STATE OF RHODE ISLAND INVESTMENT COMMISSION MEETING

DATA AT July 31st, 2018

August 22nd, 2018 MEETING

MEMBERS OF THE STATE INVESTMENT COMMISSION

Honorable Seth Magaziner, Chair

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



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, August 22nd, 2018 at 9:00 a.m. in the Executive Conference Room, Department of Administration, 1 Capitol Hill, Providence.

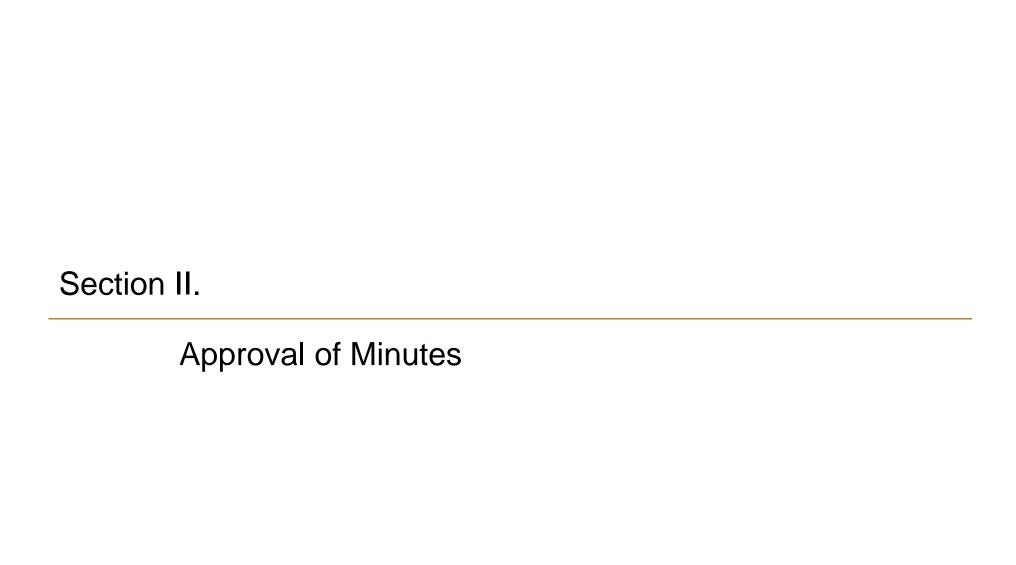
AGENDA

- Chairperson Call to Order
- Membership Roll Call
- Approval of Minutes ¹
 - State Investment Commission Meeting held June 27th, 2018
- Homestead Capital USA Farmland Fund III ¹
 - Dan Little & Gabe Santos, Homestead Capital
 - Tom Lynch & Mark Williams, Cliffwater
- Level Equity Growth Partners IV and Opportunities Fund 2018 ¹
 - Benjamin Levin, Level Equity
 - Tom Lynch, Cliffwater
- Income Class Review Liquid Credit ¹
 - Doug Moseley, NEPC
- Asset/Liability Stress Testing
 - Doug Moseley, Mark Cintolo & Robert Goldthorpe, NEPC
- Cash Management and BankLocal Update ¹
 - Kerri Baker & Patrick Marr, State of Rhode Island Treasury
- Legal Counsel Report
- Chief Investment Officer Report
- Treasurer's General Comments

POSTED ON August 20, 2018

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.

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





State Investment Commission

Monthly Meeting Minutes Wednesday, June 27^{the}, 2018 9:00 a.m. Executive Conference Room, Department of Administration

The Monthly Meeting of the State Investment Commission (SIC) was called to order at 9:06 AM, Wednesday, June 27^{the}, 2018 in the Executive Conference Room, Department of Administration.

I. Roll Call of Members

The following members were present: Mr. Michael Costello, Ms. Sylvia Maxfield, Mr. Thomas Mullaney, Ms. Marcia Reback, Mr. Robert Benson, Ms. Karen Hammond, Mr. Frank Karpinski, Mr. Erik Carleton, and Treasurer Seth Magaziner.

Also in attendance: Mr. Tom Lynch, Cliffwater; Mr. Loren Schlachet and Mr. Erick Bronner, Riverside; Ms. Tiffany Spudich and Mr. Peter Harvey, Capital Cities; Mr. David Iden and Mr. Larry Brown, TIAA; Mr. Alec Stais, Chief Investment Officer; Ms. Sally Dowling and Ms. Nicole Verdi, Adler, Pollock & Sheehan, legal counsel; Mr. Doug Moseley and Mr. Will Forde, NEPC; and other members of the Treasurer's staff.

Treasurer Magaziner called the meeting to order at 9:06 AM.

II. Approval of Minutes

On a motion by Ms. Maxfield and seconded by Ms. Hammond, it was unanimously **VOTED**: to approve the draft minutes of the May 23rd, 2018 meeting of the State Investment Commission.

III. Private Equity Investment Recommendation, Riverside Micro-Cap Fund V

Mr. Tom Lynch introduced Mr. Loren Schlachet and Mr. Erick Bronner from Riverside. Mr. Schlachet provided an overview of Riverside as a firm before discussing his background. He highlighted the depth and experience of the RMCF team. Mr. Schlachet described the fund's standardized processes and analytical tools, which facilitate a consistent approach to buying, building and selling companies. He walked the Board through the typical stages of a RMCF investment, noting the teams responsible for each stage of the process. He discussed the fund's investment strategy, noting target company characteristics and sector focus. Mr. Schlachet emphasized RMCF's strong realized acquisition to exit EBITDA growth, citing the roles of organic growth and add-on acquisitions in the value creation process. He illustrated some of the steps taken to transform the portfolio companies sold to date; namely, management upgrades, sales initiatives, and working capital improvements. Mr. Schlachet walked the Board through a couple of successful portfolio company case studies and referenced RMCF realization statistics. Mr. Bronner provided a summary of the terms and expected close. Mr. Lynch summarized Riverside's fit in the Plan's overall Private Equity portfolio.

The Board asked questions.

On a motion by Ms. Maxfield which was seconded by Ms. Reback, it was unanimously **VOTED: that the Employees' Retirement System of the State of Rhode Island make a commitment up to a \$40 million**

investment in Riverside Micro-Cap Fund V, subject to legal and investment staff review.

IV. Investment Policy Statement and Benchmark Update

Mr. Alec Stais reminded the board that the broad IPS language had been changed a few years ago in light of the asset/liability study. He noted that a few remaining changes to the IPS are still necessary in order for the IPS to align with the new asset allocation adopted by the board in 2016, including small changes to some of the sub-asset class benchmarks. He presented updated IPS language for the board to consider.

On a motion by Mr. Mullaney which was seconded by Ms. Reback, excluding Ms. Hammond, who abstained, it was unanimously VOTED: that the Employees' Retirement System of the State of Rhode Island adopt the proposed Defined Benefit Investment Policy Statement and Benchmark adjustments.

V. 529 Review, Capital Cities

Ms. Tiffany Spudich provided background on her firm and briefly described its relationship with Rhode Island's 529 program. She explained that Capital Cities is not currently recommending any changes to the program's investment menu, but they will be closely monitoring the 2017 tax reform's impact on other programs across the industry. Ms. Spudich summarized the structure of the investment products offered across both the direct and advisor 529 plans. She reviewed the program's individual portfolios' menu and reminded the board of the upcoming name change to the Invesco Global Sustainable Equity Portfolio. Ms. Spudich then overviewed the target risk and aged-based portfolios' menu. She referenced a graphic that compares Rhode Island's age-based glide path to that of Morningstar's peer group. Ms. Spudich explained the investment manager qualitative and quantitative review processes. She noted that overall the portfolio investment lineup was in good shape, but noted that three underlying funds—Diversified Dividend, International Growth, and Global Growth Funds—should be monitored. She elaborated on the comparative fee charts published in the Capital Cities meeting materials, describing efforts to continue reducing fees beyond what is already considered to be a relatively low-cost program. Ms. Spudich concluded by recommending a change to the IPS language to reflect the changes to 529 plans made in the recent tax reform.

The Board asked questions.

On a motion by Mr. Costello which was seconded by Ms. Reback, it was unanimously **VOTED: to** implement the proposed update to the Investment Policy Statement for the Rhode Island Tuition Savings Program (CollegeBound Saver and CollegeBound 529).

VI. 401/457 Review, TIAA

Mr. David Iden reviewed TIAA's Rhode Island member engagement and outreach statistics during the first calendar quarter. He noted the recent attention that has been given to the 457 multi-vendor coordinator implementation and referenced the vendor-agnostic Retirement@work website. Mr. Larry Brown referenced the Market Values for the 401a plan as of May 31. He noted that the Vanguard Total Bond Market Index Admiral has qualified for the cheaper share class, resulting in a change from 5 to 4 basis points. He also pointed out that roughly 96% of the 401a assets are indexed. Mr. Brown summarized performance across TIAA's Rhode Island 401a and 457 plans.

The Board asked questions.

VII. Legal Counsel Report

There was no legal counsel report

VIII.Chief Investment Officer Report

Mr. Stais reviewed the Plan's fiscal year-to-date performance, breaking down returns at the functional and asset class levels.

The Board asked questions.

IX. Treasurer's General Comments

Treasurer Magaziner noted the Plan's outperformance relative to the 60/40 benchmark and the plan benchmark.

On a motion by Mr. Mullaney and seconded by Ms. Maxfield, it was unanimously **VOTED: to adjourn** the meeting at 10:42 AM.

Respectfully submitted,

Seth Magaziner, General Treasurer



Section III.

Staff Summary



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

Seth Magaziner

General Treasurer August 16, 2018

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 July 31, 2018.

Employees' Retirement System of Rhode Island Composite Reporting Investment Valuation July 31, 2018

Asset Class	Base Market Value
Grand Total	8,402,331,369
CASH EQUIVALENT*	356,919,361
EQUITY HEDGE FUNDS**	259,441,175
GLOBAL PUBLIC EQUTIY	3,934,295,142
CREDIT	346,030,553
INFLATION-LINKED BDS	193,946,624
PRIVATE EQUITY**	633,032,970
REAL ESTATE**	583,275,482
REAL RET HEDGE FUNDS**	284,335,781
INFRASTRUCTURE**	308,443,442
US TRADITIONAL FIXED	892,985,794
CPC PROGRAM	609,625,045

Plan Allocations	%	Base Market Value
Grand Total	100.00%	8,402,331,369
STATE EMP RET PLAN	74.65%	6,272,411,851
MUNI EMP RET PLAN	18.69%	1,570,629,532
TEACHER'S SURVIVOR BENEFIT	3.92%	329,317,457
STATE POLICE RET PL	1.67%	140,072,975
JUDICIAL RET PLAN	0.88%	74,128,899
NON-CONTRIB JUD RET	0.01%	788,503
NON-CONT ST POL RET	0.18%	14 982 152

^{*} 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.

Investment Accounting Manager

^{**} 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.

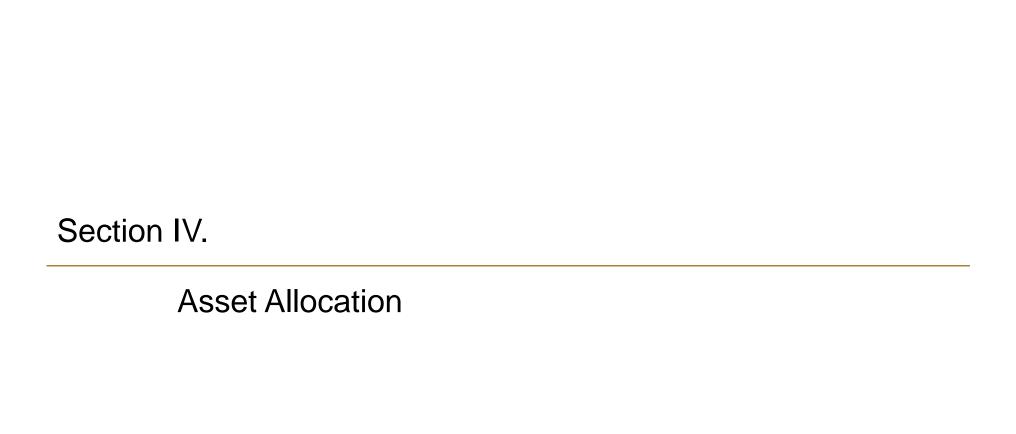
Portfolio Highlights

July 2018

The Plan returned 1.51%, net of fees, during the month of July, outperforming the Total Plan benchmark return of 1.31%. The positive performance was driven by the Growth and Income buckets, which earned 2.65% and 2.07%, respectively. The Public Growth aggregate asset class was the portfolio's top contributor, earning 3.05% and outperforming the MSCI ACWI Index, which returned 3.02%. This outperformance was due largely in part to the portfolio's QVM factor-tilt allocation, which returned 3.48% and outperformed its benchmark, the MSCI World Index, by 36 basis points. The total portfolio value increased by approximately \$103.2 million as the investment portfolio returned \$125.2 million and \$27.1 million of transfers were made to meet pension payroll in excess of pension contributions.

