STATE OF RHODE ISLAND
INVESTMENT COMMISSION MEETING

DATA AT
June 30th, 2019

July 24th, 2019
MEETING

MEMBERS OF THE STATE INVESTMENT COMMISSION

Honorable Seth Magaziner, Chair

Mr. Robert K. Benson
Mr. Erik Carleton
Mr. J. Michael Costello
Mr. Thomas P. Fay
Ms. Karen Hammond
Ms. Karen Hazard
Mr. Frank Karpinski
Ms. Sylvia Maxfield
Mr. Thomas Mullaney

Section I.

Agenda

State of Rhode Island and Providence Plantations
Office of the General Treasurer

Seth Magaziner
General Treasurer

RHODE ISLAND STATE INVESTMENT COMMISSION
MEETING NOTICE

The next meeting of the Rhode Island State Investment Commission has been scheduled for Wednesday, July 24th, 2019 at 9:00 a.m. **in the Executive Conference Room, Department of Administration, 1 Capitol Hill, Providence**.

AGENDA

- Chairperson Call to Order
- Membership Roll Call
- Approval of Draft Meeting Minutes [1]
  - State Investment Commission Meeting held June 26th, 2019
- Opportunistic Private Credit Recommendation, Davidson Kempner Long-Term Distressed Opportunities Fund V LP [1]
  - Melanie Levine, Davidson Kempner
- Asset Allocation Analysis, NEPC
  - Will Forde, Doug Moseley & Rob Goldthorpe, NEPC
- Investment Structure Reviews: Voya and Fidelity 457(b) Plans, Capital Cities [1]
  - Tiffany Spudich & Corey Waddell, Capital Cities
- Legal Counsel Report
- Chief Investment Officer Report
- Treasurer's General Comments

[1] Commission members may be asked to vote on this item.

POSTED ON July 19, 2019

Anyone wishing to attend this meeting who may have special needs for access or services such as an interpreter, please contact Justin Maistrow at (401) 574-9246 twenty-four hours in advance of the scheduled meeting.

Section II.

Approval of Minutes

State Investment Commission

Monthly Meeting Minutes
Wednesday, June 26th, 2019 9:00 a.m.
Executive Conference Room, Department of Administration

The Monthly Meeting of the State Investment Commission (SIC) was called to order at 9:05 AM, Wednesday, June 26th, 2019 in the Executive Conference Room, Department of Administration.

I. Roll Call of Members[1]

The following members were present: Mr. Michael Costello, Mr. Thomas Fay, Ms. Sylvia Maxfield, Mr. Thomas Mullaney, Ms. Karen Hammond, Ms. Karen Hazard, Mr. Erik Carleton and Treasurer Seth Magaziner.

Also in attendance: Will Forde & Doug Moseley, NEPC; Tiffany Spudich & Corey Waddell, Capital Cities; Mr. Alec Stais, Chief Investment Officer; Mr. Matthew Waters, Adler, Pollock & Sheehan, legal counsel; and other members of the Treasurer's staff.

Treasurer Magaziner called the meeting to order at 9:05 AM.

II. Treasurer's General Comments

Treasurer Magaziner introduced Karen Hazard as the new board member to the State Investment Commission and expressed his gratitude for her service.

III. Approval of Minutes

On a motion by Mr. Fay and seconded by Ms. Hammond, excluding Ms. Hazard, who abstained, it was unanimously **VOTED: to approve the draft meeting minutes and the Executive Session draft minutes of the May 29th, 2019 meeting of the State Investment Commission.**

IV. Asset Allocation Analysis, NEPC

Mr. Will Forde and Doug Moseley, NEPC, introduced plans to conduct a periodic review of the State of Rhode Island's strategic asset allocation including NEPC's timeline for presenting findings to the SIC.

The Board asked questions.

V. Defined Contribution & Deferred Compensation Program Fee Analysis and TIAA Investment Structure Review, Capital Cities

Ms. Tiffany Spudich, Capital Cities, provided an overview of 401(a) and 457(b) plan fees from investment managers, recordkeepers and independent consultants. Ms. Spudich detailed how overall investment costs

[1] Mr. Frank Karpinski, a non-voting member, arrived at the meeting at approximately 9:10 AM. His partial absence did not impact quorum.

DRAFT

for Rhode Island's offerings were competitive relative to its peers. Ms. Spudich recommended adjusting revenue-sharing in the TIAA Traditional product's revenue-sharing within the TIAA 457(b) Plan.

Ms. Spudich and Mr. Waddell discussed investment performance across the TIAA 401(a) and 457(b) plans' investment offerings and made several recommendations to reduce fees and further optimize investment offerings for participants.

Mr. Corey Waddell, Capital Cities, briefly discussed the Voya and Fidelity 457(b) Plans, noting that these will be discussed in more detail at the next SIC meeting.

The Board asked questions.

On a motion by Mr. Costello and seconded by Mr. Fay, it was unanimously **VOTED: (i) to rebate the TIAA Traditional product's revenue-sharing to the individual participants within the TIAA 457(b) plan who have this investment election; (ii) to simplify the International Equity Index options in the TIAA 401(a) plan by offering one broadly diversified International Equity Index option with reduced investment management fees, namely SSGA Global All Cap Equity ex U.S. Index; (iii) to simplify the Small and Mid-Cap Equity Index options in the TIAA 401(a) plan by offering one broadly diversified Small/Mid Cap Equity Index option with reduced investment management fees, namely SSGA U.S. Small/Mid Cap Index; (iv) to replace the current International Equity Index option in the TIAA 457(b) plan with a more broadly diversified International Equity Index option with reduced investment management expense, namely SSGA Global All Cap Equity ex U.S. Index; (v) to replace Vanguard Instl Index with SSGA S&P 500 Index in the TIAA 401(a) and TIAA 457(b) plans; and (vi) to replace Vanguard Total Bond Mkt Index with SSGA US Bond Index in the TIAA 401(a) and TIAA 457(b) plans; all votes being consistent with the recommendations described in the Capital Cities Memorandum to the SIC dated June 26, 2019, titled Defined Contribution & Deferred Compensation Program Fee Analysis and TIAA Investment Structure Review Presentation.**

VI. Legal Counsel Report

There was no legal counsel report.

VII. Chief Investment Officer Report

Mr. Alec Stais discussed the Plan's performance across the different asset classes and buckets.

The Board asked questions.

On a motion by Ms. Karen Hammond and seconded by Mr. Michael Costello, it was unanimously **VOTED: to adjourn the meeting at 11:00 AM.**

Respectfully submitted,

DRAFT

Seth Magaziner,
General Treasurer

DRAFT

Section III.

Staff Summary

State of Rhode Island and Providence Plantations
Office of the General Treasurer

Seth Magaziner
General Treasurer

July 15, 2019

State Investment Commission
State of Rhode Island, State House
Providence, Rhode Island

This is to certify that the amounts so listed below belong to the credit of the Employees' Retirement, Municipal Employees', State Police and Judicial Retirement Systems of the State of Rhode Island at the close of business on June 30, 2019

Employees' Retirement System of Rhode Island
Composite Reporting Investment Valuation
June 30, 2019

Asset Class		Base Market Value
Grand Total		**8,468,762,460**
CASH EQUIVALENT*		399,774,958
GLOBAL PUBLIC EQUTIY		3,854,350,173
CREDIT		281,680,173
INFLATION-LINKED BDS		118,663,065
REIT US FOCUSED		79,357,169
PRIVATE EQUITY**		785,025,415
REAL ESTATE**		502,509,830
HEDGE FUNDS**		579,584,589
INFRASTRUCTURE**		278,922,732
US TRADITIONAL FIXED		924,502,272
CPC PROGRAM		664,392,084
Plan Allocations	**%**	**Base Market Value**
Grand Total	**100.00%**	**8,468,762,460**
STATE EMP RET PLAN	74.14%	6,278,946,400
MUNI EMP RET PLAN	19.03%	1,611,549,589
TEACHER'S SURVIVOR BENEFIT	3.98%	337,034,095
STATE POLICE RET PL	1.73%	146,602,961
JUDICIAL RET PLAN	0.91%	77,189,054
NON-CONTRIB JUD RET	0.01%	700,733
NON-CONT ST POL RET	0.20%	16,739,627

* Cash & Short-Term Investments, as shown, also includes amounts available within specific active-manager mandates, and thus as aggregated will not tie directly to separate cash allocations as reported elsewhere.
** Alternative Investments – comprising the five components as indicated – have varying degrees of liquidity and may not have readily determinable market values. As such, they may be based on appraisals only.

Respectfully submitted,

Vincent Izzo
Investment Accounting Manager

50 Service Avenue – Warwick, Rhode Island 02886-1021 – (401) 462–7650 / Fax 462–7695

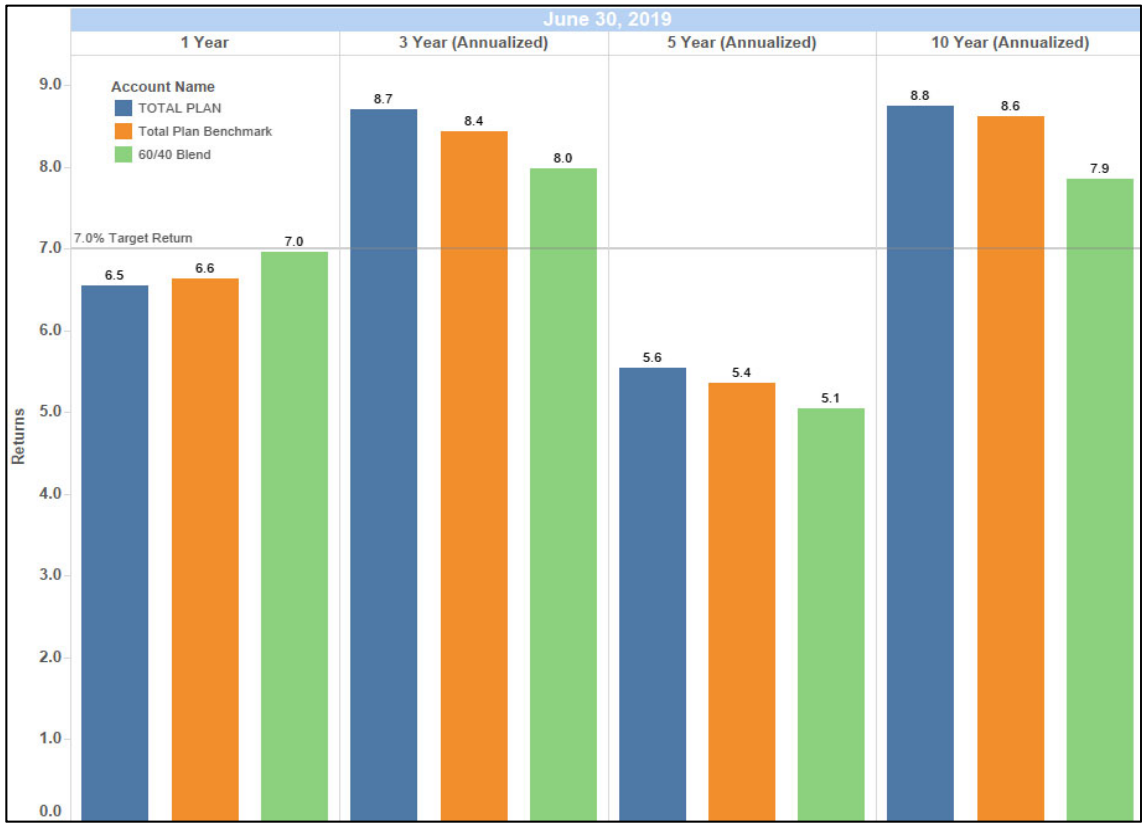
June 2019

The Plan returned 3.56% during the month of June, outperforming the Total Plan benchmark return of 3.19%. The 60% global equity/40% fixed income benchmark returned 4.43%. The Plan's Total Growth Bucket was one of the primary contributors to the Plan's positive performance, returning 5.49% as risk assets rallied over the period. The total portfolio increased by approximately $283 million as the investment portfolio increased by roughly $294 million and about $11 million of net transfers out were made to meet pension payroll in excess of pension contributions.

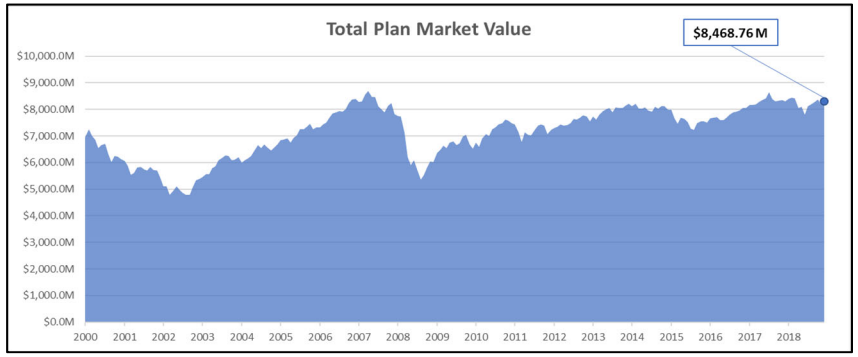
Calendar year-to-date the Plan returned 10.29% net of fees, outperforming the Total Plan benchmark return of 9.28%. The 60% global equity/40% fixed income benchmark returned 12.27%. A main contributor to the Total Plan's CYTD performance was its Growth bucket, which returned 13.55%.

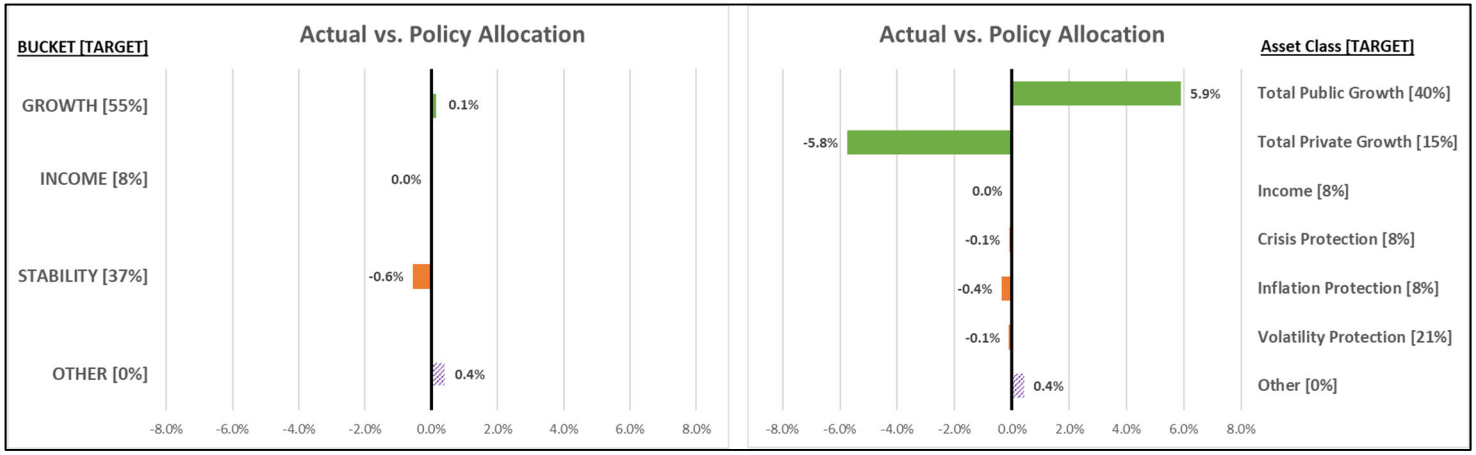
Fiscal year-to-date, the Plan returned 6.54% net of fees, underperforming the Total Plan benchmark return of 6.63%. The 60% global equity/40% fixed income benchmark returned 6.96%. A main contributor to the Total Plan's FYTD performance was its Stability bucket, which returned 6.81%.

Total Plan - June 30, 2019



	Jun-2019	YTD	FYTD	1 Year	Annualized 3 Years	5 Years	ITD	Inception
GROWTH	**5.49**	**13.55**	**6.32**	**6.32**			**9.47**	**7/1/2017**
GROWTH BM	*4.87*	*12.52*	*7.16*	*7.16*				
Public Growth	6.54	15.67	5.24	5.24	11.76	6.30	4.85	7/1/2000
Public Growth BM	*6.55*	*16.23*	*5.74*	*5.74*	*11.62*	*6.16*		
Private Growth	0.42	3.66	12.57	12.57			16.14	7/1/2017
Private Growth BM	*0.40*	*2.51*	*9.54*	*9.54*				
INCOME	**1.47**	**8.86**	**3.92**	**3.92**			**3.60**	**7/1/2017**
INCOME BM	*1.10*	*7.38*	*5.68*	*5.68*			*4.67*	*7/1/2017*
STABILITY	**1.25**	**5.87**	**6.81**	**6.81**			**4.72**	**7/1/2017**
STABILITY BM	*1.14*	*4.79*	*5.57*	*5.57*				
CPC	1.54	8.19	6.76	6.76			2.78	7/1/2017
CPC BM	*1.32*	*4.05*	*7.66*	*7.66*			*1.45*	*7/1/2017*
Inflation Protection	0.61	4.36	6.66	6.66			6.79	7/1/2017
Inflation Protection BM	*0.59*	*3.38*	*4.27*	*4.27*			*5.20*	*7/1/2017*
Volatility Protection	1.37	5.57	6.74	6.74			4.59	7/1/2017
Volatility Protection BM	*1.27*	*5.53*	*5.09*	*5.09*				
TOTAL PLAN	**3.56**	**10.29**	**6.54**	**6.54**	**8.71**	**5.55**	**5.14**	**7/1/2000**
TOTAL PLAN BM	*3.19*	*9.28*	*6.63*	*6.63*	*8.44*	*5.37*		
60/40	*4.43*	*12.27*	*6.96*	*6.96*	*7.98*	*5.05*		





**Allocation reflects physical exposure; Russell Overlay rebalancing program classified as, "Other"*

Section IV.

Asset Allocation

ERSRI Asset Allocation Tracking

Functional Bucket	Aggregate Asset Class	Aggregate Allocation Weight	Asset Class	Strategic Benchmark Weight	(a) Target Asset Allocation	(b) Actual exposure as of 06/30/19	(b) - (a)
GROWTH	Global Equity	40.0%	US Equity	22.1%	22.1%	25.8%	3.7%
			International Developed Equity	13.2%	13.2%	14.9%	1.7%
			EM Equity	4.7%	4.7%	5.2%	0.5%
	Private Growth	15.0%	PE	11.0%	11.25%	6.9%	-4.3%
			Non-core RE	2.5%	2.25%	1.7%	-0.6%
			Opp Private Credit	1.5%	1.5%	0.6%	-0.9%
INCOME	Income	8.0%	HY Infra	1.5%	1.0%	1.4%	0.4%
			REITs	0.0%	1.0%	1.0%	0.0%
			Liquid Credit	3.5%	2.8%	3.7%	0.9%
			Private Credit	3.0%	3.2%	1.9%	-1.3%
STABILITY	CPC	8.0%	Treasury Duration	4.0%	4.0%	4.1%	0.1%
			Systematic Trend	4.0%	4.0%	3.8%	-0.2%
	Inflation Protection	8.0%	Core RE	4.0%	3.6%	4.3%	0.7%
			Private Infra	2.0%	2.4%	1.9%	-0.5%
			TIPs	1.0%	1.0%	1.5%	0.5%
			Nat' Resources	1.0%	1.0%	0.0%	-1.0%
	Volatility Protection	21.0%	IG Fixed Income	11.5%	11.5%	11.2%	-0.3%
			Absolute Return	6.5%	6.5%	6.8%	0.3%
			Strategic Cash	3.0%	3.0%	2.9%	-0.1%
OTHER	Short-term Tactical	-	Short-Term Cash	-	-	0.1%	0.1%
		-	Russell Overlay	-	-	0.2%	0.2%
TOTAL	Total	100.0%		100.0%	100.0%	100.0%	0.0%

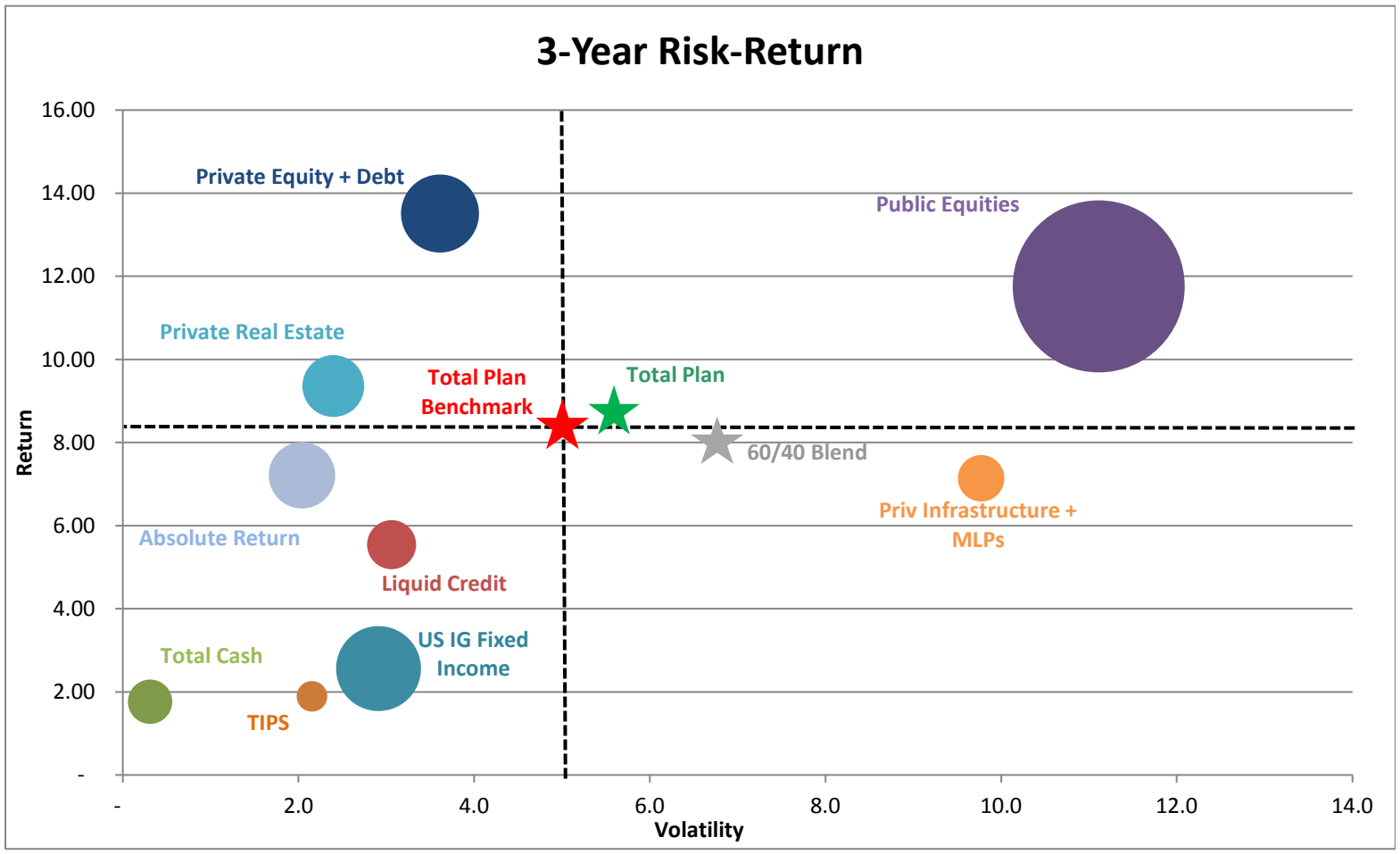
Section V.

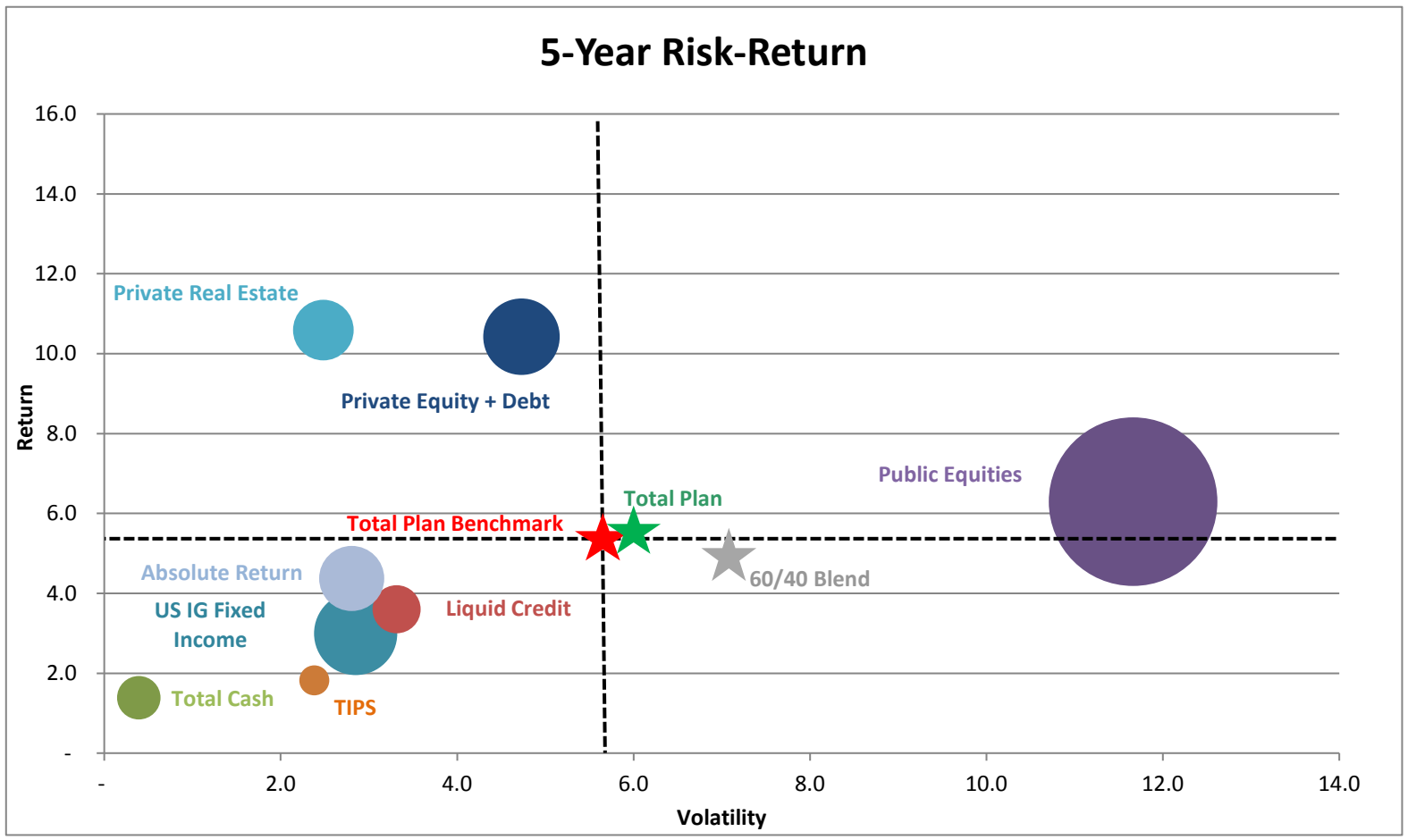
Risk Overview

ERSRI Portfolio

% - as of June 30th, 2019

Bubble-Size Scaled based on Current Allocations

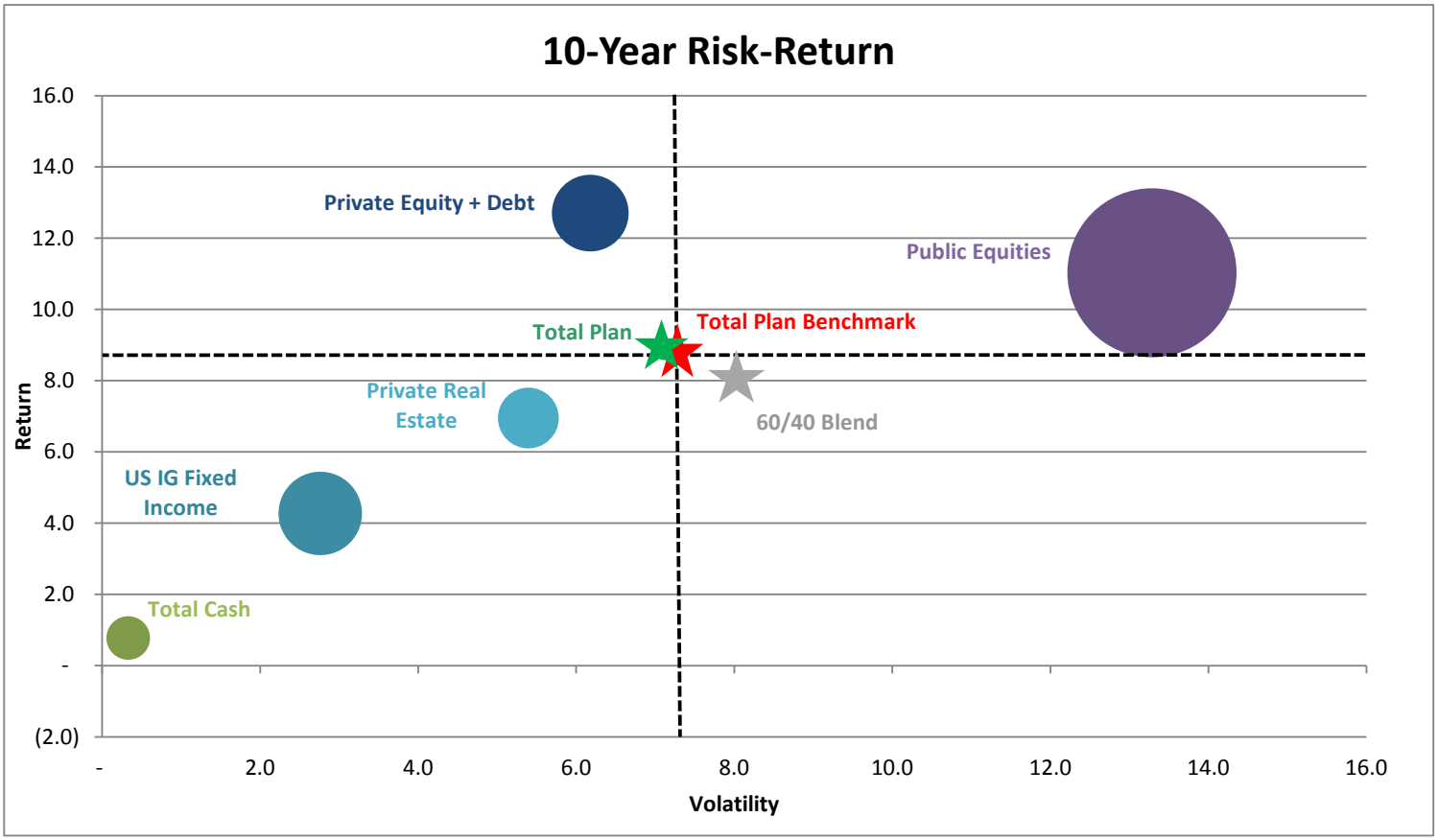




ERSRI Portfolio

% - as of June 30th, 2019

Bubble-Size Scaled based on Current Allocations



Section VI.

