,149,214	\$	202,902,174	\$	(1,552,526,986)
	Transferable Earnings		378,792,000		31,836,000		(410,628,000)		0
11.	Balances at June 30, 2019	\$	8,970,543,123	\$	58,439,864	\$	775,269,392	\$	9,804,252,379

<sup>1</sup> Balances at 6/30/2018 and 6/30/2019 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

Changes in Net Pension Liability (NPL) by Source Balance at June 30, 2020

		Total Pension Liability						
		QPP		POVSF		PSOVSF	TOTAL	
1.	Balances at June 30, 2019	\$ 49,089,967,123	\$	2,034,838,864	\$	3,872,625,392	\$	54,997,431,379
2.	Changes for the Year:							
	a. Service Cost	1,375,436,447		34,290,728		73,382,177		1,483,109,352
	b. Interest	3,427,979,248		139,164,587		266,492,513		3,833,636,348
	c. Changes of Benefit Terms	0		0		0		0
	d. Differences b/t Expected and Actual Experience	463,894,454		11,749,784		(33,990,094)		441,654,144
	e. Changes of Assumptions	0		0		0		0
	f. Benefit Payments	(3,039,785,000)		(164,908,000)		(282,709,000)		(3,487,402,000)
	g. Net Changes	\$ 2,227,525,149	\$	20,297,099	\$	23,175,596	\$	2,270,997,844
3.	Balances at June 30, 2020	\$ 51,317,492,272	\$	2,055,135,963	\$	3,895,800,988	\$	57,268,429,223

		Plan Fiduciary Net Position <sup>1</sup>								
				<u>OPP</u>		POVSF		PSOVSF		TOTAL
4. Balances at June	30, 2019	:	\$	40,119,424,000	\$	1,976,399,000	\$	3,097,356,000	\$	45,193,179,000
5. Changes for the	(ear:									
a. Contribut	ons - Employer			2,458,907,000		0		0		2,458,907,000
b. Contribut	ons - Employee			280,129,000		0		0		280,129,000
c. Net Inves	ment Income			1,896,012,000		(4,221,000)		146,514,000		2,038,305,000
d. Benefit Pa	yments			(3,039,785,000)		(164,908,000)		(282,709,000)		(3,487,402,000)
e. Administr	ative Expenses			(26,803,000)		0		0		(26,803,000)
f. Other Cha	nges			6,488,000		29,000		24,000		6,541,000
g. Net Chan	ges		\$	1,574,948,000	\$	(169,100,000)	\$	(136,171,000)	\$	1,269,677,000
6. Transferable Ear	nings			(401,358,000)		144,808,000		256,550,000		0
7. Balances at June	30, 2020		\$	41,293,014,000	\$	1,952,107,000	\$	3,217,735,000	\$	46,462,856,000

	Net Pension Liability									
		<u>OPP</u>		POVSF	PSOVSF			TOTAL		
8. Balances at June 30, 2019	\$	8,970,543,123	\$	58,439,864	\$	775,269,392	\$	9,804,252,379		
9. Changes for the Year:										
a. Service Cost		1,375,436,447		34,290,728		73,382,177		1,483,109,352		
b. Interest		3,427,979,248		139,164,587		266,492,513		3,833,636,348		
c. Changes of Benefit Terms		0		0		0		0		
d. Differences b/t Expected and Actual Experience		463,894,454		11,749,784		(33,990,094)		441,654,144		
e. Changes of Assumptions		0		0		0		0		
f. Contributions - Employer		(2,458,907,000)		0		0		(2,458,907,000)		
g. Contributions - Employee		(280,129,000)		0		0		(280,129,000)		
h. Net Investment Income		(1,896,012,000)		4,221,000		(146,514,000)		(2,038,305,000)		
i. Benefit Payments		0		0		0		0		
<ol> <li>Administrative Expenses</li> </ol>		26,803,000		0		0		26,803,000		
k. Other Changes		(6,488,000)		(29,000)		(24,000)		(6,541,000)		
I. Net Changes	\$	652,577,149	\$	189,397,099	\$	159,346,596	\$	1,001,320,844		
10. Transferable Earnings		401,358,000		(144,808,000)		(256,550,000)		0		
11. Balances at June 30, 2020	\$	10,024,478,272	\$	103,028,963	\$	678,065,988	\$	10,805,573,223		

 $^1\,$  Balances at 6/30/2019 and 6/30/2020 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Changes in Net Pension Liability and Related Ratios

		<u>2020</u>		<u>2019</u>		<u>2018</u>		2017		<u>2016</u>		2015		<u>2014</u>		2013
1. Total Pension Liability     a. Service Cost     b. Interest     c. Changes of Benefit Terms     d. Differences b/t Expected and Actual Experience     e. Change of Assumptions     f. Benefit Payments     g. Net Changes	\$	1,483,109,352 3,833,636,348 0 441,654,144 0 (3,487,402,000) 2,270,997,844	\$	1,498,909,863 3,782,996,761 0 (818,966,821) (342,401,789) (3,278,745,000) 841,793,014	\$	1,386,278,934 3,649,115,174 104,671,094 (144,119,939) 0 (3,193,553,000) 1,802,392,263	\$	1,320,416,462 3,524,331,362 0 (645,248,116) 0 (2,987,000,000) 1,212,499,708	\$	1,340,614,909 3,441,398,429 0 233,461,664 794,679,950 (2,878,451,000) <b>2,931,703,952</b>	s 	1,325,807,839 3,245,225,246 0 (215,417,691) 0 (2,746,784,000) 1,608,831,394	\$	1,301,753,171 3,117,317,330 0 (2,682,223,000) 1,736,847,501	\$	1,263,838,030 2,998,478,091 0 0 (2,525,475,000) 1,736,841,121
2. Total Pension Liability - Beginning 3. Total Pension Liability - Ending	s s	54,997,431,379 57,268,429,223	s s	54,155,638,365 54,997,431,379	s s	52,353,246,102 54,155,638,365	s s	51,140,746,394 52,353,246,102	s s	48,209,042,442 51,140,746,394	s s	46,600,211,048 48,209,042,442	\$ \$	44,549,855,738 46,286,703,239	5 5 5	42,813,014,617 44,549,855,738
<ul> <li>4. Plan Fiduciary Net Position <ul> <li>Contributions - Employer</li> <li>Contributions - Employee</li> <li>Net Investment Income</li> <li>Benefit Payments</li> <li>Administrative Expenses</li> <li>f. Other Changes</li> </ul> </li> </ul>	\$	2,458,907,000 280,129,000 2,038,305,000 (3,487,402,000) (26,803,000) 6,541,000	\$	2,558,256,000 278,087,000 2,861,544,000 (3,278,745,000) (29,005,000) 4,183,000	S	2,415,153,000 267,031,000 3,964,010,000 (3,193,553,000) (21,146,000) 3,465,000	\$	2,293,840,000 276,301,000 4,286,894,000 (2,987,000,000) (18,917,000) 10,507,000	\$	2,393,940,000 249,921,000 403,534,000 (2,878,451,000) (18,478,000) 6,756,000	\$	2,309,619,000 241,102,000 1,098,220,000 (2,746,784,000) (17,903,000) 4,616,000	\$	2,320,910,000 228,783,000 5,147,483,000 (2,682,223,000) (17,450,000) 6,911,000	\$	2,424,690,000 229,675,000 3,101,564,000 (2,522,475,000) (17,548,000) 6,118,000
g. Net Changes	\$	1,269,677,000	\$	2,394,320,000	\$	3,434,960,000	\$	3,861,625,000	\$	157,222,000	\$	888,870,000	\$	5,004,414,000	\$	3,219,024,000
5. Plan Fiduciary Net Position - Beginning 6. Plan Fiduciary Net Position - Ending	s s	45,193,179,000 46,462,856,000	S S	42,798,859,000 45,193,179,000	s s	39,363,899,000 42,798,859,000	\$ \$	35,502,274,000 39,363,899,000	\$ \$	35,345,052,000 35,502,274,000	\$ \$	34,456,182,000 35,345,052,000	\$ \$	29,451,768,000 34,456,182,000	\$ \$	26,232,744,000 29,451,768,000
7. POLICE Net Pension Liability	\$	10,805,573,223	\$	9,804,252,379	\$	11,356,779,365	\$	12,989,347,102	\$	15,638,472,394	\$	12,863,990,442	\$	11,830,521,239	\$	15,098,087,738
8. Plan Fiduciary Net Position as a Percentage of Total Pension Liability		81.1%		82.2%		79.0%		75.2%		69.4%		73.3%		74.4%		66.1%
9. Covered Employee Payroll <sup>1</sup>	\$	4,244,806,289	\$	4,047,772,414	\$	3,673,054,287	\$	3,509,985,075	\$	3,540,326,198	\$	3,512,777,844	\$	3,420,312,390	\$	3,459,871,779
10. POLICE Net Pension Liability as a Percentage of Covered Employee Payroll		254.6%		242.2%		309.2%		370.1%		441.7%		366.2%		345.9%		436.4%

<sup>1</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Employer Contributions (\$ in thousands)