Calendar year-to-date the portfolio's 2.25% net return outperformed the 60/40 return of 0.97%, as well as the strategic benchmark return of 1.81%. Over this period, the total portfolio value has decreased by \$18.6 million, with net investment gains of \$185.6 million and \$204.2 million of transfers to meet pension payroll.

Over a 3-year time frame, the ERSRI portfolio outperformed, earning an annualized return of 6.68% net of fees versus the plan benchmark of 6.34% and the 60/40 portfolio which earned 6.06%. Over a 5-year time frame, the ERSRI portfolio earned an annualized return of 6.95% net of fees, outperforming the plan benchmark return of 6.71% and 60/40 benchmark, which posted 6.41%.



Asset Summary

Balance Date: 7/31/2018



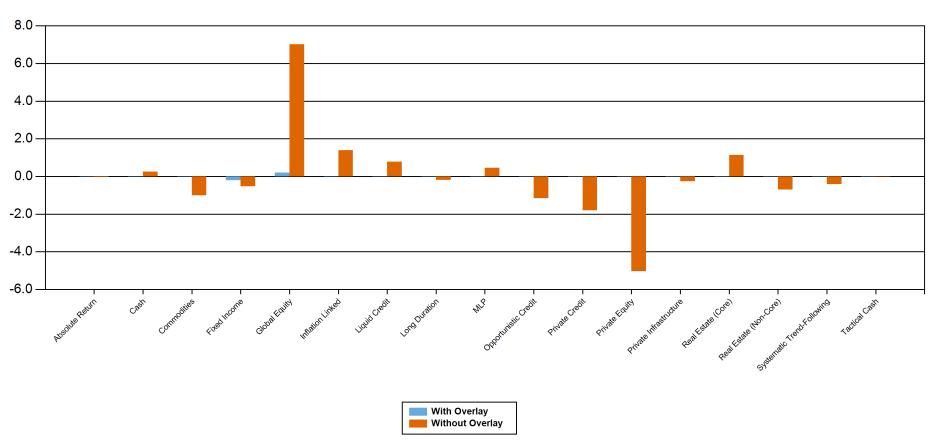
Asset Class	Physical E	xposure	Synthetic Ex	posure	Net Po	sition	Overlay	<u>Target</u>	Policy Ta	arget
Total Market Value	8,397.1	100.0 %	0.0	0.0 %	8,397.1	100.0 %	8,397.2	100.0 %	8,397.2	100.00 %
Cash	21.5	0.3 %	-20.9	-0.2 %	0.6	0.0 %	0.5	0.0 %	0.0	0.00 %
Cash	21.5	0.3 %	-20.9	-0.2 %	0.6	0.0 %	0.5	0.0 %	0.0	0.00 %
Equity	4,450.5	53.0 %	-39.0	-0.5 %	4,411.5	52.5 %	4,393.9	52.3 %	4,282.6	51.00 %
Global Equity	3,948.8	47.0 %	-39.0	-0.5 %	3,909.8	46.6 %	3,892.2	46.4 %	3,358.9	40.00 %
Private Equity	501.8	6.0 %	0.0	0.0 %	501.8	6.0 %	501.8	6.0 %	923.7	11.00 %
Fixed	1,904.0	22.7 %	59.9	0.7 %	1,963.8	23.4 %	1,981.6	23.6 %	1,931.4	23.00 %
Fixed Income	921.7	11.0 %	59.9	0.7 %	981.6	11.7 %	999.4	11.9 %	965.7	11.50 %
Inflation Linked	201.4	2.4 %	0.0	0.0 %	201.4	2.4 %	201.4	2.4 %	84.0	1.00 %
Liquid Credit	359.7	4.3 %	0.0	0.0 %	359.7	4.3 %	359.7	4.3 %	293.9	3.50 %
Long Duration	320.3	3.8 %	0.0	0.0 %	320.3	3.8 %	320.3	3.8 %	335.9	4.00 %
Private Credit	100.9	1.2 %	0.0	0.0 %	100.9	1.2 %	100.9	1.2 %	251.9	3.00 %
Other	2,021.2	24.1 %	0.0	0.0 %	2,021.2	24.1 %	2,021.2	24.1 %	2,183.3	26.00 %
Absolute Return	542.6	6.5 %	0.0	0.0 %	542.6	6.5 %	542.6	6.5 %	545.8	6.50 %
Commodities	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	84.0	1.00 %
MLP	164.9	2.0 %	0.0	0.0 %	164.9	2.0 %	164.9	2.0 %	126.0	1.50 %
Opportunistic Credit	28.8	0.3 %	0.0	0.0 %	28.8	0.3 %	28.8	0.3 %	126.0	1.50 %
Private Infrastructure	146.5	1.7 %	0.0	0.0 %	146.5	1.7 %	146.5	1.7 %	167.9	2.00 %
Real Estate (Core)	432.0	5.1 %	0.0	0.0 %	432.0	5.1 %	432.0	5.1 %	335.9	4.00 %
Real Estate (Non-Core)	151.3	1.8 %	0.0	0.0 %	151.3	1.8 %	151.3	1.8 %	209.9	2.50 %
Systematic Trend-Following	302.0	3.6 %	0.0	0.0 %	302.0	3.6 %	302.0	3.6 %	335.9	4.00 %
Tactical Cash	253.0	3.0 %	0.0	0.0 %	253.0	3.0 %	253.0	3.0 %	251.9	3.00 %

Asset Summary

Balance Date: 7/31/2018



Percent Deviation from Overlay Target



Total Absolute Notional Value: 98.8 (USD)

Asset Summary

Balance Date: 7/31/2018



		al Market Value Fauity Market Value								
<u>Manager</u>	<u>Total Market</u>	<u>Value</u>	Equity Market	<u>Value</u>	Fixed Market	<u>Value</u>	Other Market	<u>Value</u>	Cash Balance	
Total Assets	8,397.2	100.0 %	4,450.5	53.0 %	1,904.0	22.7 %	2,021.2	24.1 %	21.5	0.3 %
Cash	21.5	0.3 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	21.4	0.3 %
Cash Acct (Pooled Trust)	17.8	0.2 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	17.7	0.2 %
Municipal EE's Retirement Plan	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Russell Overlay	3.7	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	3.7	0.0 %
State EE's Retirement Plan	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Equity	4,450.6	53.0 %	4,450.5	53.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Global Equity	3,948.8	47.0 %	3,948.8	47.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Global Equity Transition	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
QVM Tilt	1,265.6	15.1 %	1,265.6	15.1 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Rhode Island Transition Acct	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Shott Capital	0.3	0.0 %	0.3	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
SSgA Emerging Mkts	444.0	5.3 %	444.0	5.3 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
SSgA MSCI Canada	97.0	1.2 %	97.0	1.2 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
SSgA MSCI EAFE	790.8	9.4 %	790.8	9.4 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
SSgA Russell 3000	1,351.1	16.1 %	1,351.1	16.1 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Private Equity	501.8	6.0 %	501.8	6.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Private Equity	501.8	6.0 %	501.8	6.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %
Fixed	1,904.0	22.7 %	0.0	0.0 %	1,904.0	22.7 %	0.0	0.0 %	0.0	0.0 %
Fixed Income	921.7	11.0 %	0.0	0.0 %	921.7	11.0 %	0.0	0.0 %	0.0	0.0 %
MacKay Shields Core	454.7	5.4 %	0.0	0.0 %	454.7	5.4 %	0.0	0.0 %	0.0	0.0 %
Pyramis Core	467.0	5.6 %	0.0	0.0 %	467.0	5.6 %	0.0	0.0 %	0.0	0.0 %
Inflation Linked	201.4	2.4 %	0.0	0.0 %	201.4	2.4 %	0.0	0.0 %	0.0	0.0 %
Brown Brothers Harriman-GILBS	201.4	2.4 %	0.0	0.0 %	201.4	2.4 %	0.0	0.0 %	0.0	0.0 %
Liquid Credit	359.7	4.3 %	0.0	0.0 %	359.7	4.3 %	0.0	0.0 %	0.0	0.0 %
PIMCO	186.5	2.2 %	0.0	0.0 %	186.5	2.2 %	0.0	0.0 %	0.0	0.0 %
WAMCO	173.2	2.1 %	0.0	0.0 %	173.2	2.1 %	0.0	0.0 %	0.0	0.0 %
Long Duration	320.3	3.8 %	0.0	0.0 %	320.3	3.8 %	0.0	0.0 %	0.0	0.0 %
Mackay Long Duration	160.3	1.9 %	0.0	0.0 %	160.3	1.9 %	0.0	0.0 %	0.0	0.0 %
WAMCO Long Duration	160.0	1.9 %	0.0	0.0 %	160.0	1.9 %	0.0	0.0 %	0.0	0.0 %
Private Credit	100.9	1.2 %	0.0	0.0 %	100.9	1.2 %	0.0	0.0 %	0.0	0.0 %
Private Credit	100.9	1.2 %	0.0	0.0 %	100.9	1.2 %	0.0	0.0 %	0.0	0.0 %
Other	2,021.2	24.1 %	0.0	0.0 %	0.0	0.0 %	2,021.2	24.1 %	0.0	0.0 %
Tactical Cash	253.0	3.0 %	0.0	0.0 %	0.0	0.0 %	253.0	3.0 %	0.0	0.0 %
ERSRI SMA CASH	253.0	3.0 %	0.0	0.0 %	0.0	0.0 %	253.0	3.0 %	0.0	0.0 %
Absolute Return	542.6	6.5 %	0.0	0.0 %	0.0	0.0 %	542.6	6.5 %	0.0	0.0 %
Capula Global Relative Value	72.1	0.9 %	0.0	0.0 %	0.0	0.0 %	72.1	0.9 %	0.0	0.0 %
Claren Road Cr Fund	0.1	0.0 %	0.0	0.0 %	0.0	0.0 %	0.1	0.0 %	0.0	0.0 %
D.E. Shaw Composite Fund	111.0	1.3 %	0.0	0.0 %	0.0	0.0 %	111.0	1.3 %	0.0	0.0 %
Davidson Kempner	87.8	1.0 %	0.0	0.0 %	0.0	0.0 %	87.8	1.0 %	0.0	0.0 %
Elliot Associates, LP	107.9	1.3 %	0.0	0.0 %	0.0	0.0 %	107.9	1.3 %	0.0	0.0 %
Emot / tooodiatoo, Ei	107.5	1.0 /0	0.0	0.0 /0	0.0	0.0 /0	107.0	1.0 /0	0.0	0.0 /0

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All rights reserved. All market values in millions. Numbers may not add due to rounding. Daily values are provided by custodian and are unaudited. Balances and exposures include Russell Overlay accruals and pending trades.