Performance Overview

BNY MELLON

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

6/30/2019

Account Name / *Benchmark Name*	Market Value	% of Total	Month	YTD	Fiscal YTD	1 Year	Annualized 3 Years	Annualized 5 Years	Annualized 10 Years	Annualized ITD	Inception Date
US Public Equity	1,377,733,083	16	7.02	18.84	9.20	9.20	14.09	10.28	14.41	8.40	8/1/2007
Russell 3000 Index			*7.02*	*18.71*	*8.98*	*8.98*	*14.02*	*10.19*	*14.67*	*8.38*	*8/1/2007*
Non-US Public Equity	1,225,816,962	14	6.05	13.31	1.59	1.59	9.65	2.37	6.77	7.89	5/1/2009
Total International Equity BM			*6.02*	*13.60*	*1.29*	*1.29*	*9.39*	*2.16*	*6.19*	*7.20*	*5/1/2009*
QVM Tilt	1,283,301,616	15	6.51	14.55	4.93	4.93	11.54			11.03	10/1/2015
MSCI World Net Dividend Index			*6.59*	*16.98*	*6.33*	*6.33*	*11.77*			*11.07*	*10/1/2015*
Total Public Growth	**3,886,851,660**	**46**	**6.54**	**15.67**	**5.24**	**5.24**	**11.76**	**6.30**	**11.03**	**4.85**	**7/1/2000**
MSCI All Country World Net Index			***6.55***	***16.23***	***5.74***	***5.74***	***11.62***	***6.16***	***10.15***		***7/1/2000***
Private Equity	588,010,306	7	0.48	3.79	13.47	13.47	15.04	11.31	13.16	9.65	2/1/1989
ILPA All Fds BM 1Q Lag 2			*0.48*	*3.13*	*11.05*	*11.05*	*13.73*	*10.93*	*15.76*		*2/1/1989*
Non Core Real Estate	141,786,710	2	0.30	4.87	12.29	12.29				19.42	7/1/2017
Opportunistic Private Credit	53,056,921	1	0.14	-1.49	2.98	2.98				10.72	7/1/2017
ILPA Distressed BM 1Q Lag			*0.14*	*-3.63*	*0.17*	*0.17*				*5.10*	*7/1/2017*
Total Private Growth	**782,853,937**	**9**	**0.42**	**3.66**	**12.57**	**12.57**				**16.14**	**7/1/2017**
Private Growth Benchmark			***0.40***	***2.51***	***9.54***	***9.54***					***7/1/2017***
TOTAL GROWTH COMPOSITE	**4,669,705,597**	**55**	**5.49**	**13.55**	**6.32**	**6.32**				**9.47**	**7/1/2017**
Total Growth Composite BM			***4.87***	***12.52***	***7.16***	***7.16***					***7/1/2017***
Harvest Fund Advisor	121,169,171	1	3.70	21.74	2.83	2.83	1.92			-3.99	1/1/2015
Alerian MLP Index			*2.64*	*16.96*	*3.09*	*3.09*	*-0.42*			*-5.82*	*1/1/2015*
Heitman US Focused	80,543,892	1	1.71							1.71	6/1/2019
MSCI US REIT Index			*1.10*							*1.10*	*6/1/2019*
Liquid Credit	316,296,188	4	1.29	7.30	5.85	5.85	5.54	3.60		3.69	5/1/2013
Liquid Credit BM (50% BoA US HY/50% CS LL)			*1.34*	*7.78*	*5.87*	*5.87*	*5.52*	*4.25*		*4.36*	*5/1/2013*
Private Credit	158,734,904	2	-0.09	-1.10	0.82	0.82				3.04	7/1/2017
S&P LSTA Lev Loans + 3%			*0.05*	*2.08*	*5.97*	*5.97*				*6.70*	*7/1/2017*
TOTAL INCOME COMPOSITE	**676,744,155**	**8**	**1.47**	**8.86**	**3.92**	**3.92**				**3.60**	**7/1/2017**
Income Aggregate BM			***1.10***	***7.38***	***5.68***	***5.68***				***4.67***	***7/1/2017***
CPC Long Duration	345,982,085	4	1.33	11.01	12.42	12.42				4.90	6/1/2017
Barclays US Treasury LT Index			*1.34*	*10.98*	*12.30*	*12.30*				*5.12*	*6/1/2017*
CPC Trend Following	323,714,412	4	1.76	5.34	0.93	0.93				-0.18	6/1/2017
Credit Suisse Liquid Alt Beta			*1.31*	*-2.71*	*2.83*	*2.83*				*-2.83*	*6/1/2017*
Total Crisis Protection	**669,696,497**	**8**	**1.54**	**8.19**	**6.76**	**6.76**				**2.78**	**6/1/2017**
50/50 CPC Custom BM			***1.32***	***4.05***	***7.66***	***7.66***				***1.45***	***6/1/2017***

Source: The Bank of New York Mellon Corporation

BNY MELLON

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

6/30/2019

Account Name / *Benchmark Name*	Market Value	% of Total	Month	YTD	Fiscal YTD	1 Year	Annualized 3 Years	Annualized 5 Years	Annualized 10 Years	Annualized ITD	Inception Date
Priv Listed Infrastructure	162,922,574	2	1.66	8.49	13.02	13.02	13.58			10.03	3/1/2015
CPI + 4% 1 Mo Lag			*0.53*	*3.56*	*5.79*	*5.79*	*6.15*				*3/1/2015*
Core Real Estate	360,723,120	4	0.00	2.33	5.18	5.18				6.38	7/1/2017
NFI-ODCE BM 2			*0.00*	*2.37*	*6.17*	*6.17*				*6.64*	*7/1/2017*
Inflation-Linked Bonds	122,978,582	1	0.98	5.25	4.72	4.72	1.89	1.82		3.67	11/1/2009
Total Inflation Linked Custom			*0.99*	*5.17*	*4.67*	*4.67*	*1.93*	*1.85*		*3.66*	*11/1/2009*
Total Inflation Protection	**646,624,276**	**8**	**0.61**	**4.36**	**6.66**	**6.66**				**6.79**	**7/1/2017**
Inflation Protection Custom BM			***0.59***	***3.38***	***4.27***	***4.27***				***5.20***	***7/1/2017***
Absolute Return	579,584,594	7	1.98	5.87	6.87	6.87				7.13	7/1/2017
HFRI Fund of Funds Composite Index			*1.74*	*6.38*	*1.36*	*1.36*				*3.26*	*7/1/2017*
Traditional Fixed Income	946,925,831	11	1.29	6.46	7.82	7.82	2.56	3.00	4.27	5.08	7/1/2000
Bloomberg Barclays U.S. Aggregate Bond Index			*1.26*	*6.11*	*7.87*	*7.87*	*2.31*	*2.95*	*3.90*	*4.95*	*7/1/2000*
Strategic Cash	243,209,415	3	0.23	1.68	2.68	2.68				1.94	2/1/2017
ICE BofAML US Treasury Notes 0-1 Year			*0.30*	*1.45*	*2.59*	*2.59*				*1.70*	*2/1/2017*
Total Volatility Protection	**1,769,725,012**	**21**	**1.37**	**5.57**	**6.74**	**6.74**				**4.59**	**7/1/2017**
Total Volitility Protection BM			***1.27***	***5.53***	***5.09***	***5.09***					***7/1/2017***
TOTAL STABILITY COMPOSITE	**3,086,045,785**	**36**	**1.25**	**5.87**	**6.81**	**6.81**				**4.72**	**7/1/2017**
Total Stability Composite BM			***1.14***	***4.79***	***5.57***	***5.57***					***7/1/2017***
Short-Term Cash	15,042,028	0	1.29	3.79	4.80	4.80				3.11	7/1/2017
Russell Overlay Fd	20,883,352	0	0.00	0.19	0.21	0.21	0.07	0.05	0.02	-0.03	9/1/2008
TOTAL PLAN	**8,468,762,460**	**100**	**3.56**	**10.29**	**6.54**	**6.54**	**8.71**	**5.55**	**8.75**	**5.14**	**7/1/2000**
Total Plan Benchmark			*3.19*	*9.28*	*6.63*	*6.63*	*8.44*	*5.37*	*8.62*		*7/1/2000*
60/40 Blend			*4.43*	*12.27*	*6.96*	*6.96*	*7.98*	*5.05*	*7.86*		*7/1/2000*
Total Plan ex PE,RE & Priv Inf	**7,003,527,925**	**83**	**4.22**	**11.75**	**5.94**	**5.94**	**8.13**	**4.78**	**8.27**	**6.31**	**4/1/1996**
Total Plan BM ex PE RE			*4.13*	*11.67*	*5.35*	*5.35*	*7.76*	*4.49*	*8.11*		*4/1/1996*

Source: The Bank of New York Mellon Corporation

END NOTES

6/30/2019

TOTAL PLAN

The current composition of the Total Plan Benchmark is as follows:

GROWTH

Total Public Growth

40% MSCI ACWI Net

Total Private Growth

11% ILPA All Funds Index

2.5% ODCE + 2.5%

1.5% ILPA/Cambridge Distressed Securities Index

INCOME

1.5% Alerian MLP Total Return

3.5% Liquid Credit Custom (50% BoA HY/50% CS LL)

3% S&P LSTA Lev Loans + 3%

STABILITY

Crisis Protection Class

4% CS Managed Futures 18% Vol Index

4% Barclays Long Duration US Treasury Index

Inflation Protection

2% CPI + 4%

4% NFI-ODCE Index

1% Barclays 1-10 Year TIPs Index

1% BB Commodity Index

Volatility Protection

11.5% Barclays Agg

6.5% HFRI FOF Composite

3.0% BofA Merrill Lynch US T-Notes 0-1 Yr

BNY MELLON

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

6/30/2019

Account Name / *Benchmark Name*	Market Value	% of Total	Month	Cumulative 5/1/2019 - 5/31/2019	Cumulative 4/1/2019 - 4/30/2019	YTD	2018	2017	2016	Inception Date
US Public Equity	1,377,733,083	16	7.02	-6.45	4.03	18.84	-5.17	21.14	12.84	8/1/2007
Russell 3000 Index			*7.02*	*-6.47*	*3.99*	*18.71*	*-5.24*	*21.13*	*12.74*	*8/1/2007*
Non-US Public Equity	1,225,816,962	14	6.05	-5.57	2.60	13.31	-13.85	27.76	5.01	5/1/2009
Total International Equity BM			*6.02*	*-5.37*	*2.64*	*13.60*	*-14.20*	*27.19*	*4.50*	*5/1/2009*
QVM Tilt	1,283,301,616	15	6.51	-6.16	2.87	14.55	-7.96	23.36	7.58	10/1/2015
MSCI World Net Dividend Index			*6.59*	*-5.77*	*3.55*	*16.98*	*-8.71*	*22.40*	*7.51*	*10/1/2015*
Total Public Growth	**3,886,851,660**	**46**	**6.54**	**-6.07**	**3.20**	**15.67**	**-9.20**	**24.11**	**8.78**	**7/1/2000**
MSCI All Country World Net Index			***6.55***	***-5.93***	***3.38***	***16.23***	***-9.41***	***23.97***	***7.86***	***7/1/2000***
Private Equity	588,010,306	7	0.48	3.17	0.74	3.79	17.38	19.69	9.19	2/1/1989
ILPA All Fds BM 1Q Lag 2			*0.48*	*3.17*	*0.74*	*3.13*	*15.96*	*15.70*	*8.04*	*2/1/1989*
Non Core Real Estate	141,786,710	2	0.30	4.02	0.00	4.87	25.66			7/1/2017
Opportunistic Private Credit	53,056,921	1	0.14	-0.99	0.00	-1.49	11.81			7/1/2017
ILPA Distressed BM 1Q Lag			*0.14*	*-0.99*	*0.00*	*-3.63*	*7.95*			*7/1/2017*
Total Private Growth	**782,853,937**	**9**	**0.42**	**3.05**	**0.54**	**3.66**	**18.83**			**7/1/2017**
Private Growth Benchmark			***0.40***	***2.39***	***0.58***	***2.51***	***14.17***			***7/1/2017***
TOTAL GROWTH COMPOSITE	**4,669,705,597**	**55**	**5.49**	**-4.61**	**2.76**	**13.55**	**-5.23**			**7/1/2017**
Total Growth Composite BM			***4.87***	***-3.66***	***2.61***	***12.52***	***-3.24***			***7/1/2017***
Harvest Fund Advisor	121,169,171	1	3.70	-1.83	-1.37	21.74	-13.27	-5.26	20.64	1/1/2015
Alerian MLP Index			*2.64*	*-1.14*	*-1.33*	*16.96*	*-12.42*	*-6.52*	*18.31*	*1/1/2015*
Heitman US Focused	80,543,892	1	1.71							6/1/2019
MSCI US REIT Index			*1.10*							*6/1/2019*
Liquid Credit	316,296,188	4	1.29	-0.68	1.12	7.30	0.78	3.54	9.59	5/1/2013
Liquid Credit BM (50% BoA US HY/50% CS LL)			*1.34*	*-0.75*	*1.49*	*7.78*	*-0.57*	*4.60*	*9.63*	*5/1/2013*
Private Credit	158,734,904	2	-0.09	0.05	-0.71	-1.10	3.71			7/1/2017
S&P LSTA Lev Loans + 3%			*0.05*	*1.77*	*2.58*	*2.08*	*8.19*			*7/1/2017*
TOTAL INCOME COMPOSITE	**676,744,155**	**8**	**1.47**	**-0.74**	**0.09**	**8.86**	**-2.47**			**7/1/2017**
Income Aggregate BM			***1.10***	***0.12***	***1.37***	***7.38***	***0.57***			***7/1/2017***
CPC Long Duration	345,982,085	4	1.33	6.52	-1.76	11.01	-1.89			6/1/2017
Barclays US Treasury LT Index			*1.34*	*6.54*	*-1.79*	*10.98*	*-1.84*			*6/1/2017*
CPC Trend Following	323,714,412	4	1.76	0.75	2.75	5.34	-15.11			6/1/2017
Credit Suisse Liquid Alt Beta			*1.31*	*1.26*	*0.68*	*-2.71*	*-10.01*			*6/1/2017*
Total Crisis Protection	**669,696,497**	**8**	**1.54**	**3.66**	**0.43**	**8.19**	**-7.99**			**6/1/2017**
50/50 CPC Custom BM			***1.32***	***3.90***	***-0.56***	***4.05***	***-5.45***			***6/1/2017***

Source: The Bank of New York Mellon Corporation

BNY MELLON

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

6/30/2019

Account Name / *Benchmark Name*	Market Value	% of Total	Month	Cumulative 5/1/2019 - 5/31/2019	Cumulative 4/1/2019 - 4/30/2019	YTD	2018	2017	2016	Inception Date
Priv Listed Infrastructure	162,922,574	2	1.66	1.16	3.69	8.49	13.32	12.45	13.35	3/1/2015
CPI + 4% 1 Mo Lag			*0.53*	*0.84*	*0.88*	*3.56*	*6.18*	*6.20*	*5.69*	*3/1/2015*
Core Real Estate	360,723,120	4	0.00	0.83	0.00	2.33	7.22			7/1/2017
NFI-ODCE BM 2			*0.00*	*0.83*	*0.00*	*2.37*	*7.71*			*7/1/2017*
Inflation-Linked Bonds	122,978,582	1	0.98	1.14	0.48	5.25	-0.23	1.73	3.91	11/1/2009
Total Inflation Linked Custom			*0.99*	*1.09*	*0.43*	*5.17*	*-0.25*	*1.90*	*4.01*	*11/1/2009*
Total Inflation Protection	**646,624,276**	**8**	**0.61**	**0.96**	**0.91**	**4.36**	**6.30**			**7/1/2017**
Inflation Protection Custom BM			***0.59***	***0.34***	***0.22***	***3.38***	***3.84***			***7/1/2017***
Absolute Return	579,584,594	7	1.98	-0.23	0.97	5.87	4.48			7/1/2017
HFRI Fund of Funds Composite Index			*1.74*	*-0.97*	*0.93*	*6.38*	*-4.02*			*7/1/2017*
Traditional Fixed Income	946,925,831	11	1.29	1.65	0.15	6.46	-0.50	3.99	3.15	7/1/2000
Bloomberg Barclays U.S. Aggregate Bond Index			*1.26*	*1.78*	*0.03*	*6.11*	*0.01*	*3.54*	*2.65*	*7/1/2000*
Strategic Cash	243,209,415	3	0.23	0.28	0.26	1.68	1.88			2/1/2017
ICE BofAML US Treasury Notes 0-1 Year			*0.30*	*0.24*	*0.21*	*1.45*	*1.92*			*2/1/2017*
Total Volatility Protection	**1,769,725,012**	**21**	**1.37**	**0.85**	**0.43**	**5.57**	**1.41**			**7/1/2017**
Total Volitility Protection BM			***1.27***	***0.71***	***0.33***	***5.53***	***-0.95***			***7/1/2017***
TOTAL STABILITY COMPOSITE	**3,086,045,785**	**36**	**1.25**	**1.46**	**0.53**	**5.87**	**0.57**			**7/1/2017**
Total Stability Composite BM			***1.14***	***1.32***	***0.12***	***4.79***	***-0.79***			***7/1/2017***
Short-Term Cash	15,042,028	0	1.29	-0.18	1.31	3.79	1.76			7/1/2017
Russell Overlay Fd	20,883,352	0	0.00	0.05	-0.01	0.19	0.06	-0.09	0.06	9/1/2008
TOTAL PLAN	**8,468,762,460**	**100**	**3.56**	**-2.05**	**1.72**	**10.29**	**-2.69**	**14.48**	**7.35**	**7/1/2000**
Total Plan Benchmark			*3.19*	*-1.52*	*1.59*	*9.28*	*-1.94*	*14.30*	*6.42*	*7/1/2000*
60/40 Blend			*4.43*	*-2.85*	*2.04*	*12.27*	*-5.52*	*15.41*	*5.92*	*7/1/2000*
Total Plan ex PE,RE & Priv Inf	**7,003,527,925**	**83**	**4.22**	**-2.85**	**1.94**	**11.75**	**-5.64**	**14.66**	**6.97**	**4/1/1996**
Total Plan BM ex PE RE			*4.13*	*-3.06*	*2.03*	*11.67*	*-5.82*	*14.46*	*6.13*	*4/1/1996*

Source: The Bank of New York Mellon Corporation

BNY MELLON

Total Performance Summary

END NOTES

6/30/2019

TOTAL PLAN

Month - Current Month

Cumulative Months - Prior Month and Second Prior Month

Monthly Reporting for Private Equity and Real Estate skew performance on an actual and benchmark basis due to nature of valuations

The current composition of the Total Plan Benchmark is as follows:

GROWTH

- Total Public Growth
  - 40% MSCI ACWI Net
- Total Private Growth
  - 11% ILPA All Funds Index
  - 2.5% ODCE + 2.5%
  - 1.5% ILPA/Cambridge Distressed Securities Index

INCOME

- 1.5% Alerian MLP Total Return
- 3.5% Liquid Credit Custom (50% BoA HY/50% CS LL)
- 3% S&P LSTA Lev Loans + 3%

STABILITY

- Crisis Protection Class
  - 4% CS Managed Futures 18% Vol Index
  - 4% Barclays Long Duration US Treasury Index
- Inflation Protection
  - 2% CPI + 4%
  - 4% NFI-ODCE Index
  - 1% Barclays 1-10 Year TIPs Index
  - 1% BB Commodity Index
- Volatility Protection
  - 11.5% Barclays Agg
  - 6.5% HFRI FOF Composite
  - 3.0% BofA Merrill Lynch US T-Notes 0-1 Yr

Section VII.

Private Equity & Private Credit

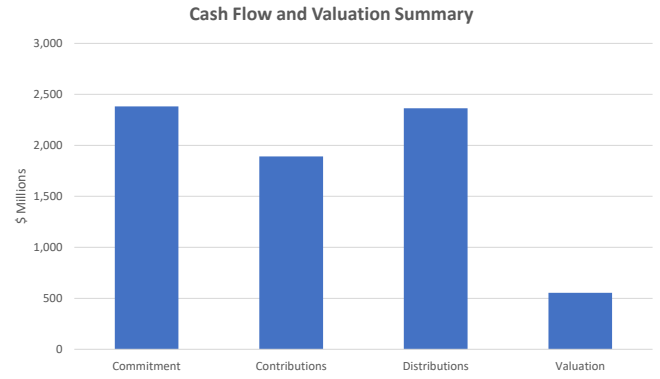
Portfolio Summary

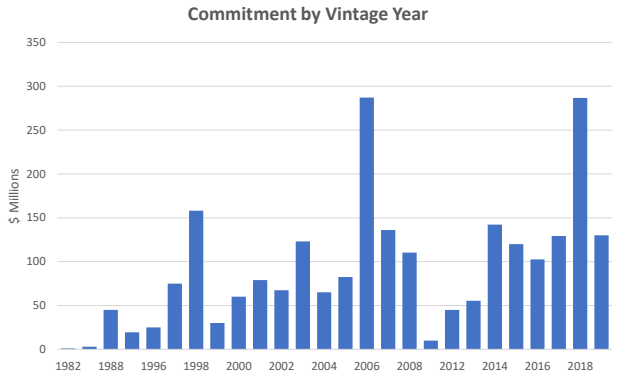
3/31/2019

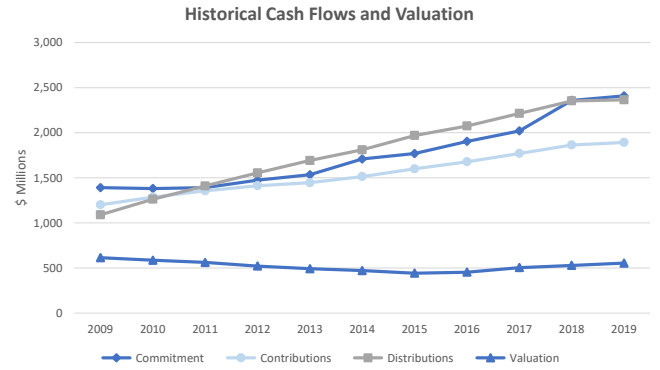
All Investments

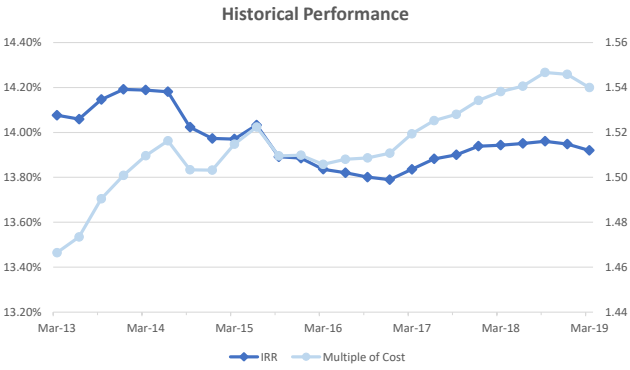
Performance Summary

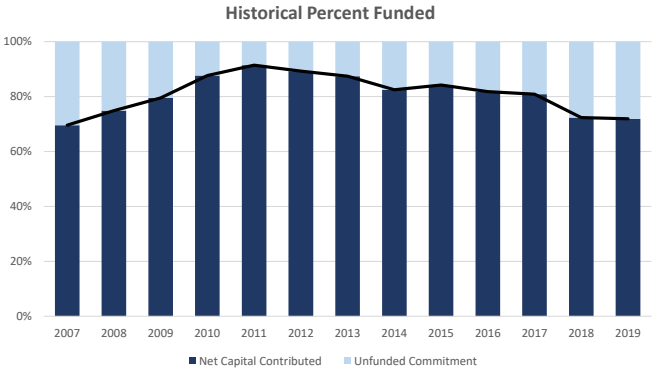
Asset Class	Investment Type	Number of Investments	Commitment	Contributions	Distributions	Valuation	Multiple of Cost	IRR	TWR
Private Equity Funds									
	Buyout Total	100	1,949,224,225	1,515,098,442	1,920,767,021	431,642,563	1.55	13.90%	12.91%
	Fund of Funds Total	1	45,000,000	45,000,000	106,748,821	-	2.37	19.94%	
	Secondary Total	4	60,000,000	55,009,798	65,139,543	2,263,188	1.23	5.80%	2.92%
	Venture Capital Total	24	328,750,000	277,262,426	272,070,835	120,764,322	1.42	6.36%	4.41%
Total: Private Equity Funds		**129**	**2,382,974,225**	**1,892,370,665**	**2,364,726,221**	**554,670,073**	**1.54**	**13.92%**	**11.75%**

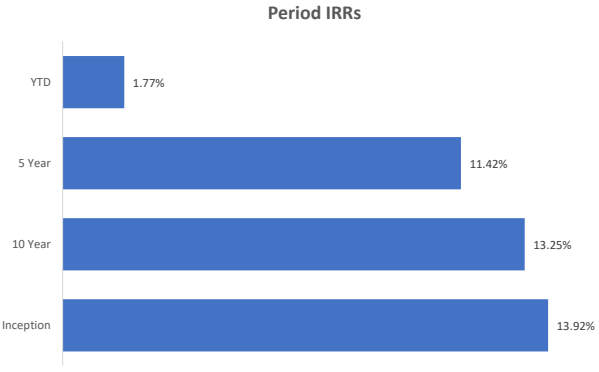












Employees' Retirement System of Rhode Island Private Equity Performance
3/31/2019

				Cumulative Cash Flows ($)				Cumulative Performance*	
Current Partnerships	Vintage Year	Type	Amount Committed (In $ unless otherwise noted)	Amount Drawn	Amount Distributed	Amount Unfunded	Valuation ($)	Net IRR (%)	Net Multiple of Investment
Nautic Partners V	2000	Buyout	20,000,000	20,331,229	40,426,893	600,000	1,558,420	17.10	2.07
CVC European Equity Partners III	2001	Buyout	€ 20,000,000	23,760,732	59,551,716	200,000	1,368,763	41.03	2.56
Parthenon Investors II	2001	Buyout	23,960,000	23,409,381	37,415,960	1,916,800	573,090	12.30	1.62
Nordic Capital V	2003	Buyout	€ 14,615,550	18,765,999	49,480,701	-	303,752	20.21	2.65
TPG Partners IV	2003	Buyout	15,000,000	16,672,684	31,655,907	-	430,633	15.43	1.92
Birch Hill Equity Partners III	2005	Buyout	CAD 18,000,000	15,351,618	27,561,124	134,811	3,335,814	13.04	2.01
CVC Equity Partners IV	2005	Buyout	€ 16,500,000	18,243,877	35,674,827	2,224,728	18,718	16.64	1.96
Providence Equity Partners V	2005	Buyout	25,000,000	31,142,133	36,171,706	2,250,000	417,013	3.08	1.17
Fenway III	2006	Buyout	15,000,000	17,230,534	14,757,733	1,050,000	12,625,693	7.30	1.59
First Reserve Fund XI	2006	Buyout	20,000,000	22,125,580	15,232,221	-	1,078,286	-7.23	0.74
Nordic Capital VI	2006	Buyout	€ 15,000,000	18,303,741	31,390,519	-	284,646	8.63	1.73
TPG Partners V	2006	Buyout	20,000,000	20,697,887	26,822,109	400,000	1,664,872	4.94	1.38
Green Equity V	2007	Buyout	20,000,000	20,422,420	36,096,493	1,800,000	11,665,281	18.87	2.34
Kayne Anderson IV	2007	Buyout	15,000,000	16,605,519	17,447,153	-	457,630	2.53	1.08
Nautic Partners VI	2007	Buyout	20,000,000	24,233,473	50,881,593	600,000	4,444,755	17.44	2.28
Providence Equity Partners VI	2007	Buyout	25,000,000	29,513,869	30,733,812	1,250,000	7,626,728	5.19	1.30
Trilantic Capital Partners IV	2007	Buyout	11,098,351	11,609,004	17,225,336	1,442,786	1,387,546	13.77	1.60
Bain Capital X	2008	Buyout	25,000,000	24,300,000	34,805,799	750,000	6,486,571	10.14	1.70
CVC Equity Partners V	2008	Buyout	€ 20,000,000	24,599,133	45,513,478	224,720	8,196,807	20.06	2.18
Nordic Capital VII	2008	Buyout	€ 15,000,000	17,377,372	26,141,316	842,700	1,467,856	8.21	1.59
TPG Partners VI	2008	Buyout	10,000,000	13,924,603	16,373,879	400,000	2,742,181	8.69	1.37
Advent International GPE VII-C	2012	Buyout	20,000,000	18,800,000	14,905,218	1,200,000	18,668,793	16.69	1.79
Providence Equity Partners VII	2012	Buyout	25,000,000	30,519,012	24,790,996	5,250,000	23,490,158	21.33	1.58
EnCap Energy IX	2013	Buyout	18,000,000	20,073,861	14,046,872	1,080,000	12,972,971	13.32	1.35
Nordic Capital VIII	2013	Buyout	€ 15,000,000	17,969,655	11,360,325	10,112,400	15,656,111	16.47	1.50
Riverside Capital Appreciation Fund VI	2013	Buyout	20,000,000	17,830,110	8,942,472	2,800,000	17,224,212	13.93	1.47
Carlyle Asia Partners IV	2014	Buyout	30,000,000	33,101,492	11,240,310	3,300,000	28,432,668	8.07	1.20
CVC Capital Partners VI	2014	Buyout	€ 15,000,000	19,094,506	5,497,807	337,080	17,506,416	9.84	1.20
Nautic Partners VII	2014	Buyout	20,000,000	16,832,318	24,594,724	4,400,000	9,051,879	43.51	2.00
Riverside Micro-Cap III	2014	Buyout	20,000,000	20,016,076	14,135,671	4,200,000	34,961,753	27.46	2.45
Sorenson Capital Partners III	2014	Buyout	30,000,000	25,293,600	45,271	12,900,000	30,938,559	8.01	1.22
Baring Asia VI	2015	Buyout	15,000,000	13,716,435	2,868,159	3,450,000	15,120,412	15.89	1.31
Centerbridge Capital Partners III	2015	Buyout	25,000,000	13,982,509	5,224,192	15,750,000	14,038,361	13.75	1.38
EnCap Energy X	2015	Buyout	25,000,000	20,851,739	4,017,159	5,750,000	21,449,461	12.27	1.22
Paine & Partners Capital IV	2015	Buyout	30,000,000	21,049,724	6,305,447	9,900,000	20,508,868	11.10	1.27
Advent International GPE VIII	2016	Buyout	20,000,000	16,000,000	-	4,000,000	18,702,915	13.52	1.17
Nautic Partners VIII	2016	Buyout	20,000,000	10,623,443	11,217,232	10,400,000	4,064,873	69.06	1.44
Southvest Partners VII	2016	Buyout	37,500,000	12,131,321	1,492,471	25,875,000	6,445,418	-60.84	0.65
Tenex Capital Partners II	2016	Buyout	25,000,000	14,282,669	867,395	11,250,000	15,346,806	8.41	1.14
CVC Capital Partners VII	2017	Buyout	€ 35,000,000	6,249,485	58,616	33,033,840	7,692,732	N/M	1.24
EnCap Energy XI	2017	Buyout	50,000,000	7,217,395	-	43,000,000	5,936,205	N/M	0.82
RLH IV	2017	Buyout	40,000,000	5,378,250	-	34,800,000	4,176,241	N/M	0.78
Altaris Constellation Partners IV	2018	Buyout	6,000,000	1,848,514	-	4,140,000	2,236,484	N/M	1.21
Altaris IV	2018	Buyout	24,000,000	6,326,439	-	17,760,000	7,287,445	N/M	1.15
Carlyle Asia V	2018	Buyout	50,000,000	4,201,587	-	46,000,000	3,696,673	N/M	0.88
German Equity Partners V	2018	Buyout	€ 21,500,000	434,946	-	23,674,252	(9,211)	N/M	-0.02
Level Equity Opportunities	2018	Buyout	15,000,000	1,861,828	-	13,200,000	2,104,901	N/M	1.13
Siris Partners IV	2018	Buyout	50,000,000	7,629,044	-	42,500,000	7,061,562	N/M	0.93

*IRR refers to the fund's Internal Rate of Return, or the annualized compounded yield on an investment. This calculation is typically applied in private equity where there are multiple points at which capital is invested (capital called) and at which it is distributed. A positive IRR means that the fund's current value plus any cash distributions are greater than the cash value contributed and management fees paid. Typically a fund will have a negative IRR during the first few years of its life, a period referred to as the “J-Curve”, because cash is invested upfront and it takes time to generate value. It is important to consider a fund's start date (vintage year) when assessing IRRs. Multiple of investment is another indicator of returns, and is calculated by dividing the fund's cumulative distributions and current value, after fees, by the amount of capital paid in. Please note that performance calculations are specific to the ERSRI investment, and were not prepared, reviewed or approved by the General Partners.