Fiscal Year Ending June 30	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
1. Actuarially Determined Contribution	\$ 2,458,907 \$	2,558,256 \$	2,415,153 \$	2,293,840 \$	2,393,940 \$	2,309,619 \$	2,320,910 \$	2,424,690 \$	2,385,731 \$	2,083,633
2. Contributions in relation to the Actuarially Determined Contribution	<u>\$ 2,458,907</u> <u>\$</u>	2,558,256 \$	2,415,153 \$	2,293,840 \$	2,393,940 \$	2,309,619 \$	2,320,910 \$	2,424,690 \$	2,385,731 \$	2,083,633
3. Contribution Deficiency (Excess)	0	0	0	0	0	0	0	0	0	0
<ol> <li>Contributions as a percentage of Covered Employee Payroll*</li> </ol>	57.927%	63.202%	65.753%	65.352%	67.619%	65.749%	67.857%	70.080%	69.176%	64.058%

\* Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

Appendix D Page 10

# NEW YORK CITY POLICE PENSION FUND (POLICE)

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Average Expected Remaining Service Lives

		Average Expected
		Remaining Service Life
<u>Group</u>	<u># Count</u>	<u>@ 6/30/2019</u>
Active	36,401	12.31
Active Off Payroll	1,640	0
Terminated Vested	497	0
Retired	50,727	0
Total	89,265	5.02

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Experience

Year		Differences between Expected and Actual Experience	Recognition Period (Years)	2019	2020	2021	2022	2023	2024	2025
2017	\$	(645,248,116)	3.89	\$ (165,873,552) \$	(147,627,460)					
2018	\$	(144,119,939)	4.41	\$ (32,680,258) \$	(32,680,258) \$	(32,680,258) \$	(13,398,907)			
2019	\$	(818,966,821)	5.04	\$ (162,493,417) \$	(162,493,417) \$	(162,493,417) \$	(162,493,417) \$	(162,493,417) \$	(6,499,736)	
2020	\$	441,654,144	5.02	\$	87,978,913 \$	87,978,913 \$	87,978,913 \$	87,978,913 \$	87,978,913 \$	1,759,579
Net increase	e (decre	ease) in Pension Expense		\$ (361,047,227) \$	(254,822,222) \$	(107,194,762) \$	(87,913,411) \$	(74,514,504) \$	81,479,177 \$	1,759,579

#### **NEW YORK CITY POLICE PENSION FUND (POLICE)**

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Increase (Decrease) in Pension Expense Arising from the Recognition of Changes in Assumptions

Year		Changes in Assumptions	Recognition Period (Years)		2019	2020	2021	2022	2023	2024
2019	\$	(342,401,789)	<u>(rears)</u> 5.04	\$	(67,936,863) \$	(67,936,863) \$	(67,936,863) \$	(67,936,863) \$	(67,936,863) \$	(2,717,474)
2020	\$	0	0.00	Ţ	\$	0	(**,,***,***) +	(**,****,****) +	(0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(_,,)
Net increase	e (decr	ease) in Pension Expense	e	\$	(67,936,863) \$	(67,936,863) \$	(67,936,863) \$	(67,936,863) \$	(67,936,863) \$	(2,717,474)

# NEW YORK CITY POLICE PENSION FUND (POLICE)

### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Pension Plan Investments

Year	I	Differences between Projected and Actual Earnings on Pension Plan Investments	Recognition Period (Years)	2019	2020	2021	2022	2023	2024
2015	\$	1,306,509,007	5	\$ 261,301,803					
2016	\$	2,062,144,044	5	\$ 412,428,809 \$	412,428,808				
2017	\$	(1,816,368,326)	5	\$ (363,273,666) \$	(363,273,666) \$	(363,273,662)			
2018	\$	(1,226,741,680)	5	\$ (245,348,336) \$	(245,348,336) \$	(245,348,336) \$	(245,348,336)		
2019	\$	118,298,952	5	\$ 23,659,790 \$	23,659,790 \$	23,659,790 \$	23,659,790 \$	23,659,792	
2020	\$	1,098,769,041	5	\$	219,753,808 \$	219,753,808 \$	219,753,808 \$	219,753,808 \$	219,753,809
et increase	(decr	ease) in Pension Expens	е	\$ 88,768,400 \$	47,220,404 \$	(365,208,400) \$	(1,934,738) \$	243,413,600 \$	219,753,809

Amount

# **NEW YORK CITY POLICE PENSION FUND (POLICE)**

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# **Components of Pension Expense for the Fiscal Year Ending June 30, 2019**

#### **Component**

a. Service Cost	\$ 1,498,909,863
b. Interest on the Total Pension Liability	3,782,996,761
c. Changes of Benefit Terms	0
d. Differences between Expected and Actual Experience	(361,047,227)
e. Changes of Assumptions	(67,936,863)
f. Employee Contributions	(278,087,000)
g. Projected Earnings on Pension Plan Investments	(2,979,842,952)
h. Differences between Projected and Actual Earnings on Plan Investments	88,768,400
i. Pension Plan Administrative Expenses	29,005,000
j. Other Changes in Fiduciary Net Position	 (4,183,000)
Total Pension Expense	\$ 1,708,582,982

Amount

# **NEW YORK CITY POLICE PENSION FUND (POLICE)**

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# **Components of Pension Expense for the Fiscal Year Ending June 30, 2020**

#### **Component**

a. Service Cost	\$ 1,483,109,352
b. Interest on the Total Pension Liability	3,833,636,348
c. Changes of Benefit Terms	0
d. Differences between Expected and Actual Experience	(254,822,222)
e. Changes of Assumptions	(67,936,863)
f. Employee Contributions	(280,129,000)
g. Projected Earnings on Pension Plan Investments	(3,137,074,041)
h. Differences between Projected and Actual Earnings on Plan Investments	47,220,404
i. Pension Plan Administrative Expenses	26,803,000
j. Other Changes in Fiduciary Net Position	 (6,541,000)
Total Pension Expense	\$ 1,644,265,978

#### NEW YORK CITY POLICE PENSION FUND (POLICE)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Pension Expense, Deferred Outflows and Inflows of Resources

Recognized Pension Expense	Fiscal Year June 30, <b>\$1,241,46</b>	2015	Fiscal Year June 30, 2 <b>\$2,213,18</b>	2016	Fiscal Yea June 30 \$1,760,5	, 2017	Fiscal Yea June 30 <b>\$1,590,6</b>	, 2018	Fiscal Year June 30, <b>\$1,708,58</b>	2019	Fiscal Year J June 30, 2 \$1,644,265	2020
Deferred Resources	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows
Differences Between Expected and Actual Experience	0	127,492,103	138,171,189	0	0	479,374,564	0	111,439,681	0	656,473,404	353,675,231	0
Changes of Assumptions	0	0	470,320,787	0	0	0	0	0	0	274,464,926	0	0
Net Difference between Projected and Actual Earnings on Pension Plan Investments	1,045,207,206	0	1,649,715,235	0	0	1,453,094,660	0	981,393,344	94,639,162	0	879,015,233	0
Total	1,045,207,206	127,492,103	2,258,207,211	0	0	1,932,469,224	0	1,092,833,025	94,639,162	930,938,330	1,232,690,464	0
Reported amounts will be recognized in Pension Expense during during Fiscal Year Ending June 30 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2024 2025	\$173,376 \$173,376 \$221,733 \$261,301 \$261,301	5,213 5,286 1,801	\$832.078 \$832.078 \$601.271 \$412.428 \$412.428	,447 ,147 ,809	(\$529,14 (\$529,14 (\$529,14 (\$510,9) (\$363,27	47,218) 47,218) 01,126)	(\$278,0; (\$278,0; (\$278,0; (\$278,0; (\$258,7)	28,594) 28,594) 28,594)	(\$206,77) (\$206,77) (\$206,77) (\$206,77) (\$206,77) (\$9,217)	0,490) 0,490) 0,490) 0,488)	\$307,732, \$307,732, \$307,732, \$307,732, \$307,732, \$1,759,5	721 721 721 722

# **NEW YORK CITY POLICE PENSION FUND (POLICE)**

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ending June 30, 2020, the City recognized Pension Expense for POLICE of \$1,644,265,978.