Rhode Island - Rhode Island

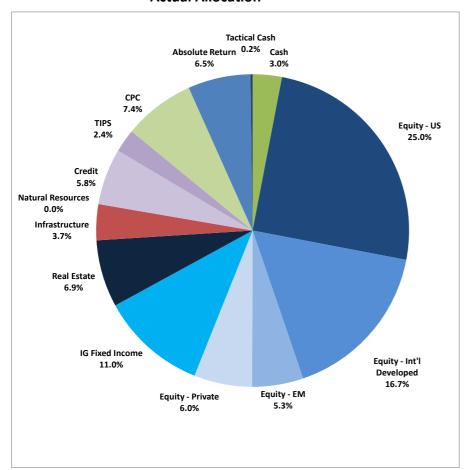
Asset Summary

Balance Date: 7/31/2018

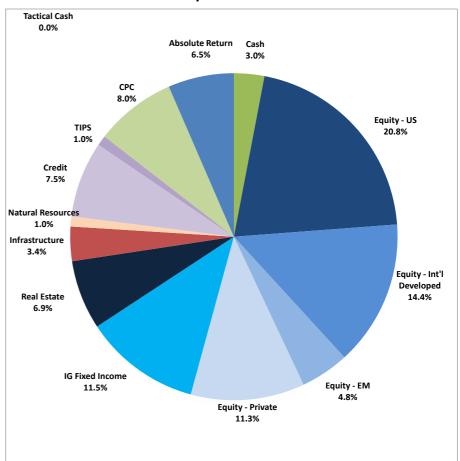


<u>Manager</u>	Total Market V	'alue	Equity Market	<u>Value</u>	Fixed Market \	Fixed Market Value		Other Market Value		Cash Balance	
Graham Global	61.2	0.7 %	0.0	0.0 %	0.0	0.0 %	61.2	0.7 %	0.0	0.0 %	
Indus Asia Pacific Fund	0.3	0.0 %	0.0	0.0 %	0.0	0.0 %	0.3	0.0 %	0.0	0.0 %	
Luxor Capital Partners	1.1	0.0 %	0.0	0.0 %	0.0	0.0 %	1.1	0.0 %	0.0	0.0 %	
Viking Global Equities	61.9	0.7 %	0.0	0.0 %	0.0	0.0 %	61.9	0.7 %	0.0	0.0 %	
Winton Futures Ltd Fund	39.1	0.5 %	0.0	0.0 %	0.0	0.0 %	39.1	0.5 %	0.0	0.0 %	
Commodities	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	
RI Commodities	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	0.0	0.0 %	
MLP	164.9	2.0 %	0.0	0.0 %	0.0	0.0 %	164.9	2.0 %	0.0	0.0 %	
Harvest Fund Advisor	164.9	2.0 %	0.0	0.0 %	0.0	0.0 %	164.9	2.0 %	0.0	0.0 %	
Opportunistic Credit	28.8	0.3 %	0.0	0.0 %	0.0	0.0 %	28.8	0.3 %	0.0	0.0 %	
Opportunistic Private Credit	28.8	0.3 %	0.0	0.0 %	0.0	0.0 %	28.8	0.3 %	0.0	0.0 %	
Private Infrastructure	146.5	1.7 %	0.0	0.0 %	0.0	0.0 %	146.5	1.7 %	0.0	0.0 %	
Priv Listed Infrastructure	146.5	1.7 %	0.0	0.0 %	0.0	0.0 %	146.5	1.7 %	0.0	0.0 %	
Real Estate (Core)	432.0	5.1 %	0.0	0.0 %	0.0	0.0 %	432.0	5.1 %	0.0	0.0 %	
Core Real Estate	432.0	5.1 %	0.0	0.0 %	0.0	0.0 %	432.0	5.1 %	0.0	0.0 %	
Real Estate (Non-Core)	151.3	1.8 %	0.0	0.0 %	0.0	0.0 %	151.3	1.8 %	0.0	0.0 %	
Non-Core Real Estate	151.3	1.8 %	0.0	0.0 %	0.0	0.0 %	151.3	1.8 %	0.0	0.0 %	
Systematic Trend-Following	302.0	3.6 %	0.0	0.0 %	0.0	0.0 %	302.0	3.6 %	0.0	0.0 %	
CPC AP LLC	102.5	1.2 %	0.0	0.0 %	0.0	0.0 %	102.5	1.2 %	0.0	0.0 %	
CPC CB LLC	98.6	1.2 %	0.0	0.0 %	0.0	0.0 %	98.6	1.2 %	0.0	0.0 %	
CPC QIS LLC	100.9	1.2 %	0.0	0.0 %	0.0	0.0 %	100.9	1.2 %	0.0	0.0 %	

Actual Allocation

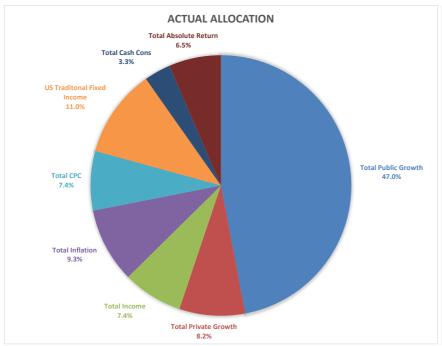


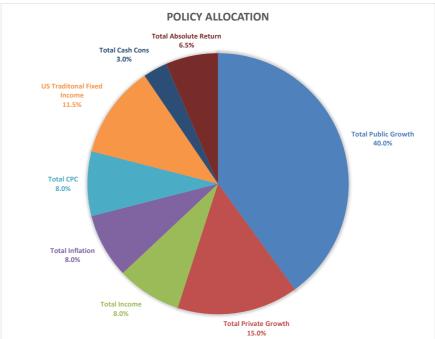
Policy Allocation



ERSRI Portfolio

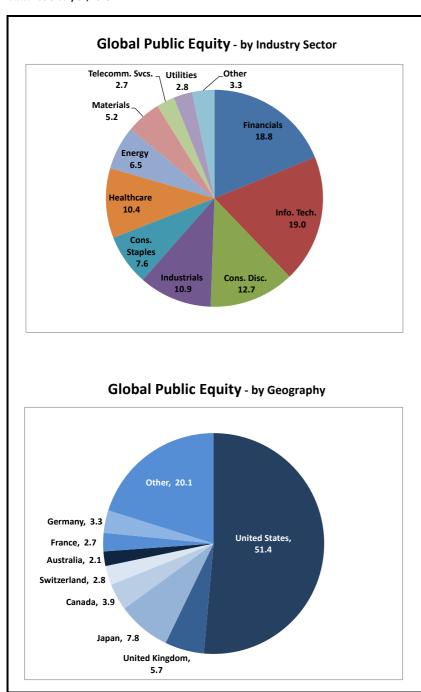
%%% - as of July 31, 2018

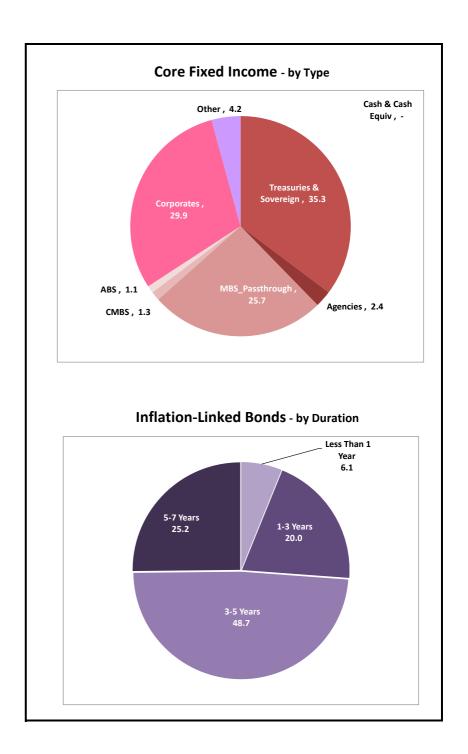




ERSRI Asset Allocation Public-Asset Portfolios

%%% - as of July 31, 2018



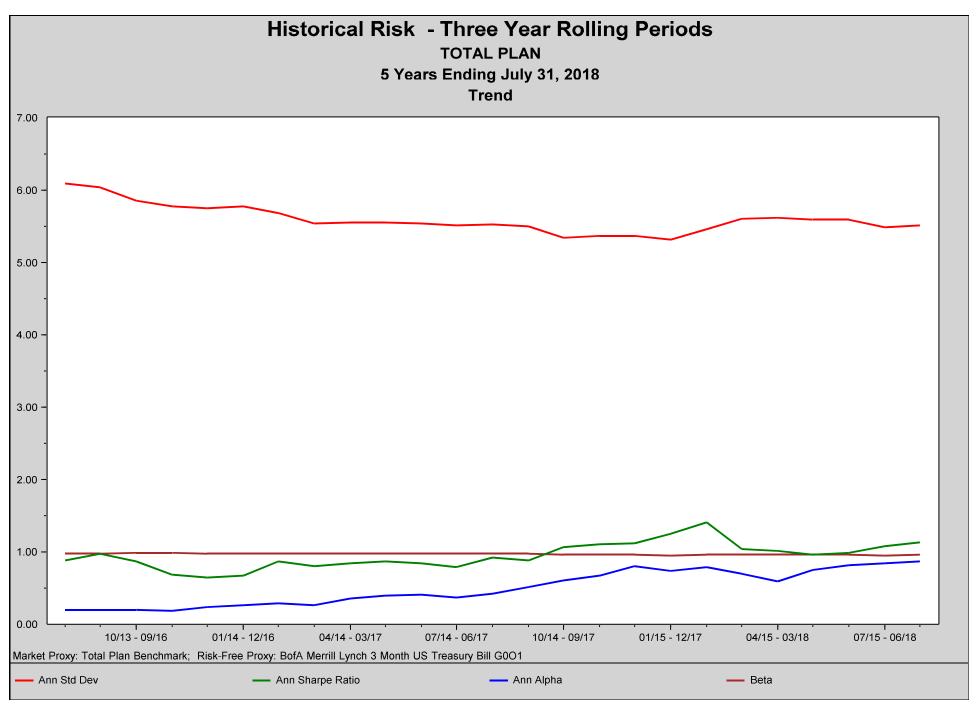


ERSRI Asset Allocation Tracking

			ASSEL AHOCALION I	(a) Strategic	(b) Actual						
Functional	Aggregate	Aggregate									
Bucket	Asset Class	Allocation	Asset Class	Benchmark	exposure as of						
Ducket	Asset Class	Weight		Weight	07/31/18	(b) - (a)					
	Global	40.0%	US Equity	20.8%	25.0%	4.2%					
GROWTH	Equity	10.070	International Developed Equity	14.4%	16.7%	2.3%					
			EM Equity	4.8%	5.3%	0.5%					
	Private Growth	15.0%	PE	11.0%	6.0%	-5.0%					
			Non-core RE	2.5%	1.8%	-0.7%					
			Opp Private Credit	1.5%	0.3%	-1.2%					
			HY Infra	1.5%	2.0%	0.5%					
INCOME	Income	8.0%	8.0%	REITs	0.0%	0.0%	0.0%				
INCOME	liicome			0.070	8.0%	0.070	0.070	Liquid Credit	3.5%	4.3%	0.8%
						Private Credit	3.0%	1.2%	-1.8%		
	СРС	8.0%	Treasury Duration	4.0%	3.8%	-0.2%					
	- C. C	0.070	Systematic Trend	4.0%	3.6%	-0.4%					
	Inflation	8.0%	Core RE	4.0%	5.1%	1.1%					
	Protection	0.070	Private Infra TIPs	2.0%	1.7%	-0.3%					
			Nat' Resources	1.0% 1.0%	2.4% 0.0%	1.4% -1.0%					
STABILITY	Volatility Protection	21.0%	IG Fixed Income	11.5%	11.0%	-0.5%					
			Absolute Return	6.5%	6.5%	0.0%					
			Cash	3.0%	3.0%	0.0%					
_	Short-term	n/a	ST Tactical Cash	0.0%	0.2%	0.2%					
OTHER	Tactical	n/a	Russell Overlay	0.0%	0.0%	0.0%					
TOTAL	Total	100.0%		100.0%	100.0%	0.0%					



Risk Overview



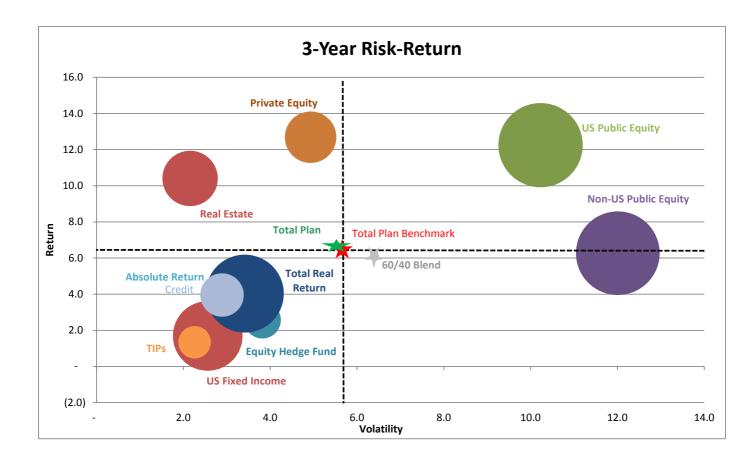
Risk Exposures 3 Years Ending July 31, 2018

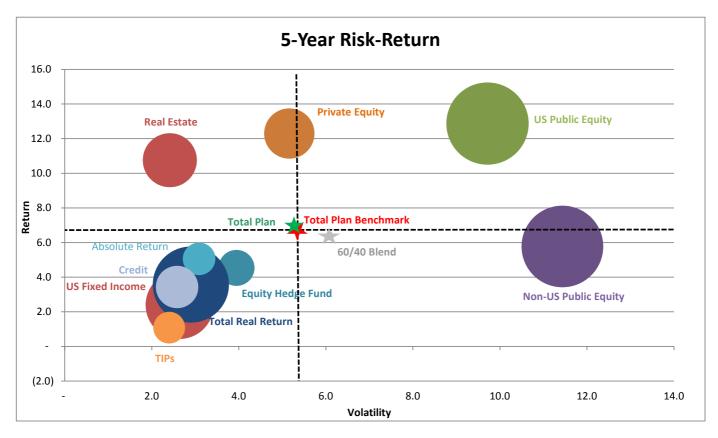
	Annualized Return	Ann Std Dev	Beta (ACWI)	Beta (BC AGG)	Beta (GSCI)	Beta (CPI)
US Public Equity	12.25	10.23	0.9	1 -0.49	0.20	1.57
Non-US Public Equity	6.27	12.01	1.0	9 0.27	0.25	2.82
Equity Hedge Funds	2.57	3.82	0.1	9 -0.43	0.06	0.99
TOTAL PRIVATE EQUITY	12.12	4.73	-0.0	9 0.26	0.03	0.33
Traditional Fixed Income	1.69	2.56	0.0	2 0.98	-0.01	0.46
TOTAL REAL ESTATE	10.41	2.15	-0.0	2 0.19	-0.02	0.23
Real Return Hedge Funds	4.30	2.42	0.0	8 -0.34	0.04	0.89
Inflation-Linked Bonds	1.34	2.26	0.0	1 0.70	0.01	0.75
Cash	1.13	0.24	0.0	1 0.01	0.00	0.07
Russell Overlay Fd	0.02	0.07	-0.0	0.00	-0.00	-0.04
TOTAL PLAN	6.68	5.52	0.5	1 0.06	0.14	1.34