Employees' Retirement System of Rhode Island Private Equity Performance
3/31/2019

Current Partnerships	Vintage Year	Type	Amount Committed (In $ unless otherwise noted)	Cumulative Cash Flows ($) Amount Drawn	Amount Distributed	Amount Unfunded	Valuation ($)	Cumulative Performance* Net IRR (%)	Net Multiple of Investment
Coller V	2006	Secondary	15,000,000	12,620,912	16,688,507	3,300,000	1,462,492	8.20	1.44
W Capital II	2007	Secondary	15,000,000	14,896,718	19,924,585	1,650,000	800,696	10.28	1.39
Granite Global Ventures II	2004	Venture Capital	15,000,000	14,333,510	22,180,375	600,000	1,285,831	6.31	1.64
Leapfrog II	2005	Venture Capital	10,000,000	9,640,000	6,811,564	400,000	4,127,796	2.02	1.13
Alta VIII	2006	Venture Capital	15,000,000	15,000,000	26,908,151	-	11,869,077	17.72	2.59
Castile Ventures III	2006	Venture Capital	5,000,000	5,009,730	1,396,371	-	416,791	-19.46	0.36
Focus Ventures III	2006	Venture Capital	15,000,000	15,000,000	7,303,561	-	1,138,143	-9.22	0.56
Granite Global Ventures III	2006	Venture Capital	15,000,000	14,625,748	41,675,138	300,000	526,972	18.40	2.89
Point 406 Ventures I	2006	Venture Capital	10,000,000	11,197,207	9,439,777	400,000	8,119,829	7.38	1.57
Point Judith Venture II	2006	Venture Capital	5,000,000	6,282,046	7,923,814	100,000	1,226,328	5.76	1.46
Lighthouse VI	2007	Venture Capital	15,000,000	14,250,000	19,832,947	750,000	471,220	6.83	1.42
Paladin III	2008	Venture Capital	10,000,000	13,239,040	9,114,371	300,000	11,790,684	9.24	1.58
Industry Ventures III	2014	Venture Capital	25,000,000	24,624,401	4,725,803	1,750,000	34,964,968	19.00	1.61
Industry Ventures III Co-Inv.	2015	Venture Capital	15,000,000	10,395,765	181,258	4,650,000	14,721,997	20.71	1.43
Industry Ventures IV	2015	Venture Capital	10,000,000	4,425,396	87,701	5,600,000	5,479,972	15.47	1.26
Level Equity Growth Partners IV	2018	Venture Capital	17,500,000	1,573,531	-	15,925,000	1,352,133	N/A	0.86
Industry Ventures V	2019	Venture Capital	30,000,000	1,350,000	-	28,500,000	2,052,749	N/A	1.52
Other funds in aggregate**			205,000,000	57,666,735	47,030,814	151,400,000	19,687,933		
Total			**$ 1,563,384,283**	**$ 1,058,067,483**	**$ 1,084,195,349**	**$ 621,774,117**	**$ 554,394,332**		

*IRR refers to the fund's Internal Rate of Return, or the annualized compounded yield on an investment. This calculation is typically applied in private equity where there are multiple points at which capital is invested (capital called) and at which it is distributed. A positive IRR means that the fund's current value plus any cash distributions are greater than the cash value contributed and management fees paid. Typically a fund will have a negative IRR during the first few years of its life, a period referred to as the “J-Curve”, because cash is invested upfront and it takes time to generate value. It is important to consider a fund's start date (vintage year) when assessing IRRs. Multiple of investment is another indicator of returns, and is calculated by dividing the fund's cumulative distributions and current value, after fees, by the amount of capital paid in. Please note that performance calculations are specific to the ERSRI investment, and were not prepared, reviewed or approved by the General Partners.

**Other funds in aggregate are the total commitments to and amounts drawn and distributed by funds whose confidentiality provisions do not permit the disclosure of their performance data. These funds include Braemar Energy Ventures III, Constellation Ventures III,Thomas, McNerney & Partners and Thomas McNerney & Partners II.“ In addition, other funds in aggregate includes commitments to funds where no capital has been drawn, as well as funds in final liquidation.

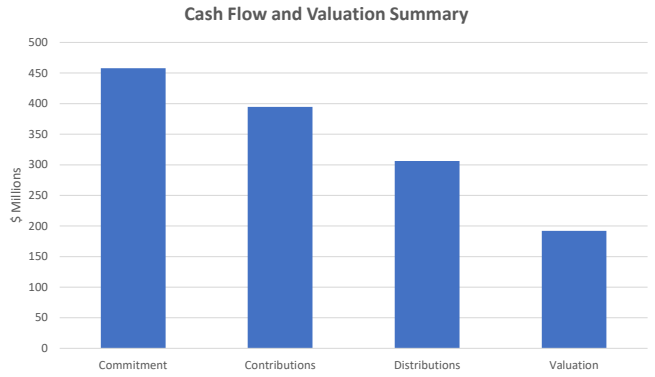
Portfolio Summary

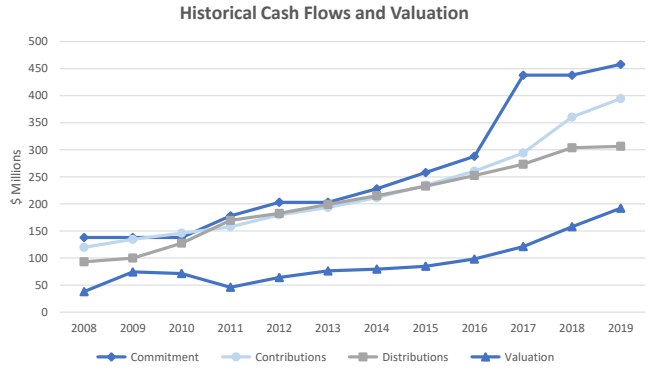
3/31/2019

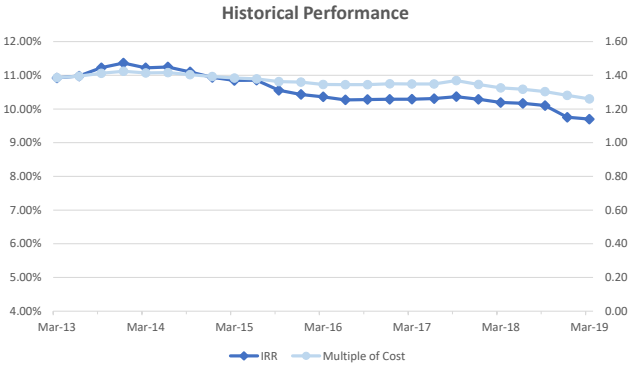
All Investments

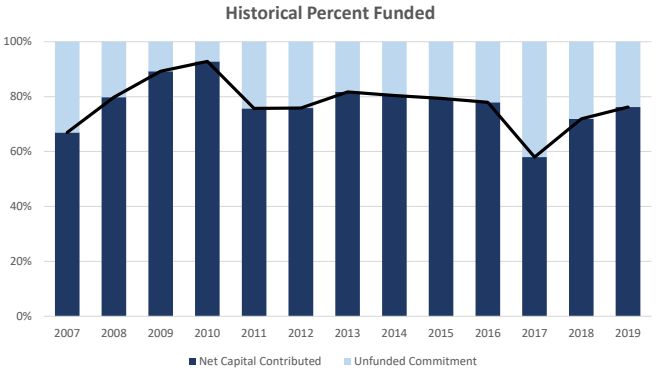
Performance Summary

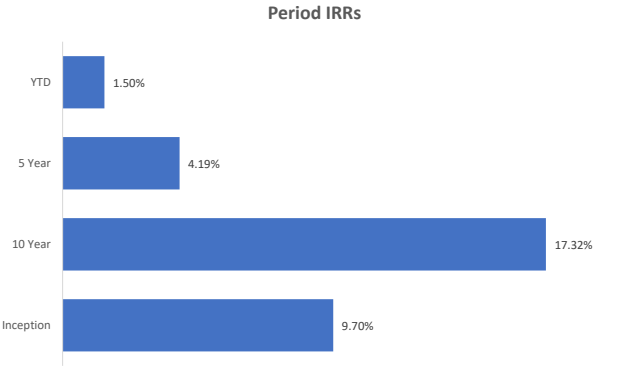
Asset Class	Investment Type	Number of Investments	Commitment	Contributions	Distributions	Valuation	Multiple of Cost	IRR	TWR
Private Credit Funds									
	Distressed Debt Total	14	233,000,000	224,215,764	253,878,307	59,173,531	1.40	10.26%	9.74%
	Private Credit Total	7	225,000,000	170,500,384	52,490,896	132,989,433	1.09	5.54%	6.47%
Total: Private Credit Funds		**21**	**458,000,000**	**394,716,148**	**306,369,203**	**192,162,964**	**1.26**	**9.70%**	**9.64%**











Employees' Retirement System of Rhode Island Private Credit Performance
3/31/2019

				Cumulative Cash Flows ($)				Cumulative Performance*	
Current Partnerships	Vintage Year/Initial Investment	Type	Amount Committed (In $ unless otherwise noted)	Amount Drawn	Amount Distributed	Amount Unfunded	Valuation ($)	Net IRR (%)	Net Multiple of Investment
GOF IV	2014	Private Credit	$30,000,000	$28,374,000	$5,428,000	-	$25,726,000	3.40	1.10
CSIP V	2016	Private Credit	$30,000,000	$23,545,000	$3,445,000	$8,100,000	$22,367,000	7.40	1.10
Virgo Societas Partnership IV	2017	Private Credit	$50,000,000	$32,092,000	-	$18,500,000	$29,992,000	N/A	0.93
Owl Rock Capital Corporation	2018	Private Credit	$50,000,000	$35,549,000	$1,895,000	$14,500,000	$35,181,000	N/A	1.04
MHR III	2006	Opportunistic Private Credit	$20,000,000	$20,800,000	$21,109,000	$7,000,000	$7,451,000	6.03	1.37
WLR Recovery IV	2007	Opportunistic Private Credit	$8,000,000	$7,277,000	$9,374,000	$240,000	$453,000	7.50	1.35
OCM EPF III	2011	Opportunistic Private Credit	$20,000,000	$17,150,000	$13,136,000	$5,800,000	$14,317,000	10.55	1.60
Centerbridge Sp. Credit II	2012	Opportunistic Private Credit	$25,000,000	$22,500,000	$19,351,000	$2,500,000	$5,439,000	2.46	1.10
DK L-T Opps. IV	2018	Opportunistic Private Credit	$50,000,000	$27,500,000	-	$22,500,000	$29,239,000	N/A	1.06
Other funds in aggregrate**			$45,000,000	$50,941,000	$41,722,000	$9,200,000	$19,724,000		
Total			**$ 328,000,000**	**$ 265,728,000**	**$ 115,460,000**	**$ 88,340,000**	**$ 189,889,000**		

*IRR refers to the fund's Internal Rate of Return, or the annualized compounded yield on an investment. This calculation is typically applied in private equity where there are multiple points at which capital is invested (capital called) and at which it is distributed. A positive IRR means that the fund's current value plus any cash distributions are greater than the cash value contributed and management fees paid. Typically a fund will have a negative IRR during the first few years of its life, a period referred to as the “J-Curve”, because cash is invested upfront and it takes time to generate value. It is important to consider a fund's start date (vintage year) when assessing IRRs. Multiple of investment is another indicator of returns, and is calculated by dividing the fund's cumulative distributions and current value, after fees, by the amount of capital paid in. Please note that performance calculations are specific to the ERSRI investment, and were not prepared, reviewed or approved by the General Partners.

**Other funds in aggregate are the total commitments to and amounts drawn and distributed by funds whose confidentiality provisions do not permit the disclosure of their performance data. These funds include Summit Credit Partners I and Summit Credit Partners II.

Section VIII.

Crisis Protection Class

CPC Returns CPC Program, June 30, 2019, %				
Account Name	MTD Return	Annualized Return (Since Inception)	Annualized Std. Dev (June '19)	Annualized Std. Dev (Since Inception)
Total CPC Program	1.54	2.78	8.64	8.77
CPC Trend	1.76	-0.18	11.34	15.07
CPC Long Duration	1.33	4.90	9.14	8.81

Transitive Risk CPC Program, 06/30/2019, USD								
Account Name	SPX +10% (No Decay) - P&L % MV	FTSE 100 +10% (No Decay) - P&L % MV	MSCI EM +10% (No Decay) - P&L % MV	Gold +10% (No Decay) - P&L % MV	Oil +10% (No Decay) - P&L % MV	20+ Year Treasury +10% (No Decay) - P&L % MV	DXY +10% (No Decay) - P&L % MV	MSCI All Country -20% (No Decay) - P&L % MV
Total CPC Program	-0.65%	0.12%	-0.47%	2.25%	-0.40%	8.89%	2.23%	1.70%
CPC Trend	0.35%	1.54%	-0.43%	1.48%	-0.36%	8.15%	6.39%	0.09%
CPC Long Duration	-1.59%	-1.21%	-0.51%	2.97%	-0.42%	9.57%	-1.66%	3.20%

Return Correlation (Since Inception)			
	Total CPC Program	CPC Trend	CPC Long Duration
Total CPC Program	1.00	0.86	0.53
CPC Trend	0.86	1.00	0.03
CPC Long Duration	0.53	0.03	1.00

Return Correlation (JUN '19)			
	Total CPC Program	CPC Trend	CPC Long Duration
Total CPC Program	1.00	0.87	0.82
CPC Trend	0.87	1.00	0.42
CPC Long Duration	0.82	0.42	1.00

Section IX.

Absolute Return

CLIFFWATER

Employees' Retirement System of the State of Rhode Island

Absolute Return Portfolio

Portfolio Performance Summary

Estimated as of June 30, 2019

Fund	Market Value	Actual %	Jun	QTD	YTD	FYTD	1 Year	3 Year	5 Year	Incep	Std Dev	LTD Beta	Sharpe Ratio	Incep Date
			Returns											
Absolute Return Portfolio														
Capula Global Relative Value Fund Ltd.	76,560,359	13.2%		1.48%	3.74%	6.12%	6.12%	5.82%	6.54%	5.78%	1.75%	-0.03	2.66	Dec-11
Davidson Kempner Institutional Partners, L.P.	91,516,154	15.8%	0.69%	1.92%	4.27%	4.23%	4.23%	5.68%	3.97%	5.66%	2.03%	0.10	2.24	Nov-11
DE Shaw Composite Fund LLC	124,445,997	21.5%		1.80%	5.72%	11.98%	11.98%	10.51%	11.12%	12.63%	4.22%	0.04	2.62	Nov-11
Elliott Associates, L.P.	113,657,638	19.6%	2.70%	3.11%	4.73%	3.74%	3.74%	8.35%	7.43%	8.69%	3.58%	0.08	2.08	Nov-11
Graham Absolute Return Trading Ltd.	63,834,115	11.0%	1.88%	4.32%	7.89%	4.30%	4.30%	4.57%	4.18%	3.28%	5.68%	0.08	0.44	Jan-12
Viking Global Equities, LP	70,020,192	12.1%	6.20%	6.45%	17.31%	13.10%	13.10%	10.69%	8.10%	10.81%	7.45%	0.35	1.30	Dec-11
Winton Fund Limited	38,430,253	6.6%	-0.67%	-0.17%	0.12%	-1.74%	-1.74%	1.43%	3.42%	3.32%	8.23%	0.13	0.33	Dec-11
Absolute Return Portfolio - Total	578,464,709	99.8%	1.88%	2.72%	6.14%	6.56%	6.56%	7.57%	4.83%	6.18%	3.08%	0.17	1.67	Nov-11
HFRI Fund of Funds Composite Index			1.65%	1.59%	6.27%	1.25%	1.25%	4.28%	2.21%	3.28%	3.61%		0.66	Nov-11
MSCI AC World Index Free - Net			6.55%	3.61%	16.23%	5.74%	5.74%	11.62%	6.16%	9.30%	11.52%		0.75	Nov-11
ML 3-month T-Bills			0.22%	0.64%	1.24%	2.31%	2.31%	1.38%	0.87%	0.59%	0.23%		-	Nov-11
25% MSCI ACWI/75% Barclays Aggregate			2.58%	3.32%	8.72%	7.64%	7.64%	4.71%	3.89%	4.56%	3.56%		1.02	Nov-11
Liquidating Portfolio														
Indus Asia Pacific Distribution Holding Company II, 06.30.14 Series (liquidating trust)	322,630	0.1%	-0.59%	-1.42%	-1.45%	-5.58%	-5.58%	2.44%	-16.17%	-10.21%	18.04%	0.36	-0.55	Jan-12
Luxor Capital Partners, LP - Liquidating SPV	808,588	0.1%	-20.13%	-19.26%	-16.97%	-15.33%	-15.33%	3.06%	-	3.06%	19.35%	-0.40	0.16	Jul-16
Liquidating/Redeeming - Total	1,131,218	0.2%	-15.39%	-14.86%	-13.07%	-10.69%	-10.69%	-2.49%	-3.02%	-1.07%	7.53%	-0.08	-0.22	Nov-11
Total Absolute Return Portfolio	579,595,927	100.0%	1.84%	2.67%	6.09%	6.52%	6.52%	7.09%	4.34%	5.57%	2.93%	0.16	1.56	Nov-11
HFRI Fund of Funds Composite Index			1.65%	1.59%	6.27%	1.25%	1.25%	4.28%	2.21%	3.28%	3.61%		-	Nov-11
Market Indices														
Libor3Month			0.19%	0.61%	1.26%	2.54%	2.54%	1.78%	1.22%	0.91%	0.24%		-	Nov-11
Bloomberg Barclays US Aggregate Bond Index			1.26%	3.09%	6.12%	7.88%	7.88%	2.32%	2.95%	2.85%	2.85%		0.69	Nov-11
Bloomberg Barclays US High Yield Bond Index			2.28%	2.50%	9.93%	7.48%	7.48%	7.52%	4.70%	6.82%	5.24%		1.11	Nov-11
S&P 500 TR			7.05%	4.30%	18.54%	10.42%	10.42%	14.19%	10.71%	14.15%	11.13%		1.17	Nov-11
MSCI EAFE - Net			5.93%	3.68%	14.03%	1.08%	1.08%	9.11%	2.25%	6.23%	12.82%		0.47	Nov-11
MSCI EMF (Emerging Markets Free) - Net			6.24%	0.61%	10.59%	1.21%	1.21%	10.66%	2.49%	3.21%	15.65%		0.22	Nov-11

*LTD Beta is calculated with Holding Level Returns. The market benchmark is MSCI AC World Index Free - Net Index

Most recent month returns are based on manager estimates; prior months use final market values.

Hedge Fund Research, Inc. ("HFR") is the source and owner of the HFR data contained or reflected in this report. The HFR indices included in this report are revised by HFR for up to three months following their initial release. The revisions are reflected in the trailing period returns.

This report reflects information only through the date hereof. Our due diligence and reporting rely upon the accuracy and completeness of financial information (which may or may not be audited by the fund manager) and other information publicly available or provided to us by the fund manager, its professional staff, and references we have contacted and other third parties. We have not conducted an independent verification of the information provided other than as described in this report. Our conclusions do not reflect an audit of the investment nor should they be construed as providing legal advice. Past performance does not guarantee future performance. The information contained herein is confidential commercial or financial information, the disclosure of which would cause substantial competitive harm to you, Cliffwater LLC, or the person or entity from whom the information was obtained, and may not be disclosed except as required by applicable law.

CLIFFWATER

Employees' Retirement System of the State of Rhode Island

Absolute Return Portfolio

Fund Level Performance Report

Estimated as of June 30, 2019

						Trailing Returns			Calendar Year Returns					5 Yr	ITD Beta to	Sharpe Ratio			Start
Fund	QTD	YTD	Jun	May	Apr	1 Year	3 Year	5 Year	2018	2017	2016	2015	2014	Std Dev	MSCI ACWI[1]	3 yr	5 yr	Incep.	Date
Absolute Return																			
Capula Global Relative Value Fund Ltd.	1.57%	3.81%				6.14%	5.83%	6.55%	4.63%	3.79%	8.37%	7.54%	8.14%	1.59%	-0.03	2.40	3.11	1.83	Oct-05
Davidson Kempner Institutional Partners, L.P.	1.82%	4.09%	0.69%	-0.33%	1.46%	3.87%	5.34%	3.74%	1.81%	6.11%	6.71%	1.51%	4.45%	2.01%	0.10	1.75	1.24	1.54	Mar-96
DE Shaw Composite Fund LLC	1.80%	5.67%				11.83%	10.25%	10.77%	11.38%	10.41%	6.12%	13.68%	15.57%	4.23%	0.03	2.02	2.15	1.60	Mar-01
Elliott Associates, L.P.	3.11%	4.64%	2.70%	-0.10%	0.50%	3.39%	8.00%	7.01%	2.91%	8.80%	12.98%	2.51%	8.24%	3.67%	0.08	1.90	1.53	1.88	Jan-90
Graham Absolute Return Trading Ltd.	4.33%	7.76%	1.88%	-0.66%	3.09%	4.03%	4.47%	5.85%	2.36%	-7.01%	11.78%	1.50%	10.42%	8.00%	0.09	0.40	0.60	0.91	Jan-05
Viking Global Equities, LP	6.41%	17.11%	6.20%	-0.60%	0.80%	16.55%	12.14%	8.98%	4.64%	13.01%	-3.92%	8.27%	13.47%	7.92%	0.32	1.46	0.98	1.43	Oct-99
Winton Fund Limited	-0.18%	0.10%	-0.67%	-0.71%	1.21%	-1.78%	1.40%	3.41%	-0.56%	7.88%	-3.01%	0.95%	13.88%	8.69%	0.12	-0.02	0.29	0.63	Oct-97
Liquidating Portfolio																			
Indus Asia Pacific Fund, LP	-1.42%	-1.45%	-0.59%	-0.30%	-0.54%	-5.58%	2.44%	-16.15%	-11.10%	9.70%	-26.00%	-33.23%	-15.60%	21.52%	0.37	0.12	-0.76	0.00	Dec-00
Luxor Capital Partners, LP	-19.26%	-16.97%	-20.13%	-0.17%	1.27%	-15.33%	14.97%	0.44%	1.19%	54.38%	7.80%	-19.05%	-9.83%	17.25%	-0.39	0.72	0.04	0.71	Apr-02
Benchmark																			
HFRI Fund of Funds Composite Index	1.59%	6.27%	1.65%	-0.98%	0.93%	1.25%	4.28%	2.21%	-4.02%	7.77%	0.51%	-0.27%	3.37%	8.96%					Mar-90
HFRI Fund Weighted Composite Index	2.02%	7.58%	2.60%	-1.87%	1.33%	1.64%	5.05%	2.98%	-4.75%	8.59%	5.44%	-1.12%	2.98%	9.13%					Mar-90
Market Indices																			
3 Month Libor - BOM	0.61%	1.26%	0.19%	0.21%	0.21%	2.54%	1.78%	1.22%	2.36%	1.29%	0.76%	0.33%	0.23%	0.25%					Mar-87
Barclays Aggregate Bond Index	3.09%	6.12%	1.26%	1.78%	0.03%	7.88%	2.32%	2.95%	0.02%	3.55%	2.66%	0.57%	5.94%	2.94%					Mar-76
Barclays High Yield Credit Bond Index	2.50%	9.93%	2.28%	-1.19%	1.42%	7.48%	7.52%	4.70%	-2.08%	7.50%	17.14%	-4.46%	2.46%	5.54%					Sep-83
S&P 500 (TR)	4.30%	18.54%	7.05%	-6.35%	4.05%	10.42%	14.19%	10.71%	-4.38%	21.83%	11.96%	1.38%	13.69%	12.03%					Aug-88
MSCI EAFE - Net - USD	3.68%	14.03%	5.93%	-4.80%	2.81%	1.08%	9.11%	2.25%	-13.79%	25.03%	1.00%	-0.81%	-4.90%	12.28%					Feb-70
MSCI EMF (EMERGING MARKETS FREE) - Net - USD	0.61%	10.59%	6.24%	-7.26%	2.11%	1.21%	10.66%	2.49%	-14.58%	37.28%	11.19%	-14.92%	-2.19%	15.78%					Feb-88

*LTD Beta is calculated with Fund Level Returns. The market benchmark is MSCI AC World Index Free - Net Index

Note: The above is manager composite history.

1. The inception date for this calculation is equivalent to the inception date of ERSRI's initial investment into the relevant fund.

Section X.