# At June 30, 2020, the City reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to Pensions for POLICE from the following sources:

	Deferred Outflows of Resources			Deferred Inflows of Resources		
Differences between Expected and Actual Experience	\$	353,675,231	\$	540,059,152		
Changes of Assumptions		0		206,528,063		
Net difference between Projected and Actual Earnings on Pension Plan Investments		96,024,271		0		
Total	\$	449,699,502	\$	746,587,215		

# Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to Pensions for POLICE will be recognized in Pension Expense as follows:

Fiscal Year		
Ending		
June 30	Amount	
2020	\$ (275,53	8,681)
2021	(540,34	0,025)
2022	(157,78	5,012)
2023	100,96	2,233
2024	298,51	5,512
2025	1,75	9,579

# **Appendix E**

# **APPENDIX E**

# NEW YORK CITY FIRE PENSION FUND (FIRE)

Page 1a 1b	-	Statement of Fiduciary Net Position - FIRE Statement of Fiduciary Net Position - FFVSF
1c		Statement of Fiduciary Net Position - FOVSF
Page 2a		Statement of Changes in Fiduciary Net Position - FIRE
2b		Statement of Changes in Fiduciary Net Position - FFVSF
2c	-	Statement of Changes in Fiduciary Net Position - FOVSF
Page 3	-	Market Value of Assets
Page 4	-	Long-Term Expected Rate of Return
Page 5a	-	Development of Asset (Gain) / Loss - June 30, 2019
5b	-	Development of Asset (Gain) / Loss - June 30, 2020
Page 6	-	Roll-Forward of Entry Age Accrued Liabilities to June 30, 2020
Page 7a	-	Changes in Net Pension Liability by Source - June 30, 2019
7b		Changes in Net Pension Liability by Source - June 30, 2020
Page 8	-	Schedule of Changes in Net Pension Liability and Related Ratios
Page 9	-	Schedule of Employer Contributions
Page 10	-	Average Expected Remaining Service Lives
Page 11	a -	Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Experience
11	b -	Increase (Decrease) in Pension Expense Arising from the Recognition of Changes in Assumptions
11	c -	Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Pension Plan Investments
Page 12	a -	Components of Pension Expense - June 30, 2019
12	b -	Components of Pension Expense - June 30, 2020
Page 13	a -	Pension Expense, Deferred Inflows/Outflows of Resources through June 30, 2020
13	b -	Pension Expense, Total Deferred Inflows/Outflows of Resources at June 30, 2020

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Fiduciary Net Position June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

June 30, 2020 June 30, 2019 ASSETS \$ 3,118 6,770 Cash \$ Receivables: Investment securities sold 372,313 269,966 20,559 23,052 Member loans Accrued interest and dividends 37.900 36.211 Accounts Receivables 91 225 \$ 430.863 \$ 329,454 Total receivables Investments - at fair value Short-term investments: 115.094 254.839 Commercial paper 78,084 Short-term investment fund 156,248 U.S. Treasury bills and agencies 470.090 0 Discount Notes 0 108,843 Debt securities: U.S. Government and agencies 1,383,806 1,513,791 Mortgage debt security 696,105 309,829 Corporate and other 1,341,212 1,469,495 Treasury inflation protected securities 462,901 667,049 Bank loans 61,355 102,820 Equity securities: 4,895,777 4,256,999 International equity 1,186,338 0 Alternative investments: 3,174,702 2,947,833 Collective trust funds: Bank loans 101,784 105,615 32,299 Corporate and other 624 International equity 877,623 2,368,346 Domestic equity 80,603 156,999 Mortgage debt security 52,601 107,129 Opportunistic fixed income 50,189 48,113 Treasury inflation protected securities 0 158,200 Collateral from securities lending 914,986 774,084 **Total Investments** \$ 16,226,186 \$ 15,256,219 Other assets 2.970 2,573 Total assets 16,663,137 \$ 15,595,016 \$ LIABILITIES 65.828 Accounts payable 167,302 Payables for investment securities purchased 580,330 292,460 Accrued benefits payable 15,418 8,552 Transferable Earnings due from QPP to VSFs 0 15.000 914,986 774,084 Securities lending Total liabilities 1,576,562 \$ 1,257,398 \$

#### Plan Net Position Held in Trust for Benefits

15,086,575

\$

\$

14,337,618

# NEW YORK CITY FIRE DEPARTMENT FIREFIGHTERS' VARIABLE SUPPLEMENTS FUND (FFVSF)

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Statement of Fiduciary Net Position June 30, 2020 and June 30, 2019

une 50, 2020 and 5une 50, 201

(Dollar amounts in thousands)