5 Years Ending July 31, 2018 Comparison

	TOTAL PLAN	Total Plan Benchmark	60/40 Blend
Ann Return	6.95	6.71	6.41
Ann Ex Ret vs Mkt	0.22		
Ann Tracking Error	0.94		
Ann Std Dev	5.29	5.32	6.08
Beta	0.98		
R-Squared	0.97		
Ann Alpha	0.36		
Ann Sharpe Ratio	1.21	1.17	0.98

% - as of July 31, 2018





3 Years Ending July 31, 2018 Correlation

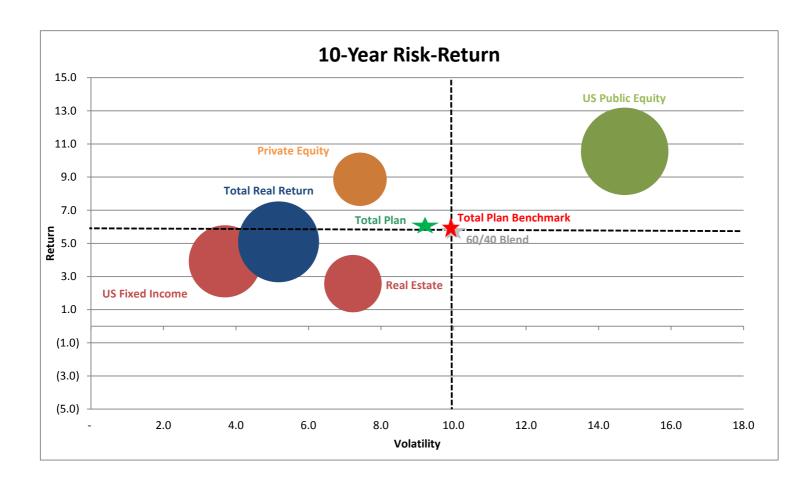
Ann Return

	US Pub EQ	Non-US Pub EQ	Eq HF	PE	FI	RE	RR HF	TIPS	Cash	Overlay	Total
US Pub	1.00										
Non-US P	0.81	1.00									
Eq HF	0.49	0.50	1.00								
PE	-0.19	-0.16	-0.07	1.00							
FI	-0.02	0.17	-0.21	0.12	1.00						
RE	0.02	-0.16	0.01	0.10	0.19	1.00					
RR HF	0.42	0.26	0.44	-0.08	-0.31	0.10	1.00				
TIPS	-0.04	0.16	-0.27	0.08	0.81	0.23	-0.13	1.00			
Cash	0.24	0.34	0.42	0.07	0.13	0.10	0.18	0.05	1.00		
Overlay	-0.03	-0.15	-0.09	0.22	-0.19	0.22	0.05	-0.19	0.06	1.00	
Total	0.94	0.95	0.53	-0.11	0.14	-0.04	0.37	0.12	0.36	-0.11	1.00
Tot BM	0.92	0.96	0.48	-0.18	0.18	-0.08	0.28	0.15	0.31	-0.14	0.98

5 Years Ending July 31, 2018 Correlation

Ann Return

	US Pub Eq	Non-US Pub Eq	Eq HF	PE	FI	RE	RR HF	TIPS	Cash	Overlay	Total
US Pub	1.00										
Non-US P	0.78	1.00									
Eq HF	0.55	0.49	1.00								
PE	-0.01	-0.02	0.05	1.00							
FI	0.01	0.15	-0.10	-0.08	1.00						
RE	0.08	0.00	0.04	-0.10	0.32	1.00					
RR HF	0.38	0.26	0.54	-0.03	-0.07	0.02	1.00				
TIPS	-0.01	0.23	-0.15	-0.09	0.82	0.36	-0.01	1.00			
Cash	0.14	0.09	0.10	-0.03	-0.08	-0.11	0.13	-0.17	1.00		
Overlay	-0.33	-0.26	-0.37	-0.03	-0.07	0.12	-0.14	-0.05	0.02	1.00	
Total	0.93	0.94	0.57	0.04	0.16	0.08	0.37	0.18	0.12	-0.32	1.00
Tot BM	0.91	0.95	0.53	-0.03	0.17	0.03	0.31	0.19	0.10	-0.31	0.98



10 Years Ending July 31, 2018 Correlation

Ann Return

	US Pub Eq	Non-US Pub Eq	Eq HF	PE	FI	RE	RR HF	TIPS	Cash	Overlay	Total
US Pub	1.00										
Non-US P											
Eq HF											
PE	0.17			1.00							
FI	0.32			-0.04	1.00						
RE	0.00			0.23	-0.18	1.00					
RR HF											
TIPS											
Cash	-0.08			-0.09	-0.17	0.01			1.00		
Overlay											
Total	0.96			0.23	0.49	0.00			-0.12		1.00
Tot BM	0.95			0.16	0.49	-0.02			-0.12		0.99



Performance Overview

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES 7/31/2018

						-		Annua	llized		
Account Name Benchmark Name	Market Value	% of Total	Month	YTD	Fiscal YTD	1 Year	3 Years	5 Years	10 Years	ITD	Inception Date
US Public Equity Russell 3000 Index	1,351,088,094	16	3.33 3.32	6.63 6.64	3.33 3.32	16.36 <i>16.39</i>	12.25 12.18	12.87 12.83	10.55 10.68	8.58 8.58	8/1/2007 8/1/2007
Non-US Public Equity Total International Equity BM	1,331,768,714	16	2.36 2.39	-1.64 -1.46	2.36 2.39	5.88 5.94	6.27 6.00	5.77 5.59		8.79 8.07	5/1/2009 5/1/2009
QVM Tilt MSCI World Net Dividend Index	1,265,587,906	15	3.48 3.12	3.98 3.57	3.48 3.12	13.27 11.88				14.29 13.67	10/1/2015 10/1/2015
Total Public Growth MSCI All Country World Net Index	3,948,444,714	47	3.05 3.02	2.84 2.57	3.05 3.02	11.80 <i>10.97</i>	9.32 8.95	9.35 9. <i>04</i>	7.61 <i>6.3</i> 9	4.98	7/1/2000 7/1/2000
Private Equity ILPA All Fds BM 1Q Lag 2	504,443,464	6	0.56 <i>0.5</i> 6	7.97 8.37	0.56 <i>0.56</i>	18.39 17.51	12.69 11.77	12.30 12.88	8.87 11.58	9.52	2/1/1989 2/1/1989
Non Core Real Estate	151,296,943	2	0.00	17.35	0.00	25.68				24.69	7/1/2017
Opportunistic Private Credit ILPA Distressed BM 1Q Lag	28,898,249	0	-0.31 -0.31	6.63 3.71	-0.31 -0.31	12.64 10.16				17.13 9.35	7/1/2017 7/1/2017
Total Private Growth Private Growth Benchmark	684,638,657	8	0.40 <i>0.41</i>	9.86 7.37	0.40 <i>0.41</i>	19.55				18.61	7/1/2017 7/1/2017
TOTAL GROWTH COMPOSITE Total Growth Composite BM	4,633,083,371	55	2.65 2.31	3.89 3.97	2.65 2.31	12.94				14.41	7/1/2017 7/1/2017
Harvest Fund Advisor Alerian MLP Index	164,912,501	2	6.60 6.58	9.46 5.91	6.60 <i>6.58</i>	5.62 <i>0.40</i>	-1.67 -2.85			-4.02 -6.38	1/1/2015 1/1/2015
Liquid Credit Liquid Credit BM (50% BoA US HY/50% CS LL)	359,183,774	4	0.69 <i>0.97</i>	2.87 2.21	0.69 <i>0.</i> 97	3.67 3.60	3.95 <i>4.54</i>	3.43 <i>4.</i> 26		3.36 <i>4.19</i>	5/1/2013 5/1/2013
Private Credit S&P LSTA Lev Loans + 3%	100,858,922	1	0.00 <i>0.66</i>	1.73 <i>4.6</i> 9	0.00 <i>0.66</i>	5.31 7.41				4.89 7.49	7/1/2017 7/1/2017
TOTAL INCOME COMPOSITE Income Aggregate BM	624,955,197	7	2.07 1.91	4.27 4.05	2.07 1.91	4.20 <i>4.68</i>				4.99 <i>5.20</i>	7/1/2017 7/1/2017
CPC Long Duration Barclays US Treasury LT Index	320,250,238	4	-1.54 -1.47	-4.61 <i>-4.4</i> 2	-1.54 -1.47	-1.48 -0.98				-2.79 -2.26	6/1/2017 6/1/2017
CPC Trend Following Credit Suisse Liquid Alt Beta	298,843,151	4	-1.05 -1.30	-12.32 -15.96	-1.05 -1.30	-2.95 -11.88				-2.00 -8.27	6/1/2017 6/1/2017
Total Crisis Protection 50/50 CPC Custom BM	619,093,389	7	-1.30 <i>-1.</i> 39	-7.97 -9.89	-1.30 <i>-1.</i> 39	-1.56 -6.06				-1.82 <i>-4.</i> 82	6/1/2017 6/1/2017

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES 7/31/2018

						-		Annua	alized		
Account Name Benchmark Name	Market Value	% of Total	Month	YTD	Fiscal YTD	1 Year	3 Years	5 Years	10 Years	ITD	Inception Date
Priv Listed Infrastructure CPI + 4% 1 Mo Lag	146,973,893	2	0.35 <i>0.4</i> 8	9.16 <i>4.42</i>	0.35 <i>0.4</i> 8	11.64 <i>6.87</i>	11.83			9.02	3/1/2015 3/1/2015
Core Real Estate NFI-ODCE BM 2	431,978,539	5	0.00 <i>0.00</i>	4.31 3.85	0.00 <i>0.00</i>	6.69 7.11				7.00 <i>6.55</i>	7/1/2017 7/1/2017
Inflation-Linked Bonds Total Inflation Linked Custom	201,427,666	2	-0.40 -0.39	-0.13 -0.18	-0.40 -0.39	0.65 <i>0.5</i> 5	1.34 1.39	1.09 1.27		3.47 3.47	11/1/2009 11/1/2009
Total Inflation Protection Inflation Protection Custom BM	780,380,098	9	-0.04 <i>-0.</i> 19	3.97 2.75	-0.04 <i>-0.19</i>	5.85 5.67				6.34 5.46	7/1/2017 7/1/2017
Absolute Return HFRI Fund of Funds Composite Index	543,782,444	6	0.21 0.24	3.72 0.92	0.21 <i>0.24</i>	6.45 <i>4.</i> 32				7.02 <i>4.</i> 96	7/1/2017 7/1/2017
Traditional Fixed Income Bloomberg Barclays U.S. Aggregate Bond Index	921,704,553	11	0.07 0.02	-1.69 -1.59	0.07 0.02	-0.74 -0.80	1.69 1.49	2.39 2.25	3.92 3.73	4.91 <i>4.77</i>	7/1/2000 7/1/2000
Total Cash and Other Funds	279,000,958	3	-0.04	1.90	-0.04	1.64	3.32	0.77		1.57	11/1/2012
Russell Overlay Fd	3,665,520	0	-0.01	0.03	-0.01	-0.02	0.02	-0.02		-0.06	9/1/2008
Total Volatility Protection Total Volitility Protection BM	1,744,487,954	21	0.09 <i>0.11</i>	0.60 <i>-0.44</i>	0.09 <i>0.11</i>	1.80				2.24	7/1/2017 7/1/2017
TOTAL STABILITY COMPOSITE Total Stability Composite BM	3,143,961,441	37	-0.21 <i>-0.28</i>	-0.40 <i>-1.81</i>	-0.21 <i>-0.28</i>	1.53				2.12	7/1/2017 7/1/2017
TOTAL PLAN Total Plan Benchmark 60/40 Blend	8,402,331,369	100	1.51 1.32 1.82	2.25 1.82 0.97	1.51 1.32 1.82	7.82 7.24 6.22	6.68 6.34 6.06	6.95 6.71 6.41	6.00 5.85 5.67	5.12	7/1/2000 7/1/2000 7/1/2000
Total Plan ex PE,RE & Priv Inf Total Plan BM ex PE RE	7,037,881,359	84	1.76 <i>1.77</i>	1.29 1.61	1.76 1.77	6.76 6.73	5.94 5.83	6.28 6.24	5.80 5. <i>5</i> 2	6.39	4/1/1996 4/1/1996