Real Estate

PORTFOLIO SUMMARY

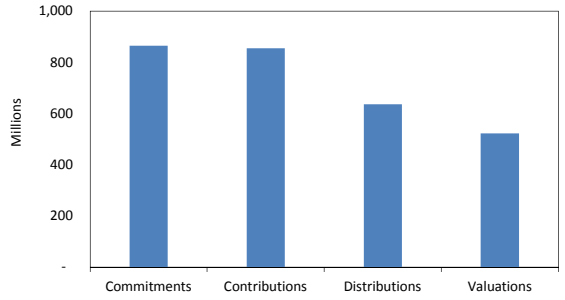
3/31/2019

All Portfolio Investments - Real Estate [1]

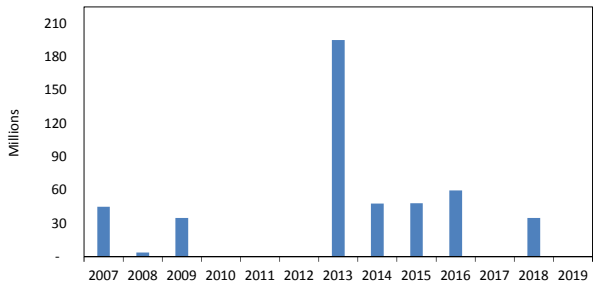
Performance Summary

Asset Class	Investment Type	Number of Investments [4]	Commitment	Contributions [2], [3]	Distributions [3]	Adjusted Valuation	Multiple of Cost	IRR	TWR
Real Estate Funds	Core	8	414,873,660	483,006,182	401,543,062	365,450,699	1.6x	5.5%	5.7%
	Non-Core	22	450,260,817	371,816,906	235,237,593	156,631,435	1.1x	1.1%	3.5%
Total: Real Estate Funds		30	865,134,477	854,823,088	636,780,655	522,082,134	1.4x	4.6%	5.1%
Total:		**30**	**865,134,477**	**854,823,088**	**636,780,655**	**522,082,134**	**1.4x**	**4.6%**	**5.1%**

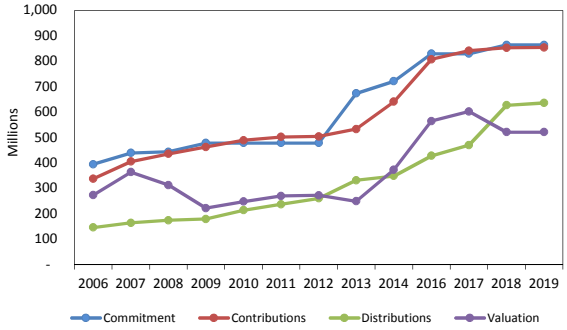
Cash Flow and Valuation Summary



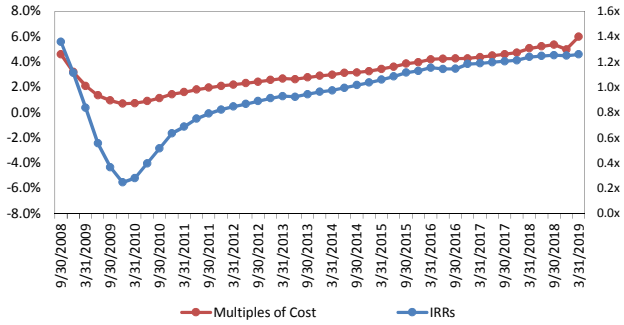
Commitment by Vintage Year



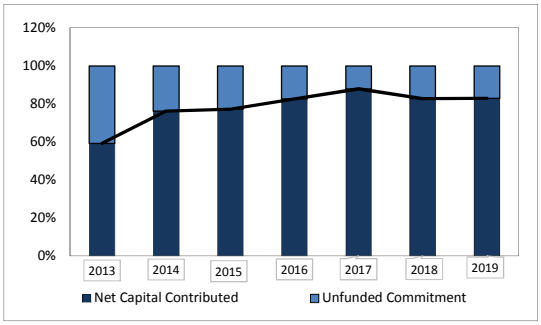
Historical Cash Flows and Valuation



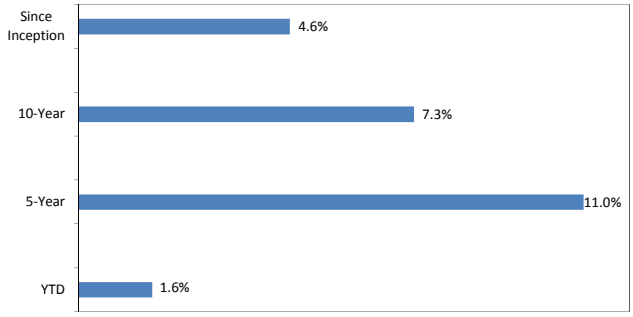
Historical Performance



Historical Percent Funded



Period IRRs [5]



[1] Investment information listed as of March 31, 1989 through March 31, 2019 and includes those investments which have been liquidated.
[2] Contributions are based on cash activity and are higher than commitments primarily due to reinvestments and contributions for management fees in some of the core open-end funds.
[3] Contributions and Distributions each include activity in the amount of $33.5 million related to a simultaneous sale and purchase of shares in a core open-end fund.
[4] As of March 31, 2019 there are four core funds and eleven non-core funds.
[5] The YTD IRR presented is an unannualized percentage.

Employees' Retirement System of Rhode Island Real Estate Performance
3/31/2019

Current Partnerships	Vintage Year/Initial Investment	Type	Amount Committed (In $ unless otherwise noted)	Cumulative Cash Flows ($)				Cumulative Performance*	
				Amount Drawn	Amount Distributed	Amount Unfunded	Valuation ($)	Net IRR (%)	Net Multiple of Investment
Morgan Stanley Prime Property Fund	2005	Core	35,000,000	35,000,000	24,946,857	-	65,749,484	7.3%	2.2
JP Morgan Strategic Property Fund	2006	Core	75,000,000	75,000,000	33,241,056	-	110,485,829	6.2%	1.7
AEW Core Property Trust	2010	Core	69,873,660	69,873,660	56,026,372	-	106,910,570	10.7%	1.6
Heitman America Real Estate Trust	2014	Core	60,000,000	60,000,000	13,632,869	-	82,304,816	9.3%	1.4
TriCon Capital Fund VII	2005	Non-Core	15,000,000	14,571,533	4,764,094	428,467	508,434	-16.1%	0.3
Magna Hotel Fund III	2008	Non-Core	4,000,000	3,426,573	5,752,069	573,427	22,767	14.4%	1.7
IC Berkeley Partners III	2013	Non-Core	18,000,000	16,038,326	23,180,613	1,961,674	1,565,761	20.0%	1.5
GEM Realty Fund V	2013	Non-Core	50,000,000	39,874,323	13,044,378	10,125,677	46,103,746	12.2%	1.4
Exeter Industrial Value Fund III	2014	Non-Core	30,000,000	29,099,454	40,258,332	900,546	15,378,979	29.5%	1.9
Waterton Fund XII	2014	Non-Core	35,000,000	34,265,141	9,659,455	-	41,873,415	14.5%	1.4
Crow Holdings Retail Fund	2015	Non-Core	24,000,000	20,935,313	3,184,374	3,064,687	23,807,952	11.0%	1.3
Lone Star Real Estate Fund IV	2015	Non-Core	24,260,817	19,056,195	14,184,323	5,204,622	12,956,163	19.7%	1.4
IC Berkeley Partners IV	2016	Non-Core	30,000,000	11,541,818	1,783,071	18,458,182	12,402,276	4.9%	1.1
GEM Realty Fund VI	2017	Non-Core	20,000,000	1,604,599	1,200,000	18,395,401	1,130,910	2.2%	1.0
Raith Real Estate II	2018	Non-Core	35,000,000	905,699	-	34,094,301	881,032	N/A	N/A
Total			**$ 525,134,477**	**$ 431,192,634**	**$ 244,857,863**	**$ 93,206,984**	**$ 522,082,134**		

*IRR refers to the fund's Internal Rate of Return, or the annualized compounded yield on an investment. This calculation is typically applied in private real estate where there are multiple points at which capital is invested (capital called) and at which it is distributed. A positive IRR means that the fund's current value plus any cash distributions are greater than the cash value contributed and management fees paid. Typically a fund will have a negative IRR during the first few years of its life, a period referred to as the “J-Curve”, because cash is invested upfront and it takes time to generate value. It is important to consider a fund's start date (vintage year) when assessing IRRs. Multiple of investment is another indicator of returns, and is calculated by dividing the fund's cumulative distributions and current value, after fees, by the amount of capital paid in. Please note that performance calculations are specific to the ERSRI investment, and were not prepared, reviewed or approved by the General Partners.

Section XI.

Infrastructure

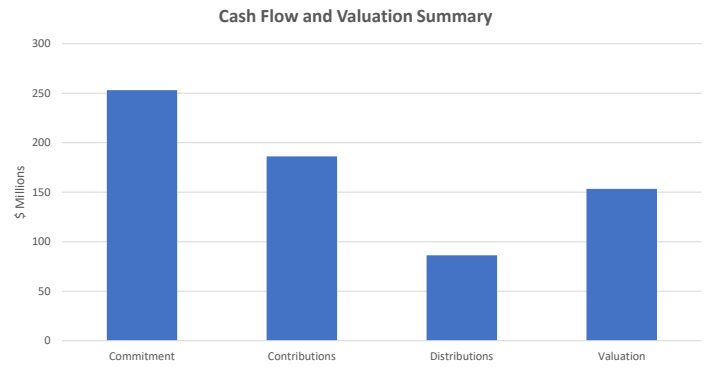
Portfolio Summary

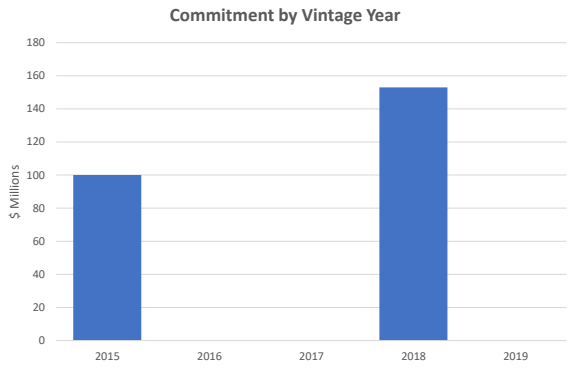
3/31/2019

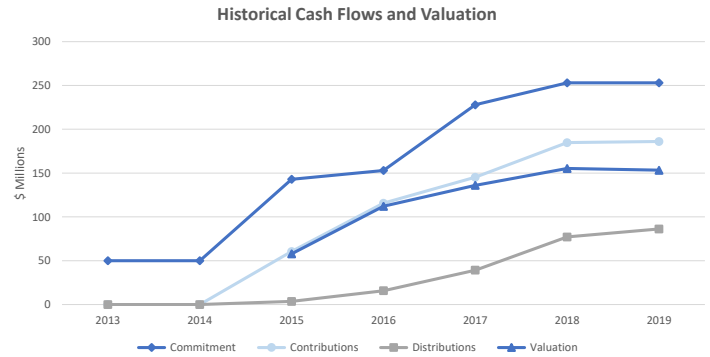
All Investments

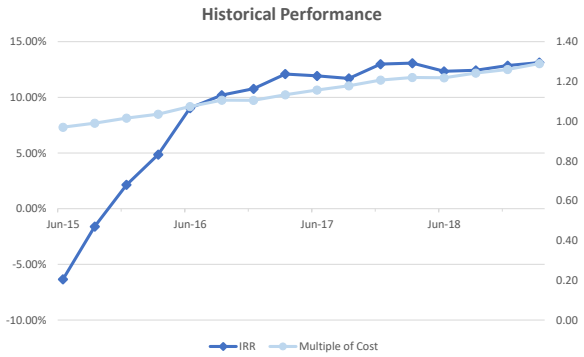
Performance Summary

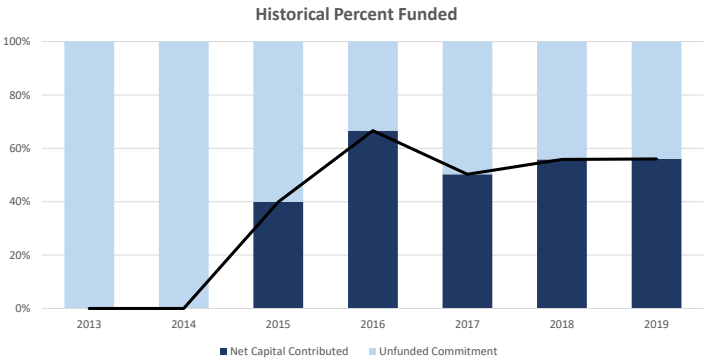
Asset Class	Investment Type	Commitment	Contributions	Distributions	Valuation	Multiple of Cost	IRR
Infrastructure Funds							
	Homestead Capital USA Farmland Fund III, L.P.	25,000,000	-	-	-	-	
	IFM Global Infrastructure Fund	50,032,902	50,032,902	20,776,714	53,450,279	1.48	11.65%
	ISQ Global Infrastructure Fund (UST), L.P.	50,000,000	63,929,349	36,767,189	43,461,865	1.25	14.97%
	ISQ Global Infrastructure Fund II (UST), L.P.	40,000,000	10,771,131	895,179	10,626,919	1.07	15.86%
	Stonepeak Infrastructure Fund II - Master Co- Investment Partners LP	10,000,000	9,152,453	624,544	9,787,064	1.14	10.45%
	Stonepeak Infrastructure Fund II Cayman (G AIV) LP	43,000,000	47,878,289	26,359,318	31,988,731	1.22	15.11%
	Stonepeak Infrastructure Fund III LP	35,000,000	4,299,316	822,809	3,985,405	1.12	15.35%
Total: Infrastructure Funds		**253,032,902**	**186,063,440**	**86,245,753**	**153,300,263**	**1.29**	**13.12%**

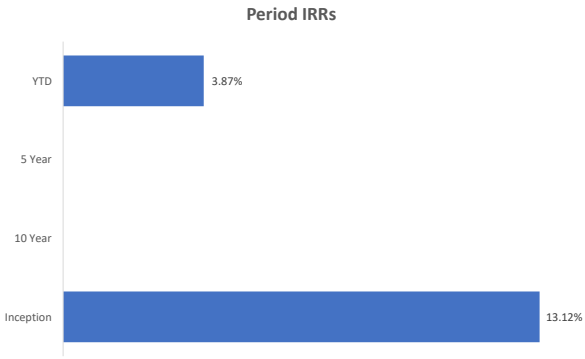












Employees' Retirement System of Rhode Island Private Infrastructure Performance
3/31/2019

Current Partnerships	Vintage Year/Initial Investment	Type	Cumulative Cash Flows ($)					Cumulative Performance*	
			Amount Committed (In $ unless otherwise noted)	Amount Drawn	Amount Distributed	Amount Unfunded	Valuation ($)	Net IRR (%)	Net Multiple of Investment
IFM Global Infrastructure, L.P.	2015	Core	50,000,000	50,033,000	20,777,000	-	53,450,000	11.7	1.5
ISQ Global Infrastructure Fund, L.P.	2015	Value-Add	50,000,000	63,929,000	36,767,000	12,500,000	43,462,000	15.0	1.3
ISQ Global Infrastructure Fund II, L.P.	2017	Value-Add	40,000,000	10,771,000	895,000	30,000,000	10,627,000	N/A	1.1
Stonepeak Infrastructure Fund II, L.P.	2016	Opportunistic	43,000,000	47,878,000	26,359,000	11,610,000	31,989,000	15.1	1.2
Stonepeak Infrastructure Fund II-C	2016	Opportunistic	10,000,000	9,152,000	625,000	1,300,000	9,787,000	10.5	1.1
Stonepeak Infrastrucutre Fund III	2018	Opportunistic	35,000,000	4,299,000	823,000	31,500,000	3,985,000	N/A	1.1
Total			**$ 228,000,000**	**$ 186,062,000**	**$ 86,246,000**	**$ 86,910,000**	**$ 153,300,000**		

*IRR refers to the fund's Internal Rate of Return, or the annualized compounded yield on an investment. This calculation is typically applied in private real estate where there are multiple points at which capital is invested (capital called) and at which it is distributed. A positive IRR means that the fund's current value plus any cash distributions are greater than the cash value contributed and management fees paid. Typically a fund will have a negative IRR during the first few years of its life, a period referred to as the “J-Curve”, because cash is invested upfront and it takes time to generate value. It is important to consider a fund's start date (vintage year) when assessing IRRs. Multiple of investment is another indicator of returns, and is calculated by dividing the fund's cumulative distributions and current value, after fees, by the amount of capital paid in. Please note that performance calculations are specific to the ERSRI investment, and were not prepared, reviewed or approved by the General Partners.

Section XII.

Cash Flow

CASH FLOW ANALYSIS - INCOME & EXPENSES

Employees Retirement System

FISCAL YEAR 2019	FY 2018-19												
	TOTAL	Actual June	Actual May	Actual April	Actual March	Actual February	Actual January 2019	Actual December	Actual November	Actual October	Actual September	Actual August	Actual July 2018
MEMBER BENEFITS	**833,252,302**	**69,132,324**	**69,155,407**	**69,178,465**	**69,266,687**	**69,343,077**	**69,424,081**	**69,501,214**	**69,654,074**	**69,729,526**	**69,703,524**	**69,681,837**	**69,482,084**
ADMINISTRATIVE EXPENSES	**8,713,363**	**1,245,040.43**	**610,799**	**594,437**	**861,267**	**801,556**	**610,285**	**912,931**	**777,303**	**684,123**	**733,118**	**483,861**	**398,643**
INVESTMENT EXPENSES	**47,279,684**	**10,037,448**	**17,681**	**18,470**	**10,062,340**	**20,460**	**18,168**	**13,124,115**	**19,955**	**18,146**	**13,138,426**	**0**	**804,475**
TOTAL OUTFLOW	**889,245,349**	**80,414,813**	**69,783,888**	**69,791,371**	**80,190,294**	**70,165,093**	**70,052,534**	**83,538,260**	**70,451,332**	**70,431,795**	**83,575,068**	**70,165,698**	**70,685,202**
CONTRIBUTIONS	**548,960,080**	**50,184,219**	**62,786,062**	**44,874,628**	**55,109,606**	**36,090,355**	**54,923,714**	**34,863,860**	**55,191,655**	**43,359,980**	**27,337,674**	**31,357,169**	**52,881,158**
OTHER INCOME*	**96,086,579**	**3,294,658**	**8,361,789**	**(926,666)**	**683,544**	**10,162,489**	**5,717,704**	**1,540,773**	**19,157,026**	**(2,560,631)**	**30,034,164**	**18,350,593**	**2,271,136**
TOTAL INCOME	**645,046,659**	**53,478,877**	**71,147,851**	**43,947,962**	**55,793,150**	**46,252,844**	**60,641,418**	**36,404,633**	**74,348,681**	**40,799,349**	**57,371,838**	**49,707,762**	**55,152,294**
DIFFERENCE	**(244,198,690)**	**(26,935,936)**	**1,363,964**	**(25,843,409)**	**(24,397,144)**	**(23,912,249)**	**(9,411,116)**	**(47,133,628)**	**3,897,349**	**(29,632,446)**	**(26,203,230)**	**(20,457,936)**	**(15,532,908)**

Municipal Employees Retirement System

	TOTAL	Actual June	Actual May	Actual April	Actual March	Actual February	Actual January 2019	Actual December	Actual November	Actual October	Actual September	Actual August	Actual July 2018
MEMBER BENEFITS	**100,321,354**	**8,492,798**	**8,506,904**	**8,490,720**	**8,451,729**	**8,415,263**	**8,384,093**	**8,351,832**	**8,338,550**	**8,310,615**	**8,246,506**	**8,185,416**	**8,146,928**
ADMINISTRATIVE EXPENSES	**2,105,763**	**303,272**	**148,540**	**144,781**	**209,053**	**194,360**	**147,562**	**220,523**	**186,896**	**164,492**	**175,891**	**115,551**	**94,842**
INVESTMENT EXPENSES	**11,428,471**	**2,444,966**	**4,300**	**4,499**	**2,442,403**	**4,961**	**4,393**	**3,170,198**	**4,798**	**4,363**	**3,152,198**	**0**	**191,394**
TOTAL OUTFLOW	**113,855,588**	**11,241,036**	**8,659,743**	**8,640,000**	**11,103,185**	**8,614,584**	**8,536,047**	**11,742,553**	**8,530,245**	**8,479,470**	**11,574,595**	**8,300,967**	**8,433,164**
CONTRIBUTIONS	**73,964,825**	**6,431,212**	**5,735,660**	**9,706,407**	**6,695,695**	**5,748,136**	**6,227,640**	**6,054,796**	**6,104,213**	**5,723,536**	**5,286,222**	**4,903,739**	**5,347,569**
OTHER INCOME*	**23,114,071**	**802,527**	**2,033,494**	**(225,699)**	**165,915**	**2,464,179**	**1,382,494**	**372,182**	**4,606,150**	**(615,683)**	**7,205,857**	**4,382,324**	**540,330**
TOTAL INCOME	**97,078,896**	**7,233,739**	**7,769,154**	**9,480,708**	**6,861,610**	**8,212,315**	**7,610,134**	**6,426,978**	**10,710,363**	**5,107,853**	**12,492,079**	**9,286,063**	**5,887,899**
DIFFERENCE	**(16,776,692)**	**(4,007,297)**	**(890,589)**	**840,707**	**(4,241,575)**	**(402,268)**	**(925,913)**	**(5,315,576)**	**2,180,119**	**(3,371,616)**	**917,484**	**985,097**	**(2,545,265)**

CASH FLOW ANALYSIS - INCOME & EXPENSES

State Police
Retirement System

	TOTAL	Actual June	Actual May	Actual April	Actual March	Actual February	Actual January 2019	Actual December	Actual November	Actual October	Actual September	Actual August	Actual July 2018
MEMBER BENEFITS	6,000,367	499,445	499,445	499,445	499,003	508,193	499,263	499,263	499,263	499,263	499,263	499,263	499,263
ADMINISTRATIVE EXPENSES	189,804	27,589	13,497	13,113	18,896	17,553	13,297	19,845	16,748	14,740	15,742	10,327	8,458
INVESTMENT EXPENSES	1,030,118	222,419	391	407	220,762	448	396	285,288	430	391	282,118	0	17,069
TOTAL OUTFLOW	7,220,290	749,453	513,332	512,965	738,660	526,194	512,955	804,396	516,440	514,393	797,122	509,589	524,790
CONTRIBUTIONS	5,950,117	446,796	643,522	418,874	517,636	553,816	464,517	381,166	668,195	473,748	511,035	444,510	426,307
OTHER INCOME*	2,126,846	73,006	184,770	-20,442	14,997	222,547	124,577	33,493	412,753	(55,171)	644,915	391,653	99,750
TOTAL INCOME	8,076,964	519,802	828,291	398,432	532,632	776,363	589,093	414,658	1,080,947	418,577	1,155,949	836,162	526,057
DIFFERENCE	856,674	(229,651)	314,959	(114,534)	(206,028)	250,169	76,138	(389,737)	564,507	(95,817)	358,827	326,573	1,267

Judicial
Retirement System

	TOTAL	Actual June	Actual May	Actual April	Actual March	Actual February	Actual January 2019	Actual December	Actual November	Actual October	Actual September	Actual August	Actual July 2018
MEMBER BENEFITS	3,579,590	307,623	307,623	307,623	305,669	303,954	304,022	303,781	303,781	288,071	288,071	288,071	271,301
ADMINISTRATIVE EXPENSES	100,182	14,526	7,110	6,912	9,960	9,255	7,016	10,482	8,859	7,797	8,326	5,463	4,476
INVESTMENT EXPENSES	543,699	117,108	206	215	116,360	236	209	150,694	227	207	149,204	0	9,033
TOTAL OUTFLOW	4,223,470	439,256	314,939	314,749	431,989	313,445	311,247	464,958	312,868	296,075	445,601	293,534	284,810
CONTRIBUTIONS	2,948,993	241,159	365,766	241,379	242,261	221,422	219,459	212,730	310,382	219,155	218,491	240,520	216,269
OTHER INCOME*	1,161,319	38,439	97,335	(10,775)	7,904	155,323	65,732	17,692	218,340	(29,185)	341,078	207,202	52,233
TOTAL INCOME	4,110,312	279,598	463,101	230,604	250,166	376,745	285,191	230,421	528,722	189,971	559,569	447,722	268,502
DIFFERENCE	(113,159)	(159,659)	148,162	(84,145)	(181,823)	63,300	(26,056)	(234,536)	215,854	(106,105)	113,968	154,188	(16,308)

*includes income from Real Estate Investments, Private Equity, and Cash Accounts

FISCAL YEAR 2019 — **INVESTMENT MANAGER FEES, PROFESSIONAL FEES & OPERATING EXPENSES**

ERSRI Pooled Trust — **ACCRUAL BASIS**

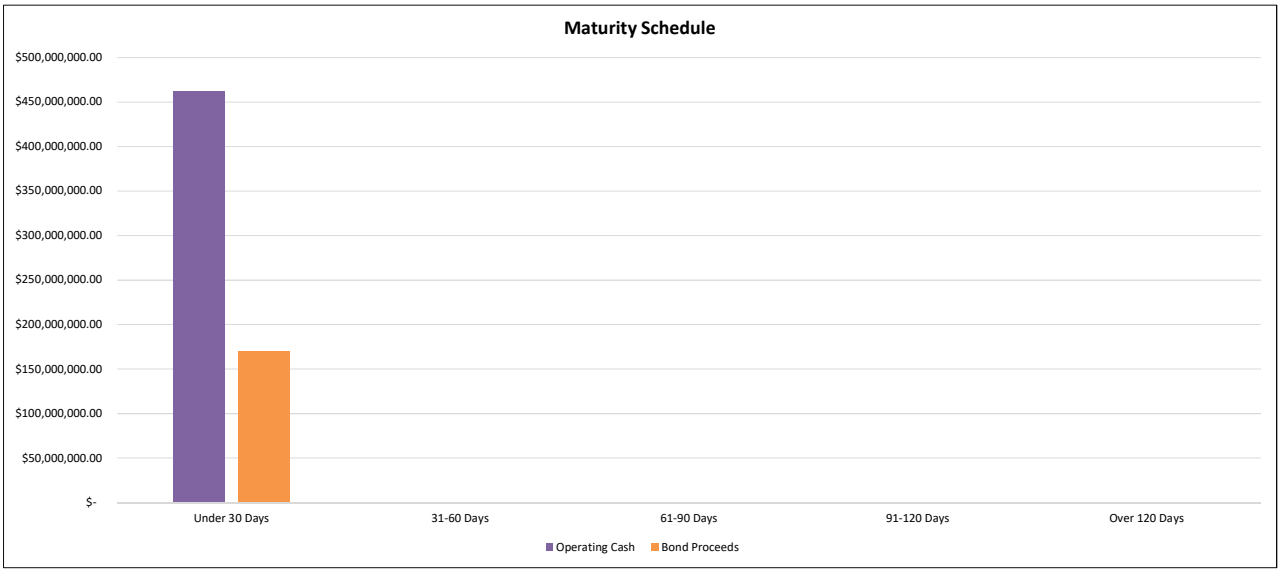
	Actual Jul 18	Actual Aug	Actual Sept	Actual Oct	Actual Nov	Actual Dec	Actual Jan 19	Actual Feb	Actual Mar	Projected Apr	Projected May	Projected June	Projected TOTAL
EQUITIES US													
SSGA Russell 3000			**43,255**			**39,306**			**41,382**			39,443	163,387
Shott Capital/Hamilton Lane			**415**			**433**			**397**			539	1,784
SSGA QVM Tilt			**191,631**			**176,942**			**184,413**			123,000	675,986
			235,301			216,681			226,192			169,782	171,971
FIXED INCOME													
Fidelity			**154,815**			**154,702**			**156,378**			156,000	621,895
Mackay Shields			**142,952**			**141,668**			**143,021**			156,000	583,641
Brown Bros.TIPS/GILB			**62,949**			**62,713**			**58,201**			65,000	248,864
			360,716			359,083			357,600			377,000	1,454,400
INT'L EQUITIES													
SSGA MSCI EAFE			**57,473**			**48,673**			**51,137**			62,489	219,772
SSGA MSCI CAD			**7,206**			**4,475**			**4,857**			7,443	23,981
SSGA MSCI Emerg Mkts			**108,247**			**99,109**			**107,615**			104,950	419,921
			172,925			152,257			163,610			174,883	663,674
CREDIT													
WAMCO			**108,676**			**26,024**			0			0	134,701
Loomis			**0**			**98,149**			**135,471**			135,000	368,620
PIMCO			**117,474**			**110,540**			**95,752**			117,000	440,766
			226,150			234,713			231,223			252,000	944,087
Infrastructure													
Harvest Partners			**302,413**			**262,883**			**278,016**			275,283	1,118,595
Systematic Trend Followers	**202,916**	**210,203**	**203,143**	**205,889**	**186,893**	**209,195**	**201,311**	**174,376**	**193,353**	**197,917**	**209,964**	**189,352**	2,384,511
Long Duration													
WAMCO			**30,519**			**29,694**			**30,230**			31,000	121,442
Mackay Shields			**30,563**			**29,948**			**30,391**			32,000	122,901
			61,081			59,642			60,620			63,000	244,344
REAL ESTATE	0	0	**2,268,181**	0	0	**1,316,299**	0	0	**6,013,911**	0	0	3,900,000	13,498,391
ALTERNATIVE INVESTMENTS													
Private Infrastructure			**1,526,570**			**1,962,839**			**1,707,969**			2,250,000	7,447,378
Hedge Funds			**4,907,979**			**2,549,827**			**7,307,576**			5,500,000	20,265,382
Private Equity			**5,786,256**			**2,143,095**			**9,861,859**			5,000,000	22,791,210
	0	0	12,220,805	0	0	6,655,761	0	0	18,877,404	0	0	12,750,000	50,503,970
Other													
Russell Overlay			**48,690**			**49,978**			**50,441**			75,000	224,109
Payden & Rygel	**22,355**	**21,954**	**19,940**	**19,222**	**20,880**	**21,487**	**22,168**	**24,378**	**22,361**	**22,792**	22,583	23,400	263,520
	22,355	21,954	68,630	19,222	20,880	71,465	22,168	24,378	72,802	22,792	22,583	98,400	487,629
SUB TOTAL-INV MGMT FEES	225,271	232,157	16,119,347	225,111	207,773	9,537,980	223,479	198,754	26,474,732	220,709	232,547	18,249,700	71,471,572
PROFESSIONAL FEES													
Legal	**8,276**	**11,982**	**10,063**	**12,274**	**4,470**	**4,919**	**4,881**	**6,374**	**15,521**	**16,633**	**14,961**	15,569	125,923
BNY Mellon - Custodial	**52,464**	**41,456**	**52,175**	**45,409**	**43,050**	**47,847**	**46,421**	**47,520**	**46,224**	42,000	42,000	42,000	548,566
Cliffwater	**33,333**	**33,333**	**33,334**	**33,333**	**33,333**	**33,334**	**33,333**	**33,333**	**33,334**	**33,333**	**33,333**	33,333	400,000
PCA General & Infrastructure	**6,250**	**6,250**	**6,250**	**6,250**	**6,250**	**6,250**	**6,250**	**6,250**	**6,250**	**6,250**	**6,250**	6,250	75,000
NEPC	0	0	**91,250**	0	0	**91,250**	0	0	**91,250**	0	0	**91,250**	365,000
Aberdeen	**26,494**	**26,564**	**25,723**	**25,746**	**24,308**	**25,677**	**25,931**	**23,031**	**26,163**	**26,092**	**27,514**	27,000	310,242
PCA Real Estate	**10,417**	**10,417**	**10,417**	**10,417**	**10,417**	**10,417**	**10,417**	**10,417**	**10,417**	**10,417**	**10,417**	10,417	125,004
	137,234	130,001	229,211	133,429	121,827	219,694	127,233	126,925	229,160	134,725	134,475	225,820	1,949,735
OPERATING EXPENSE													
Retirement Transfers	**319,579**	**913,890**	**551,642**	**720,898**	**1,057,736**	**553,937**	**968,951**	**780,086**	**630,965**	**630,113**	**719,889**	1,361,470	9,209,155
Other Expense	0	0	**19,000**	0		**29,250**	**6,098**	**2,005**	**25,394**	**96**	**3,080**	**6,420**	91,343
	319,579	913,890	570,642	720,898	1,057,736	583,187	975,048	782,091	656,359	630,209	722,969	1,367,890	9,300,498
TOTAL:	**682,084**	**1,276,048**	**16,919,200**	**1,079,438**	**1,387,336**	**10,340,860**	**1,325,759**	**1,107,770**	**27,360,251**	**985,644**	**1,089,991**	**19,843,409**	**82,721,805**

Note: Numbers in bold are actual.