ASSETS CashS1,887S1,454Receivables: Investment securities sold160Accounts Receivables1082Accounts Receivables1470Transferable Earnings Due from QPP015,000Total receivables\$271\$Short-term investments: Commercial paper03,589Short-term investment fund222218U.S. Treasury bills and agency2,3500Debt securities:00Debt securities:160,922167,231Alternative investments:00Corporate and other56,28949,380International equity127,362145,185Domestic equity18,85313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$507,619\$Sourties000Total assets\$509,777\$Securities lending15,85610,296Total assets\$509,777\$Securities lending15,85610,296Total assets\$\$09,777\$Securities lending15,85610,296Total assets\$\$09,777\$Securities lending15,85610,296Total assets\$\$09,777\$Securities lending15,85610,29			June 30, 2020		June 30, 2019
Receivables: Investment securities sold160Accounts Receivables1082Accounts Receivables1470Transferable Earnings Due from QPP015,000Total receivables8271\$Short-term investments: Commercial paper03,589Short-term investment fund222218U.S. Treasury bills and agency2,3500Debt securities:00Equity securities:160,922167,231Alternative investments:00Compare and other56,28949,380International equity127,362145,185Domestic equity127,362145,185Domestic equity127,362145,185Domestic equity127,362145,185Domestic equity15,85610,296Total Investments\$509,777\$Collateral from securities lending15,85610,296Total assets\$509,777\$Stabilistic security124,51313,233Other assets000Collateral from securities purchased940Accounts payable100125Payables for investment securities purchased940Accounts payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Stables for investment securities purchased940Accounts payable<		s	1 887	\$	1 454
Investment securities sold160Accrued interest and dividends1082Accounts Receivables1470Transferable Earnings Due from QPP015,000Total receivables\$271\$Investments - at fair value\$\$218Short-term investments:03,589Commercial paper03,589Short-term investment fund222218U.S. Treasury bills and agency2,3500Discount Notes00Debt securities:160,922167,231Alternative investments:00Corporate and other56,28949,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total assets\$509,777\$S509,777\$529,689EIABILITIES100125Payables for investment securities purchased940Accounts payable100125Payables for investment securities purchased940Account benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Account de benefits payable19,45119,953Securities lending15,85610,296 <th>Cash</th> <th>ψ</th> <th>1,007</th> <th>Φ</th> <th>1,404</th>	Cash	ψ	1,007	Φ	1,404
Accrued interest and dividends $108$ 2Accounts Receivables $147$ 0Transferable Earnings Due from QPP $0$ $15,000$ Total receivables $$271$ $$$ $15,002$ Investments - at fair valueShort-term investments: $0$ $3,589$ Short-term investments: $0$ $3,589$ Commercial paper $0$ $3,589$ Short-term investment fund $222$ $218$ U.S. Treasury bills and agency $2,350$ $0$ Discount Notes $0$ $0$ Debt securities: $160,922$ $167,231$ Atternative investments: $0$ $0$ Corporate and other $56,289$ $49,380$ International equity $127,362$ $145,185$ Domestic equity $18,543$ $13,624$ Mortgage debt security $52,968$ $51,407$ U.S. Government and agency $73,107$ $72,303$ Collateral from securities lending $15,856$ $10,296$ Total assets $$509,777$ $$529,689$ LIABILITIES $$0$ $0$ Accounts payable $94$ $0$ Accounts payable $94$ $0$ Accounts payable $19,451$ $19,953$ Securities lending $15,856$ $10,296$ Total liabilities $$35,501$ $$30,374$	Receivables:				
Accounts Receivables $147$ 0Transferable Earnings Due from QPP Total receivables $\frac{1}{8}$ $\frac{1}{2,000}$ Investments - at fair value Short-term investments: Commercial paper $0$ $3,589$ Short-term investments: U.S. Treasury bills and agency $2,350$ $0$ Discourt Notes $0$ $0$ Debt securities: $0$ $0$ Collective trust funds: Corporate and other $160,922$ $167,231$ Alternative investments: $0$ $0$ Collective trust funds: Corporate and other $56,289$ $49,380$ International equity $127,362$ $145,185$ Domestic equity $15,856$ $10,296$ Total Investments $8$ $507,619$ $8$ Statistic ending $15,856$ $10,296$ Total assets $5$ $509,777$ $5$ Statistic ending $100$ $125$ Payables for investment scurities purchased $94$ $0$ Accounts payable $19,451$ $19,953$ Securities lending $15,856$ $10,296$ Total liabilities $5$ $35,501$ $5$ Total liabilities $5$ $55,501$ $5$ Total liabilities $5$ $50,374$	Investment securities sold		16		0
Transferable Earnings Due from QPP Total receivables0 $15,000$ Investments - at fair value Short-term investments: Commercial paper0 $3,589$ Short-term investment fund $222$ U.S. Treasury bills and agency Discount Notes00Debt securities: Equity securities:00Debt securities: Corporate and other Corporate and other U.S. Growermment and agency00Collective trust funds: Corporate and other Corporate and other U.S. Growermment and agency56,28949,380Collective trust funds: Corporate and other U.S. Government and agency52,96851,407VU.S. Government and agency U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$509,777\$States000Counts payable Payables for investment securities purchased Accruted benefits payable100125Payables for investment securities purchased 19,45194,45119,953Securities lending15,85610,296Total liabilities\$35,501\$State Securities lending15,85610,296	Accrued interest and dividends		108		2
Total receivables\$ $271$ \$ $15,002$ Investments - at fair value Short-term investments: Commercial paper0 $3,589$ Short-term investment fund $222$ $218$ U.S. Treasury bills and agency $2,350$ 0Discount Notes00Debt securities:00Collective trust funds:00Corporate and other $56,289$ $49,380$ International equity $127,362$ $145,185$ Domestic equity $85,433$ $13,624$ Mortgage debt security $52,968$ $51,407$ U.S. Government and agency $73,107$ $72,303$ Collateral from securities lending $15,856$ $10,296$ Total Investments\$ $507,619$ \$Shott-terms\$ $509,777$ \$Accounts payable $100$ $125$ Payables for investment securities purchased $94$ $0$ Accrued benefits payable $19,451$ $19,953$ Securities lending $15,856$ $10,296$ Total liabilities\$ $35,501$ \$Total liabilities\$ $35,501$ \$ $30,374$	Accounts Receivables		147		0
Investments - at fair value Short-term investments: Commercial paper03,589 Short-term investment fund222218 218 223500U.S. Treasury bills and agency2,35000Discount Notes000Debt securities:000Equity securities:000Corporate and other56,28949,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$507,619\$Statests000Total assets\$509,777\$Secounts payable100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Actual benefits payable19,45119,953Securities lending15,85610,296	Transferable Earnings Due from QPP		0		15,000
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Total receivables	\$	271	\$	15,002
Commercial paper0 $3,589$ Short-term investment fund $222$ $218$ U.S. Treasury bills and agency $2,350$ 0Discount Notes000Debt securities:00Equity securities:160,922167,231Alternative investments:00Corporate and other56,28949,380International equity127,362145,185Domestic equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$509,777\$S509,777\$529,689LIABILITIES100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Actrue benefits payable19,45119,953Securities lending15,85610,296	Investments - at fair value				
Short-term investment fund222218U.S. Treasury bills and agency2,3500Discount Notes00Debt securities:00Equity securities:160,922167,231Alternative investments:00Corporate and other56,28949,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$507,619\$States000Total assets\$509,777\$LIABILITIES100125Accounts payable100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$States\$35,501\$30,374	Short-term investments:				
U.S. Treasury bills and agency Discount Notes2,3500Discount Notes00Debt securities:00Equity securities:160,922167,231Alternative investments:00Corporate and other56,28949,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collactral from securities lending15,85610,296Total Investments\$507,619\$States000Cother assets00ItABILITIES\$509,777\$Accounts payable100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Active lending15,85610,296	Commercial paper		0		3,589
Discount Notes00Debt securities:00Equity securities:160,922167,231Alternative investments:00Collective trust funds:00Corporate and other56,28949,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$509,777\$South Spayable940Accounts payable100125Payables for investment securities purchased940Accounts payable19,45119,953Securities lending15,85610,296Total liabilities $\frac{$}{35,501}$ $\frac{$}{30,374}$	Short-term investment fund		222		218
Debt securities:00Equity securities:160,922167,231Alternative investments:00Collective trust funds:00Corporate and other56,28949,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$507,619\$South assets00Total assets\$509,777\$LIABILITIES\$100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Sourities lending15,85610,296	U.S. Treasury bills and agency		2,350		0
Equity securities: $160,922$ $167,231$ Alternative investments:00Collective trust funds:0Corporate and other $56,289$ $49,380$ International equity $127,362$ $145,185$ Domestic equity $18,543$ $13,624$ Mortgage debt security $52,968$ $51,407$ U.S. Government and agency $73,107$ $72,303$ Collateral from securities lending $15,856$ $10,296$ Total Investments\$ $507,619$ \$South rassets00Total assets\$ $509,777$ \$LIABILITIES $8$ $509,777$ \$Accounts payable $100$ $125$ Payables for investment securities purchased $94$ 0Accrued benefits payable $19,451$ $19,953$ Securities lending $15,856$ $10,296$ Total liabilities\$ $35,501$ \$Source and the securities purchased $94$ $0$ Accrued benefits payable $10,296$ $10,296$	Discount Notes		0		0
Alternative investments:00Collective trust funds: $56,289$ 49,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$ 507,619\$ 513,233Other assets00Total assets\$ 509,777\$ 529,689LIABILITIES100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	Debt securities:		0		0
Collective trust funds:56,28949,380International equity127,362145,185Domestic equity18,54313,624Mortgage debt security52,96851,407U.S. Government and agency73,10772,303Collateral from securities lending15,85610,296Total Investments\$507,619\$S509,777\$529,689LIABILITIES100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$30,374110,953	Equity securities:		160,922		167,231
Corporate and other $56,289$ $49,380$ International equity $127,362$ $145,185$ Domestic equity $18,543$ $13,624$ Mortgage debt security $52,968$ $51,407$ U.S. Government and agency $73,107$ $72,303$ Collateral from securities lending $15,856$ $10,296$ Total Investments\$ 507,619\$ 513,233Other assets00Total assets\$ 509,777\$ 529,689LIABILITIES100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	Alternative investments:		0		0
International equity $127,362$ $145,185$ Domestic equity $18,543$ $13,624$ Mortgage debt security $52,968$ $51,407$ U.S. Government and agency $73,107$ $72,303$ Collateral from securities lending $15,856$ $10,296$ Total Investments\$ 507,619\$ 513,233Other assets00Total assets\$ 509,777\$ 529,689LIABILITIES100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	Collective trust funds:				
Domestic equity $18,543$ $13,624$ Mortgage debt security $52,968$ $51,407$ U.S. Government and agency $73,107$ $72,303$ Collateral from securities lending $15,856$ $10,296$ Total Investments\$ 507,619\$ 513,233Other assets00Total assets\$ 509,777\$ 529,689LIABILITIES100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	Corporate and other		56,289		49,380
Mortgage debt security $52,968$ $51,407$ U.S. Government and agency $73,107$ $72,303$ Collateral from securities lending $15,856$ $10,296$ Total Investments\$ $507,619$ \$ $513,233$ Other assets00Total assets\$ $509,777$ \$ $529,689$ LIABILITIES100125Payables for investment securities purchased940Accounts payable19,45119,953Securities lending15,85610,296Total liabilities\$ $35,501$ \$ $30,374$	International equity		127,362		145,185
U.S. Government and agency Collateral from securities lending $73,107$ $15,856$ $72,303$ $10,296$ Total Investments\$ $507,619$ \$ $513,233$ Other assets000Total assets\$ $509,777$ \$ $529,689$ LIABILITIES Payables for investment securities purchased Accrued benefits payable Securities lending $100$ $125$ $19,451$ $19,953$ $15,856$ $10,296$ Total liabilities\$ $35,501$ \$ $30,374$	Domestic equity		18,543		13,624
Collateral from securities lending15,85610,296Total Investments\$507,619\$513,233Other assets000Total assets\$509,777\$529,689LIABILITIES100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Securities lending\$30,374	Mortgage debt security		52,968		51,407
Total Investments\$507,619\$513,233Other assets00Total assets\$509,777\$529,689LIABILITIES\$100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$35,501\$Securities lending\$30,374	U.S. Government and agency		73,107		72,303
Other assets00Total assets\$ 509,777\$ 529,689LIABILITIES100125Accounts payable940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	Collateral from securities lending		15,856		10,296
Total assets\$509,777\$529,689LIABILITIESAccounts payablePayables for investment securities purchasedAccrued benefits payableAccrued benefits payableSecurities lendingTotal liabilities\$35,501\$30,374	Total Investments	\$	507,619	\$	513,233
LIABILITIESAccounts payable100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	Other assets		0		0
Accounts payable100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	Total assets	\$	509,777	\$	529,689
Accounts payable100125Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374	LIABILITIES				
Payables for investment securities purchased940Accrued benefits payable19,45119,953Securities lending15,85610,296Total liabilities\$ 35,501\$ 30,374			100		125
Accrued benefits payable       19,451       19,953         Securities lending       15,856       10,296         Total liabilities       \$ 35,501       \$ 30,374			94		0
Securities lending         15,856         10,296           Total liabilities         \$ 35,501         \$ 30,374			19,451		19,953
Plan Net Position Held in Trust for Benefits\$ 474,276\$ 499,315	Total liabilities	\$	35,501	\$	30,374
	Plan Net Position Held in Trust for Benefits	\$	474,276	\$	499,315

# **NEW YORK CITY FIRE DEPARTMENT** FIRE OFFICERS' VARIABLE SUPPLEMENTS FUND (FOVSF)

### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### **Statement of Fiduciary Net Position** June 30, 2020 and June 30, 2019

(Dollar amounts in thousands)