Report ID: IPM0005

Reporting Currency: USD

END NOTES

7/31/2018

1 RI6G23000000 TOTAL PLAN

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

40% MSCI ACWI Net

11% ILPA All Funds Index

11.5% Barclays Agg

1% Barclays 1-10 Year TIPs Index

4% Barclays Long Duration US Treasury Index

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

3% S&P LSTA Lev Loans + 3%

2.5% ODCE + 2.5%

1.5% ILPA/Cambridge Distressed Securities Index

6.5% HFRI FOF Composite

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

4% NFI-ODCE Index

2% CPI + 4%

1.5% Alerian MLP Total Return

4% CS Managed Futures 18% Vol Index

1% BB Commodities Index

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

7/31/2018

				Cumulative						
Account Name Benchmark Name	Market Value	% of Total	Month	5/1/2018 - 5/31/2018	4/1/2018 - 4/30/2018	YTD	2017	2016	2015	Inception Date
US Public Equity Russell 3000 Index	1,351,088,094	16	3.33 3.32	0.66 <i>0.65</i>	2.83 2.82	6.63 6.64	21.14 21.13	12.84 12.74	0.60 <i>0.48</i>	8/1/2007 8/1/2007
Non-US Public Equity Total International Equity BM	1,331,768,714	16	2.36 2.39	-2.13 -1.88	-2.21 -2.31	-1.64 -1.46	27.76 27.19	5.01 <i>4.50</i>	-5.77 -5.66	5/1/2009 5/1/2009
QVM Tilt MSCI World Net Dividend Index	1,265,587,906	15	3.48 3.12	-0.66 -0.05	0.57 0.63	3.98 3.57	23.36 22.40	7.58 7.51		10/1/2015 10/1/2015
Total Public Growth MSCI All Country World Net Index	3,948,444,714	47	3.05 3.02	-0.72 -0.54	0.27 <i>0.12</i>	2.84 2.57	24.11 23.97	8.78 7.86	-2.48 -2.36	7/1/2000 7/1/2000
Private Equity ILPA All Fds BM 1Q Lag 2	504,443,464	6	0.56 <i>0.5</i> 6	-0.10 2.72	2.85 0.00	7.97 8.37	19.69 <i>15.60</i>	9.19 <i>7.9</i> 9	7.08 7.18	2/1/1989 2/1/1989
Non Core Real Estate	151,296,943	2	0.00	0.55	14.07	17.35				7/1/2017
Opportunistic Private Credit ILPA Distressed BM 1Q Lag	28,898,249	0	-0.31 -0.31	0.20 <i>0.7</i> 2	-0.19 <i>0.00</i>	6.63 3.71				7/1/2017 7/1/2017
Total Private Growth Private Growth Benchmark	684,638,657	8	0.40 <i>0.41</i>	0.06 2.42	5.09 <i>0.03</i>	9.86 7.37				7/1/2017 7/1/2017
TOTAL GROWTH COMPOSITE Total Growth Composite BM	4,633,083,371	55	2.65 2.31	-0.60 <i>0.27</i>	0.99 <i>0.10</i>	3.89 3.97				7/1/2017 7/1/2017
Harvest Fund Advisor Alerian MLP Index	164,912,501	2	6.60 6.58	-1.05 -1.54	6.70 5.05	9.46 5.91	-5.26 -6.52	20.64 18.31	-31.01 -32.59	1/1/2015 1/1/2015
Liquid Credit Liquid Credit BM (50% BoA US HY/50% CS LL)	359,183,774	4	0.69 <i>0.97</i>	0.22 <i>0.</i> 22	-0.03 <i>0.09</i>	2.87 2.21	3.54 <i>4.60</i>	9.59 9.63	-1.29 <i>0.4</i> 9	5/1/2013 5/1/2013
Private Credit S&P LSTA Lev Loans + 3%	100,858,922	1	0.00 <i>0.66</i>	0.15 <i>0.51</i>	0.99 <i>0.4</i> 3	1.73 <i>4.69</i>				7/1/2017 7/1/2017
TOTAL INCOME COMPOSITE Income Aggregate BM	624,955,197	7	2.07 1.91	-0.11 <i>0.00</i>	1.76 1.15	4.27 4.05				7/1/2017 7/1/2017
CPC Long Duration Barclays US Treasury LT Index	320,250,238	4	-1.54 <i>-1.47</i>	0.22 <i>0.18</i>	2.14 2.12	-4.61 -4.42				6/1/2017 6/1/2017
CPC Trend Following Credit Suisse Liquid Alt Beta	298,843,151	4	-1.05 -1.30	1.64 1.98	-6.45 -2.21	-12.32 -15.96				6/1/2017 6/1/2017
Total Crisis Protection 50/50 CPC Custom BM	619,093,389	7	-1.30 <i>-1.</i> 39	0.90 <i>1.08</i>	-2.15 -0.05	-7.97 <i>-</i> 9.89				6/1/2017 6/1/2017

Total Plan ex PE,RE & Priv Inf

Total Plan BM ex PE RE

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES 7/31/2018

				Cumu	lative					
Account Name Benchmark Name	Market Value	% of Total	Month	5/1/2018 - 5/31/2018	4/1/2018 - 4/30/2018	YTD	2017	2016	2015	Inception Date
Priv Listed Infrastructure CPI + 4% 1 Mo Lag	146,973,893	2	0.35 <i>0.4</i> 8	0.04 <i>0.7</i> 2	0.48 <i>0.71</i>	9.16 <i>4.4</i> 2	12.45	13.35		3/1/2015 3/1/2015
Core Real Estate NFI-ODCE BM 2	431,978,539	5	0.00 0.00	0.62 1.97	0.19 <i>0.00</i>	4.31 3.85				7/1/2017 7/1/2017
Inflation-Linked Bonds Total Inflation Linked Custom	201,427,666	2	-0.40 -0.39	0.22 0.28	0.52 <i>0.46</i>	-0.13 -0.18	1.73 1.90	3.91 <i>4.01</i>	-0.26 -0.15	11/1/2009 11/1/2009
Total Inflation Protection Inflation Protection Custom BM	780,380,098	9	-0.04 <i>-0.1</i> 9	0.40 <i>0.7</i> 6	0.33 <i>0.41</i>	3.97 2.75				7/1/2017 7/1/2017
Absolute Return HFRI Fund of Funds Composite Index	543,782,444	6	0.21 0.24	0.15 -0.50	0.94 <i>0.71</i>	3.72 0.92				7/1/2017 7/1/2017
Traditional Fixed Income Bloomberg Barclays U.S. Aggregate Bond Index	921,704,553	11	0.07 0.02	-0.13 -0.12	0.59 <i>0.71</i>	-1.69 <i>-1.59</i>	3.99 3.54	3.15 2.65	0.25 <i>0.55</i>	7/1/2000 7/1/2000
Total Cash and Other Funds	279,000,958	3	-0.04	0.10	0.49	1.90	-1.64	3.33	0.03	11/1/2012
Russell Overlay Fd	3,665,520	0	-0.01	0.00	0.01	0.03	-0.09	0.06	0.00	9/1/2008
Total Volatility Protection Total Volitility Protection BM	1,744,487,954	21	0.09 <i>0.11</i>	0.00 -0.20	0.68 <i>0.64</i>	0.60 <i>-0.44</i>				7/1/2017 7/1/2017
TOTAL STABILITY COMPOSITE Total Stability Composite BM	3,143,961,441	37	-0.21 <i>-0.28</i>	0.27 <i>0.28</i>	0.03 <i>0.44</i>	-0.40 <i>-1.81</i>				7/1/2017 7/1/2017
TOTAL PLAN Total Plan Benchmark 60/40 Blend	8,402,331,369	100	1.51 1.32 1.82	-0.23 0.25 -0.37	0.67 0.31 0.36	2.25 1.82 0.97	14.48 14.29 15.41	7.35 6.42 5.92	-0.28 -0.25 -0.98	7/1/2000 7/1/2000 7/1/2000

1.76

1.77

84

-0.32

-0.40

0.28

0.48

1.29

1.61

14.66

14.46

6.97

6.13

-1.68

-1.64

4/1/1996

4/1/1996

7,037,881,359



Report ID: IPM0005

Reporting Currency: USD

END NOTES

7/31/2018

1 RI6G23000000	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			
		2014, 2013, 2012 - Calendar Years			
RI6G23000000	TOTAL PLAN	The current composition of the Total Plan Benchmark is as follows:			
1110023000000	TOTALTEAN	40% MSCI ACWI Net			
		11% ILPA All Funds Index			
		11.5% Barclays Agg			
		1% Barclays 1-10 Year TIPs Index			
		4% Barclays Long Duration US Treasury Index			
		3.5% Liquid Credit Custom (50% BoA HY/50% CS LL)			
		3% S&P LSTA Lev Loans + 3%			
		2.5% ODCE + 2.5%			
		1.5% ILPA/Cambridge Distressed Securities Index			
		6.5% HFRI FOF Composite			
		3.0% BofA Merrill Lynch US T-Notes 0-1 Yr			
		4% NFI-ODCE Index			
		2% CPI + 4%			
		1.5% Alerian MLP Total Return			
		4% CS Managed Futures 18% Vol Index			

1% BB Commodities Index



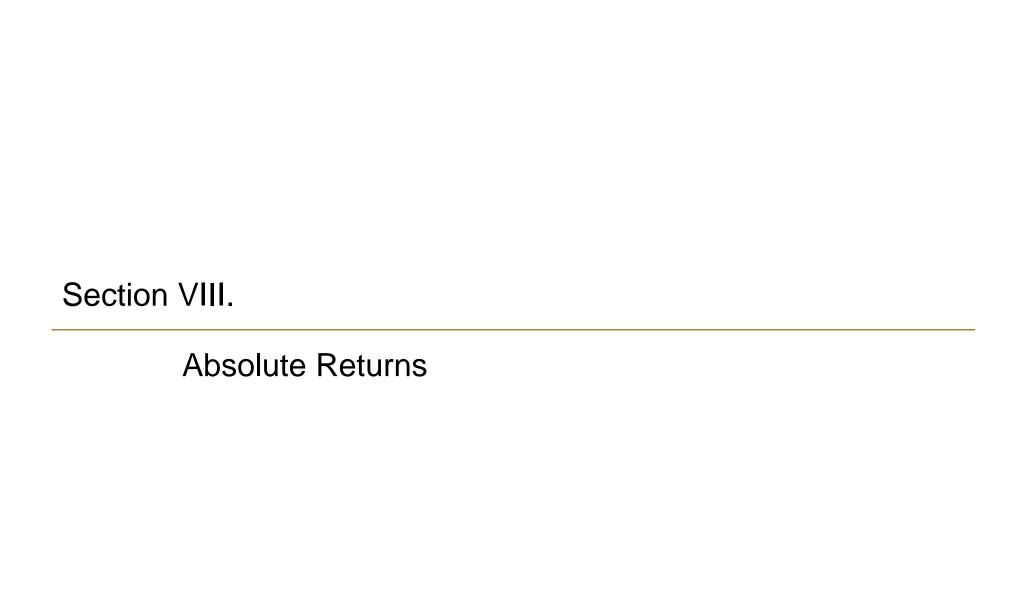
	CPC Returns CPC Program, July 31, 2018, %											
Annualized Annualized St Return (Since Annualized Std. Dev (Since Account Name MTD Return Inception) Dev (July '18) Inception)												
Total CPC Program	-1.30	-1.82	7.74	8.87								
CPC Trend	-1.05	-2.00	12.88	16.11								
CPC Long Duration	-1.54	-2.79	7.42	9.04								

	Portfolio Beta											
CPC Program, 07/31/2018, USD, Monte Carlo 1 Day94 Decay												
Market Monitor:												
Barclays Long Market Monitor: Market Monitor: Market Monitor: Market Monitor:												
	term bond Dollar Market Monitor: GSCI Non- IBOXHY S&P 500											
Account Name	Index Beta	Index Beta	Gold Beta	Energy Beta	Beta	INDEX Beta						
Total CPC Program	0.57	0.98	-0.33	-0.40	-0.02	0.27						
CPC Trend	PC Trend 0.52 1.60 -1.08 -0.59 1.66 0.67											
CPC Long Duration	0.62	0.39	0.36	-0.22	-1.58	-0.10						

	Portfolio Beta											
CPC Program, 07/31/2018, USD, Monte Carlo 1 Day94 Decay												
Market Monitor: Market Monitor: Market Monitor: Market Monitor: Market Monitor:												
	SG Trend US 10YR NOTE WTI Crude 90 Day T- Bench Global Russell 3000											
Account Name	Index Beta	(CBT) Beta	Oil Beta	Bill Beta	Equity D Beta	Index Beta						
Total CPC Program	0.67	1.02	0.03	38.67	0.13	0.20						
CPC Trend	2.07	-1.00	-0.03	77.26	0.68	0.64						
CPC Long Duration	-0.64	2.91	0.08	2.69	-0.37	-0.20						

Return Correlation (Since Inception)										
	Total CPC	,	CPC Long							
Program CPC Trend Duration										
Total CPC Program	1.00	0.86	0.45							
CPC Trend	0.86	1.00	-0.07							
CPC Long Duration	0.45	-0.07	1.00							

	Return Correlation (JULY '18)										
	Total CPC		CPC Long								
Program CPC Trend Duration											
Total CPC Program	1.00	0.87	0.61								
CPC Trend	0.87	1.00	0.14								
CPC Long Duration	0.61	0.14	1.00								





Employees' Retirement System of the State of Rhode Island

Absolute Return Portfolio Portfolio Performance Summary Estimated as of July 31, 2018