Section XIII.

Short-Term Investments

Short-Term Investment Maturity Schedule & SIC Compliance Report at June 30, 2019



SHORT-TERM INVESTMENT OPERATING PORTFOLIO BALANCES						
Vendor	CD	CDARS	Money Mkt	CoD	OSIP	Total ($)
Guidelines-Total/Vendor	50%/20%	50%/20%	75%/35%	75%/35%	50%/50%	
OSIP	-	-	-	-	157,691,174	$ 157,691,174.31
	0%	0%	0%	0%	34%	34.1%
Bank RI	-	-	10,262,539	-	-	$ 10,262,538.66
	0%	0%	2%	0%	0%	2.2%
Santander Bank	-	-	-	41,977,681	-	$ 41,977,680.62
	0%	0%	0%	9%	0%	9.1%
People's Credit Union Comm Dep.	-	2,701,111	-	-	-	$ 2,701,111.00
	0%	1%	0%	0%	0%	0.58%
Navigant Credit Union Comm Dep	-	6,045,239	-	-	-	$ 6,045,239.43
	0%	1%	0%	0%	0%	1.31%
Fidelity	-	-	-	-	-	-
	0%	0%	0%	0%	0%	0.00%
Bristol County Savings Bk Comm Dep	-	-	-	4,852,182	-	$ 4,852,181.61
	0%	0%	0%	1%	0%	1.05%
Centreville Bank		15,158,370	-	-	-	$ 15,158,370.44
Community Deposit	-	7,354,020	-	-	-	$ 7,354,019.53
	0%	2%	0%	0%	0%	4.87%
Citizens Bank	-	-	-	70,161,016	-	$ 70,161,016.07
	0%	0%	0%	15%	0%	15.2%
Webster Bank	-	-	-	77,017,867	-	$ 77,017,867.03
	0%	0%	0%	17%	0%	16.7%
Customers Bank	-	-	-	31,748,930	-	$ 31,748,930.48
	0%	0%	0%	7%	0%	6.9%
Washington Trust	-	21,572,208	-	-	-	$ 21,572,207.74
Community Deposit	-	2,859,340	-	-	-	$ 2,859,340.43
	0%	5%	0%	0%	0%	5.3%
Freedom National Community Dep.	-	-	-	-	-	$ -
	0%	0%	0%	0%	0%	0.0%
TD Bank	-	-	-	12,875,356	-	$ 12,875,355.88
	0%	0%	0%	3%	0%	2.8%
BankNewport Community Deposit	-	-	-	-	-	$ -
	0%	0%	0%	0%	0%	0.0%
TOTALS	**$ -**	**$ 37,672,577.70**	**$ 10,262,538.66**	**$ 238,633,031.69**	**$ 157,691,174.31**	**$ 462,277,033.23**
(%) PORTFOLIO	**0.0%**	**8.1%**	**2.2%**	**51.6%**	**34.1%**	**100.0%**

BOND PROCEED BALANCE						
Vendor	CD	CDARS	Money Mkt	CoD	OSIP	Total ($)
Guidelines-Total/Vendor	50%/20%	50%/20%	75%/35%	75%/35%	50%/50%	
OSIP - BOND PROCEEDS	-	-	-	-	169,764,828	$ 169,764,827.83
	0.0%	0.0%	0.0%	0.0%	26.9%	26.9%
TOTALS WITH BONDS	**$ -**	**$ 37,672,577.70**	**$ 10,262,538.66**	**$ 238,633,031.69**	**$ 327,456,002.14**	**$ 632,041,861.06**

CD	= Certificate of Deposit
CDARS	= Cert.of Dep.Acct Registry Svc
MMKT	= Money Market
CoD	= Collateralized Deposit
OSIP	= Ocean State Investment Pool

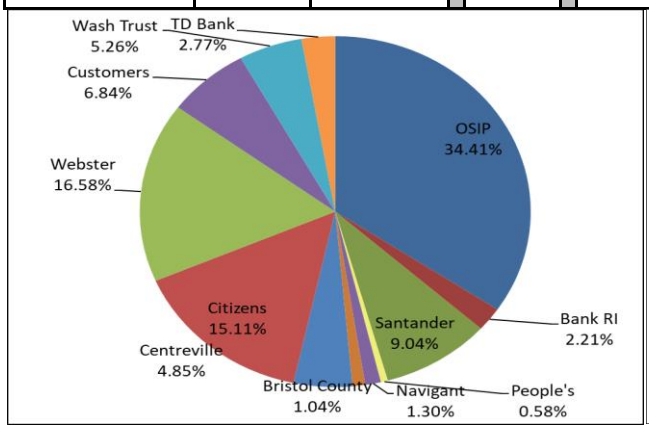
State of Rhode Island
Short Term Cash Monthly Performance
Performance for
June 01, 2019 to June 30, 2019

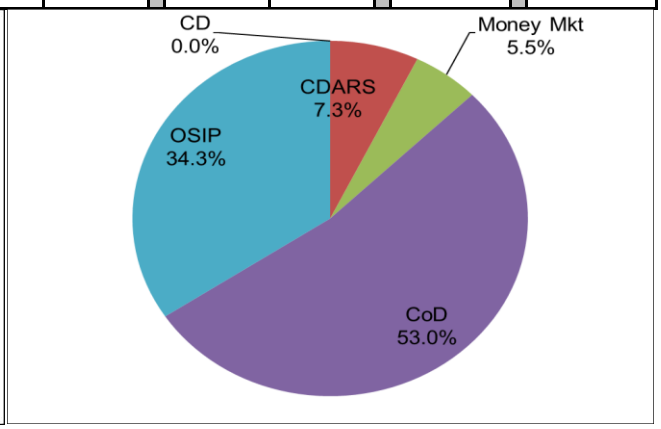
Fund Name	Beginning Balance	Ending Balance	Average Daily Balance	Earnings	Yield(Annual)
GENERAL FUND	$ 36,675,886.99	$ 163,604,857.55	$ 155,874,672.71	$ 260,362.36	2.0322%
H.A.V.A	$ 306.13	$ 2,322,089.25	$ 1,909,773.01	$ 3,139.52	2.0001%
GENERAL FUND (HIST PRES)	$ 563,143.55	$ 564,302.34	$ 564,265.02	$ 1,119.73	2.4144%
HISTORIC TAX CREDITS	$ 10,349,819.63	$ 9,871,647.82	$ 10,487,620.41	$ 20,822.36	2.4156%
HIGHWAY FUND	$ 103,799,301.38	$ 108,896,591.31	$ 95,650,711.90	$ 176,382.37	2.2436%
T.D.I. RESERVE (DET)	$ 108,038,865.46	$ 108,600,614.15	$ 105,486,910.40	$ 84,201.15	0.9712%
RICAP GL FUND 21	$ 391,169.44	$ 391,664.57	$ 391,648.31	$ 479.45	1.4894%
BOND CAPITAL FUND	$ 1,598,550.70	$ 2,103,478.82	$ 1,400,065.77	$ 2,391.20	2.0780%
R.I. CLEAN WATER ACT	$ 3,323,136.46	$ 2,929,648.50	$ 2,969,461.48	$ 5,610.52	2.2988%
STATE LOTTERY FUND	$ 34,804,037.32	$ 26,781,248.87	$ 29,546,761.37	$ 51,707.63	2.1292%
ASSESSED FRINGE BEN ADM	$ 1,924,254.29	$ 1,426,915.92	$ 1,593,477.31	$ 3,158.39	2.4115%
AUTO EQUIPMENT SERVICE	$ 503,206.90	$ 4,061.66	$ 104,055.96	$ 171.06	2.0001%
HEALTH INSURANCE FUND	$ 23,828,552.49	$ 23,352,018.00	$ 21,383,974.49	$ 41,305.23	2.3501%
FLEET REVOLVING LOAN FUND	$ 2,934,401.45	$ 3,939,510.52	$ 3,106,002.95	$ 5,226.84	2.0474%
EMPLOYEES RETIREMENT	$ 1,439,224.19	$ 669,005.39	$ 8,712,529.56	$ 15,941.91	2.2262%
MUNICIPAL EMPLOYEES RET.	$ 43,517.03	$ 49,317.62	$ 2,402,501.27	$ 4,490.58	2.2741%
RETIREE HEALTH FUND	$ 3,258,358.16	$ 1,261,454.73	$ 2,227,982.86	$ 4,156.22	2.2696%
BOG RETIREE FUND	$ 501,625.92	$ 1,656.08	$ 301,639.55	$ 495.87	2.0001%
RIPTA HEALTH FUND	$ 3,203,415.42	$ 2,908,615.74	$ 3,701,746.23	$ 6,085.39	2.0001%
PERMANENT SCHOOL FUND	$ 1,722,300.95	$ 1,725,844.96	$ 1,725,730.81	$ 3,424.54	2.4144%
TEACHER RETIREE HEALTH FUND	$ 722,242.27	$ 723,427.95	$ 723,387.88	$ 1,202.17	2.0219%
RI ST POL RETIREE HEALTH	$ 431,108.37	$ 431,840.66	$ 431,817.00	$ 709.87	2.0001%
RI LEG RETIREE HEALTH	$ 853.41	$ 854.86	$ 854.81	$ 1.41	2.0069%
RI JUDICIAL RETIREE HEALTH	$ 41,684.85	$ 41,755.66	$ 41,753.37	$ 68.64	2.0001%
UNIVERSITY COLLEGE	$ 2,234,106.04	$ 1,038,852.69	$ 8,855.71	$ 14.56	2.0004%
INDUS. BLDG. & MTG. INS.	$ 754,354.56	$ 755,906.81		$ -	
Operating Funds Totals	**$ 343,087,423.36**	**$ 464,397,182.43**	**$ 450,748,200.14**	**$ 692,668.97**	**1.870%**
BOND CCDL 2006 SERIES C	$ 492,149.70	$ 492,149.70	$ 492,117.14	$ 976.69	2.4147%
GO BND-NTAX 2007 SERIES A	$ 124,237.53	$ 124,237.53	$ 124,229.31	$ 246.55	2.4146%
CCDL10B BOND CAPITAL COMPONENT	$ 950,000.00	$ 950,000.00	$ 949,937.16	$ 1,885.31	2.4147%
CCDL10C	$ 166,678.08	$ 167,021.06	$ 167,010.01	$ 331.41	2.4143%
CCDL2011A	$ 3,159,663.12	$ 3,154,023.12	$ 3,156,822.28	$ 6,265.20	2.4147%
CCDL2012B	$ 5,100,077.27	$ 5,100,077.27	$ 5,099,739.89	$ 10,121.31	2.4147%
GO CCDL 2013A	$ 2,590,915.50	$ 2,590,915.50	$ 2,590,744.11	$ 5,141.78	2.4147%
GO CCDL 2014A	$ 94,193.10	$ 94,193.10	$ 94,186.87	$ 186.93	2.4147%
GO CCDL 2014B	$ 40,664.27	$ 40,664.27	$ 40,661.58	$ 80.70	2.4147%
GO CCDL 2016A	$ 3,081,540.83	$ 2,893,348.39	$ 2,993,519.72	$ 5,939.09	2.4138%
GO CCDL 2016B	$ 3,199,015.03	$ 3,199,015.03	$ 3,198,803.41	$ 6,348.58	2.4147%
GO CCDL 2017	$ 1,320,652.58	$ 1,278,972.32	$ 1,301,115.73	$ 2,581.83	2.4143%
CCDL99A 1999A	$ 206,569.39	$ 206,569.39	$ 206,555.72	$ 409.95	2.4147%
CLEAN WATER 2007 SERIES A	$ 198,130.34	$ 198,130.34	$ 198,117.23	$ 393.20	2.4147%
CCDL2011A CLEAN WATER COMPONENT	$ 1,236,000.00	$ 1,236,000.00	$ 1,235,918.24	$ 2,452.89	2.4147%
GO CCDL 2018A	$ 9,728,570.62	$ 7,948,233.82	$ 8,897,120.22	$ 18,796.65	2.5704%
GO CCDL 2018B	$ 14,914,530.02	$ 13,593,099.78	$ 14,296,917.24	$ 28,360.18	2.4134%
GO CCDL 2019A	$ 109,181,336.78	$ 99,388,691.35	$ -	$ 206,339.88	2.4000%
GO CCDL 2019B	$ 24,750,000.00	$ 24,989,336.66	$ -	$ 49,341.67	2.4148%
Bond Proceeds Fund Totals	**$ 180,534,924.16**	**$ 167,644,678.63**	**$ 45,043,515.86**	**$ 346,199.80**	**2.445%**
TANS PROCEEDS	$ -	$ -	$ -	$ -	
Grand Totals	**$ 523,622,347.52**	**$ 632,041,861.06**	**$ 495,791,716.00**	**$ 1,038,868.77**	**2.022%**

State of Rhode Island
Office of the General Treasurer
Short Term Investments

Issuer Credit Rating
June 30, 2019

Issuer	Type of Instrument*	M/E % Portfolio	Issuer Ratings Moody's	S-T Debt Rating Moody's	S-T Debt Rating S&P	L-T Debt Rating Moody's	L-T Debt Rating S&P	Credit Outlook S&P	Rating Veribanc
Bank of America	-	0.0%	Baa1	P-2	A-2	A3	A-	Stable	GREEN/*
Bank RI	3,4	2.2%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Bristol County Sav. Bank	4	1.0%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Centreville Bank	4	4.9%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***/BB
Citizens Bank	4	15.1%	Baa1	P-2	A-2	A1	BBB+	Stable	GREEN/*
Customers Bank	4	6.8%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/*
Home Loan Inv. Bank	-	0.0%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Navigant Credit Union	4	1.3%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Ocean State Inv. Pool	6	34.4%	N/R	N/R	N/R	N/R	N/R	N/R	N/R
People's Credit Union	4	0.6%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Santander Bank	4	9.0%	A3	P-2	A-2	A3	A-	Stable	GREEN/*
TD Bank	4	2.8%	Aa2	P-1	A-1+	Aa2	AA-	Stable	GREEN/***
Washington Trust	4,7	5.3%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Webster Bank	4	16.6%	Baa1	P-1	A-2	A1	BBB+	Stable	GREEN/***





CD	= Certificate of Deposit	1*
CDARS	= Cert.of Dep.Acct Registry Svc	2*
MMKT	= Money Market	3*
CoD	= Collateralized Deposit	4*
OSIP	= Ocean State Investment Pool	5*

Ratings Definitions

Moody's Short-Term Debt Ratings:
P-1 - Prime-1 have a superior ability for repayment of sr. S-T debt
P-2 - Prime-1 have a strong ability for repayment of sr. S-T debt
P-3 - Prime-1 have acceptable ability for repayment of sr. S-T debt
NP - Not Prime

Moody's Issuer Rating Symbols:
Aaa - Offer exceptional financial security (high-grade)
Aa - Offer excellent financial security (high-grade)
A - Offer good financial security
Baa - Offer adequate financial security
Ba - Offer questionable financial security
B - Offer poor financial security
Caa - Offer very poor financial security
Ca - Offer extremely poor financial security
C - Lowest rated class, usually in default

Moody's Long-Term Debt Ratings:
Aaa - Best Quality
Aa - High Quality
A - Posess many favorable investment attributes
Baa - Medium-grade obligations
Ba - Posess speculative elements
B - Generally lack characteristics of desirable investments
Caa - Poor standing
Ca - Speculative in a high degree
C - Lowest rated class of bonds

Modifiers:
1 - Higher end of letter rating category
2 - Mid-range of letter rating category
3 - Lower end of letter rating category

S&P Short -Term Credit Ratings:
A-1 - Highest rated, strong capacity to meet obligations
A-2 - Somewhat more susceptibleto adverse effects of changes infinancial conditions; satisfactory
A-3 - Exhibits adequate protection parameters
B - Significant speculative characteristics, faces major ongoing uncertainties
C - Vulnerable to non-payment
D - Payment default
Modifiers: + or - show relative standing within the category.

S&P Outlook Definitions:
Positive - A rating may be raised
Negative - A rating may be lowered
Stable - A rating is not likely to change
Developing - May be raised or lowered
NM - Not meaningful

S&P Long-Term Debt Ratings:
AAA - Highest rating, extremely strong
AA - Differs slightly from highest rating, very strong
A - More susceptible to adverse effects of change in economic condition, strong
BBB - Exhibits adequate protection parameters
BB, B, - Have significant speculative characteristics. BB least speculative
CCC, CC, C - C highest degree
D - Payment default
Modifiers: + or - show relative standing within the category.

VERIBANC Ratings:
GREEN The institution's equity exceeds a modest percentage of its assets and had positive net income during the most recent reporting period.
YELLOW The institution's equity is at a minimal percentage of its assets or it incurred a net loss during the most recent reporting period.
RED The institution's equity is less than a minimal percentage of its assets or it incurred a significant net loss during the most recent reporting period (or both).
BB Blue Ribbon Bank
Modifiers: ***-Very Strong, **-Strong, *-Moderate, No Stars-Poor

State of Rhode Island

OSIP Performance FY19 Q4

April 1, 2019 through June 30, 2019

Fund Name	Beginning Balance	Ending Balance	Average Daily Balance	Earnings	Yield
GENERAL FUND	$ 23,648,332	$ 49,585,478	$ 61,648,798	$ 374,461	2.44%
GENERAL FUND (HIST PRES)	$ 560,795	$ 564,302	$ 561,960	$ 3,424	2.44%
HISTORIC TAX CREDITS	$ 10,903,439	$ 9,871,648	$ 10,766,764	$ 65,644	2.45%
HIGHWAY FUND	$ 13,009,825	$ 61,142,836	$ 31,717,316	$ 192,114	2.43%
T.D.I. RESERVE (DET)	$ 19,127,086	$ 10,233,448	$ 15,156,107	$ 92,487	2.45%
RICAP GL FUND 21	$ 968	$ 1,084	$ 1,080	$ 7	2.44%
BOND CAPITAL FUND	$ 810,401	$ 25,607	$ 1,910,673	$ 12,180	2.56%
R.I. CLEAN WATER ACT	$ 2,405,106	$ 2,120,149	$ 2,317,802	$ 14,131	2.45%
STATE LOTTERY FUND	$ 11,438,733	$ 2,710,614	$ 10,219,726	$ 62,306	2.45%
ASSESSED FRINGE BEN ADM	$ 1,012,558	$ 1,420,864	$ 1,522,320	$ 9,283	2.45%
HEALTH INSURANCE FUND	$ 192	$ 16,822,786	$ 9,323,925	$ 56,191	2.42%
EMPLOYEES RETIREMENT	$ 14,924	$ 533,618	$ 2,589,925	$ 15,635	2.42%
MUNICIPAL EMPLOYEES RET.	$ 1,005,876	$ 13,852	$ 1,512,122	$ 9,218	2.45%
RETIREE HEALTH FUND	$ 1,007,425	$ 1,215,316	$ 1,189,032	$ 7,211	2.43%
PERMANENT SCHOOL FUND	$ 1,715,117	$ 1,725,845	$ 1,718,681	$ 10,473	2.44%
TEACHER RETIREE HEALTH FUND	$ 33,783	$ 37,972	$ 37,815	$ 230	2.44%
UNIVERSITY COLLEGE	$ 2,814,229	$ 1,029,996	$ 2,174,585	$ 13,278	2.45%
INDUS. BLDG. & MTG. INS.	$ 751,208	$ 755,907	$ 752,769	$ 4,587	2.44%
Operating Funds Totals	**$ 90,259,996**	**$ 159,811,324**	**$ 155,121,402**	**$ 942,860**	**2.45%**
BOND CCDL 2006 SERIES C	$ 492,150	$ 492,150	$ 491,110	$ 2,993	2.44%
GO BND-NTAX 2007 SERIES A	$ 124,238	$ 124,238	$ 123,975	$ 756	2.44%
CCDL10B BOND CAPITAL COMPONENT	$ 950,000	$ 950,000	$ 947,994	$ 5,777	2.44%
CCDL10C	$ 165,983	$ 167,021	$ 166,328	$ 1,014	2.44%
CCDL2011A	$ 3,423,704	$ 3,154,023	$ 3,256,175	$ 19,854	2.45%
CCDL2012B	$ 5,100,077	$ 5,100,077	$ 5,089,306	$ 31,015	2.44%
GO CCDL 2013A	$ 2,590,916	$ 2,590,916	$ 2,585,443	$ 15,756	2.44%
GO CCDL 2014A	$ 94,193	$ 94,193	$ 93,994	$ 573	2.44%
GO CCDL 2014B	$ 40,664	$ 40,664	$ 40,578	$ 247	2.44%
GO CCDL 2016A	$ 3,141,478	$ 2,893,348	$ 3,082,700	$ 18,790	2.44%
GO CCDL 2016B	$ 3,228,848	$ 3,199,015	$ 3,200,951	$ 19,508	2.44%
GO CCDL 2017	$ 1,320,653	$ 1,278,972	$ 1,311,451	$ 7,992	2.44%
GO CCDL 2018A	$ 11,627,652	$ 7,948,234	$ 10,156,545	$ 63,126	2.49%
GO CCDL 2018B	$ 15,448,741	$ 13,593,100	$ 14,863,722	$ 90,601	2.44%
GO CCDL 2019A	$ -	$ 99,388,691	$ 72,469,512	$ 436,295	2.41%
GO CCDL 2019B	$ -	$ 24,989,337	$ 16,609,589	$ 100,270	2.42%
CCDL99A 1999A	$ 206,569	$ 206,569	$ 206,133	$ 1,256	2.44%
CLEAN WATER 2007 SERIES A	$ 198,130	$ 198,130	$ -	$ 1,205	2.44%
CCDL2011A CLEAN WATER COMPONENT	$ 1,236,000	$ 1,236,000	$ -	$ 7,516	2.44%
Bond Proceeds Fund Totals	**$ 49,389,995**	**$ 167,644,679**	**$ 134,695,506**	**$ 824,544**	**2.44%**
Grand Totals	**$ 139,649,990**	**$ 327,456,002**	**$ 289,816,909**	**$ 1,767,404**	**2.45%**

Section XIV.

Defined Contribution Plan

State of Rhode Island
401(a) Performance Summary

TIAA

As of 06/30/2019

The performance data quoted represents past performance and is no guarantee of future results. Your returns and the principal value of your investments will fluctuate so that your shares or accumulation units, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than the performance quoted below. For performance current to the most recent month-end, visit the TIAA Website at www.tiaa.org, or call 877 518-9161.

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)
									Recent Returns		Annualized Total Returns as of 6/30/2019													
Investment Name	Ticker	Morningstar Category	Mgr Tenure	AUM $M	Gross ER	Net ER	%-ile ER	Rev Share	3 Mo	YTD	1 Yr	Category Rank	%-ile	3 Yr	Category Rank	%-ile	5 Yr	Category Rank	%-ile	10 Yr	Category Rank	%-ile	SI	Incep Date
STABLE VALUE / GUARANTEED																								
Stable Value																								
TIAA Stable Value****	Current crediting rate = 2.20								0.54	1.08	2.15			2.03			1.97						1.94	3/31/2012
FIXED INCOME																								
Intermediate Core Bond																								
Vanguard Total Bond Market Index I	VBTIX	US Fund Intermediate Core Bond	6.42	229,333	0.04	0.04	5	0.00	3.08	6.12	7.87	87	25	2.23	140	43	2.90	66	25	3.84	113	51	5.12	9/18/1995
BBgBarc US Agg Float Adj TR USD									*3.15*	*6.25*	*7.97*			*2.32*			*2.96*			*3.93*				
Intermediate Core Bond Median						*0.57*			*2.97*	*6.01*	*7.45*			*2.14*			*2.60*			*3.96*				
Intermediate Core Bond Number of Funds						*397*					*393*			*369*			*353*			*320*				
Inflation-Protected Bond																								
PIMCO Real Return Instl	PRRIX	US Fund Inflation-Protected Bond	11.58	9,429	0.88	0.88	64	0.00	2.70	6.33	4.50	59	37	2.36	35	18	1.44	39	34	3.96	4	5	5.70	1/29/1997
BBgBarc US Treasury US TIPS TR USD									*2.86*	*6.15*	*4.84*			*2.08*			*1.76*			*3.64*				
Inflation-Protected Bond Median						*0.67*			*2.50*	*5.71*	*4.08*			*1.82*			*1.14*			*3.08*				
Inflation-Protected Bond Number of Funds						*215*					*215*			*207*			*203*			*143*				
EQUITY																								
Large Cap Blend																								
Vanguard Institutional Index I	VINIX	US Fund Large Blend	18.58	228,885	0.04	0.04	2	0.00	4.30	18.54	10.39	369	27	14.15	197	18	10.68	87	12	14.68	68	10	9.87	7/31/1990
S&P 500 TR USD									*4.30*	*18.54*	*10.42*			*14.19*			*10.71*			*14.70*				
Vanguard FTSE Social Index Inv	VFTSX	US Fund Large Blend	3.58	5,942	0.18	0.18	6	0.00	4.57	18.95	11.27	278	20	15.97	27	3	11.46	31	5	15.47	19	3	4.97	5/31/2000
Spliced Social Index*****									4.59	19.02	11.37			16.14			11.66			15.72				
FTSE4Good US Select TR USD									4.59	19.02	11.37			16.14			11.66			15.72				
Russell 3000 TR USD									*4.10*	*18.71*	*8.98*			*14.02*			*10.19*			*14.67*				
Large Blend Median						*0.87*			*4.09*	*17.81*	*8.59*			*12.92*			*8.95*			*13.39*				
Large Blend Number of Funds						*1,348*					*1,311*			*1,232*			*1,167*			*1,027*				
Mid-Cap Blend																								
Vanguard Mid Cap Index Institutional	VMCIX	US Fund Mid-Cap Blend	21.17	105,461	0.04	0.04	2	0.00	4.36	21.88	7.85	61	18	12.34	75	23	8.83	23	11	15.23	8	5	9.91	5/21/1998
Spliced Mid Cap Index*									4.37	21.90	7.85			12.36			8.85			15.26				
CRSP US Mid Cap TR USD									*4.37*	*21.90*	*7.85*			*12.36*			*8.85*			*15.16*				
Mid-Cap Blend Median						*1.00*			*3.07*	*17.92*	*2.18*			*10.18*			*6.08*			*12.83*				
Mid-Cap Blend Number of Funds						*406*					*402*			*370*			*346*			*296*				
Small Blend																								
Vanguard Small Cap Index I	VSCIX	US Fund Small Blend	3.25	92,923	0.04	0.04	2	0.00	2.87	19.54	2.27	94	13	12.39	103	16	7.73	74	14	14.81	18	5	8.92	7/7/1997
Spliced Small Cap Index**									2.86	19.54	2.29			12.37			7.70			14.76				
CRSP US Small Cap TR USD									*2.86*	*19.54*	*2.29*			*12.37*			*7.70*			*15.14*				
Small Blend Median						*1.10*			*2.32*	*16.32*	*(3.74)*			*10.37*			*5.96*			*12.95*				
Small Blend Number of Funds						*712*					*708*			*682*			*616*			*512*				
Foreign Large Blend																								
Schwab International Index	SWISX	US Fund Foreign Large Blend	2.25	5,167	0.06	0.06	3	0.00	3.73	14.09	1.40	212	30	8.98	139	27	2.25	164	38	6.91	113	34	4.34	5/19/1997
MSCI EAFE NR USD									*3.68*	*14.03*	*1.08*			*9.11*			*2.25*			*6.90*				
Foreign Large Blend Median						*0.98*			*3.27*	*13.86*	*(0.10)*			*8.08*			*1.94*			*6.61*				
Foreign Large Blend Number of Funds						*712*					*686*			*645*			*576*			*497*				