ASSETS Cash S Receivables: Investment securities sold Accrued interest and dividends Accounts Receivables Transferable Earnings Due from QPP Total receivables Investments - at fair value Short-term investments: Commercial paper Short-term investment fund	5	947 5 308 36 0 349 0 160 1,299 0 0 112,697	\$	$ \begin{array}{r} 1,181\\ 1,801\\ 309\\ 1\\ 0\\ 2,111\\ 2,401\\ 128\\ 0\\ 0\\ 0\\ \end{array} $
Receivables: Investment securities sold Accrued interest and dividends Accounts Receivables Transferable Earnings Due from QPP Total receivables Investments - at fair value Short-term investments: Commercial paper	-	5 308 36 0 349 0 160 1,299 0 0	·	1,801 309 1 0 2,111 2,401 128 0
Investment securities sold Accrued interest and dividends Accounts Receivables Transferable Earnings Due from QPP Total receivables Investments - at fair value Short-term investments: Commercial paper	\$	308 36 0 349 0 160 1,299 0 0	\$	309 1 0 2,111 2,401 128 0
Accrued interest and dividends Accounts Receivables Transferable Earnings Due from QPP Total receivables Investments - at fair value Short-term investments: Commercial paper	5	308 36 0 349 0 160 1,299 0 0	\$	309 1 0 2,111 2,401 128 0
Accounts Receivables Transferable Earnings Due from QPP Total receivables 5 Investments - at fair value Short-term investments: Commercial paper	\$	36 0 349 0 160 1,299 0 0	\$	1 0 2,111 2,401 128 0
Transferable Earnings Due from QPP Total receivables 5 Investments - at fair value Short-term investments: Commercial paper	\$	0 349 0 160 1,299 0 0	\$	0 2,111 2,401 128 0
Total receivables 5 Investments - at fair value Short-term investments: Commercial paper	\$	0 160 1,299 0 0	\$	2,111 2,401 128 0
Investments - at fair value Short-term investments: Commercial paper	8	0 160 1,299 0 0	\$	2,401 128 0
Short-term investments: Commercial paper		160 1,299 0 0		128 0
Commercial paper		160 1,299 0 0		128 0
1 1		160 1,299 0 0		128 0
Short-term investment fund		1,299 0 0		0
		0 0		
U.S. Treasury bills and agency		0		0
Discount Notes				0
Debt securities:		112 607		0
Equity securities:		112,097		122,675
Alternative investments:		0		0
Collective trust funds:				
Corporate and other		40,014		0
International equity		90,792		105,202
Domestic equity		13,039		9,587
Mortgage debt security		37,653		0
U.S. Government and agency		51,969		110,088
Collateral from securities lending		10,863		7,770
Total Investments	\$	358,486	\$	357,851
Other assets		0		0
Total assets	\$	359,782	\$	361,143
LIABILITIES				
Accounts payable		65		105
Payables for investment securities purchased		66		1,882
Accrued benefits payable		8,932		9,008
Securities lending		10,863		7,770
Total liabilities	\$	19,926	\$	18,765
Plan Net Position Held in Trust for Benefits	\$	339,856	\$	342,378

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Changes in Fiduciary Net Position June 30, 2020 and June 30, 2019 (Dollar amounts in thousands)

June 30, 2020 June 30, 2019 ADDITIONS Contributions: \$ \$ Member Contributions 106,821 108,015 **Employer** Contributions 1,419,270 1,398,565 Total contributions \$ 1,526,091 \$ 1,506,580 Investment income: 181,067 Interest income 172,679 Dividend income 174,436 170,140 Net appreciation (depreciation) in fair value 411,582 667,697 \$ \$ Total investment income 758,697 1,018,904 Less: 89.976 Investment expenses 80.078 Net income 678,619 928,928 Securities lending transactions: 3,047 5,498 Securities lending income Securities lending fees (283)(537)\$ 2,764 \$ 4,961 Net securities lending income Net investment income 681,383 933,889 Other: Net receipts from other retirement systems 1,337 1,565 Litigation income 1,505 492 Other total 2,842 2,057 Transferable Earnings due from VSFs to QPP 15,000 14,000 Total additions 2,225,316 2,456,526 **DEDUCTIONS** 1,447,071 1,376,090 Benefit payments and withdrawals Transferable Earnings due from QPP to VSFs 0 0 9,861 Administrative expenses 9.131 Payment to VSFs - Interest on SKIM 20,157 0 Total deductions 1,476,359 1,385,951 **INCREASE IN PLAN NET POSITION** 748,957 1,070,575 PLAN NET POSITION HELD IN TRUST FOR BENEFITS: Beginning of year \$ 14,337,618 13,267,043 End of year \$ 15,086,575 \$ 14,337,618

# NEW YORK CITY FIRE DEPARTMENT FIREFIGHTERS' VARIABLE SUPPLEMENTS FUND (FFVSF)

### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Statement of Changes in Fiduciary Net Position June 30, 2020 and June 30, 2019

(Dollar amounts in thousands)

		June 30, 2020	June 30, 2019
ADDITIONS			
Contributions:	-		_
Member Contributions	\$	0	\$ 0
Employer Contributions		0	 0
Total contributions	\$	0	\$ 0
Investment income:			
Interest income		5,115	5,301
Dividend income		7,480	8,470
Net appreciation (depreciation) in fair value		9,012	 14,347
Total investment income	\$	21,607	\$ 28,118
Less:			
Investment expenses		220	280
Net income		21,387	27,838
Securities lending transactions:			
Securities lending income		142	155
Securities lending fees		(12)	 (14)
Net securities lending income	\$	130	\$ 141
Net investment income		21,517	27,979
Other:			
Net receipts from other retirement systems		0	0
Litigation income		0	0
Payment from QPP - Interest on SKIM		12,792	0
Other total		12,792	0
Transferable Earnings due from QPP to FFVSF		0	0
Total additions		34,309	 27,979
DEDUCTIONS			
Benefit payments and withdrawals		44,348	44,744
Transferable Earnings due from FFVSF to QPP		15,000	14,000
Total deductions		59,348	58,744
		55,510	 50,711
INCREASE IN PLAN NET POSITION		(25,039)	(30,765)
PLAN NET POSITION HELD IN TRUST FOR BENEFITS:			
Beginning of year	\$	499,315	\$ 530,080
End of year	\$	474,276	\$ 499,315

# NEW YORK CITY FIRE DEPARTMENT FIRE OFFICERS' VARIABLE SUPPLEMENTS FUND (FOVSF)

### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Statement of Changes in Fiduciary Net Position June 30, 2020 and June 30, 2019

(Dollar amounts in thousands)

	June 30, 2020		June 30, 2019
ADDITIONS			
Contributions:			
Member Contributions	\$ 0	\$	0
Employer Contributions	 0		0
Total contributions	\$ 0	\$	0
Investment income:			
Interest income	3,476		3,604
Dividend income	5,339		5,973
Net appreciation (depreciation) in fair value	 7,087		11,023
Total investment income	\$ 15,902	\$	20,600
Less:			
Investment expenses	154		219
Net income	15,748		20,381
Securities lending transactions:			
Securities lending income	99		109
Securities lending fees	 (8)		(10)
Net securities lending income	\$ 91	\$	99
Net investment income	15,839		20,480
Other:			
Net receipts from other retirement systems	0		0
Litigation income	0		0
Payment from QPP - Interest on SKIM	7,365		0
Other total	7,365		0
Transferable Earnings due from QPP to FOVSF	0		0
Total additions	 23,204		20,480
DEDUCTIONS			
Benefit payments and withdrawals	25,726		24,735
Total deductions	 25,726	. <u> </u>	24,735
INCREASE IN PLAN NET POSITION	(2,522)		(4,255)
PLAN NET POSITION HELD IN TRUST FOR BENEFITS:			
Beginning of year	\$ 342,378	\$	346,633
End of year	\$ 339,856	\$	342,378

### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### **Market Values of Assets**

1. 2. 3. 4.	Plan Net Position @ 6/30/2018 Accrued Benefits Payable Transferable Earnings due from QPP to VSFs Adjusted Market Value @ 6/30/2018	\$ <b>QPP</b> 13,282,043,000 0 (15,000,000) 13,267,043,000	\$ <b>FFVSF</b> 515,080,000 20,427,000 15,000,000 550,507,000	\$ FOVSF 346,633,000 9,079,000 0 355,712,000	<b>Total</b> 14,143,756,000 29,506,000 0 14,173,262,000
5.	Changes for the year: a. ER Contributions	1,398,565,000	0	0	1,398,565,000
	<ul><li>b. EE Contributions</li><li>c. Net Investment Income</li></ul>	108,015,000 933,889,000	0 0 27,979,000	0 20,480,000	108,015,000 982,348,000
	<ul> <li>d. Benefit Payments<sup>1</sup></li> <li>e. Administrative Expenses</li> </ul>	(1,376,090,000) (9,861,000)	(45,218,000) 0	(24,806,000) 0	(1,446,114,000) (9,861,000)
	f. Other g. Net Changes	\$ 2,057,000 1,056,575,000	\$ 0 (17,239,000)	\$ 0 (4,326,000)	\$ 2,057,000 1,035,010,000
6. 7.	Plan Net Position @ 6/30/2019 Accrued Benefits Payable	\$ 14,323,618,000 0	\$ 513,315,000 19,953,000	\$ 342,378,000 9,008,000	\$ 15,179,311,000 28,961,000
8. 9.	Transferable Earnings due from VSFs to QPP Adjusted Market Value @ 6/30/2019	\$ 14,000,000 14,337,618,000	\$ (14,000,000) 519,268,000	\$ 0 351,386,000	\$ 0 15,208,272,000
10.					
	<ul><li>a. ER Contributions</li><li>b. EE Contributions</li><li>c. Net Investment Income</li></ul>	1,419,270,000 106,821,000 681,383,000	0 0 21,517,000	0 0 15,839,000	1,419,270,000 106,821,000 718,739,000
	<ul> <li>d. Benefit Payments<sup>2</sup></li> <li>e. Administrative Expenses</li> <li>f. Other</li> </ul>	(1,447,071,000) (9,131,000) (17,315,000)	(44,850,000) 0 12,792,000	(25,802,000) 0 7,365,000	(1,517,723,000) (9,131,000) 2,842,000
	g. Net Changes	\$ 733,957,000	\$ (10,541,000)	\$ (2,598,000)	\$ 720,818,000
11. 12. 13.		\$ 15,071,575,000 0 15,000,000	\$ 489,276,000 19,451,000 (15,000,000)	\$ 339,856,000 8,932,000 0	\$ 15,900,707,000 28,383,000 0
	Adjusted Market Value @ 6/30/2020	\$ 15,086,575,000	\$ 493,727,000	\$ 348,788,000	\$ 15,929,090,000

 $^1$  Includes Net Accrued Benefits Payable of -\$474,000 for FFVSF and -\$71,000 for FOVSF.