						Ret	urns					Sharpe	Incep
Fund	Market Value	Actual %	Jul	QTD	YTD	FYTD	1 Year	3 Year	5 Year	Incep	Std Dev	Ratio	Date
Absolute Return Portfolio													
Capula Global Relative Value Fund Ltd.	72,456,135	13.3%			2.74%	0.41%	3.98%	5.97%	6.74%	5.72%	1.83%	2.63	Dec-11
Davidson Kempner Institutional Partners, L.P.	88,090,727	16.1%	0.33%	0.33%	2.49%	0.33%	4.45%	5.07%	5.00%	5.85%	1.96%	2.54	Nov-11
DE Shaw Composite Fund LLC	112,689,992	20.6%			6.88%	1.40%	11.43%	9.63%	11.90%	12.79%	4.07%	2.81	Nov-11
Elliott Associates, L.P.	108,607,585	19.9%	-0.70%	-0.70%	3.43%	-0.70%	7.29%	8.61%	8.75%	9.19%	3.57%	2.29	Nov-11
Graham Absolute Return Trading Ltd.	60,183,900	11.0%	-1.66%	-1.66%	4.24%	-1.66%	2.41%	1.80%	2.66%	2.82%	5.64%	0.40	Jan-12
Viking Global Equities, LP	63,430,933	11.6%	2.46%	2.46%	7.40%	2.46%	10.18%	4.55%	9.59%	10.73%	7.00%	1.40	Dec-11
Winton Fund Limited	38,932,421	7.1%	-0.46%	-0.46%	0.90%	-0.46%	9.75%	1.36%	5.05%	3.99%	8.55%	0.42	Dec-11
Absolute Return Portfolio - Total	544,391,693	99.7%	0.31%	0.31%	4.16%	0.31%	7.16%	3.78%	5.46%	6.09%	3.12%	1.69	Nov-11
HFRI Fund of Funds Composite Index			0.12%	0.12%	0.78%	0.12%	4.18%	1.90%	3.27%	3.55%	3.33%	0.86	Nov-11
MSCI AC World Index Free - Net			3.02%	3.02%	2.57%	3.02%	10.97%	8.95%	9.04%	10.20%	10.51%	0.91	Nov-11
ML 3-month T-Bills			0.16%	0.16%	0.97%	0.16%	1.44%	0.73%	0.45%	0.36%	0.15%	-	Nov-11
25% MSCI ACWI/75% Barclays Aggregate			0.77%	0.77%	-0.50%	0.77%	2.11%	3.44%	4.02%	4.18%	3.32%	1.04	Nov-11
Liquidating Portfolio													
Claren Road Credit Fund, Ltd.	73,333	0.0%	0.00%	0.00%	2.13%	0.00%	-14.85%	-0.93%	-3.86%	-3.53%	11.89%	-0.31	Apr-13
Indus Asia Pacific Distribution Holding Company II, 06.30.14 Series													
(liquidating trust)	341,288	0.1%	-0.12%	-0.12%	-7.32%	-0.12%	-3.06%	-19.97%	-15.37%	-10.79%	18.92%	-0.54	Jan-12
Luxor Capital Partners, LP - Liquidating SPV	1,145,582	0.2%	1.15%	1.15%	0.37%	1.15%	19.52%	-	-	13.75%	17.73%	0.73	Jul-16
Liquidating/Redeeming - Total	1,560,203	0.3%	0.81%	0.81%	3.65%	0.81%	2.96%	0.27%	-0.93%	0.58%	4.98%	0.00	Nov-11
Total Absolute Return Portfolio	545,951,895	100.0%	0.32%	0.32%	4.05%	0.32%	6.76%	3.37%	4.64%	5.40%	2.95%	1.57	Nov-11
HFRI Fund of Funds Composite Index	3 .3,332,633	100.070	0.12%	0.12%	0.78%	0.12%	4.18%	1.90%	3.27%	3.55%	3.33%	-	Nov-11
Market Indices													
Libor3Month			0.20%	0.20%	1.28%	0.20%	1.89%	1.17%	0.80%	0.69%	0.17%	-	Nov-11
Bloomberg Barclays US Aggregate Bond Index			0.02%	0.02%	-1.60%	0.02%	-0.80%	1.50%	2.25%	2.09%	2.72%	0.52	Nov-11
Bloomberg Barclays US High Yield Bond Index			1.09%	1.09%	1.25%	1.09%	2.59%	6.12%	5.35%	6.81%	5.05%	1.19	Nov-11
S&P 500 TR			3.72%	3.72%	6.47%	3.72%	16.24%	12.52%	13.13%	15.15%	9.60%	1.45	Nov-11
MSCI EAFE - Net			2.46%	2.46%	-0.36%	2.46%	6.40%	5.03%	5.86%	7.32%	12.46%	0.58	Nov-11
MSCI EMF (Emerging Markets Free) - Net			2.20%	2.20%	-4.61%	2.20%	4.36%	8.94%	5.25%	3.81%	15.37%	0.27	Nov-11

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.

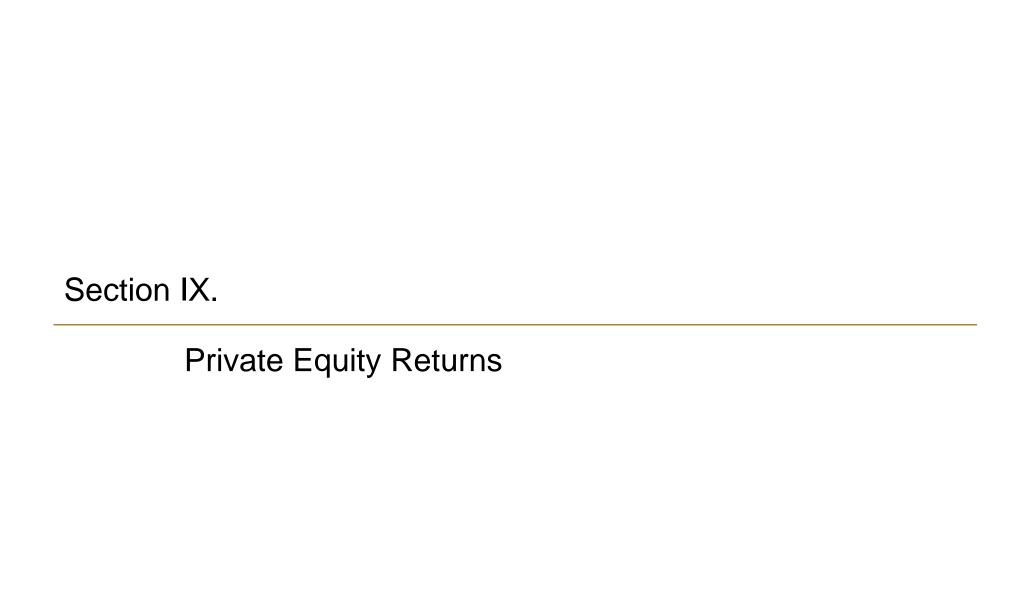


Employees' Retirement System of the State of Rhode Island

Absolute Return Portfolio Fund Level Performance Report Estimated as of July 31, 2018

						Tra	ailing Retu	rns		Calen	dar Year R	eturns		5 Yr		Sharpe Rat	io	Start
Fund	QTD	YTD	Jul	Jun	May	1 Year	3 Year	5 Year	2017	2016	2015	2014	2013	Std Dev	3 yr	5 yr	Incep.	Date
Absolute Return																		
Capula Global Relative Value Fund Ltd.		2.72%				3.93%	5.97%	6.74%	3.79%	8.37%	7.54%	8.14%	7.60%	1.63%	2.77	3.42	1.83	Oct-05
Davidson Kempner Institutional Partners, L.P.	0.33%	2.36%	0.33%	0.63%	-0.10%	4.21%	4.82%	4.84%	6.11%	6.71%	1.51%	4.45%	9.52%	1.95%	2.04	2.02	1.57	Mar-96
DE Shaw Composite Fund LLC		6.51%				10.79%	9.17%	11.19%	10.41%	6.12%	13.68%	15.57%	11.51%	3.88%	2.34	2.54	1.60	Mar-01
Elliott Associates, L.P.	-0.70%	3.42%	-0.70%	1.30%	0.90%	7.18%	8.37%	8.36%	8.80%	12.98%	2.51%	8.24%	12.44%	3.52%	1.82	2.07	1.92	Jan-90
Graham Absolute Return Trading Ltd.	-1.66%	4.26%	-1.66%	0.12%	0.50%	2.47%	1.79%	4.97%	-7.01%	11.78%	1.50%	10.42%	10.50%	7.99%	0.12	0.55	0.93	Jan-05
Viking Global Equities, LP	2.50%	7.45%	2.50%	0.30%	3.00%	11.10%	4.82%	9.71%	13.01%	-3.92%	8.27%	13.47%	22.65%	7.73%	0.48	1.14	1.43	Oct-99
Winton Fund Limited	-0.52%	0.81%	-0.52%	1.16%	-0.28%	9.63%	1.32%	5.02%	7.88%	-3.01%	0.95%	13.88%	9.43%	8.99%	0.06	0.50	0.66	Oct-97
Liquidating Portfolio																		
Claren Road Credit Fund, Ltd.	0.00%	2.29%	0.00%	0.48%	0.70%	-2.12%	-3.93%	-5.76%	0.09%	-12.72%	-7.96%	-10.10%	5.43%	7.25%	-0.75	-0.89	0.31	Jan-06
Indus Asia Pacific Fund, LP	-0.12%	-7.32%	-0.12%	-1.15%	-1.24%	-3.06%	-19.97%	-15.25%	9.70%	-26.00%	-33.23%	-15.60%	4.97%	21.32%	-0.72	-0.70	0.03	Dec-00
Luxor Capital Partners, LP	1.15%	0.37%	1.15%	4.35%	-0.29%	19.52%	10.00%	5.52%	54.38%	7.80%	-19.05%	-9.83%	19.53%	14.48%	0.57	0.39	0.86	Apr-02
Benchmark																		
HFRI Fund of Funds Composite Index	0.12%	0.78%	0.12%	-0.51%	0.71%	4.18%	1.90%	3.27%	7.77%	0.51%	-0.27%	3.37%	8.96%	3.30%				Jan-90
HFRI Fund Weighted Composite Index	0.61%	1.45%	0.61%	-0.42%	0.89%	5.25%	4.04%	4.30%	8.59%	5.44%	-1.12%	2.98%	9.13%	3.62%				Jan-90
Market Indices																		
3 Month Libor - BOM	0.20%	1.28%	0.20%	0.19%	0.20%	1.89%	1.17%	0.80%	1.29%	0.76%	0.33%	0.23%	0.27%	0.19%				Jan-87
Barclays Aggregate Bond Index	0.02%	-1.60%	0.02%	-0.12%	0.71%	-0.80%	1.50%	2.25%	3.55%	2.66%	0.57%	5.94%	-2.02%	2.71%				Jan-76
Barclays High Yield Credit Bond Index	1.09%	1.25%	1.09%	0.40%	-0.03%	2.59%	6.12%	5.35%	7.50%	17.14%	-4.46%	2.46%	7.46%	4.98%				Jul-83
S&P 500 (TR)	3.72%	6.47%	3.72%	0.62%	2.41%	16.24%	12.52%	13.12%	21.83%	11.96%	1.38%	13.69%	32.39%	9.71%				Jun-88
MSCI EAFE - Net - USD	2.46%	-0.36%	2.46%	-1.22%	-2.25%	6.40%	5.03%	5.86%	25.03%	1.00%	-0.81%	-4.90%	22.78%	11.45%				Dec-69
MSCI EMF (EMERGING MARKETS FREE) - Net - USD	2.20%	-4.61%	2.20%	-4.15%	-3.54%	4.36%	8.94%	5.25%	37.28%	11.19%	-14.92%	-2.19%	-2.60%	14.87%				Dec-87
((0/0		0/0	2570	2.3 170		170	2.2570	1		5_/0	,	5070	57,70				

Note: The above is manager composite history.