State of Rhode Island
401(a) Performance Summary

TIAA

As of 06/30/2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)
									Recent Returns		Annualized Total Returns as of 6/30/2019													
Investment Name	Ticker	Morningstar Category	Mgr Tenure	AUM $M	Gross ER	Net ER	%-ile ER	Rev Share	3 Mo	YTD	1 Yr	Category Rank	%-ile	3 Yr	Category Rank	%-ile	5 Yr	Category Rank	%-ile	10 Yr	Category Rank	%-ile	SI	Incep Date
EQUITY																								
Diversified Emerging Mkts																								
Vanguard Emerging Mkts Stock Idx Adm	VEMAX	US Fund Diversified Emerging Mkts	10.92	87,848	0.14	0.14	1	0.00	0.93	12.36	3.45	261	29	9.33	354	49	2.31	247	41	5.57	131	52	5.36	6/23/2006
Spliced Emerging Markets Index****									0.84	12.18	3.01			9.42			2.24			5.62				
MSCI EM NR USD									*0.61*	*10.58*	*1.21*			*10.66*			*2.49*			*5.81*				
FTSE Emerging NR USD									1.21	11.74	4.02			10.28			2.87			6.00				
FTSE EMs AC China A Inclusion (US RIC) NR USD									0.84	12.19	3.01			9.40			2.70			5.99				
Diversified Emerging Mkts Median						*1.27*			*1.68*	*12.57*	*0.89*			*9.37*			*2.13*			*5.86*				
Diversified Emerging Mkts Number of Funds						*816*					*786*			*731*			*630*			*342*				
ALLOCATION																								
Target-Date																								
Vanguard Target Retire Inc Trust I		US SA Target-Date Retirement			0.07	0.07			2.96	8.70	6.62		25	5.29		32	4.24		19	6.44		30	5.11	6/22/2007
Vanguard Target Retirement Income Composite									3.04	8.81	6.69			5.42			4.35			6.50				
Target-Date Retirement Median						*0.68*			*2.83*	*8.81*	*5.85*			*4.92*			*3.50*			*6.09*				
Target-Date Retirement Number of Funds						*197*					*188*			*175*			*149*			*124*				
Vanguard Target Retire 2015 Trust I		US SA Target-Date 2015			0.07	0.07			3.05	9.75	6.50		36	6.70		42	4.97		21	8.40		21	5.13	6/28/2007
Vanguard Target Retirement 2015 Composite									*3.14*	*9.88*	*6.65*			*6.86*			*5.08*			*8.46*				
Target-Date 2015 Median						*0.65*			*2.92*	*10.01*	*5.83*			*6.47*			*4.51*			*8.15*				
Target-Date 2015 Number of Funds						*146*					*137*			*118*			*94*			*78*				
Vanguard Target Retire 2020 Trust I		US SA Target-Date 2020			0.07	0.07			3.23	11.35	6.59		28	7.89		18	5.64		1	9.24		8	5.42	6/22/2007
Vanguard Target Retirement 2020 Composite									*3.31*	*11.45*	*6.71*			*8.05*			*5.75*			*9.38*				
Target-Date 2020 Median						*0.70*			*3.06*	*10.62*	*5.89*			*6.90*			*4.64*			*8.29*				
Target-Date 2020 Number of Funds						*257*					*248*			*225*			*191*			*141*				
Vanguard Target Retire 2025 Trust I		US SA Target-Date 2025			0.07	0.07			3.39	12.53	6.70		24	8.77		20	6.04		2	9.87		11	5.49	6/28/2007
Vanguard Target Retirement 2025 Composite									*3.45*	*12.62*	*6.79*			*8.94*			*6.15*			*10.02*				
Target-Date 2025 Median						*0.68*			*3.16*	*11.92*	*5.99*			*7.88*			*5.12*			*9.23*				
Target-Date 2025 Number of Funds						*241*					*232*			*204*			*177*			*113*				
Vanguard Target Retire 2030 Trust I		US SA Target-Date 2030			0.07	0.07			3.42	13.30	6.53		24	9.48		29	6.32		12	10.44		14	5.55	6/28/2007
Vanguard Target Retirement 2030 Composite									*3.48*	*13.40*	*6.60*			*9.65*			*6.44*			*10.59*				
Target-Date 2030 Median						*0.71*			*3.22*	*13.07*	*5.78*			*8.71*			*5.54*			*9.67*				
Target-Date 2030 Number of Funds						*246*					*237*			*215*			*181*			*131*				
Vanguard Target Retire 2035 Trust I		US SA Target-Date 2035							3.45	14.09	6.32		27	10.18		29	6.59		16	10.98		9	5.73	6/28/2007
Vanguard Target Retirement 2035 Composite					0.07	0.07			*3.52*	*14.18*	*6.40*			*10.31*			*6.71*			*11.13*				
Target-Date 2035 Median						*0.69*			*3.28*	*14.03*	*5.60*			*9.58*			*5.86*			*10.19*				
Target-Date 2035 Number of Funds						*236*					*227*			*199*			*172*			*108*				
Vanguard Target Retire 2040 Trust I		US SA Target-Date 2040			0.07	0.07			3.48	14.85	6.09		27	10.88		21	6.83		18	11.27		11	5.99	6/28/2007
Vanguard Target Retirement 2040 Composite									*3.55*	*14.97*	*6.19*			*11.08*			*6.98*			*11.44*				
Target-Date 2040 Median						*0.74*			*3.28*	*14.75*	*5.42*			*10.00*			*6.11*			*10.42*				
Target-Date 2040 Number of Funds						*246*					*237*			*215*			*181*			*131*				

State of Rhode Island
401(a) Performance Summary

TIAA

As of 06/30/2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)
									Recent Returns		Annualized Total Returns as of 6/30/2019													
Investment Name	Ticker	Morningstar Category	Mgr Tenure	AUM $M	Gross ER	Net ER	%-ile ER	Rev Share	3 Mo	YTD	1 Yr	Category Rank	%-ile	3 Yr	Category Rank	%-ile	5 Yr	Category Rank	%-ile	10 Yr	Category Rank	%-ile	SI	Incep Date
ALLOCATION																								
Target-Date																								
Vanguard Target Retire 2045 Trust I		US SA Target-Date 2045			0.07	0.07			3.51	15.44	5.94		31	11.11		21	6.94		13	11.34		13	6.01	6/28/2007
Vanguard Target Retirement 2045 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*			*11.51*				
Target-Date 2045 Median						*0.71*			*3.35*	*15.28*	*5.41*			*10.36*			*6.21*			*10.63*				
Target-Date 2045 Number of Funds						*236*					*227*			*199*			*172*			*107*				
Vanguard Target Retire 2050 Trust I		US SA Target-Date 2050			0.07	0.07			3.49	15.41	5.94		32	11.11		27	6.93		20	11.34		10	6.06	6/28/2007
Vanguard Target Retirement 2050 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*			*11.51*				
Target-Date 2050 Median						*0.74*			*3.34*	*15.39*	*5.36*			*10.34*			*6.28*			*10.67*				
Target-Date 2050 Number of Funds						*246*					*237*			*215*			*181*			*106*				
Vanguard Target Retire 2055 Trust I		US SA Target-Date 2055			0.07	0.07			3.50	15.44	5.96		29	11.12		32	6.91		21				9.78	10/5/2010
Vanguard Target Retirement 2055 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*							
Target-Date 2055 Median						*0.72*			*3.36*	*15.49*	*5.35*			*10.62*			*6.34*							
Target-Date 2055 Number of Funds						*236*					*227*			*196*			*164*							
Vanguard Target Retire 2060 Trust I		US SA Target-Date 2060+			0.07	0.07			3.54	15.44	5.96		30	11.13		36	6.92		42				9.52	3/1/2012
Vanguard Target Retirement 2060 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*							
Target-Date 2060+ Median						*0.71*			*3.41*	*15.74*	*5.45*			*10.88*			*6.65*							
Target-Date 2060+ Number of Funds						*262*					*214*			*131*			*16*							
Vanguard Target Retire 2065 Trust I		US SA Target-Date 2060+			0.07	0.07			3.50	15.46	6.06		26										9.66	7/21/2017
Vanguard Target Retirement 2060 Composite									*3.57*	*15.56*	*6.06*													
Target-Date 2060+ Median						*0.71*			*3.41*	*15.74*	*5.45*													
Target-Date 2060+ Number of Funds						*262*					*214*													

Source: Morningstar & TIAA

Data as of 6/30/2019

Since Incep. = Since Inception Date

%-ile –> Percentile Ranking in Morningstar Category.

Vanguard Index Information available at http://www.vanguard.com

*** = S&P MidCap 400 Index through May 16, 2003; the MSCI US Mid Cap 450 Index through January 30, 2013; and the CRSP US Mid Cap Index thereafter**

**** = Russell 2000 Index through May 16, 2003; the MSCI US Small Cap 1750 Index through January 30, 2013; and the CRSP US Small Cap Index thereafter**

***** = Spliced Emerging Markets Index reflects performance of the Select Emerging Markets Index through August 23, 2006; the MSCI Emerging Markets Index through January 9, 2013; FTSE Emerging Transition Index through June 27, 2013; FTSE Emerging Index through November 1, 2015; FTSE Emerging Markets All Cap China A Transition Index through September 18, 2016; and FTSE Emerging Markets All Cap China A Inclusion Index thereafter.**

****** = The TIAA Stable Value Inception Date represents the date that the plan's TIAA Stable Value record was initiated on TIAA's recordkeeping system which may be earlier than the date of first deposit to the contract.**

"Since Inception" performance is calculated from this date.

For definitions please visit www.tiaa.org/public/assetmanagement

Note: Rankings shown for returns are calculated by Morningstar. Rankings for expense ratio is calculated by TIAA and may differ based on calculation methods

Accumulations in mutual funds not managed by TIAA may be subject to administrative charges. These charges are subject to change. Please review current documents related to your plan.

******* Calvert Social Index through December 16, 2005; FTSE4Good US Select Index thereafter**

The expense ratio paid by an investor is the net expense ratio as stated in the prospectus. The net expense ratio reflects total annual fund operating expenses excluding interest expense. If interest expense was included, returns would have been lower.

You cannot invest directly in an index.

Disclosures

TIAA

As of 06/30/2019

Investing in non-investment grade securities presents special risks, including significantly higher interest-rate and credit risk.

Small-cap and mid-cap stocks may have limited marketability and may be subject to more abrupt or erratic market movements than large-cap stocks.

The risks associated with foreign investments are often magnified in emerging markets where there is greater potential for political, currency, and economic volatility.

Funds that invest in fixed-income securities are not guaranteed and are subject to interest-rate, inflation and credit risks.

Funds that invest in foreign securities are subject to special risks, including currency fluctuation and political and economic instability.

Real estate securities are subject to various risks, including fluctuations in property values, higher expenses or lower income than expected, and potential environmental problems and liability.

Any guarantees under annuities issued by TIAA are subject to TIAA's claims-paying ability. TIAA Stable Value is a guaranteed insurance contract and not an investment for Federal Securities Law purposes.

Target Date Funds share the risks associated with the types of securities held by each of the underlying funds in which they invest. In addition to the fees and expenses associated with the Target Date Funds, there is exposure to the fees and expenses associated with the underlying mutual funds as well.

Investment, insurance and annuity products are not FDIC insured, are not bank guaranteed, are not deposits, are not insured by any federal government agency, are not a condition to any banking service or activity, and may lose value.

Morningstar Ranking/Number of Funds in Category displays the Fund's actual rank within its Morningstar Category based on average annual total return and number of funds in that Category. The returns assume reinvestment of dividends and do not reflect any applicable sales charge. Absent expense limitation, total return would be less. Morningstar Percentile Rankings are the Fund's total return rank relative to all funds in the same Morningstar category, where 1 is the highest percentile and 100 is the lowest percentile.

Disclosures

TIAA

As of 06/30/2019

Prospectus Gross Expense Ratio
The percentage of fund assets used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred by the fund, except brokerage costs. Fund expenses are reflected in the fund's NAV. Sales charges are not included in the expense ratio.
--The expense ratio for fund of funds is the aggregate expense ratio as defined as the sum of the wrap or sponsor fees plus the estimated weighted average of the underlying fund fees.
--Often referred to as the Annual Operating Expense, the Prospectus Gross Expense Ratio is collected annually from a fund's prospectus.

Prospectus Net Expense Ratio
The percentage of fund assets, net of reimbursements, used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred by the fund, except brokerage costs. Fund expenses are reflected in the fund's NAV. Sales charges are not included in the expense ratio.
--The expense ratio for fund of funds is the aggregate expense ratio as defined as the sum of the wrap or sponsor fees plus the estimated weighted average of the underlying fund fees.
--Net reimbursements, the Prospectus Net Expense Ratio is collected annually from a fund's prospectus.
--TIAA, unless noted, does not charge additional fees for record keeping a fund. 12b-1, revenue share and admin fees are all included in the Prospectus fees. --Prospectus Net Expense Ratio % - ile rank is the percentile rank for the fund. The better the expense ratio (lower) the lower the ranking out of 100.

By communicating the information contained in this material, TIAA is not providing impartial investment advice or giving advice in a fiduciary capacity regarding any investment by, or other transaction of, the plan(s).TIAA is acting solely in a sales capacity with respect to an arms-length sale, purchase, loan, exchange or other transaction related to the investment of securities or other investment property.

State of Rhode Island - Plan Balance Summary

401(a)/414(h)(2)
State of Rhode Island Defined Contribution Retirement Plan

TIAA

As of 06/30/2019

Ticker	Investment Name	Asset Class Description	Total
PRRIX	PIMCO Real Return Inst Class	Fixed Income	$6,790,258.76
SWISX	Schwab International Index Fd	Equities	$7,859,921.19
TSVX#	TIAA STABLE VALUE	Guaranteed	$14,185,187.95
VBTIX	Vanguard Ttl Bd Mkt Idx Inst	Fixed Income	$7,887,480.73
VEMAX	Vanguard Emr Mkts Stk Idx Adm	Equities	$5,785,516.15
VFTSX	Vanguard FTSE Social Index Inv	Equities	$3,613,108.34
VINIX	Vanguard Inst Idx Inst	Equities	$32,178,789.14
VMCIX	Vanguard Mid-Cap Idx Inst	Equities	$12,426,795.67
VSCIX	Vanguard Small-Cap Idx Inst	Equities	$12,917,262.20
VT15#	Vanguard Tgt Rtmt 2015 Tr I	Multi-Asset	$41,122,709.67
VT20#	Vanguard Tgt Rtmt 2020 Tr I	Multi-Asset	$105,422,241.38
VT25#	Vanguard Tgt Rtmt 2025 Tr I	Multi-Asset	$134,874,633.53
VT30#	Vanguard Tgt Rtmt 2030 Tr I	Multi-Asset	$145,084,927.76
VT35#	Vanguard Tgt Rtmt 2035 Tr I	Multi-Asset	$161,256,979.21
VT40#	Vanguard Tgt Rtmt 2040 Tr I	Multi-Asset	$130,230,357.17
VT45#	Vanguard Tgt Rtmt 2045 Tr I	Multi-Asset	$98,851,620.58
VT50#	Vanguard Tgt Rtmt 2050 Tr I	Multi-Asset	$59,400,340.57
VT55#	Vanguard Tgt Rtmt 2055 Tr I	Multi-Asset	$25,126,778.73
VT60#	Vanguard Tgt Rtmt 2060 Tr I	Multi-Asset	$4,495,681.26
VT65#	Vanguard Target Rtmt 2065 Tr I	Multi-Asset	$275,368.69
VTIN#	Vanguard Tgt Rtmt Income Tr I	Multi-Asset	$11,179,881.60
405868 STATE OF RHODE ISLAND DEFINED CONTRIBUTION RETIREMENT PLAN TOTAL:			**$1,020,965,840.28**

State of Rhode Island - Plan Balance Summary

401(a)

Rhode Island FICA 406403 Alternative Retirement Income Security Program

TIAA

As of 06/30/2019

Ticker	*Investment Name*	*Asset Class Description*	*Total*
TSVX#	TIAA STABLE VALUE	Guaranteed	$3,158.13
VT15#	Vanguard Tgt Rtmt 2015 Tr I	Multi-Asset	$13,982.00
VT20#	Vanguard Tgt Rtmt 2020 Tr I	Multi-Asset	$1,416,139.31
VT25#	Vanguard Tgt Rtmt 2025 Tr I	Multi-Asset	$174,808.74
VT30#	Vanguard Tgt Rtmt 2030 Tr I	Multi-Asset	$177,827.25
VT35#	Vanguard Tgt Rtmt 2035 Tr I	Multi-Asset	$102,684.74
VT40#	Vanguard Tgt Rtmt 2040 Tr I	Multi-Asset	$85,267.44
VT45#	Vanguard Tgt Rtmt 2045 Tr I	Multi-Asset	$114,218.58
VT50#	Vanguard Tgt Rtmt 2050 Tr I	Multi-Asset	$119,566.02
VT55#	Vanguard Tgt Rtmt 2055 Tr I	Multi-Asset	$232,085.96
VT60#	Vanguard Tgt Rtmt 2060 Tr I	Multi-Asset	$598,426.27
VT65#	Vanguard Target Rtmt 2065 Tr I	Multi-Asset	$107,670.81
VTIN#	Vanguard Tgt Rtmt Income Tr I	Multi-Asset	$12,833.33
406403 RHODE ISLAND FICA ALTERNATIVE RET INCOME SECURITY PROGRAM Total			**$3,158,668.58**

Disclosures

TIAA is providing educational services concerning plan menu construction and the plan sponsor's fiduciary duties under its plan. It is not providing investment advice and is not a plan fiduciary with respect to the education and information presented herein. Note also that TIAA cannot and does not provide legal advice and that we recommend that you seek such advice from your own legal advisors.

TIAA reported performance may differ from Morningstar source returns for the same option over the same time period. We would expect an occasional one to two basis point difference. Morningstar Direct calculates returns by one share owned by hypothetical investor over the requested time period. The return for one year is calculated using the same formula as one month. TIAA calculates returns by $1,000 owned by hypothetical investor for one month then links returns for requested time period. Both set of returns would include dividends and capital gains, if applicable.

Investment products may be subject to market and other risk factors. See the applicable product literature or visit tiaa.org for details. You should consider the investment objectives, risks, charges and expenses carefully before investing. Please call 877-518-9161 or go to www.TIAA.org/prospectuses for current product and fund prospectuses that contain this and other information. Please read the prospectuses carefully before investing.

TIAA-CREF Individual & Institutional Services, LLC, Teachers Personal Investors Services, Inc., and Nuveen Securities, LLC, Members FINRA and SIPC, distribute securities products. Annuity contracts and certificates are issued by Teachers Insurance and Annuity Association (TIAA) of America and College Retirement Equities Fund (CREF), New York, NY. Each is solely responsible for its own financial condition and contractual obligations.

tiaa.org

© 2019 Teachers Insurance and Annuity Association of America-College Retirement Equities Fund, 730 Third Avenue, New York, NY 10017

904517

Section XV.

457 Plans

State of Rhode Island Total Assets 457 Plans

Plan Provider	9/30/2018	12/31/2018	3/31/2019	6/30/2019
Valic	$ 9,057,863.05	$ 6,619,287.24	$ 6,382,504.56	$ 6,375,023.87
Fidelity	$ 157,548,610.58	$ 139,484,527.38	$ 156,165,154.02	$ 158,731,186.55
ING/Voya	$ 179,625,992.32	$ 173,046,856.22	$ 185,571,135.05	$ 191,880,720.19
TIAA	$ 27,381,104.70	$ 27,046,360.35	$ 30,496,977.83	$ 32,245,985.04
Total	$ 373,613,570.65	$ 346,197,031.19	$ 378,615,771.46	$ 389,232,915.65

State of Rhode Island
457(b) Performance Summary

TIAA

As of 06/30/2019

The performance data quoted represents past performance and is no guarantee of future results. Your returns and the principal value of your investments will fluctuate so that your shares or accumulation units, when redeemed, may be worth more or less than their original cost. Current performance may be lower or higher than the performance quoted below. For performance current to the most recent month-end, visit the TIAA Website at www.tiaa.org, or call 877 518-9161.

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)
									Recent Returns		Annualized Total Returns as of 6/30/2019													
Investment Name	Ticker	Morningstar Category	Mgr Tenure	AUM $M	Gross ER	Net ER	%-ile ER	Rev Share	3 Mo	YTD	1 Yr	Category Rank	%-ile	3 Yr	Category Rank	%-ile	5 Yr	Category Rank	%-ile	10 Yr	Category Rank	%-ile	SI	Incep Date
STABLE VALUE / GUARANTEED																								
Guaranteed																								
TIAA Traditional RCP	Current crediting rate = 3.00								0.80	1.62	3.34			3.38			3.45			3.47			3.69	6/1/2006
FIXED INCOME																								
Intermediate Core Bond																								
Vanguard Total Bond Market Index I	VBTIX	US Fund Intermediate Core Bond	6.42	229,333	0.04	0.04	5	0.00	3.08	6.12	7.87	87	25	2.23	140	43	2.90	66	25	3.84	113	51	5.12	9/18/1995
BBgBarc US Agg Float Adj TR USD									*3.15*	*6.25*	*7.97*			*2.32*			*2.96*			*3.93*				
Intermediate Core Bond Median						*0.57*			*2.97*	*6.01*	*7.45*			*2.14*			*2.60*			*3.96*				
Intermediate Core Bond Number of Funds						*397*					*393*			*369*			*353*			*320*				
Intermediate Core-Plus Bond																								
PIMCO Total Return Instl	PTTRX	US Fund Intermediate Core-Plus Bond	4.83	66,013	0.55	0.55	35	0.00	3.21	6.08	7.64	282	46	3.18	178	34	3.02	173	42	4.69	179	55	7.16	5/11/1987
BBgBarc US Agg Bond TR USD									*3.08*	*6.11*	*7.87*			*2.31*			*2.95*			*3.90*				
Intermediate Core-Plus Bond Median						*0.70*			*3.04*	*6.63*	*7.53*			*2.93*			*2.90*			*4.87*				
Intermediate Core-Plus Bond Number of Funds						*629*					*616*			*580*			*532*			*474*				
Inflation-Protected Bond																								
American Century Inflation-Adjs Bond R6	AIADX	US Fund Inflation-Protected Bond	17.67	2,544	0.22	0.22	10	0.00	2.79	6.24	4.29	84	50	1.86		52	1.34		38	3.21		53	2.87	7/28/2017
BBgBarc US Treasury US TIPS TR USD									*2.86*	*6.15*	*4.84*			*2.08*			*1.76*			*3.64*				
Inflation-Protected Bond Median						*0.67*			*2.50*	*5.71*	*4.08*			*1.82*			*1.14*			*3.08*				
Inflation-Protected Bond Number of Funds						*215*	*215*				*215*			*207*			*203*			*143*				
EQUITY																								
Large Cap Blend																								
Vanguard Institutional Index I	VINIX	US Fund Large Blend	18.58	228,885	0.04	0.04	2	0.00	4.30	18.54	10.39	369	27	14.15	197	18	10.68	87	12	14.68	68	10	9.87	7/31/1990
S&P 500 TR USD									*4.30*	*18.54*	*10.42*			*14.19*			*10.71*			*14.70*				
Vanguard FTSE Social Index Inv	VFTSX	US Fund Large Blend	3.58	5,942	0.18	0.18	6	0.00	4.57	18.95	11.27	278	20	15.97	27	3	11.46	31	5	15.47	19	3	4.97	5/31/2000
Spliced Social Index									4.59	19.02	11.37			16.14			11.66			15.72				
FTSE4Good US Select TR USD									4.59	19.02	11.37			16.14			11.66			15.72				
Russell 3000 TR USD									*4.10*	*18.71*	*8.98*			*14.02*			*10.19*			*14.67*				
Large Blend Median						*0.87*			*4.09*	*17.81*	*8.59*			*12.92*			*8.95*			*13.39*				
Large Blend Number of Funds						*1,348*					*1,311*			*1,232*			*1,167*			*1,027*				
Mid-Cap Blend																								
Vanguard Mid Cap Index Institutional	VMCIX	US Fund Mid-Cap Blend	21.17	105,461	0.04	0.04	2	0.00	4.36	21.88	7.85	61	18	12.34	75	23	8.83	23	11	15.23	8	5	9.91	5/21/1998
Spliced Mid Cap Index									4.37	21.90	7.85			12.36			8.85			15.26				
CRSP US Mid Cap TR USD									*4.37*	*21.90*	*7.85*			*12.36*			*8.85*			*15.16*				
Mid-Cap Blend Median						*1.00*			*3.07*	*17.92*	*2.18*			*10.18*			*6.08*			*12.83*				
Mid-Cap Blend Number of Funds						*406*					*402*			*370*			*346*			*296*				
Small Blend																								
Vanguard Small Cap Index I	VSCIX	US Fund Small Blend	3.25	92,923	0.04	0.04	2	0.00	2.87	19.54	2.27	94	13	12.39	103	16	7.73	74	14	14.81	18	5	8.92	7/7/1997
Spliced Small Cap Index									2.86	19.54	2.29			12.37			7.70			14.76				
CRSP US Small Cap TR USD									*2.86*	*19.54*	*2.29*			*12.37*			*7.70*			*15.14*				
Small Blend Median						*1.10*			*2.32*	*16.32*	*(3.74)*			*10.37*			*5.96*			*12.95*				
Small Blend Number of Funds						*712*					*708*			*682*			*616*			*512*				

State of Rhode Island
457(b) Performance Summary

TIAA

As of 06/30/2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)
									Recent Returns		Annualized Total Returns as of 6/30/2019													
Investment Name	Ticker	Morningstar Category	Mgr Tenure	AUM $M	Gross ER	Net ER	%-ile ER	Rev Share	3 Mo	YTD	1 Yr	Category Rank	%-ile	3 Yr	Category Rank	%-ile	5 Yr	Category Rank	%-ile	10 Yr	Category Rank	%-ile	SI	Incep Date
EQUITY																								
Foreign Large Blend																								
Schwab International Index	SWISX	US Fund Foreign Large Blend	2.25	5,167	0.06	0.06	3	0.00	3.73	14.09	1.40	212	30	8.98	139	27	2.25	164	38	6.91	113	34	4.34	5/19/1997
MSCI EAFE NR USD									*3.68*	*14.03*	*1.08*			*9.11*			*2.25*			*6.90*				
Foreign Large Blend Median						*0.98*			*3.27*	*13.86*	*(0.10)*			*8.08*			*1.94*			*6.61*				
Foreign Large Blend Number of Funds						*712*					*686*			*645*			*576*			*497*				
Foreign Large Growth																								
American Funds Europacific Growth R6	RERGX	US Fund Foreign Large Growth	27.58	161,660	0.49	0.49	4	0.00	3.87	17.59	1.91	211	51	10.84	103	27	4.45	111	36	8.15	111	48	9.05	5/1/2009
MSCI ACWI Ex USA NR USD									*2.98*	*13.60*	*1.29*			*9.39*			*2.16*			*6.54*				
Foreign Large Growth Median						*1.05*			*4.63*	*18.15*	*1.37*			*9.58*			*3.74*			*8.06*				
Foreign Large Growth Number of Funds						*484*					*468*			*442*			*406*			*338*				
ALLOCATION																								
Target-Date																								
Vanguard Target Retire Inc Trust I		US SA Target-Date Retirement			0.07	0.07			2.96	8.70	6.62		25	5.29		32	4.24		19	6.44		30	5.11	6/22/2007
Vanguard Target Retirement Income Composite									3.04	8.81	6.69			5.42			4.35			6.50				
Target-Date Retirement Median						*0.68*			*2.83*	*8.81*	*5.85*			*4.92*			*3.50*			*6.09*				
Target-Date Retirement Number of Funds						*197*					*188*			*175*			*149*			*124*				
Vanguard Target Retire 2015 Trust I		US SA Target-Date 2015			0.07	0.07			3.05	9.75	6.50		36	6.70		42	4.97		21	8.40		21	5.13	6/28/2007
Vanguard Target Retirement 2015 Composite									*3.14*	*9.88*	*6.65*			*6.86*			*5.08*			*8.46*				
Target-Date 2015 Median						*0.65*			*2.92*	*10.01*	*5.83*			*6.47*			*4.51*			*8.15*				
Target-Date 2015 Number of Funds						*146*					*137*			*118*			*94*			*78*				
Vanguard Target Retire 2020 Trust I		US SA Target-Date 2020			0.07	0.07			3.23	11.35	6.59		28	7.89		18	5.64		1	9.24		8	5.42	6/22/2007
Vanguard Target Retirement 2020 Composite									*3.31*	*11.45*	*6.71*			*8.05*			*5.75*			*9.38*				
Target-Date 2020 Median						*0.70*			*3.06*	*10.62*	*5.89*			*6.90*			*4.64*			*8.29*				
Target-Date 2020 Number of Funds						*257*					*248*			*225*			*191*			*141*				
Vanguard Target Retire 2025 Trust I		US SA Target-Date 2025			0.07	0.07			3.39	12.53	6.70		24	8.77		20	6.04		2	9.87		11	5.49	6/28/2007
Vanguard Target Retirement 2025 Composite									*3.45*	*12.62*	*6.79*			*8.94*			*6.15*			*10.02*				
Target-Date 2025 Median						*0.68*			*3.16*	*11.92*	*5.99*			*7.88*			*5.12*			*9.23*				
Target-Date 2025 Number of Funds						*241*					*232*			*204*			*177*			*113*				
Vanguard Target Retire 2030 Trust I		US SA Target-Date 2030			0.07	0.07			3.42	13.30	6.53		24	9.48		29	6.32		12	10.44		14	5.55	6/28/2007
Vanguard Target Retirement 2030 Composite									*3.48*	*13.40*	*6.60*			*9.65*			*6.44*			*10.59*				
Target-Date 2030 Median						*0.71*			*3.22*	*13.07*	*5.78*			*8.71*			*5.54*			*9.67*				
Target-Date 2030 Number of Funds						*246*					*237*			*215*			*181*			*131*				
Vanguard Target Retire 2035 Trust I		US SA Target-Date 2035							3.45	14.09	6.32		27	10.18		29	6.59		16	10.98		9	5.73	6/28/2007
Vanguard Target Retirement 2035 Composite					0.07	0.07			*3.52*	*14.18*	*6.40*			*10.31*			*6.71*			*11.13*				
Target-Date 2035 Median						*0.69*			*3.28*	*14.03*	*5.60*			*9.58*			*5.86*			*10.19*				
Target-Date 2035 Number of Funds						*236*					*227*			*199*			*172*			*108*				

State of Rhode Island
457(b) Performance Summary

As of 06/30/2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)
									Recent Returns		Annualized Total Returns as of 6/30/2019													
Investment Name	Ticker	Morningstar Category	Mgr Tenure	AUM $M	Gross ER	Net ER	%-ile ER	Rev Share	3 Mo	YTD	1 Yr	Category Rank	%-ile	3 Yr	Category Rank	%-ile	5 Yr	Category Rank	%-ile	10 Yr	Category Rank	%-ile	SI	Incep Date
ALLOCATION																								
Target-Date																								
Vanguard Target Retire 2040 Trust I		US SA Target-Date 2040			0.07	0.07			3.48	14.85	6.09		27	10.88		21	6.83		18	11.27		11	5.99	6/28/2007
Vanguard Target Retirement 2040 Composite									*3.55*	*14.97*	*6.19*			*11.08*			*6.98*			*11.44*				
Target-Date 2040 Median						*0.74*			*3.28*	*14.75*	*5.42*			*10.00*			*6.11*			*10.42*				
Target-Date 2040 Number of Funds						*246*					*237*			*215*			*181*			*131*				
Vanguard Target Retire 2045 Trust I		US SA Target-Date 2045			0.07	0.07			3.51	15.44	5.94		31	11.11		21	6.94		13	11.34		13	6.01	6/28/2007
Vanguard Target Retirement 2045 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*			*11.51*				
Target-Date 2045 Median						*0.71*			*3.35*	*15.28*	*5.41*			*10.36*			*6.21*			*10.63*				
Target-Date 2045 Number of Funds						*236*					*227*			*199*			*172*			*107*				
Vanguard Target Retire 2050 Trust I		US SA Target-Date 2050			0.07	0.07			3.49	15.41	5.94		32	11.11		27	6.93		20	11.34		10	6.06	6/28/2007
Vanguard Target Retirement 2050 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*			*11.51*				
Target-Date 2050 Median						*0.74*			*3.34*	*15.39*	*5.36*			*10.34*			*6.28*			*10.67*				
Target-Date 2050 Number of Funds						*246*					*237*			*215*			*181*			*106*				
Vanguard Target Retire 2055 Trust I		US SA Target-Date 2055			0.07	0.07			3.50	15.44	5.96		29	11.12		32	6.91		21				9.78	10/5/2010
Vanguard Target Retirement 2055 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*							
Target-Date 2055 Median						*0.72*			*3.36*	*15.49*	*5.35*			*10.62*			*6.34*							
Target-Date 2055 Number of Funds						*236*					*227*			*196*			*164*							
Vanguard Target Retire 2060 Trust I		US SA Target-Date 2060+			0.07	0.07			3.54	15.44	5.96		30	11.13		36	6.92		42				9.52	3/1/2012
Vanguard Target Retirement 2060 Composite									*3.57*	*15.56*	*6.06*			*11.33*			*7.12*							
Target-Date 2060+ Median						*0.71*			*3.41*	*15.74*	*5.45*			*10.88*			*6.65*							
Target-Date 2060+ Number of Funds						*262*					*214*			*131*			*16*							
Vanguard Target Retire 2065 Trust I		US SA Target-Date 2060+			0.07	0.07			3.50	15.46	6.06		26										9.66	7/21/2017
Vanguard Target Retirement 2060 Composite									*3.57*	*15.56*	*6.06*													
Target-Date 2060+ Median						*0.71*			*3.41*	*15.74*	*5.45*													
Target-Date 2060+ Number of Funds						*262*					*214*													

Source: Morningstar & TIAA

Since Incep. = Since Inception Date

%-ile --> Percentile Ranking in Morningstar Category.