 $^2\,$  Includes Net Accrued Benefits Payable of -\$502,000 for FFVSF and -\$76,000 for FOVSF.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

## Long-Term Expected Rate of Return

The Long-Term Expected Rate of Return (LTEROR) assumption on pension fund investments was determined using a Building-Block Method in which best-estimate ranges of Expected Real Rates of Return (i.e. Expected Returns, net of pension fund investment expenses and inflation) are developed for each major asset class. These ranges are combined to produce the LTEROR by weighting the Expected Real Rates of Return (RROR) by the Target Asset Allocation percentage and by adding Expected Inflation. The Target Asset Allocation and best estimates of Arithmetic Real Rates of Return for each major asset class are summarized in the following table:

		Long-Term
	Target	Expected
	Asset	Real Rate
Asset Class	Allocation	of Return
Public Markets:		
U.S. Public Market Equities	27.0%	5.4%
Developed Public Market Equities	9.0%	6.1%
Emerging Public Market Equities	6.0%	9.6%
Fixed Income	31.0%	1.6%
Private Markets (Alternative Investments):		
Private Equity	8.0%	8.8%
Private Real Estate	7.0%	5.2%
Infrastructure	3.0%	4.7%
Hedge Funds	5.0%	3.5%
Opportunistic Fixed Income	<u>4.0%</u>	3.0%
Total	100.0%	

The Discount Rate used to measure the Total Pension Liability was 7.0% per annum. The projection of Cash Flows used to determine the Discount Rate assumes that employee contributions will be made at the rates applicable to the current Tier for each member and that employer contributions will be made at rates as determined by the Actuary. Based on those assumptions, the pension fund's Fiduciary Net Position is projected to be available to make all projected future benefit payments of current active and non-active members. Therefore, the Long-Term Expected Rate of Return on pension fund investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Development of Asset (Gain) / Loss June 30, 2019

	QPP			PP FFVSF		FOVSF	Total		
1. Assets									
a. Market Value 6/30/2018*	\$	13,282,043,000	\$	535,507,000	\$	355,712,000	\$ 14,173,262,000		
b. 2018 Transferable Earnings due from QPP to VSFs		(15,000,000)		15,000,000		0	0		
c. Adjusted Market Value @6/30/2018		13,267,043,000		550,507,000		355,712,000	14,173,262,000		
d. Market Value 6/30/2019**		14,323,618,000		533,268,000		351,386,000	15,208,272,000		
e. 2019 Transferable Earnings due from VSFs to QPP		14,000,000		(14,000,000)		0	0		
f. Adjusted Market Value @6/30/2019		14,337,618,000		519,268,000		351,386,000	15,208,272,000		
2. Net Investment Income		933,889,000		27,979,000		20,480,000	982,348,000		
3. Cash Flow (1.d 1.a 2.)		107,686,000		(30,218,000)		(24,806,000)	52,662,000		
4. Projected Earnings (7% * 1.a. + 3.441% * 3.)		933,448,485		36,445,689		24,046,266	993,940,440		
5. (Gain) / Loss (4 2.)		(440,515)		8,466,689		3,566,266	11,592,440		
6. Recognition Period		5 Years		5 Years		5 Years	5 Years		
7. Amount Recognized in Pension Expense (5. / 6.)		(88,103)		1,693,338		713,253	2,318,488		
8. Deferred (Inflow) / Outflow of Resources (5 7.)	\$	(352,412)	\$	6,773,351	\$	2,853,013	\$ 9,273,952		

\* Before Reflecting 2018 Transferable Earnings due from QPP to VSFs.

\*\* Before Reflecting 2019 Transferable Earnings due from VSFs to QPP.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Development of Asset (Gain) / Loss June 30, 2020

		QPP		FFVSF	FOVSF		Total
1.	Assets						
	a. Market Value 6/30/2019*	\$ 14,323,618,000	\$	533,268,000	\$ 351,386,000	\$	15,208,272,000
	b. 2019 Transferable Earnings due from VSFs to QPP	14,000,000		(14,000,000)	0		0
	c. Adjusted Market Value @6/30/2019	14,337,618,000		519,268,000	351,386,000		15,208,272,000
	d. Market Value 6/30/2020**	15,071,575,000		508,727,000	348,788,000		15,929,090,000
	e. 2020 Transferable Earnings due from VSFs to QPP	15,000,000		(15,000,000)	0		0
	f. Adjusted Market Value @6/30/2020	15,086,575,000		493,727,000	348,788,000		15,929,090,000
2.	Net Investment Income	681,383,000		21,517,000	15,839,000		718,739,000
3.	Cash Flow (1.d 1.a 2.)	66,574,000		(46,058,000)	(18,437,000)		2,079,000
4.	Projected Earnings (7% * 1.a. + 3.441% * 3.)	1,004,944,071		35,743,904	23,962,603		1,064,650,578
5.	(Gain) / Loss (4 2.)	323,561,071		14,226,904	8,123,603		345,911,578
6.	Recognition Period	5 Years		5 Years	5 Years		5 Years
7.	Amount Recognized in Pension Expense (5. / 6.)	64,712,214		2,845,381	1,624,721		69,182,316
8.	Deferred (Inflow) / Outflow of Resources (5 7.)	\$ 258,848,857	\$	11,381,523	\$ 6,498,882	\$	276,729,262

\* Before Reflecting 2019 Transferable Earnings due from VSFs to QPP.

\*\* Before Reflecting 2020 Transferable Earnings due from VSFs to QPP.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Roll-Forward of Entry Age Accrued Liabilities to June 30, 2020

		QPP	FFVSF		FOVSF		Total	
1.	Disclosed EA Accrued Liability at 6/30/2019	\$ 22,477,031,781	\$	490,809,341	\$	298,944,067	\$	23,266,785,189
2.	EA Normal Cost at 6/30/2019	559,170,761		8,525,579		4,958,293		572,654,633
3.	Benefit Payments - FY 2020	(1,447,071,000)		(44,850,000)		(25,802,000)		(1,517,723,000)
4.	Interest	1,562,740,465		33,410,156		20,385,318		1,616,535,939
5.	Experience (Gain)/Loss - FY 2020	150,563,311		(3,290,996)		(3,546,704)		143,725,611
6.	Roll-Forward EAAL at 6/30/2020	\$ 23,302,435,318	\$	484,604,080	\$	294,938,974	\$	24,081,978,372

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source Balances at June 30, 2019

		Total Pension Liability											
			QPP		FFVSF		FOVSF		Total				
1.	Balances at June 30, 2018	\$	21,073,770,457	\$	545,062,935	\$	373,078,788	\$	21,991,912,180				
2.	Changes for the Year:												
	a. Service Cost		467,492,657		10,961,502		6,373,623		484,827,782				
	b. Interest		1,460,537,161		37,365,759		25,708,094		1,523,611,014				
	c. Changes of Benefit Terms		0		0		0		0				
	d. Differences b/t Expected and Actual Experience		154,208,202		6,872,622		(20,300,459)		140,780,365				
	e. Changes of Assumptions		697,113,304		(64,235,477)		(61,109,979)		571,767,848				
	f. Benefit Payments		(1,376,090,000)		(45,218,000)		(24,806,000)		(1,446,114,000)				
	g. Net Changes	\$	1,403,261,324	\$	(54,253,594)	\$	(74,134,721)	\$	1,274,873,009				
3.	Balances at June 30, 2019	\$	22,477,031,781	\$	490,809,341	\$	298,944,067	\$	23,266,785,189				

		Plan Fiduciary Net Position <sup>1</sup>												
			QPP		FFVSF		FOVSF		Total					
4.	Balances at June 30, 2018	\$	13,267,043,000	\$	550,507,000	\$	355,712,000	\$	14,173,262,000					
5.	Changes for the Year:													
	a. Contributions - Employer		1,398,565,000		0		0		1,398,565,000					
	b. Contributions - Employee		108,015,000		0		0		108,015,000					
	c. Net Investment Income		933,889,000		27,979,000		20,480,000		982,348,000					
	d. Benefit Payments		(1,376,090,000)		(45,218,000)		(24,806,000)		(1,446,114,000)					
	e. Administrative Expenses		(9,861,000)		0		0		(9,861,000)					
	f. Other Changes		2,057,000		0		0		2,057,000					
	g. Net Changes	\$	1,056,575,000	\$	(17,239,000)	\$	(4,326,000)	\$	1,035,010,000					
6.	Transferable Earnings due from VSFs to QPP		14,000,000		(14,000,000)		0		0					
7.	Balances at June 30, 2019	\$	14,337,618,000	\$	519,268,000	\$	351,386,000	\$	15,208,272,000					