Portfolio Summary

3/31/2018 All Investments

Performance Summary

		Number of		Multiple of								
Asset Class	Investment Type	Investments	Commitment	Contributions	Distributions	Valuation	Cost	IRR	TWR			
Private Equity Funds												
	Buyout Total	81	1,440,318,986	1,267,164,581	1,624,488,818	369,643,340	1.57	13.32%	12.95%			
	Direct Lending Total	4	125,000,000	68,463,210	36,921,520	42,322,392	1.16	9.53%	8.27%			
	Distressed Debt Total	14	263,000,000	223,015,944	243,540,441	70,504,152	1.41	10.29%	10.01%			
	Energy Total	9	198,000,000	153,675,653	191,663,345	35,807,194	1.48	23.73%	7.77%			
	Fund of Funds Total	1	45,000,000	45,000,000	106,748,821	-	2.37	19.94%	-			
	Opportunistic Credit Total	1	50,000,000	22,326,873	-	21,072,773	0.94	-6.09%	-12.78%			
	Secondary Total	4	60,000,000	55,009,798	64,223,765	3,242,504	1.23	5.87%	3.10%			
	Venture Capital Total	22	281,250,000	267,187,297	255,742,037	102,236,673	1.34	5.62%	3.44%			
Total: Private Equity F	u	136	2,462,568,986	2,101,843,355	2,523,328,748	644,829,028	1.51	13.52%	11.41%			



Employees' Retirement System of Rhode Island Private Equity Performance 3/31/2018

Cumulative Cash Flows (\$)

Cumulative Performance*

Current Partnerships	Vintage Year		Amount Committed (In \$ unless otherwise noted)	Amount Drawn	Amount Distributed	Amount Unfunded	Valuation (\$)	Net IRR (%)	Net Multiple of Investment
Fenway Partners Capital Fund II	1998	Buyout	15,000,000	18,538,740	20,462,364	150,000	1,594,059	4.71	1.19
Nautic Partners V	2000	Buyout	20,000,000	20,331,229	40,426,893	600,000	1,556,590	17.14	2.06
CVC European Equity Partners III	2001 2001	Buyout	20,000,000	23,760,732	59,551,716	200,000 550,619	1,464,114	41.04 12.39	2.57
Parthenon Investors II Leeds Equity Partners IV	2001	Buyout Buyout	23,960,000 10,000,000	23,409,381 10,209,327	37,415,960 11,467,347	1,100,000	832,287 2.012.605	4.36	1.63 1.32
Nordic Capital Fund V	2003	Buyout	€14,615,550	20,646,607	54,323,851	-	473,283	20.22	2.65
TPG Partners IV	2003	Buyout	15,000,000	16,672,684	31,152,325		1,189,707	15.53	1.94
Aurora Equity Partners III	2004	Buyout	15,000,000	16,243,392	26,952,245	900,000	513,547	15.06	1.69
W Capital	2004	Buyout	15,000,000	14,197,500	10,411,595	802,500	180,831	-10.14	0.75
Birch Hill Equity Partners III CVC European Equity Partners IV	2005 2005	Buyout Buyout	CAD 18,000,000 €16,500,000	20,483,878 20,072,162	36,651,654 39,240,082	360,000 325,138	4,304,919 28,499	13.11 16.64	2.00 1.96
Providence Equity Partners V	2005	Buyout	25,000,000	31,142,133	36,171,706	2,250,000	843,650	3.28	1.19
Centerbridge Capital Partners	2006	Buyout	15,000,000	23,606,988	39,001,831	1,050,000	3,373,093	19.62	1.80
Fenway Partners Capital Fund III	2006	Buyout	15,000,000	17,230,534	14,080,832	1,050,000	6,863,757	3.60	1.22
LNK Partners	2006	Buyout	12,500,000	12,143,603	16,923,986	356,397	-	8.12	1.39
Nordic Capital Fund VI	2006	Buyout	€15,000,000	20,128,265	33,836,591		1,032,367	8.65	1.73
TPG Partners V Green Equity V	2006 2007	Buyout	20,000,000 20,000,000	20,697,887 20,422,420	24,082,830 31,283,175	1,200,000 1,800,000	4,691,612 11,934,609	5.16 18.10	1.39 2.12
Nautic Partners VI	2007	Buyout Buyout	20,000,000	23,976,560	47,554,599	800,000	7,381,234	17.62	2.29
Providence Equity Partners VI	2007	Buyout	25,000,000	29,379,971	29,642,363	1,250,000	10,355,646	6.17	1.36
Trilantic Capital Partners IV	2007	Buyout	11,098,351	11,606,535	17,528,744	1,442,786	1,533,849	14.51	1.64
Bain Capital Fund X	2008	Buyout	25,000,000	24,300,000	30,825,853	700,000	8,790,899	9.76	1.63
CVC V	2008	Buyout	€20,000,000	27,117,925	44,399,184	247,240	9,767,759	19.04	2.00
Nordic Capital Fund VII TPG VI	2008 2008	Buyout Buyout	€15,000,000 10,000,000	19,183,506 13,835,221	17,628,540 14,284,490	927,150 500,000	12,808,167 4,779,196	8.31 9.15	1.59 1.38
Advent International GPE VII-C, L.P.	2012	Buyout	20,000,000	18,800,000	9,240,000	1,200,000	23,402,566	18.92	1.74
Providence Equity Partners VII	2012	Buyout	25,000,000	26,464,925	17,317,949	8,250,000	23,972,110	23.47	1.56
Nordic Capital Fund VIII	2013	Buyout	€15,000,000	18,971,204	6,502,350	1,483,440	19,410,250	16.40	1.37
Riverside Capital Appreciation Fund VI	2013	Buyout	20,000,000	16,636,517	5,160,709	3,363,483	19,545,267	17.51	1.49
Carlyle Asia Partners IV	2014	Buyout	30,000,000	22,745,337	4,585,592	7,254,663	28,439,787	17.68	1.45
CVC Capital Partners VI	2014	Buyout	€15,000,000	18,894,564	3,644,661	2,225,160	15,875,992	2.48	1.03
Nautic Partners VII Riverside Micro-Cap Fund III	2014 2014	Buyout Buyout	20,000,000 20,000,000	16,345,836 17,758,317	19,462,846 1,455,104	3,654,164 2,241,683	11,107,323 37,607,171	45.82 27.63	1.87 2.20
Sorenson Capital Partners III	2014	Buyout	30,000,000	21,469,828	7,769	8,530,172	23,791,270	5.48	1.11
Baring Asia Private Equity Fund VI	2015	Buyout	15,000,000	9,730,055	2,438,197	5,269,945	9,848,615	16.78	1.26
Paine & Partners Capital Fund IV	2015	Buyout	30,000,000	20,033,403	805,848	9,966,597	21,292,172	6.62	1.10
Centerbridge Capital Partners III	2015	Buyout	25,000,000	13,614,788	3,059,202	11,385,212	13,674,475	15.54	1.23
Advent International GPE VIII	2016	Buyout	20,000,000	9,830,000		10,170,000	10,492,890	n/a	1.04
Nautic Partners VIII	2016	Buyout	20,000,000	5,680,817	3,281,956	14,319,183	5,990,172	n/a	1.63 0.50
Southvest Partners VII RLH IV	2016 2017	Buyout Buyout	37,500,000 40,000,000	3,963,508 1,279,288	941,378	33,536,492 38,720,712	1,034,952 38,720,049	n/a n/a	0.50
MHR Institutional Partners III	2006	Debt	20,000,000	20,800,000	20,764,995	7,000,000	9,002,132	6.95	1.43
WLR Recovery Fund IV	2007	Debt	8,000,000	7,277,318	9,260,089	722,682	719,830	7.87	1.37
Oaktree European Principal Fund III	2011	Debt	20,000,000	17,150,000	8,488,700	2,850,000	19,025,819	12.01	1.60
Centerbridge Special Credit Partners II	2012	Debt	25,000,000	22,500,000	15,695,140	2,500,000	8,511,885	1.99	1.08
Garrison Opportunity Fund IV	2014	Debt	30,000,000	23,913,341	(498,315)	6,086,659	27,355,640	5.41	1.12
CSIP V Tenex Capital Partners II	2016 2016	Debt Debt	30,000,000 25,000,000	11,880,870 9,601,524	751,871 714,865	18,119,130 15,398,476	12,442,817 9,691,226	n/a 7.57	1.11
Virgo Societas Partnership IV (Offshore), L.P.	2017	Debt	50,000,000	22,326,873	714,000	27,673,127	21,072,773	7.57 n/a	0.94
Davidson Kempner L-T Opps. IV	2018	Debt	50,000,000	2,500,000	-	47,500,000	2,518,264	n/a	1.01
Owl Rock Capital Corporation	2018	Debt	50,000,000	10,676,622		39,323,378	10,482,753	n/a	0.98
First Reserve Fund X	2004	Energy	20,000,000	19,999,999	36,485,800	1	69,497	31.03	1.83
Kayne Anderson Energy Fund III	2005	Energy	15,000,000	15,965,344	15,214,110	300,000	130,085	-2.16	0.96
First Reserve Fund XI Kayne Anderson Energy Fund IV	2006 2007	Energy Energy	20,000,000 15,000,000	22,125,580 16,605,519	14,833,318 16,631,275		1,081,080 1,232,155	-8.32 2.49	0.72 1.08
EnCap Energy Capital Fund IX	2013	Energy	18,000,000	19,208,194	12,207,020	1,980,000	12,987,293	14.57	1.31
EnCap Energy Capital Fund X	2015	Energy	25,000,000	18,426,739	3,579,408	6,573,261	17,409,163	13.14	1.14
EnCap Energy Capital Fund XI	2017	Energy	50,000,000	3,534,835	-	46,465,165	2,897,922	n/a	0.82
Coller V	2006	Secondaries	15,000,000	12,620,912	16,067,595	2,379,088	1,874,280	8.13	1.42
W Capital II	2007	Secondaries	15,000,000	14,896,718	19,748,146	103,282	1,187,393	10.58	1.41
Alta BioPharma Partners III	2003	Venture Capital Venture Capital	15,000,000	14,250,000	20,297,956	750,000	507,043	5.81	1.46
Granite Global Ventures II Leapfrog Ventures II	2004	Venture Capital	15,000,000	14,333,510	21,812,249 6,811,564	666,490 510,000	2,339,862 3,976,276	6.66	1.69
Alta Partners VIII	2006	Venture Capital	15,000,000	15,000,000	26,523,437	310,000	6,950,924	16.39	2.23
Castile Ventures III	2006	Venture Capital	5,000,000	5,009,730	1,396,371	-	688,775	-16.77	0.42
Focus Ventures III	2006	Venture Capital	15,000,000	15,000,000	6,480,361	-	1,854,538	-9.94	0.56
GGV III	2006	Venture Capital	15,000,000	14,625,748	36,810,243	374,252	5,156,545	18.34	2.87
Point 406 Ventures I	2006	Venture Capital	10,000,000	10,950,534	8,474,403	400,000	9,030,597	8.11	1.60
Point Judith Venture Fund II	2006	Venture Capital	5,000,000	6,199,776	2,305,610	50,000	5,031,874	2.81	1.18
Lighthouse Capital Partners VI Paladin III	2007 2008	Venture Capital Venture Capital	15,000,000 10,000,000	14,250,000 12,917,504	19,719,297 9,042,075	750,000 400,000	496,873 8,865,963	6.79 7.44	1.42 1.39
Industry Ventures Partnership Holdings III	2014	Venture Capital	25,000,000	21,569,363	3,763,454	3,430,637	25,039,363	13.41	1.34
Industry Ventures Partnership Holdings III C	2015	Venture Capital	15,000,000	8,025,424	110,218	6,974,576	10,847,890	27.90	1.37
Industry Ventures Partnership Holdings IV	2015	Venture Capital	10,000,000	3,450,000	40,923	6,550,000	3,982,532	17.56	1.17
Other funds in aggregrate** Total	various		100,000,000 \$ 1,635,968,194	102,337,452 \$ 1,300,974,995	81,827,078 \$ 1,278,563,573	14,513,287 \$ 440,476,227	36,864,440 \$ 683,836,842		
			- 1,000,000,104	,500,514,555	,270,000,073		- 000,000,042		

^{*}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 else 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 (virtage year) when assessing IRRS. Multiple refunds, 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, Summit Partners Credit Fund, Summit Partners Credit Fund II, Thomas, McNerney & Partners, Thomas McNerney & Partners II and Wellspring Capital Partners III.



PORTFOLIO SUMMARY

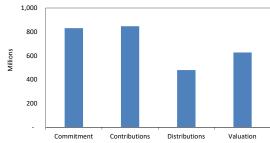
3/31/2018

All Portfolio Investments - Real Estate (1)

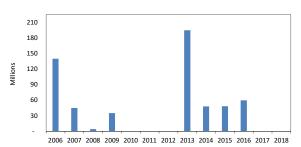
Performance Summary

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 Non-Core	8 21	414,873,657 415,260,817	481,286,635 364,827,336	306,228,982 173,568,232	432,845,327 193,993,623	1.5x 1.0x	5.5% 0.2%	5.7% 2.9%
Total: Real Estate Funds		29	830,134,474	846,113,971	479,797,214	626,838,950	1.3x	4.3%	5.0%
Total:		29	830,134,474	846,113,971	479,797,214	626,838,950	1.3x	4.3%	5.0

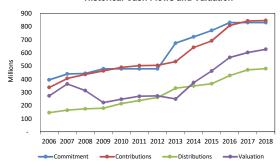
Cash Flow and Valuation Summary



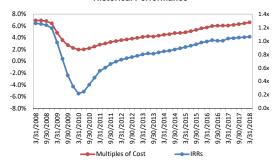
Commitment by Vintage Year



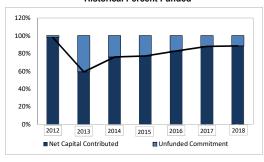




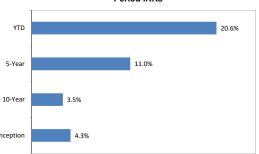




Historical Percent Funded



Period IRRs (5)



⁽¹⁾ Investment information listed as of March 31, 1989 through March 31, 2018 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.