Vanguard Index Information available at http://www.vanguard.com

Data as of 6/30/2019

"Since Inception" performance is calculated from this date.

For definitions please visit www.tiaa.org/public/assetmanagement

Note: Rankings shown for returns are calculated by Morningstar. Rankings for expense ratio is calculated by TIAA and may differ based on calculation methods

*** = S&P MidCap 400 Index through May 16, 2003; the MSCI US Mid Cap 450 Index through January 30, 2013; and the CRSP US Mid Cap Index thereafter**

**** = Russell 2000 Index through May 16, 2003; the MSCI US Small Cap 1750 Index through January 30, 2013; and the CRSP US Small Cap Index thereafter**

Accumulations in mutual funds not managed by TIAA may be subject to administrative charges. These charges are subject to change. Please review current documents related to your plan.

***** = Calvert Social Index through December 16, 2005; FTSE4Good US Select Index thereafter**

The expense ratio paid by an investor is the net expense ratio as stated in the prospectus. The net expense ratio reflects total annual fund operating expenses excluding interest expense. If interest expense was included, returns would have been lower.

You cannot invest directly in an index.

Disclosures

As of 06/30/2019

Investing in non-investment grade securities presents special risks, including significantly higher interest-rate and credit risk.

Small-cap and mid-cap stocks may have limited marketability and may be subject to more abrupt or erratic market movements than large-cap stocks.

The risks associated with foreign investments are often magnified in emerging markets where there is greater potential for political, currency, and economic volatility.

Funds that invest in fixed-income securities are not guaranteed and are subject to interest-rate, inflation and credit risks.

Funds that invest in foreign securities are subject to special risks, including currency fluctuation and political and economic instability.

Real estate securities are subject to various risks, including fluctuations in property values, higher expenses or lower income than expected, and potential environmental problems and liability.

Any guarantees under annuities issued by TIAA are subject to TIAA's claims-paying ability. TIAA Traditional is a guaranteed insurance contract and not an investment for Federal Securities Law purposes.

Target Date Funds share the risks associated with the types of securities held by each of the underlying funds in which they invest. In addition to the fees and expenses associated with the Target Date Funds, there is exposure to the fees and expenses associated with the underlying mutual funds as well.

Investment, insurance and annuity products are not FDIC insured, are not bank guaranteed, are not deposits, are not insured by any federal government agency, are not a condition to any banking service or activity, and may lose value.

Morningstar Ranking/Number of Funds in Category displays the Fund's actual rank within its Morningstar Category based on average annual total return and number of funds in that Category. The returns assume reinvestment of dividends and do not reflect any applicable sales charge. Absent expense limitation, total return would be less. Morningstar Percentile Rankings are the Fund's total return rank relative to all funds in the same Morningstar category, where 1 is the highest percentile and 100 is the lowest percentile.

Disclosures

As of 06/30/2019

Prospectus Gross Expense Ratio
The percentage of fund assets used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred by the fund, except brokerage costs. Fund expenses are reflected in the fund's NAV. Sales charges are not included in the expense ratio.
--The expense ratio for fund of funds is the aggregate expense ratio as defined as the sum of the wrap or sponsor fees plus the estimated weighted average of the underlying fund fees.
--Often referred to as the Annual Operating Expense, the Prospectus Gross Expense Ratio is collected annually from a fund's prospectus.

Prospectus Net Expense Ratio
The percentage of fund assets, net of reimbursements, used to pay for operating expenses and management fees, including 12b-1 fees, administrative fees, and all other asset-based costs incurred by the fund, except brokerage costs. Fund expenses are reflected in the fund's NAV. Sales charges are not included in the expense ratio.
--The expense ratio for fund of funds is the aggregate expense ratio as defined as the sum of the wrap or sponsor fees plus the estimated weighted average of the underlying fund fees.
--Net reimbursements, the Prospectus Net Expense Ratio is collected annually from a fund's prospectus.
--TIAA, unless noted, does not charge additional fees for record keeping a fund. 12b-1, revenue share and admin fees are all included in the Prospectus fees. --Prospectus Net Expense Ratio % - ile rank is the percentile rank for the fund. The better the expense ratio (lower) the lower the ranking out of 100.

By communicating the information contained in this material, TIAA is not providing impartial investment advice or giving advice in a fiduciary capacity regarding any investment by, or other transaction of, the plan(s).TIAA is acting solely in a sales capacity with respect to an arms-length sale, purchase, loan, exchange or other transaction related to the investment of securities or other investment property.

State of Rhode Island - Plan Balance Summary

457(b)

State of Rhode Island 457(b) Deferred Compensation Plan

TIAA

As of 06/30/2019

Ticker	*Investment Name*	*Asset Class Description*	*Total*
AIADX	American Century Inf Adj Bd R6	Fixed Income	$588,130.81
PTTRX	PIMCO Total Return Instl	Fixed Income	$579,088.62
RERGX	American EuroPac Growth R6	Equities	$1,681,034.30
SWISX	Schwab International Index Fd	Equities	$300,438.33
TIAA#	TIAA Traditional Benefit Responsive 2	Guaranteed	$6,649,638.15
VBTIX	Vanguard Ttl Bd Mkt Idx Inst	Fixed Income	$294,647.89
VFTSX	Vanguard FTSE Social Index Inv	Equities	$626,418.09
VINIX	Vanguard Inst Idx Inst	Equities	$10,138,040.84
VLC1#	VALIC Fixed-Interest Opt 3%	Guaranteed	$6,340,259.46
VLC2#	VALIC Fixed-Interest Opt 1.5%	Guaranteed	$34,764.41
VMCIX	Vanguard Mid-Cap Idx Inst	Equities	$5,447,990.04
VSCIX	Vanguard Small-Cap Idx Inst	Equities	$3,277,930.71
VT15#	Vanguard Tgt Rtmt 2015 Tr I	Multi-Asset	$23,119.88
VT20#	Vanguard Tgt Rtmt 2020 Tr I	Multi-Asset	$675,515.63
VT25#	Vanguard Tgt Rtmt 2025 Tr I	Multi-Asset	$566,203.99
VT30#	Vanguard Tgt Rtmt 2030 Tr I	Multi-Asset	$697,167.58
VT35#	Vanguard Tgt Rtmt 2035 Tr I	Multi-Asset	$287,282.41
VT40#	Vanguard Tgt Rtmt 2040 Tr I	Multi-Asset	$106,241.66
VT45#	Vanguard Tgt Rtmt 2045 Tr I	Multi-Asset	$102,088.46
VT50#	Vanguard Tgt Rtmt 2050 Tr I	Multi-Asset	$97,839.11
VT55#	Vanguard Tgt Rtmt 2055 Tr I	Multi-Asset	$24,709.00
VT60#	Vanguard Tgt Rtmt 2060 Tr I	Multi-Asset	$10,045.55
VT65#	Vanguard Target Rtmt 2065 Tr I	Multi-Asset	$2,328.87
VTIN#	Vanguard Tgt Rtmt Income Tr I	Multi-Asset	$70,085.12
407359 STATE OF RHODE ISLAND 457(B) DEFERRED COMPENSATION PLAN Total			**$38,621,008.91**

Disclosures

TIAA is providing educational services concerning plan menu construction and the plan sponsor's fiduciary duties under its plan. It is not providing investment advice and is not a plan fiduciary with respect to the education and information presented herein. Note also that TIAA cannot and does not provide legal advice and that we recommend that you seek such advice from your own legal advisors.

TIAA reported performance may differ from Morningstar source returns for the same option over the same time period. We would expect an occasional one to two basis point difference. Morningstar Direct calculates returns by one share owned by hypothetical investor over the requested time period. The return for one year is calculated using the same formula as one month. TIAA calculates returns by $1,000 owned by hypothetical investor for one month then links returns for requested time period. Both set of returns would include dividends and capital gains, if applicable.

Investment products may be subject to market and other risk factors. See the applicable product literature or visit tiaa.org for details. You should consider the investment objectives, risks, charges and expenses carefully before investing. Please call 877-518-9161 or go to www.TIAA.org/prospectuses for current product and fund prospectuses that contain this and other information. Please read the prospectuses carefully before investing.

TIAA-CREF Individual & Institutional Services, LLC, Teachers Personal Investors Services, Inc., and Nuveen Securities, LLC, Members FINRA and SIPC, distribute securities products. Annuity contracts and certificates are issued by Teachers Insurance and Annuity Association (TIAA) of America and College Retirement Equities Fund (CREF), New York, NY. Each is solely responsible for its own financial condition and contractual obligations.

tiaa.org

© 2019 Teachers Insurance and Annuity Association of America-College Retirement Equities Fund, 730 Third Avenue, New York, NY 10017

904539

Monthly Plan Performance Update

STATE OF RHODE ISLAND - STATE OF RI (35835)

Performance data shown represents past performance and is no guarantee of future results. Investment return and principal value will fluctuate, so you may have a gain or loss when shares are sold. Current performance may be higher or lower than that quoted. Visit your Fidelity website for the most recent month-end performance.

	Cumulative Total Returns				Average Annual Total Returns				
Name	**As of**	**1 mo**	**3 mo**	**YTD**	**As of**	**1 yr**	**3 yr**	**5 yr**	**10 yr**
DOW JONES INDUSTRIAL AVERAGE	06/30/2019	7.31	3.21	15.40	06/30/2019	12.20	16.80	12.29	15.03
BLOOMBERG BARCLAYS U.S. AGGREGATE BOND INDEX	06/30/2019	1.26	3.08	6.11	06/30/2019	7.87	2.31	2.95	3.90
NASDAQ COMPOSITE INDEX	06/30/2019	7.51	3.87	21.33	06/30/2019	7.78	19.56	13.97	17.19
RUSSELL 2000 INDEX	06/30/2019	7.07	2.10	16.98	06/30/2019	-3.31	12.30	7.06	13.45
S&P 500 INDEX	06/30/2019	7.05	4.30	18.54	06/30/2019	10.42	14.19	10.71	14.70

	Cumulative Total Returns				Average Annual Total Returns						Fees		
Investment Name	**As of**	**1 mo**	**3 mo**	**YTD**	**As of**	**1 yr**	**3 yr**	**5 yr**	**10 yr**	**Life**	**Short Term Trading**	**Expense Ratio**	**Inception Date**
Stock Investments													
Large Cap													
FID 500 INDEX	06/30/2019	7.05	4.30	18.54	06/30/2019	10.41	14.17	10.70	14.69	10.31	--	0.01% on 04/29/2019	02/17/1988
FID CONTRAFUND K	06/30/2019	6.63	5.52	20.86	06/30/2019	8.02	17.92	12.64	15.54	12.57	--	0.73% on 03/01/2019	05/17/1967
FID LARGE CAP STOCK	06/30/2019	6.93	2.72	17.11	06/30/2019	5.14	13.22	7.96	14.57	8.52	--	0.63% on 06/29/2019	06/22/1995
INVESCO DIVRS DIV R6	06/30/2019	5.67	3.43	15.49	06/30/2019	9.18	6.93	7.26	12.57	7.82	--	0.43% on 02/28/2019	12/31/2001
VANG FTSE SOCIAL IDX	06/30/2019	7.07	4.57	18.95	06/30/2019	11.27	15.97	11.46	15.47	4.97	--	0.18% on 12/03/2018	05/31/2000
Mid-Cap													
FID LOW PRICED STK K	06/30/2019	5.02	1.44	12.04	06/30/2019	-0.84	9.44	6.11	12.96	13.19	--	0.53% on 09/29/2018	12/27/1989
FID MID CAP IDX	06/30/2019	6.90	4.14	21.36	06/30/2019	7.88	12.16	8.64	--	13.61	--	0.03% on 06/29/2019	09/08/2011
Small Cap													
FID SM CAP IDX	06/30/2019	7.07	2.13	17.00	06/30/2019	-3.21	12.46	7.28	--	12.68	--	0.03% on 06/29/2019	09/08/2011
International													
FID INTL INDEX	06/30/2019	5.86	3.70	14.09	06/30/2019	1.21	9.02	2.34	7.01	4.86	--	0.04% on 05/01/2019	11/05/1997
HARBOR INTL INST	06/30/2019	5.02	2.86	12.90	06/30/2019	-6.14	4.90	-0.42	6.35	10.00	--	0.89% on 03/01/2019	12/29/1987

	Cumulative Total Returns				Average Annual Total Returns						Fees		
Investment Name	**As of**	**1 mo**	**3 mo**	**YTD**	**As of**	**1 yr**	**3 yr**	**5 yr**	**10 yr**	**Life**	**Short Term Trading**	**Expense Ratio**	**Inception Date**
Blended Investments*													
Others													
FID FREEDOM 2005 K	06/30/2019	2.24	2.65	7.97	06/30/2019	5.40	6.00	4.27	6.74	4.93	--	0.42% on 05/30/2019	11/06/2003
FID FREEDOM 2010 K	06/30/2019	2.79	2.77	9.18	06/30/2019	5.33	6.93	4.79	7.63	6.42	--	0.46% on 05/30/2019	10/17/1996
FID FREEDOM 2015 K	06/30/2019	3.25	2.88	10.20	06/30/2019	5.19	7.76	5.25	8.05	5.87	--	0.49% on 05/30/2019	11/06/2003
FID FREEDOM 2020 K	06/30/2019	3.73	2.98	11.14	06/30/2019	5.18	8.38	5.58	8.70	6.74	--	0.53% on 05/30/2019	10/17/1996
FID FREEDOM 2025 K	06/30/2019	4.06	3.10	11.93	06/30/2019	5.08	8.97	5.84	9.35	6.43	--	0.56% on 05/30/2019	11/06/2003
FID FREEDOM 2030 K	06/30/2019	4.64	3.22	13.24	06/30/2019	4.81	10.32	6.48	9.95	6.91	--	0.60% on 05/30/2019	10/17/1996
FID FREEDOM 2035 K	06/30/2019	5.38	3.24	14.53	06/30/2019	4.13	11.18	6.87	10.42	6.87	--	0.63% on 05/30/2019	11/06/2003
FID FREEDOM 2040 K	06/30/2019	5.73	3.15	15.02	06/30/2019	4.01	11.19	6.88	10.51	4.20	--	0.65% on 05/30/2019	09/06/2000
FID FREEDOM 2045 K	06/30/2019	5.70	3.16	15.04	06/30/2019	3.95	11.17	6.88	10.60	6.00	--	0.65% on 05/30/2019	06/01/2006
FID FREEDOM 2050 K	06/30/2019	5.76	3.22	15.02	06/30/2019	3.95	11.20	6.88	10.65	5.85	--	0.65% on 05/30/2019	06/01/2006
FID FREEDOM 2055 K	06/30/2019	5.70	3.16	15.02	06/30/2019	3.97	11.17	6.88	--	8.04	--	0.65% on 05/30/2019	06/01/2011
FID FREEDOM 2060 K	06/30/2019	5.69	3.21	14.96	06/30/2019	3.97	11.16	--	--	7.56	--	0.65% on 05/30/2019	08/05/2014
FID FREEDOM INC K	06/30/2019	1.93	2.56	7.01	06/30/2019	5.48	4.90	3.65	5.19	4.80	--	0.42% on 05/30/2019	10/17/1996
Bond Investments													
Stable Value													
TRP STABLE VALUE A	06/30/2019	0.17	0.55	1.09	06/30/2019	2.17	1.98	1.95	2.46	4.75	--	0.30% on 12/31/2015	09/12/1988
Income													
FID US BOND IDX	06/30/2019	1.17	2.97	6.00	06/30/2019	7.88	2.19	2.91	3.82	5.92	--	0.03% on 11/29/2018	03/08/1990
PIM TOTAL RT INST	06/30/2019	1.08	3.21	6.08	06/30/2019	7.64	3.18	3.02	4.69	7.16	--	0.55% on 06/10/2019	05/11/1987
Other Investments													
Others													
BROKERAGELINK	--	--	--	--	--	--	--	--	--	--	--	--	--

Expense Ratio is the total annual fund operating expense ratio from the fund's most recent prospectus. For non-Fidelity fund of funds listed, the ratio shown may solely reflect the total operating expense ratio of the fund, or may be a combined ratio reflecting both the total operating expense ratio of the fund and the total operating expense ratios of the underlying funds in which it was invested. Please consult the fund's prospectus for more detail on a particular fund's expense ratio.

Total returns are historical and include change in share value and reinvestment of dividends and capital gains, if any. Cumulative total returns are reported as of the period indicated. Life of Fund figures are reported as of the inception date to the period indicated.

The management company may be temporarily reimbursing a portion of the fund's expenses. Absent such reimbursement, returns and yields would have been lower. A fund's expense limitation may be terminated at any time.

For any Government or U.S. Treasury Money Market funds listed: *You could lose money by investing in a money market fund. Although the fund seeks to preserve the value of your investment at $1.00 per share, it cannot guarantee it will do so. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The fund's sponsor has no legal obligation to provide financial support to money market funds and you should not expect that the sponsor will provide financial support to the fund at any time.* Fidelity's government and U.S. Treasury money market funds will not impose a fee upon the sale of your shares, nor temporarily suspend your ability to sell shares if the fund's weekly liquid assets fall below 30% of its total assets because of market conditions or other factors.

For any Retail (Non Government or U.S. Treasury) Money Market Funds listed: *You could lose money by investing in a money market fund. Although the fund seeks to preserve the value of your investment at $1.00 per share, it cannot guarantee it will do so. The Fund may impose a fee upon the sale of your shares or may temporarily suspend your ability to sell shares if the Fund's liquidity falls below required minimums because of market conditions or other factors. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The fund's sponsor has no legal obligation to provide financial support to money market funds and you should not expect that the sponsor will provide financial support to the fund at any time.*

For any Institutional Money Market Funds listed: *You could lose money by investing in a money market fund. Because the share price of the fund will fluctuate, when you sell your shares they may be worth more or less than what you originally paid for them. The Fund may impose a fee upon the sale of your shares or may temporarily suspend your ability to sell shares if the Fund's liquidity falls below required minimums because of market conditions or other factors. An investment in the fund is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. The fund's sponsor has no legal obligation to provide financial support to money market funds and you should not expect that the sponsor will provide financial support to the fund at any time.*

A money market fund's current yield reflects the current earnings of the fund, while the total return refers to a specific past holding period.

Performance of an index is not illustrative of any particular investment and an investment cannot be made directly in an index.

Generally, among asset classes stocks are more volatile than bonds or short-term instruments and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments. Although the bond market is also volatile, lower-quality debt securities including leveraged loans generally offer higher yields compared to investment grade securities, but also involve greater risk of default or price changes. Foreign markets can be more volatile than U.S. markets due to increased risks of adverse issuer, political, market or economic developments, all of which are magnified in emerging markets.

Before investing, consider the funds' investment objectives, risks, charges, and expenses. Contact Fidelity for a prospectus or, if available, a summary prospectus containing this information. Read it carefully.

For Investment Professional or Plan Sponsor use only.

Fidelity Brokerage Services LLC, Member NYSE, SIPC, 900 Salem Street, Smithfield, RI 02917

© 2016 FMR LLC. All rights reserved. The trademarks and service marks appearing herein are the property of their respective owners

Fidelity INVESTMENTS

STATE OF RHODE ISLAND

Balance by Fund

Data As Of: 6/30/2019

DC Plan Number	DC Plan Short Name	Fund Code	Fund Name	Fund Ticker Symbol	Fund Type	Fund Distinct Count By Participant	Market Value	Asset Percentage
35835	STATE OF RI	0338	FID LARGE CAP STOCK	FLCSX	DOMESTIC EQUITY	288	$8,524,993.55	5.37%
35835	STATE OF RI	2080	FID CONTRAFUND K	FCNKX	DOMESTIC EQUITY	716	$37,426,959.12	23.58%
35835	STATE OF RI	2095	FID LOW PRICED STK K	FLPKX	DOMESTIC EQUITY	352	$9,844,157.25	6.20%
35835	STATE OF RI	2326	FID US BOND IDX	FXNAX	BOND	160	$1,983,043.67	1.25%
35835	STATE OF RI	2328	FID 500 INDEX	FXAIX	DOMESTIC EQUITY	416	$12,737,844.50	8.02%
35835	STATE OF RI	2352	FID MID CAP IDX	FSMDX	DOMESTIC EQUITY	195	$2,182,943.08	1.38%
35835	STATE OF RI	2358	FID SM CAP IDX	FSSNX	DOMESTIC EQUITY	237	$1,962,633.99	1.24%
35835	STATE OF RI	2363	FID INTL INDEX	FSPSX	INTERNATIONAL EQUITY	192	$2,810,395.57	1.77%
35835	STATE OF RI	3019	FID FREEDOM INC K	FNSHX	LIFECYCLE	48	$1,684,602.05	1.06%
35835	STATE OF RI	3020	FID FREEDOM 2005 K	FSNJX	LIFECYCLE	10	$361,987.22	0.23%
35835	STATE OF RI	3021	FID FREEDOM 2010 K	FSNKX	LIFECYCLE	71	$4,147,061.38	2.61%
35835	STATE OF RI	3022	FID FREEDOM 2015 K	FSNLX	LIFECYCLE	51	$2,110,330.75	1.33%
35835	STATE OF RI	3023	FID FREEDOM 2020 K	FSNOX	LIFECYCLE	235	$14,924,726.56	9.40%
35835	STATE OF RI	3024	FID FREEDOM 2025 K	FSNPX	LIFECYCLE	104	$3,976,998.43	2.51%
35835	STATE OF RI	3025	FID FREEDOM 2030 K	FSNQX	LIFECYCLE	261	$12,909,127.25	8.13%
35835	STATE OF RI	3026	FID FREEDOM 2035 K	FSNUX	LIFECYCLE	75	$3,066,558.38	1.93%
35835	STATE OF RI	3027	FID FREEDOM 2040 K	FSNVX	LIFECYCLE	62	$1,549,301.49	0.98%
35835	STATE OF RI	3028	FID FREEDOM 2045 K	FSNZX	LIFECYCLE	62	$1,195,598.65	0.75%
35835	STATE OF RI	3029	FID FREEDOM 2050 K	FNSBX	LIFECYCLE	49	$354,197.01	0.22%
35835	STATE OF RI	3030	FID FREEDOM 2055 K	FNSDX	LIFECYCLE	43	$695,319.07	0.44%
35835	STATE OF RI	3031	FID FREEDOM 2060 K	FNSFX	LIFECYCLE	20	$75,991.27	0.05%
35835	STATE OF RI	BLNK	BROKERAGELINK		OTHER	110	$12,714,345.34	8.01%
35835	STATE OF RI	OF1P	PIM TOTAL RT INST	PTTRX	BOND	279	$7,201,086.66	4.54%
35835	STATE OF RI	OFHL	HARBOR INTL INST	HAINX	INTERNATIONAL EQUITY	254	$3,876,181.02	2.44%
35835	STATE OF RI	OGMU	TRP STABLE VALUE A		STABLE VALUE	338	$7,335,616.68	4.62%
35835	STATE OF RI	OK26	INVESCO DIVRS DIV R6	LCEFX	DOMESTIC EQUITY	178	$2,498,008.73	1.57%
35835	STATE OF RI	OQPN	VANG FTSE SOCIAL IDX	VFTSX	DOMESTIC EQUITY	106	$581,177.88	0.37%
							$158,731,186.55	

P E R F O R M A N C E U P D A T E

Voya Retirement Insurance and Annuity Company

State of RI 457 Plan

Average Annual Total Returns as of: 06/30/2019 (shown in percentages)

Variable annuities and mutual funds offered through a retirement plan are intended as long-term investments designed for retirement purposes. Money distributed from a 403(b) plan, 401(a)/(k) plan, or a 457 plan will be taxed as ordinary income in the year the money is distributed. Early withdrawals from a 403(b) plan and a 401(a)/(k) plan, if taken prior to age 59 1/2, will be subject to the IRS 10% premature distribution penalty tax, unless an exception applies. This IRS premature distribution penalty tax does not apply to 457 plans. Account values fluctuate with market conditions, and when surrendered the principal may be worth more or less than the original amount invested.

The performance data quoted represents past performance. Past performance does not guarantee future results. For month-end performance which may be lower or higher than the performance data shown please call 800-232-5422. Investment return and principal value of an investment will fluctuate so that, when sold, an investment may be worth more or less than the original cost.

The below investment options are in Separate Account D. Please note that the figures do not include an adjustment for the Voya Administrative Fund Fee (where applicable) and the deduction of the Daily Asset Charge from the Separate Account (if applicable), or other applicable contract charges. If these fees and charges were included, performance would be less favorable.

The returns assume reinvestment of all dividends (ordinary income and capital gains) and are net of management fees and other fund operating expenses.

You should consider the investment objectives, risks and charges, and expenses of the funds carefully before investing. The prospectus contains this and other information. Anyone who wishes to obtain a free copy of the fund prospectuses may call their Voya representative or the number above. Please read the prospectus carefully before investing.

Returns less than one year are not annualized. Fund Inception Date is the date of inception for the underlying fund, and is the date used in calculating the periodic returns. This date may also precede the portfolio's inclusion in the product.