		Net Pension Liability												
			QPP		FFVSF		FOVSF		Total					
8.	Balances at June 30, 2018	\$	7,806,727,457	\$	(5,444,065)	\$	17,366,788	\$	7,818,650,180					
9.	Changes for the Year:													
	a. Service Cost		467,492,657		10,961,502		6,373,623		484,827,782					
	b. Interest		1,460,537,161		37,365,759		25,708,094		1,523,611,014					
	c. Changes of Benefit Terms		0		0		0		0					
	d. Differences b/t Expected and Actual Experience		154,208,202		6,872,622		(20,300,459)		140,780,365					
	e. Changes of Assumptions		697,113,304		(64,235,477)		(61,109,979)		571,767,848					
	f. Contributions - Employer		(1,398,565,000)		0		0		(1,398,565,000)					
	g. Contributions - Employee		(108,015,000)		0		0		(108,015,000)					
	h. Net Investment Income		(933,889,000)		(27,979,000)		(20,480,000)		(982,348,000)					
	i. Benefit Payments		0		0		0		0					
	j. Administrative Expenses		9,861,000		0		0		9,861,000					
	k. Other Changes		(2,057,000)		0		0		(2,057,000)					
	I. Net Changes	\$	346,686,324	\$	(37,014,594)	\$	(69,808,721)	\$	239,863,009					
10.	Transferable Earnings due from VSFs to QPP		(14,000,000)		14,000,000		0		0					
11.	Balances at June 30, 2019	\$	8,139,413,781	\$	(28,458,659)	\$	(52,441,933)	\$	8,058,513,189					

<sup>1</sup> Balances at 6/30/2018 and 6/30/2019 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Changes in Net Pension Liability (NPL) by Source Balances at June 30, 2020

		Total Pension Liability											
			QPP		FFVSF		FOVSF		Total				
1.	Balances at June 30, 2019	\$	22,477,031,781	\$	490,809,341	\$	298,944,067	\$	23,266,785,189				
2.	Changes for the Year:												
	a. Service Cost		559,170,761		8,525,579		4,958,293		572,654,633				
	b. Interest		1,562,740,465		33,410,156		20,385,318		1,616,535,939				
	c. Changes of Benefit Terms		0		0		0		0				
	d. Differences b/t Expected and Actual Experience		150,563,311		(3,290,996)		(3,546,704)		143,725,611				
	e. Changes of Assumptions		0		0		0		0				
	f. Benefit Payments		(1,447,071,000)		(44,850,000)		(25,802,000)		(1,517,723,000)				
	g. Net Changes	\$	825,403,537	\$	(6,205,261)	\$	(4,005,093)	\$	815,193,183				
3.	Balances at June 30, 2020	\$	23,302,435,318	\$	484,604,080	\$	294,938,974	\$	24,081,978,372				

		Plan Fiduciary Net Position <sup>1</sup>												
			QPP		FFVSF		FOVSF		Total					
4.	Balances at June 30, 2019	\$	14,337,618,000	\$	519,268,000	\$	351,386,000	\$	15,208,272,000					
5.	Changes for the Year:													
	a. Contributions - Employer		1,419,270,000		0		0		1,419,270,000					
	b. Contributions - Employee		106,821,000		0		0		106,821,000					
	c. Net Investment Income		681,383,000		21,517,000		15,839,000		718,739,000					
	d. Benefit Payments		(1,447,071,000)		(44,850,000)		(25,802,000)		(1,517,723,000)					
	e. Administrative Expenses		(9,131,000)		0		0		(9,131,000)					
	f. Other Changes		(17,315,000)		12,792,000		7,365,000		2,842,000					
	g. Net Changes	\$	733,957,000	\$	(10,541,000)	\$	(2,598,000)	\$	720,818,000					
6.	Transferable Earnings due from VSFs to QPP		15,000,000		(15,000,000)		0		0					
7.	Balances at June 30, 2020	\$	15,086,575,000	\$	493,727,000	\$	348,788,000	\$	15,929,090,000					

		Net Pension Liability											
			QPP		FFVSF		FOVSF		Total				
8.	Balances at June 30, 2019	\$	8,139,413,781	\$	(28,458,659)	\$	(52,441,933)	\$	8,058,513,189				
9.	Changes for the Year:												
	a. Service Cost		559,170,761		8,525,579		4,958,293		572,654,633				
	b. Interest		1,562,740,465		33,410,156		20,385,318		1,616,535,939				
	c. Changes of Benefit Terms		0		0		0		0				
	d. Differences b/t Expected and Actual Experience		150,563,311		(3,290,996)		(3,546,704)		143,725,611				
	e. Changes of Assumptions		0		0		0		0				
	f. Contributions - Employer		(1,419,270,000)		0		0		(1,419,270,000)				
	g. Contributions - Employee		(106,821,000)		0		0		(106,821,000)				
	h. Net Investment Income		(681,383,000)		(21,517,000)		(15,839,000)		(718,739,000)				
	i. Benefit Payments		0		0		0		0				
	j. Administrative Expenses		9,131,000		0		0		9,131,000				
	k. Other Changes		17,315,000		(12,792,000)		(7,365,000)		(2,842,000)				
	I. Net Changes	\$	91,446,537	\$	4,335,739	\$	(1,407,093)	\$	94,375,183				
10.	Transferable Earnings due from VSFs to QPP		(15,000,000)		15,000,000		0		0				
11.	Balances at June 30, 2020	\$	8,215,860,318	\$	(9,122,920)	\$	(53,849,026)	\$	8,152,888,372				

<sup>1</sup> Balances at 6/30/2019 and 6/30/2020 are Adjusted Market Values - See Page 3.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Changes in Net Pension Liability and Related Ratios

		<u>2020</u>	<u>2019</u>	2018		2017		<u>2016</u>		<u>2015</u>		<u>2014</u>		2013
<ol> <li>Total Pension Liability         <ol> <li>Service Cost</li> <li>Interest</li> <li>Changes of Benefit Terms</li> <li>Differences b/t Expected and Actual Experience</li> </ol> </li> </ol>	\$	572,654,633 \$ 1,616,535,939 0 143,725,611	484,827,782 \$ 1,523,611,014 0 140,780,365	436,368,702 1,484,608,815 11,602,422 124,635,710	\$	432,482,302 1,438,804,602 0 134,478,099	\$	431,267,723 1,395,735,250 0 323,609,267	\$	419,575,546 1,312,813,977 0 171,347,136	\$	412,911,205 1,215,276,517 0 0	\$	400,884,665 1,184,217,313 0 0
e. Change of Assumptions f. Benefit Payments		0 (1,517,723,000)	571,767,848 (1,446,114,000)	0 (1,379,533,000)		0 (1,335,343,000)		405,497,988 (1,359,095,000)		0 (1,220,441,000)		0 (1,171,998,000)		0 (1,135,469,000)
g. Net Changes	\$	815,193,183 \$	1,274,873,009 \$	677,682,649	\$	670,422,003	\$	1,197,015,228	\$	683,295,659	\$	456,189,722	\$	449,632,978
<ol> <li>Total Pension Liability - Beginning</li> <li>Total Pension Liability - Ending</li> </ol>	\$ \$	23,266,785,189 \$ 24,081,978,372 \$	21,991,912,180 \$ 23,266,785,189 \$	21,314,229,531 21,991,912,180	\$ \$	20,643,807,528 21,314,229,531	\$ \$	19,446,792,300 20,643,807,528	\$ \$	18,763,496,641 19,446,792,300	\$ \$	17,524,302,616 17,980,492,338	\$ \$	17,074,669,638 17,524,302,616
<ol> <li>Plan Fiduciary Net Position         <ol> <li>Contributions - Employer</li> <li>Contributions - Employee</li> <li>Net Investment Income</li> <li>Benefit Payments</li> <li>Administrative Expenses</li> <li>Other Changes</li> </ol> </li> </ol>	\$	1,419,270,000 \$ 106,821,000 718,739,000 (1,517,723,000) (9,131,000) 2,842,000	1,398,565,000 \$ 108,015,000 982,348,000 (1,446,114,000) (9,861,000) 2,057,000	1,200,417,000 108,338,000 1,249,731,000 (1,379,533,000) (6,412,000) 9,411,000	\$	1,061,170,000 108,368,000 1,371,721,000 (1,335,343,000) 0 47,284,000	\$	1,054,478,000 116,619,000 203,104,000 (1,359,095,000) 0 43,673,000	\$	988,784,000 108,582,000 302,567,000 (1,220,441,000) 0 41,201,000	\$	969,956,000 108,859,000 1,689,485,000 (1,171,998,000) 0 39,980,000	\$	962,173,000 104,816,000 1,042,431,000 (1,135,469,000) 0 38,965,000
g. Net Changes	\$	720,818,000 \$	1,035,010,000 \$	1,181,952,000	\$	1,253,200,000	\$	58,779,000	\$	220,693,000	\$	1,636,282,000	\$	1,012,916,000
5. Plan Fiduciary Net Position - Beginning 6. Plan Fiduciary Net Position - Ending	\$ \$	15,208,272,000 \$ 15,929,090,000 \$	14,173,262,000 \$ 15,208,272,000 \$	12,991,310,000 14,173,262,000	S S	11,738,110,000 12,991,310,000	\$ \$	11,679,331,000 11,738,110,000	\$ \$	11,458,638,000 11,679,331,000	\$ \$	9,822,356,000 11,458,638,000	\$ \$	8,809,440,000 9,822,356,000
7. FIRE Net Pension Liability	\$	8,152,888,372 \$	8,058,513,189 \$	7,818,650,180	\$	8,322,919,531	\$	8,905,697,528	\$	7,767,461,300	\$	6,521,854,338	\$	7,701,946,616
8. Plan Fiduciary Net Position as a Percentage of Total Pension Liability		66.1%	65.4%	64.4%		61.0%		56.9%		60.1%		63.7%		56.0%
9. Covered Employee Payroll <sup>1</sup>	\$	1,336,843,002 \$	1,302,871,992 \$	1,164,528,195	\$	1,145,919,396	\$	1,129,469,957	\$	1,111,744,091	\$	1,102,396,453	\$	1,129,926,037
10. FIRE Net Pension Liability as a Percentage of Covered Employee Payroll		609.9%	618.5%	671.4%		726.3%		788.5%		698.7%		591.6%		681.6%