Investment Options	Fund Benchmark ID (BM)	1-Mo Fund	1-Mo BM	3-Mo Fund	3-Mo BM	YTD Fund	YTD BM	1-Yr Fund	1-Yr BM	3-Yr Fund	3-Yr BM	5-Yr Fund	5-Yr BM	10-Yr Fund	10-Yr BM	Incept	Fund Inception Date	Gross Fund Exp %*	Net Fund Exp %*
Stability of Principal																			
Stability of Principal																			
Voya Fixed Account - 457/401 II A - 4573 (22)(23)	MFR	0.14		0.43	0.51	0.86		1.75	1.92	1.80	2.12	1.92	1.28	2.28	0.65				
Bonds																			
High Yield Bond																			
PGIM High Yield Fund - Class Z - 2482	BCUSH1IC	2.54	2.28	3.30	2.47	10.92	9.92	8.73	7.32	8.03	7.45	5.25	4.67	9.26	9.17		03/01/1996	0.55	0.55
Inflation-Protected Bond																			

Investment Options	Fund Benchmark ID (BM)	1-Mo Fund	1-Mo BM	3-Mo Fund	3-Mo BM	YTD Fund	YTD BM	1-Yr Fund	1-Yr BM	3-Yr Fund	3-Yr BM	5-Yr Fund	5-Yr BM	10-Yr Fund	10-Yr BM	Incept	Fund Inception Date	Gross Fund Exp %*	Net Fund Exp %*
PIMCO VIT Real Return Portfolio - Administrative Class - 833	LBUSTIPS	0.64	0.86	2.68	2.86	6.35	6.15	4.36	4.84	2.23	2.08	1.32	1.76	3.89	3.64		09/30/1999	1.42	1.42
Intermediate-Term Bond																			
Voya Intermediate Bond Portfolio - Class I - 004 (1)	LEHM	1.37	1.26	3.39	3.08	6.96	6.11	8.37	7.87	3.40	2.31	3.56	2.95	5.84	3.90		05/23/1973	0.55	0.55
Voya U.S. Bond Index Portfolio - Class I - 1554 (2)	LEHM	1.22	1.26	2.87	3.08	5.88	6.11	7.56	7.87	1.92	2.31	2.61	2.95	3.51	3.90		03/07/2008	0.41	0.40
Asset Allocation																			
Lifecycle																			
Voya Solution 2020 Portfolio - Initial Class - 6750 (3)(4)	SPT2020	3.23	3.65	3.23	2.88	10.63	10.54	6.58	5.78	7.33	7.28	5.34	5.15			8.64	10/03/2011	0.91	0.72
Voya Solution 2025 Portfolio - Initial Class - 790 (4)(5)	SPT2025	4.15	4.17	3.25	2.99	11.87	11.61	6.10	5.70	8.32	8.09	5.53	5.52	9.24	9.33		04/29/2005	0.85	0.78
Voya Solution 2030 Portfolio - Initial Class - 6753 (4)(6)	SPT2030	4.69	4.74	3.28	3.09	13.26	12.78	5.81	5.55	9.16	8.82	6.14	5.89			10.36	10/03/2011	0.97	0.79
Voya Solution 2035 Portfolio - Initial Class - 761 (4)(7)	SP2035	5.25	5.26	3.33	3.18	14.14	13.78	5.24	5.36	9.80	9.50	6.08	6.23	10.14	10.39		04/29/2005	0.90	0.83
Voya Solution 2040 Portfolio - Initial Class - 6756 (4)(8)	SPT2040	5.58	5.61	3.38	3.27	14.80	14.45	5.00	5.26	10.17	10.00	6.45	6.47			11.44	10/03/2011	1.05	0.83
Voya Solution 2045 Portfolio - Initial Class - 764 (4)(9)	SP2045	5.91	5.81	3.43	3.32	15.28	14.78	4.40	5.15	10.12	10.32	6.12	6.61	10.59	10.94		04/29/2005	0.93	0.86
Voya Solution 2050 Portfolio - Initial Class - 6759 (4)(10)	SPT2050	6.17	5.92	3.51	3.32	15.56	14.97	4.39	5.03	10.20	10.61	6.44	6.73			11.54	10/03/2011	1.12	0.86
Voya Solution 2055 Portfolio - Initial Class - 1166 (4)(11)	SPT2055	6.20	5.96	3.48	3.34	15.46	15.02	4.36	5.03	10.23	10.80	6.23	6.79			8.88	03/08/2010	0.94	0.86
Voya Solution 2060 Portfolio - Initial Class - 3290 (4)(12)	SPT2060	6.25	6.02	3.47	3.37	15.47	15.17	4.35	5.11	10.29	11.01					6.88	02/09/2015	1.29	0.87
Voya Solution Income Portfolio - Initial Class - 767 (4)(13)	SPTREIN	2.52	2.84	2.95	2.82	9.03	8.55	6.67	5.90	5.59	5.02	4.28	3.94	6.60	6.03		04/29/2005	0.81	0.68
Balanced																			
Allocation--50% to 70% Equity																			
VY® T. Rowe Price Capital Appreciation Portfolio - Inst - 1257	SPXLBGC	4.66	4.82	4.92	4.14	17.44	13.97	15.26	9.56	11.98	9.36	10.37	7.70	13.03	10.53		01/24/1989	0.64	0.64
Large Cap Value																			
Large Blend																			
Voya Growth and Income Portfolio - Class I - 001 (14)	SPXRE	6.30	7.05	5.35	4.30	17.50	18.54	11.10	10.42	12.78	14.19	8.65	10.71	12.94	14.70		12/31/1979	0.63	0.58
Voya U.S. Stock Index Portfolio - Institutional Class - 829	SPXRE	7.03	7.05	4.25	4.30	18.35	18.54	10.07	10.42	13.87	14.19	10.41	10.71	14.40	14.70		05/03/2004	0.27	0.27
Large Value																			
BlackRock Equity Dividend Fund - Institutional Shares - 8518 (15)	RS1000V	6.34	7.18	4.67	3.84	15.42	16.24	7.57	8.46	11.54	10.19	8.68	7.46	12.42	13.19		11/29/1988	0.73	0.73
Large Cap Growth																			
Large Growth																			
Voya Large Cap Growth Portfolio - Institutional Class - 742 (16)	RS1000G	5.63	6.87	3.82	4.64	19.29	21.49	11.01	11.56	16.95	18.07	12.65	13.39	16.01	16.28		05/03/2004	0.67	0.67
Small/Mid/Specialty																			
Mid-Cap Blend																			
Voya Russell™ Mid Cap Index Portfolio - Class I - 1560 (17)	RSMID	6.89	6.87	4.05	4.13	21.07	21.35	7.47	7.83	11.73	12.16	8.21	8.63	14.75	15.16		03/04/2008	0.44	0.40
Mid-Cap Growth																			

Investment Options	Fund Benchmark ID (BM)	1-Mo Fund	1-Mo BM	3-Mo Fund	3-Mo BM	YTD Fund	YTD BM	1-Yr Fund	1-Yr BM	3-Yr Fund	3-Yr BM	5-Yr Fund	5-Yr BM	10-Yr Fund	10-Yr BM	Incept	Fund Inception Date	Gross Fund Exp %*	Net Fund Exp %*
Principal MidCap Fund - Class R-5 - 3412	RSMID	6.59	6.87	9.23	4.13	30.23	21.35	17.93	7.83	17.08	12.16	12.39	8.63	17.27	15.16		12/06/2000	0.85	0.85
Small Blend																			
Voya Russell™ Small Cap Index Portfolio - Class I - 1563 (18)	RS2000	7.06	7.07	1.99	2.10	16.84	16.98	-3.65	-3.31	11.97	12.30	6.83	7.06	13.27	13.45		03/04/2008	0.46	0.45
Voya Small Company Portfolio - Class I - 042 (19)	RS2000	6.88	7.07	2.49	2.10	17.32	16.98	-4.26	-3.31	8.96	12.30	6.87	7.06	13.11	13.45		12/27/1996	0.89	0.89
Global / International																			
Foreign Large Blend																			
Voya International Index Portfolio - Class I - 1551 (20)	MSEAFANET	5.96	5.93	3.66	3.68	14.00	14.03	1.01	1.08	8.63	9.11	1.99	2.25	6.68	6.90		03/04/2008	0.53	0.45
Foreign Large Growth																			
American Funds EuroPacific Growth Fund - Class R-4 - 573	MSCIXUS	6.62	6.02	3.78	2.98	17.40	13.60	1.57	1.29	10.45	9.38	4.09	2.16	7.78	6.54		04/16/1984	0.83	0.83
World Large Stock																			
VY® Invesco Oppenheimer Global Portfolio - Initial Class - 432 (21)	MSCIACN	7.75	6.55	3.98	3.61	21.50	16.23	3.57	5.74	16.21	11.62	7.98	6.16	12.17	10.15		05/01/2002	0.75	0.75

The risks of investing in small company stocks may include relatively low trading volumes, a greater degree of change in earnings and greater short-term volatility.

Foreign investing involves special risks such as currency fluctuation and public disclosure, as well as economic and political risks.

Some of the Funds invest in securities guaranteed by the U.S. Government as to the timely payment of principal and interest; however, shares of the Funds are not insured nor guaranteed.

High yielding fixed-income securities generally are subject to greater market fluctuations and risks of loss of income and principal than are investments in lower yielding fixed-income securities.

Sector funds may involve greater-than average risk and are often more volatile than funds holding a diversified portfolio of stocks in many industries. Examples include: banking, biotechnology, chemicals, energy, environmental services, natural resources, precious metals, technology, telecommunications, and utilities.

*The Gross Expense Ratios shown do not reflect any temporary fee or expense waivers that may be in effect for a fund. The performance of a fund with a temporary fee or expense waiver would have been lower if the gross fund fees / expenses listed had been reflected.

P E R F O R M A N C E U P D A T E

Voya Retirement Insurance and Annuity Company

State of RI 457 Plan

Separate Account D

Average Annual Total Returns as of: 06/30/2019 (shown in percentages)

Variable annuities and funding agreements are long-term investment vehicles designed for retirement purposes which allow you to allocate contributions among variable investment options that have the potential to grow tax-deferred with an option to receive a stream of income at a later date.

The performance data quoted represents past performance. Past performance does not guarantee future results. For month-end performance which may be lower or higher than the performance data shown please call 800-232-5422. Investment return and principal value of an investment will fluctuate so that, when sold, an investment may be worth more or less than the original cost.

These numbers reflect total Separate Account charges of 0.15% on an annual basis. They also assume reinvestment of all dividends (ordinary income and capital gains) and are net of management fees and other fund operating expenses.

Depending upon the type of contract in which you participate, you have either received disclosure booklets for the separate account and/or fund prospectuses. You should consider the investment objectives, risks and charges, and expenses of the variable product and its underlying fund options carefully before investing. The disclosure booklet contains this and other information. Anyone who wishes to obtain a free copy of the separate account disclosure booklet and/or fund prospectuses may call their Voya representative or the number above. Please read the separate account disclosure booklet and/or the fund prospectuses carefully before investing.

Returns less than one year are not annualized. Fund Inception Date is the date of inception for the underlying fund, and is the date used in calculating the periodic returns. This date may also precede the portfolio's inclusion in the product.

Investment Options	1-Mo	3-Mo	YTD	1-Yr	3-Yr	5-Yr	10-Yr	Incept	Fund Inception Date
Stability of Principal									
Stability of Principal									
Voya Fixed Account - 457/401 II A - 4573 (22)(23)	0.14	0.43	0.86	1.75	1.80	1.92	2.28		
This fund is not part of the product's separate account.									
Bonds									
High Yield Bond									
PGIM High Yield Fund - Class Z - 2482	2.52	3.25	10.81	8.55	7.85	5.07	9.08		03/01/1996
Inflation-Protected Bond									
PIMCO VIT Real Return Portfolio - Administrative Class - 833	0.63	2.64	6.26	4.20	2.07	1.17	3.73		09/30/1999
Intermediate-Term Bond									

See Performance Introduction Page for Important Information

Investment Options	1-Mo	3-Mo	YTD	1-Yr	3-Yr	5-Yr	10-Yr	Incept	Fund Inception Date
Voya Intermediate Bond Portfolio - Class I - 004 (1)	1.36	3.35	6.86	8.19	3.24	3.40	5.68		05/23/1973
Voya U.S. Bond Index Portfolio - Class I - 1554 (2)	1.21	2.83	5.79	7.39	1.77	2.45	3.36		03/07/2008
Asset Allocation									
Lifecycle									
Voya Solution 2020 Portfolio - Initial Class - 6750 (3)(4)	3.22	3.19	10.55	6.42	7.17	5.18		8.48	10/03/2011
Voya Solution 2025 Portfolio - Initial Class - 790 (4)(5)	4.13	3.21	11.79	5.94	8.16	5.37	9.08		04/29/2005
Voya Solution 2030 Portfolio - Initial Class - 6753 (4)(6)	4.68	3.24	13.17	5.65	9.00	5.99		10.19	10/03/2011
Voya Solution 2035 Portfolio - Initial Class - 761 (4)(7)	5.24	3.29	14.06	5.09	9.63	5.92	9.97		04/29/2005
Voya Solution 2040 Portfolio - Initial Class - 6756 (4)(8)	5.57	3.34	14.72	4.85	10.01	6.29		11.28	10/03/2011
Voya Solution 2045 Portfolio - Initial Class - 764 (4)(9)	5.90	3.39	15.20	4.25	9.95	5.96	10.42		04/29/2005
Voya Solution 2050 Portfolio - Initial Class - 6759 (4)(10)	6.16	3.48	15.47	4.23	10.04	6.28		11.37	10/03/2011
Voya Solution 2055 Portfolio - Initial Class - 1166 (4)(11)	6.19	3.44	15.38	4.20	10.07	6.07		8.72	03/08/2010
Voya Solution 2060 Portfolio - Initial Class - 3290 (4)(12)	6.24	3.43	15.39	4.20	10.12			6.72	02/09/2015
Voya Solution Income Portfolio - Initial Class - 767 (4)(13)	2.51	2.92	8.95	6.51	5.43	4.13	6.44		04/29/2005
Balanced									
Allocation--50% to 70% Equity									
VY® T. Rowe Price Capital Appreciation Portfolio - Inst - 1257	4.65	4.88	17.35	15.09	11.82	10.20	12.86		01/24/1989
Large Cap Value									
Large Blend									
Voya Growth and Income Portfolio - Class I - 001 (14)	6.29	5.31	17.41	10.94	12.61	8.48	12.77		12/31/1979
Voya U.S. Stock Index Portfolio - Institutional Class - 829	7.01	4.21	18.26	9.90	13.70	10.25	14.23		05/03/2004
Large Value									
BlackRock Equity Dividend Fund - Institutional Shares - 8518 (15)	6.33	4.63	15.33	7.41	11.37	8.52	12.26		11/29/1988
Large Cap Growth									
Large Growth									
Voya Large Cap Growth Portfolio - Institutional Class - 742 (16)	5.62	3.78	19.20	10.85	16.77	12.49	15.84		05/03/2004
Small/Mid/Specialty									
Mid-Cap Blend									
Voya Russell™ Mid Cap Index Portfolio - Class I - 1560 (17)	6.88	4.01	20.98	7.31	11.56	8.04	14.57		03/04/2008
Mid-Cap Growth									
Principal MidCap Fund - Class R-5 - 3412	6.58	9.19	30.14	17.75	16.91	12.23	17.09		12/06/2000
Small Blend									
Voya Russell™ Small Cap Index Portfolio - Class I - 1563 (18)	7.04	1.95	16.75	-3.79	11.81	6.67	13.10		03/04/2008
Voya Small Company Portfolio - Class I - 042 (19)	6.87	2.45	17.24	-4.40	8.80	6.71	12.94		12/27/1996
Global / International									
Foreign Large Blend									

See Performance Introduction Page for Important Information

Investment Options	1-Mo	3-Mo	YTD	1-Yr	3-Yr	5-Yr	10-Yr	Incept	Fund Inception Date
Voya International Index Portfolio - Class I - 1551 (20)	5.95	3.62	13.92	0.86	8.47	1.84	6.52		03/04/2008
Foreign Large Growth									
American Funds EuroPacific Growth Fund - Class R-4 - 573	6.61	3.74	17.31	1.41	10.29	3.94	7.62		04/16/1984
World Large Stock									
VY® Invesco Oppenheimer Global Portfolio - Initial Class - 432 (21)	7.73	3.94	21.41	3.41	16.03	7.82	12.00		05/01/2002

The risks of investing in small company stocks may include relatively low trading volumes, a greater degree of change in earnings and greater short-term volatility.

Foreign investing involves special risks such as currency fluctuation and public disclosure, as well as economic and political risks.

Some of the Funds invest in securities guaranteed by the U.S. Government as to the timely payment of principal and interest; however, shares of the Funds are not insured nor guaranteed.

High yielding fixed-income securities generally are subject to greater market fluctuations and risks of loss of income and principal than are investments in lower yielding fixed-income securities.

Sector funds may involve greater-than average risk and are often more volatile than funds holding a diversified portfolio of stocks in many industries. Examples include: banking, biotechnology, chemicals, energy, environmental services, natural resources, precious metals, technology, telecommunications, and utilities.

Additional Notes

Insurance products, annuities and funding agreements issued by Voya Retirement Insurance and Annuity Company, One Orange Way Windsor, CT 06095, (VRIAC), which is solely responsible for meeting its obligations. Plan administrative services provided by VRIAC or Voya Institutional Plan Services, LLC. All companies are members of the Voya family of companies. Securities are distributed by or offered through Voya Financial Partners, LLC (member SIPC) or other broker-dealers with which it has a selling agreement.

For a performance report reflecting the charges or more information regarding product expenses, please contact your Voya Representative.

(1)Voya Intermediate Bond Portfolio - Class I: The adviser is contractually obligated to limit expenses to 0.53% through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(2)Voya U.S. Bond Index Portfolio - Class I: The adviser is contractually obligated to limit expenses to 0.40% for Class I through May 1, 2019. The limitation does not extend to interest, taxes, interest-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(3)Voya Solution 2020 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.72% of Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(4)There is no guarantee that any investment option will achieve its stated objective. Principal value fluctuates and there is no guarantee of value at any time, including the target date. The "target date" is the approximate date when you plan to start withdrawing your money. When your target date is reached, you may have more or less than the original amount invested. For each target date Portfolio, until the day prior to its Target Date, the Portfolio will seek to provide total returns consistent with an asset allocation targeted for an investor who is retiring in approximately each Portfolio's designation Target Year. Prior to choosing a Target Date Portfolio, investors are strongly encouraged to review and understand the Portfolio's objectives and its composition of stocks and bonds, and how the asset allocation will change over time as the target date nears. No two investors are alike and one should not assume that just because they intend to retire in the year corresponding to the Target Date that that specific Portfolio is appropriate and suitable to their risk tolerance. It is recommended that an investor consider carefully the possibility of capital loss in each of the target date Portfolios, the likelihood and magnitude of which will be dependent upon the Portfolio's asset allocation. On the Target Date, the portfolio will seek to provide a combination of total return and stability of principal.

Additional Notes

Stocks are more volatile than bonds, and portfolios with a higher concentration of stocks are more likely to experience greater fluctuations in value than portfolios with a higher concentration in bonds. Foreign stocks and small and midcap stocks may be more volatile than large cap stocks. Investing in bonds also entails credit risk and interest rate risk. Generally investors with longer timeframes can consider assuming more risk in their investment portfolio.

The Voya Solution / Target Date PortfoliosSM are actively managed and the asset allocation adjusted over time. The portfolios may merge with or change to other portfolios over time. Refer to the prospectus for more information about the specific risks of investing in the various asset classes included in the The Voya Solution / Target Date PortfoliosSM.
(5)Voya Solution 2025 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.78% of Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(6)Voya Solution 2030 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.79% of Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(7)Voya Solution 2035 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.83% of Class I shares through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(8)Voya Solution 2040 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.83% of Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(9)Voya Solution 2045 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.86% of Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(10)Voya Solution 2050 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.86% of Class I shares through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(11)Voya Solution 2055 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.86% of Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(12)Voya Solution 2060 Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.87% for Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(13)Voya Solution Income Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.68% for Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses and extraordinary expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(14)Voya Growth and Income Portfolio - Class I: The adviser is contractually obligated to limit expenses to 0.70% for Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses and Acquired Fund Fees and Expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. The adviser is contractually obligated to waive 0.045% of the management fee through May 1, 2019. Termination or modification of these obligations requires approval by the Portfolio's board.

Additional Notes

(15)BlackRock Equity Dividend Fund - Institutional Shares: As described in the "Management of the Fund" section of the Fund's prospectus beginning on page 39, BlackRock has contractually agreed to waive the management fee with respect to any portion of the Fund's assets estimated to be attributable to investments in other equity and fixed-income mutual funds and exchange-traded funds managed by BlackRock or its affiliates that have a contractual management fee, through November 30, 2018. The contractual agreement may be terminated upon 90 days' notice by a majority of the non-interested trustees of the Fund or by a vote of a majority of the outstanding voting securities of the Fund. The Total Annual Fund Operating Expenses do not correlate to the ratio of expenses to average net assets given in the Fund's most recent annual report which does not include Acquired Fund Fees and Expenses.

(16)Voya Large Cap Growth Portfolio - Institutional Class: The adviser is contractually obligated to limit expenses to 0.67% through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. Termination or modification of this obligation requires approval by the Portfolio's board.

(17)Voya Russell (TM) Mid Cap Index Portfolio - Class I: The adviser is contractually obligated to limit expenses to 0.40% for Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. Termination or modification of this obligation requires approval by the Portfolio's board.

(18)Voya Russell (TM) Small Cap Index Portfolio - Class I: The adviser is contractually obligated to limit expenses to 0.45% for Class I through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(19)Voya Small Company Portfolio - Class I: The adviser is contractually obligated to limit expenses to 0.93% through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(20)Voya International Index Portfolio - Class I: The adviser is contractually obligated to limit expenses to 0.50% for Class I through May 1, 2019. In addition, the adviser is contractually obligated to further limit expenses to 0.45% for the Portfolio's Class I through May 1, 2019. These limitations do not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. These limitations are subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of these obligations requires approval by the Portfolio's board.

(21)VY Oppenheimer Global Portfolio - Initial Class: The adviser is contractually obligated to limit expenses to 0.80% through May 1, 2019. The limitation does not extend to interest, taxes, investment-related costs, leverage expenses, extraordinary expenses, and Acquired Fund Fees and Expenses. This limitation is subject to possible recoupment by the adviser within 36 months of the waiver or reimbursement. Termination or modification of this obligation requires approval by the Portfolio's board.

(22)The current rate for the Voya Fixed Account - 457/401 II A MC 901, Fund 4573 is 1.75%, expressed as an annual effective yield. The current rate may change and be higher or lower than the previously identified rate but is guaranteed not to be less than 1.00%. VRIAC will not apply a decrease to the current rate following a rate change initiated solely by us prior to the last day of the three-month period measured from the first day of the month in which such change was effective. Note: The current rate for an initial investment in the fixed account previously identified may be in effect for less than a full three-month period.

(23)The Investment Option is neither a mutual fund nor part of a Separate Account. The returns listed do not include the impact of contract charges. Please refer to the contract or disclosure book to determine which Fixed Interest Options are available for your specific plan. The Investment Option is offered through Voya Retirement Insurance and Annuity Company.

The returns do not reflect the impact of a Deferred Surrender Charge. If included, performance would be less favorable.

Not all investments options are available under all contracts; please check your disclosure booklet for options available under your plan.

Benchmark Id	Benchmark Description
BCUSH1IC	BBgBarc US HY 1% Issuer Cap TR USD
LBUSTIPS	BBgBarc Capital U.S. Treasury U.S. TIPS Index measures the performance of rulesbased, market value-weighted inflation-protected securities issued by the U.S. Treasury. It is a subset of the Global Inflation-Linked Index (Series-L).

Benchmark Id	Benchmark Description
LEHM	BBgBarc U.S. Aggregate Bond Index measures the performance of investment grade, U.S. dollar-denominated, fixed-rate taxable bond market, including Treasuries, government-related and corporate securities, MBS (agency fixed-rate and hybrid ARM passthroughs), ABS, and CMBS. It rolls up into other Barclays flagship indices, such as the multi-currency Global Aggregate Index and the U.S. Universal Index, which includes high yield and emerging markets debt.
MFR	MFR Money Market Index is comprised of returns which are based upon historical average 30-day compound yields on a universe of taxable money market funds. The data for the universe, which includes approximately 980 funds, is compiled by iMoneynet, Inc. Goal of ING Fixed Account - 457/401 is to outperform the MFR by 150 - 200 basis points over 3 - 5 year time periods.
MSCIACN	MSCI ACWI (All Country World Index) measures the performance of the large and mid-cap segment of the particular regions equity securities,including developed and emerging market. It is free float-adjusted market-capitalization weighted.
MSCIXUS	MSCI ACWI (All Country World Index) ex USA Index measures the performance of the large and mid-cap segment of the particular regions, excluding USA equity securities,including developed and emerging market. It is free float-adjusted market-capitalization weighted.
MSEAFANET	MSCI EAFE Index measures the performance of the large and mid-cap segment of developed markets, excluding the U.S. & Canada equity securities. It is free float-adjusted market-capitalization weighted.
RS1000G	Russell 1000 Growth Index measures the performance of the large-cap growth segment of the U.S. equity securities. It includes the Russell 1000 index companies with higher price-to-book ratios and higher forecasted growth values. It is market-capitalization weighted.
RS1000V	Russell 1000 Value Index measures the performance of the large-cap value segment of the U.S. equity securities. It includes the Russell 1000 index companies with lower price-to-book ratios and lower expected growth values. It is market-capitalization weighted.
RS2000	Russell 2000 Index measures the performance of the small-cap segment of the U.S. equity universe. It is a subset of the Russell 3000 and includes approximately 2000 of the smallest securities based on a combination of their market cap and current index membership.
RSMID	Russell Mid-Cap Index measures the performance of the mid-cap segment of the U.S. equity universe. It is a subset of Russell 1000 index and includes approximately 800 of the smallest securities based on a combination of their market cap and current index membership. The index represents approximately 31% of the total market capitalization of the Russell 1000 companies.
SP2035	S&P Target Date 2035 Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2035, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SP2045	S&P Target Date 2045 Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2045, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SPT2020	S&P Target Date 2020 Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2020, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SPT2025	S&P Target Date 2025 Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2025, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SPT2030	S&P Target Date 2030 Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2030, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SPT2040	S&P Target Date 2040 Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2040, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management

Benchmark Id	Benchmark Description
	companies that offer target date products.
SPT2050	S&P Target Date 2050 Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2050, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SPT2055	S&P Target Date 2055+ Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index has target retirement date of 2055, and belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SPT2060	S&P Target Date 2060+ TR USD - description is not available.
SPTREIN	S&P Target Date Retirement Income Index measures the performance of a portfolio of multi-asset including equities, fixed income and commodities. The index belongs to S&P Target Date Index Series which comprises eleven indexes with different target retirement date. Each index in this series is determined once a year through survey of large fund management companies that offer target date products.
SPXLBGC	S&P 500 60% / Barclays Capital Corp/Gov Bond Index 40% consists of a mix of 60% of an unmanaged stock index (The Standard & Poor's 500) and 40% of an unmanaged bond index (Barclays Capital Gov't Corp. Bond Index).
SPXRE	S&P 500 Index measures the performance of 500 widely held stocks in U.S. equity market. Standard and Poor's chooses member companies for the index based on market size, liquidity and industry group representation. Included are the stocks of industrial, financial, utility, and transportation companies. Since mid 1989, this composition has been more flexible and the number of issues in each sector has varied. The index is market capitalization-weighted.

State of Rhode Island Plan Balance By Investment 06/30/2019

Fund Name	Fund Number	Asset Class	Balance	YTD Contributions	Percent
Voya Solution 2025 Portfolio I	790	Asset Allocation	$905,562.81	$70,249.68	0.47%
Voya Solution 2030 Port I	6753	Asset Allocation	$1,580.04	$1,604.50	0.00%
Voya Solution 2035 Portfolio I	761	Asset Allocation	$1,131,463.32	$98,263.87	0.59%
Voya Solution 2040 Port I	6756	Asset Allocation	$1,109.44	$1,077.50	0.00%
Voya Solution 2045 Portfolio I	764	Asset Allocation	$981,537.58	$90,203.82	0.51%
Voya Solution 2050 Port I	6759	Asset Allocation	$3,307.86	$1,690.00	0.00%
Voya Solution 2055 Portfolio I	1166	Asset Allocation	$513,951.46	$70,197.12	0.27%
Voya Solution 2060 Port I	3290	Asset Allocation	$12,775.67	$11,050.00	0.01%
Voya Solution Income Prt I	767	Asset Allocation	$425,781.35	$30,882.56	0.22%
VY TRowePrice Captl Apprec Pt Inst	1257	Balanced	$9,126,982.46	$238,674.02	4.76%
PGIM High Yield Fund Z	2482	Bonds	$629,508.27	$23,715.91	0.33%
PIMCO VIT Real Return Portfolio Adm	833	Bonds	$432,024.20	$23,685.84	0.23%
Voya Intermediate Bond Port I	4	Bonds	$7,673,336.54	$384,768.28	4.00%
Voya U.S. Bond Index Portfolio I	1554	Bonds	$670,923.48	$30,273.52	0.35%
American Funds EuroPacific R4	573	Global / International	$6,167,863.11	$219,853.66	3.21%
Voya International Index Port I	1551	Global / International	$520,425.80	$21,148.79	0.27%
VY Inv Opp Global Port I	432	Global / International	$7,290,529.58	$221,050.67	3.80%
Voya Growth and Income Port I	1	Large Cap Blend	$27,539,978.82	$480,169.59	14.35%
Voya Large Cap Growth Port Inst	742	Large Cap Growth	$12,228,926.14	$399,947.26	6.37%
BlackRock Equity Dividend Fund Inst	8518	Large Cap Value	$4,197,784.09	$129,648.21	2.19%
Voya U.S. Stock Index Port Inst	829	Large Cap Value	$9,397,552.26	$254,054.94	4.90%
Principal MidCap Fund R5	3412	Small/Mid/Specialty	$11,457,943.04	$220,186.83	5.97%
Voya Russell Mid Cap Index Port I	1560	Small/Mid/Specialty	$1,559,987.07	$83,854.97	0.81%
Voya Russell Sm Cp Index Port I	1563	Small/Mid/Specialty	$1,501,749.77	$82,900.48	0.78%
Voya Small Company Portfolio I	42	Small/Mid/Specialty	$7,650,192.27	$192,425.44	3.99%
Voya Fixed Account - 457/401	43	Stability of Principal	$72,030,585.62	$0.00	37.54%
Voya Fixed Account 457401 II A	4573	Stability of Principal	$7,801,870.66	$1,589,725.21	4.07%
Voya Long-Term GAA (4560)	4560	Stability of Principal	$25,487.48	$0.00	0.01%
		TOTAL	**$191,880,720.19**	**$4,971,302.67**	

Section XVI.

OPEB Trust

BNY MELLON

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

6/30/2019

Account Name Benchmark Name	Market Value	% of Total	Month	YTD	Fiscal YTD	1 Year	Annualized 3 Years	5 Years	10 Years	ITD	Inception Date
Mackay Shields OPEB	117,306,522.9	35.0	1.24	6.28	7.76	7.76	2.24	2.81		2.45	5/1/2013
Bloomberg Barclays U.S. Aggregate Bond Index			*1.26*	*6.11*	*7.87*	*7.87*	*2.31*	*2.95*		*2.54*	*5/1/2013*
SSGA S&P 500 INDX	218,216,425.7	65.0	6.91	18.30	10.17	10.17	14.09	10.67		12.73	5/1/2011
S&P 500 - Total Return Index			*7.05*	*18.54*	*10.42*	*10.42*	*14.19*	*10.71*		*12.21*	*5/1/2011*
Total OPEB	**335,522,948.6**	**100.0**	**4.87**	**13.91**	**9.50**	**9.50**	**9.93**	**7.98**		**9.05**	**5/1/2011**
OPEB Custom Blend [1]			*5.02*	*14.25*	*9.97*	*9.97*	*10.10*	*8.13*		*8.49*	*5/1/2011*

Source: The Bank of New York Mellon Corporation

END NOTES

6/30/2019

1	RI7GX0903OPE	OPEB Custom Blend	35% Barclays Aggregate and 65% S&P 500

BNY MELLON

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

6/30/2019

Account Name Benchmark Name	Market Value	% of Total	YTD	Month	Cumulative 5/1/2019 - 5/31/2019	Cumulative 4/1/2019 - 4/30/2019	2018	2017	2016	Inception Date
Mackay Shields OPEB	117,306,522.9	35.0	6.28	1.24	1.77	0.04	-0.54	3.78	2.28	5/1/2013
Bloomberg Barclays U.S. Aggregate Bond Index			*6.11*	*1.26*	*1.78*	*0.03*	*0.01*	*3.54*	*2.65*	*5/1/2013*
SSGA S&P 500 INDX	218,216,425.7	65.0	18.30	6.91	-6.36	4.05	-4.42	21.80	11.99	5/1/2011
S&P 500 - Total Return Index			*18.54*	*7.05*	*-6.35*	*4.05*	*-4.38*	*21.83*	*11.96*	*5/1/2011*
Total OPEB [1]	**335,522,948.6**	**100.0**	**13.91**	**4.87**	**-3.56**	**2.65**	**-2.85**	**15.32**	**8.69**	**5/1/2011**
OPEB Custom Blend [2]			*14.25*	*5.02*	*-3.51*	*2.64*	*-2.58*	*15.14*	*8.77*	*5/1/2011*

Source: The Bank of New York Mellon Corporation

END NOTES

6/30/2019

1	RI7G10000000	Total OPEB	YTD - Calendar Year to Date
			Month - Current Month
			Cumulative Months - Prior Month and Second Prior Month
			2013, 2012, 2011 - Calendar Year
2	RI7GX0903OPE	OPEB Custom Blend	65% S&P 500 and 35% Barclays Aggregate