<sup>1</sup> Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Schedule of Employer Contributions (\$ in thousands)

Fiscal Year Ending June 30		2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
1. Actuarially Determined Contribution	\$	1,419,270 \$	1,398,565 \$	1,200,417	\$ 1,061,170	\$ 1,054,478	\$ 988,784 \$	969,956 \$	962,173 \$	976,895 \$	890,706
2. Contributions in relation to the Actuarially Determined Contribution	<u>\$</u>	1,419,270 \$	1,398,565 \$	1,200,417	<u>\$ 1,061,170</u>	<u>\$ 1,054,478</u>	<u>\$ 988,784</u>	969,956 \$	962,173 \$	976,895 \$	890,706
3. Contribution Deficiency (Excess)		0	0	0	0	0	0	0	0	0	0
<ol> <li>Contributions as a percentage of Covered Employee Payroll*</li> </ol>		106.166%	107.345%	103.082%	92.604%	93.360%	88.940%	87.986%	85.154%	84.990%	82.248%

\* Projected employee payroll at time 1.0 under previous roll-forward methodology through 2018. Actual employee payroll at valuation date (time = 0) beginning in 2019.

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Average Expected Remaining Service Lives

		Average Expected
		Remaining Service Life
<u>Group</u>	<u># Count</u>	<u>@ 6/30/2019</u>
Active	11,244	13.66
Active Off Payroll	28	0
Terminated Vested	67	0
Retired	16,628	0
Total	27,967	5.49

### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Expected and Actual Experience

Year	Differences between Expected and Actual Experience	Recognition Period (Years)	2019	2020	2021	2022	2023	i	2024	2025
2017	134,478,099	4.60	\$ 29,234,369	\$ 29,234,369	\$ 17,540,623					
2018	124,635,710	4.94	\$ 25,229,901	\$ 25,229,901	\$ 25,229,901	\$ 23,716,106				
2019	140,780,365	5.47	\$ 25,736,813	\$ 25,736,813	\$ 25,736,813	\$ 25,736,813	\$ 25,736,813	\$	12,096,300	
2020	143,725,611	5.49		\$ 26,179,528	\$ 26,179,528	\$ 26,179,528	\$ 26,179,528	\$	26,179,528	\$ 12,827,971
et increase (	(decrease) in Pension Exp	ense	\$ 80,201,083	\$ 106,380,611	\$ 94,686,865	\$ 75,632,447	\$ 51,916,341	\$	38,275,828	\$ 12,827,971

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Increase (Decrease) in Pension Expense Arising from the Recognition of Changes in Assumptions

Year	Changes in Assumptions	Recognition Period (Years)	2019	2020	2021	2022	2023	2024
2019	571,767,848	5.47	\$ 104,527,943 \$	104,527,943	\$ 104,527,943	\$ 104,527,943 \$	104,527,943 \$	49,128,133
2020	0	0	\$	0				
Net increase (	decrease) in Pension Expe	nse	\$ 104,527,943 \$	104,527,943	\$ 104,527,943	\$ 104,527,943 \$	104,527,943 \$	49,128,133

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Increase (Decrease) in Pension Expense Arising from the Recognition of Differences between Projected and Actual Earnings on Pension Plan Investments

	Differences between Projected and Actual Earnings on Pension Plan	Recognition Period						
Year	Investments	(Years)	 2019	2020	2021	2022	2023	2024
2015	496,720,375	5	\$ 99,344,071					
2016	609,482,946	5	\$ 121,896,589 \$	121,896,590				
2017	(554,131,607)	5	\$ (110,826,321) \$	(110,826,321) \$	(110,826,323)			
2018	(342,671,575)	5	\$ (68,534,315) \$	(68,534,315) \$	(68,534,315) \$	(68,534,315)		
2019	11,592,440	5	\$ 2,318,488 \$	2,318,488 \$	2,318,488 \$	2,318,488 \$	2,318,488	
2020	345,911,578	5	\$	69,182,316 \$	69,182,316 \$	69,182,316 \$	69,182,316 \$	69,182,314
Net increase (d	lecrease) in Pension Expe	ense	\$ 44,198,512 \$	14,036,758 \$	(107,859,834) \$	2,966,489 \$	71,500,804 \$	69,182,314

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# Components of Pension Expense for the Fiscal Year Ending June 30, 2019

<u>Component</u>	<u>Amount</u>
a. Service Cost	\$ 484,827,782
b. Interest on the Total Pension Liability	1,523,611,014
c. Changes of Benefit Terms	0
d. Differences between Expected and Actual Experience	80,201,083
e. Changes of Assumptions	104,527,943
f. Employee Contributions	(108,015,000)
g. Projected Earnings on Pension Plan Investments	(993,940,440)
h. Differences between Projected and Actual Earnings on Plan Investments	44,198,512
i. Pension Plan Administrative Expenses	9,861,000
j. Other Changes in Fiduciary Net Position	 (2,057,000)
Total Pension Expense	\$ 1,143,214,894

1,143,214,894 \$

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

# **Components of Pension Expense for the Fiscal Year Ending June 30, 2020**

#### **Component**

#### **Amount**

\$ 1,248,953,306
 (2,842,000)
9,131,000
14,036,758
(1,064,650,578)
(106,821,000)
104,527,943
106,380,611
0
1,616,535,939
\$ 572,654,633

#### Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

#### Pension Expense, Deferred Outflows and Inflows of Resources

Recognized Pension Expense	Fiscal Year Ending June 30, 2015 \$663,750,858		Fiscal Year June 30, <b>\$1,139,05</b>	2016	Fiscal Yea June 30 <b>\$1,071,1</b> 4	, 2017	Fiscal Yea June 30 <b>\$973,68</b>	, 2018	Fiscal Year June 30, <b>\$1,143,2</b> 1	2019	Fiscal Year June 30, <b>\$1,248,95</b>	2020
Deferred Resources	Outflows Inflo	ws	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows	Outflows	Inflows
Differences Between Expected and Actual Experience	104,152,181	0	198,179,319	0	105,243,730	0	99,405,809	0	115,043,552	0	117,546,083	0
Changes of Assumptions	0	0	248,328,225	0	0	0	0	0	467,239,905	0	0	0
Net Difference between Projected and Actual Earnings on Pension Plan Investments	397,376,299	0	487,586,357	0	0	443,305,286	0	274,137,260	9,273,952	0	276,729,262	0
Total	501,528,480	0	934,093,901	0	105,243,730	443,305,286	99,405,809	274,137,260	591,557,409	0	394,275,345	0
Reported amounts will be recognized in Pension Expense during Fiscal Year Ending June 30 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2024	\$166,539,031 \$166,539,031 \$136,301,302 \$99,344,076 \$99,344,071		\$404,490 \$404,490 \$285,800 \$121,890 \$121,890	5,300 4,422 5,589	(\$81,59 (\$81,59 (\$81,59 (\$81,59 (\$93,28	1,952) 1,952) 1,952)	(\$43,30 (\$43,30 (\$43,30 (\$43,30 (\$44,81	4,414) 4,414) 4,414)	\$132,58; \$132,58; \$132,58; \$132,58; \$132,58; \$132,58; \$61,224	3,244 3,244 3,244 3,244	\$95,361, \$95,361, \$95,361, \$95,361, \$12,827,	844 844 844 842

# Governmental Accounting Standards Board Statements No. 67 and No. 68 (GASB 67/68)

### Pension Expense, Deferred Outflows of Resources, Deferred Inflows of Resources

For the Fiscal Year ending June 30, 2020, the City recognized Pension Expense for FIRE of \$1,248,953,306.

At June 30, 2020, the City reported total Deferred Outflows of Resources and Deferred Inflows of Resources related to Pensions for FIRE from the following sources:

<b>-</b>	(	Deferred Outflows of Resources	Deferred Inflows of Resources		
Differences between Expected and Actual Experience	\$	273,339,452	\$	0	
Changes of Assumptions		362,711,962		0	
Net difference between Projected and Actual Earnings on Pension Plan Investments		35,789,773		0	
Total	\$	671,841,187	\$	0	

# Amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to Pensions for FIRE will be recognized in Pension Expense as follows:

Fiscal Year	
Ending	
June 30	Amount
2020	\$ 224,945,312
2021	91,354,974
2022	183,126,879
2023	227,945,088
2024	156,586,275
2025	12,827,971