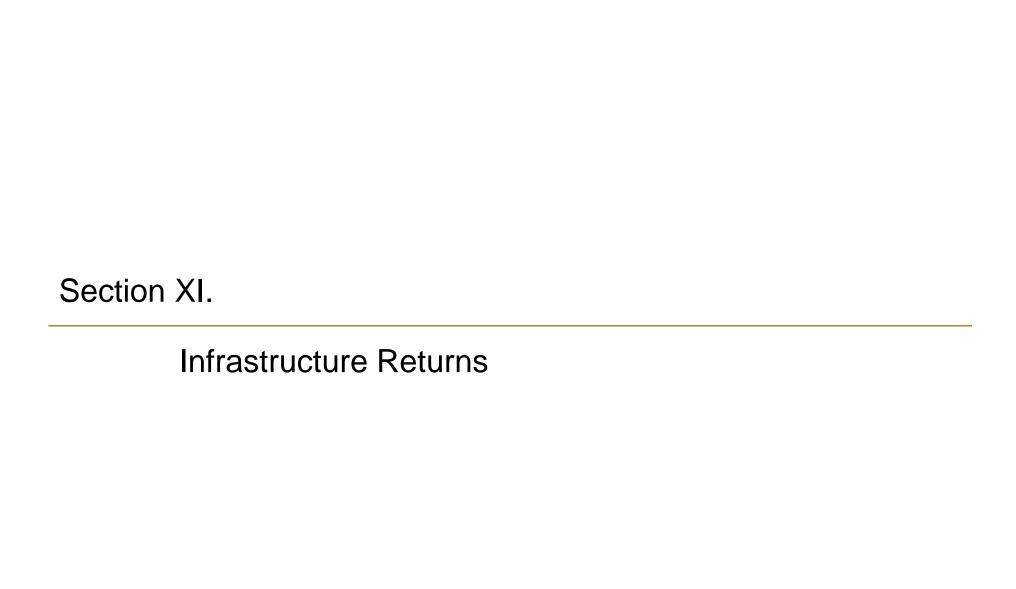
⁽⁴⁾ As of March 31, 2018 there are five core funds and eleven non-core funds.
(5) The YTD IRR presented is an annualized percentage. The IRR on an unannualized basis for 1Q18 is 4.8%

Employees' Retirement System of Rhode Island Real Estate Performance 3/31/2018

Cumulative Cash Flows (\$)	Cumulative Performance

Current Partnerships	Vintage Year/Initial Investment	Туре	Amount Committed (In \$ unless otherwise noted)	Amount Drawn	Amount Distributed	Amount Unfunded	Valuation (\$)	Net IRR (%)	Net Multiple of Investment
AEW Core Property Trust	2010	Core	69,873,660	69,873,660	18,229,395	-	103,923,643	11.2	1.5
Heitman America Real Estate Trust	2014	Core	60,000,000	60,000,000	10,368,989	-	80,207,573	10.2	1.3
JP Morgan Strategic Property Fund	2006	Core	75,000,000	75,000,000	29,014,048	-	108,145,514	6.3	1.7
Morgan Stanley Prime Property Fund	2005	Core	35,000,000	35,000,000	22,397,626	-	63,774,648	7.4	2.1
Prudential (PRISA)	2005	Core	50,000,000	50,000,000	21,499,902	-	76,793,949	5.4	1.8
Magna Hotel Fund III	2008	Value-Add	4,000,000	3,426,573	5,622,431	573,427	388,506	15.2	1.8
IC Berkeley Partners III	2013	Value-Add	18,000,000	16,038,326	12,209,760	1,961,674	12,860,986	22.6	1.6
Exeter Industrial Value Fund III	2014	Value-Add	30,000,000	29,099,454	7,244,061	900,546	44,912,351	32.3	1.8
Waterton Fund XII	2014	Value-Add	35,000,000	33,565,414	6,399,296	1,434,586	40,147,875	16.2	1.3
Crow Holdings Retail Fund	2015	Value-Add	24,000,000	20,935,313	2,499,549	3,064,687	22,130,703	11.2	1.2
IC Berkeley Partners IV	2016	Value-Add	30,000,000	8,814,545	1,783,071	21,185,455	9,037,155	3.3	1.0
TriCon Capital Fund VII	2005	Opportunistic	15,000,000	14,571,533	4,220,556	428,467	992,435	-16.9	0.3
JP Morgan Alternative Property Fund	2006	Opportunistic	20,000,000	20,000,000	14,750,429	-	192,853	-4.4	0.7
GEM Realty Fund V	2013	Opportunistic	50,000,000	39,874,323	7,421,000	10,125,677	47,186,095	13.0	1.3
Lone Star Real Estate Fund IV	2015	Opportunistic	24,260,817	18,230,068	8,142,624	6,030,749	15,515,874	20.6	1.3
GEM Realty Fund VI	2017	Opportunistic	20,000,000	1,000,000	-	19,000,000	628,790	n/a	n/a
Total			\$ 560,134,477	\$ 495,429,209	\$ 171,802,737	\$ 64,705,268	\$ 626,838,950		

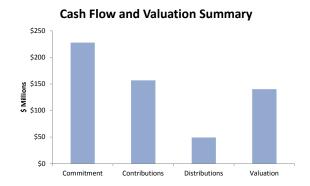
^{*}IRR refers to the fund's Internal Rate of Return, or the annualized compounded yield on an investment. This calculation is typically applied in private real estate where there are multiple points at which capital is invested (capital called) and at which it is distributed. A positive IRR means that 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 currulative 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.

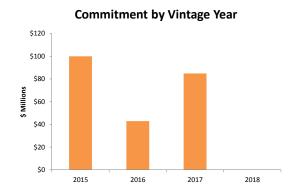


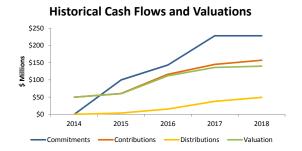
Portfolio Summary 3/31/2018 All Private Infrastructure

Investment	Commitment	Contributions	Distributions	Reported Valuation	Multiple of Cost*	Since Inception IRR*	QTD IRR*
IFM Global Infrastructure	50,000,000	50,000,000	9,542,718	57,705,494	1.34	9.6%	8.1%
ISQ Global Infrastructure Fund	50,000,000	55,766,918	21,453,937	44,712,028	1.19	15.7%	1.6%
ISQ Global Infrastructure Fund II	40,000,000	=	=	(768,080)	-		
Stonepeak Infrastructure Fund II	43,000,000	41,914,076	18,397,344	29,287,672	1.14	14.4%	-0.7%
Stonepeak Infrastructure Fund II Master Co-Investment	10,000,000	8,241,807	9,708	8,564,312	1.04	9.5%	1.0%
Stonepeak Infrastructure Fund III	35,000,000	1,016,730	-	911,702	-		
Total	228,000,000	156,939,531	49,403,707	140,413,128	1.21	11.3%	3.1%

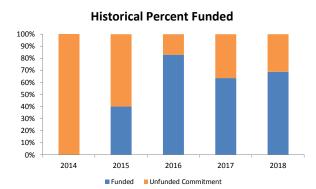
^{*} Net of fees and expenses

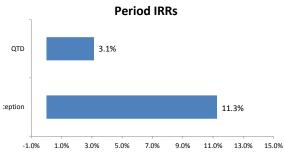












Employees' Retirement System of Rhode Island Private Infrastructure Performance 3/31/2018

Cumulative Cash Flows (\$)

Cumulative Performance*

Current Partnerships	Vintage Year/Initial Investment		ount Committed (In \$ unless herwise noted)	А	mount Drawn	Amo	ount Distributed	Amo	unt Unfunded	٧	/aluation (\$)	Net IRR (%)	Net Multiple of Investment
IFM Global Infrastructure, L.P.	2015	Core	50,000,000		50,000,000		8,227,293		-		57,705,494	9.6	1.3
ISQ Global Infrastructure Fund, L.P.	2015	Value-Add	50,000,000		55,766,918		20,952,395		15,185,477		44,712,028	17.2	1.3
ISQ Global Infrastructure Fund II, L.P.		Value-Add	40,000,000									n/a	n/a
Stonepeak Infrastructure Fund II, L.P.	2016	Opportunistic	43,000,000		41,914,076		15,583,146		19,468,714		29,287,672	14.4	1.1
Stonepeak Infrastructure Fund II-C	2016	Opportunistic	10,000,000		8,241,807		9,708		1,758,193		8,564,312	9.5	1.0
Stonepeak Infrastrucutre Fund III	2018	Opportunistic \$	35,000,000	\$	1,016,730	\$	-	\$	33,983,270	\$	911,702	n/a	n/a
Total		s	228.000.000	s	156.939.531	s	44.772.542	s	70.395.654	s	141.181.208		



Cash Flow



Monthly Valuation Change

Period: 2018-07-01 - 2018-07-31

Category	Source Account Name	Closing Balance	Market Value Increase/(Decrease)	Transfer In/(Out)	Opening Balance
oategory	oourse Account Hame	Olosing Balance	market value increase/(Decrease)	Transier in (Out)	Opening Balance
Grand Total		8,402,331,369.03	125,214,821.35	(22,013,029.00)	8,299,129,576.68
Total Global Equity		4,207,842,826.30	117,148,649.22	214,325.62	4,090,479,851.46
Global Equity		3,948,400,691.63	116,782,973.79	214,325.62	3,831,403,392.22
	SSGA R3000 INDEX	1,351,088,093.91	43,537,870.44	39,442.98	1,307,510,780.49
	SSGA MSCI EAFE	790,753,916.28	18,867,840.92	62,488.93	771,823,586.43
	SSGA MSCI CANADA	97,002,444.55	2,322,167.12	7,443.32	94,672,834.11
	SSGA MSCI EM	443,968,330.61	9,531,372.44	104,950.39	434,332,007.78
	QVM TILT	1,265,587,906.28	42,523,722.87	0.00	1,223,064,183.41
Global Equity Hedge F	Funds	259,442,134.67	365,675.43	0.00	259,076,459.24
	DAVIDSON KEMPNER	88,090,727.25	328,757.30	0.00	87,761,969.95
	ELLIOTT ASSOCIATES	106,432,645.68	(1,497,544.77)	0.00	107,930,190.45
	INDUS ASIA PACIFIC	341,287.78	(423.63)	0.00	341,711.41
	PFM DIVERSIFIED	174.44	0.00	0.00	174.44
	SAMLYN ON/OFFSHORE	578.08	0.32	0.00	577.76
	VIKING GLOBAL EQUITI	63,430,932.52	1,522,133.81	0.00	61,908,798.71
	LUXOR CAP PTNS LP	1,145,581.90	12,752.40	0.00	1,132,829.50
	ESG CBE FUND LP	207.02	0.00	0.00	207.02
Private Equity		504,443,464.32	2,830,812.52	(3,896,802.46)	505,509,454.26
Private Equity		504,443,464.32	2,830,812.52	(3,896,802.46)	505,509,454.26
	PRIVATE EQUITY	504,443,464.32	2,830,812.52	(3,896,802.46)	505,509,454.26
Total Fixed Income		921,692,959.08	612,614.04	(9,678,979.07)	930,759,324.11
Fixed Income		921,692,959.08	612,614.04	(9,678,979.07)	930,759,324.11
	MACKAY SHIELDS	454,694,508.34	336,875.94	(5,856,364.35)	460,213,996.75
	PYRAMIS GLOBAL ADV	466,998,450.74	275,738.10	(3,822,614.72)	470,545,327.36
Total Real Return		1,156,838,143.15	13,182,183.77	(8,028,710.84)	1,151,684,670.22
Alternative Absolute R	Return	211,810,828.65	455,262.81	0.00	211,355,565.84
	BREVAN HOWARD	4,329.08	2.24	0.00	4,326.84
	DE SHAW	112,689,991.60	1,655,937.67	0.00	111,034,053.93
	OZ DOMESTIC PTRS	186.78	0.00	0.00	186.78
	WINTON FUTURE FD	38,932,420.82	(179,699.03)	0.00	39,112,119.85
	GRAHAM ABS RETURN	60,183,900.37	(1,020,978.07)	0.00	61,204,878.44
Alternative Fixed Inco	ome	72,529,480.54	317,278.81	0.00	72,212,201.73
	CAPULA GLOBAL	72,456,134.70	316,902.11	0.00	72,139,232.59
	CLAREN ROAD CR. FUND	73,345.84	376.70	0.00	72,969.14
Credit		359,183,773.58	2,496,270.37	(4,437,019.60)	361,124,522.81
	PIMCO	186,325,332.31	1,512,447.57	(2,675,000.00)	187,487,884.74
	WAMCO	172,858,441.27	983,822.80	(1,762,019.60)	173,636,638.07
GILBs		201,427,666.10	(817,381.31)	(19,905.21)	202,264,952.62
	BROWN BROTHERS HARR	201,427,666.10	(817,381.31)	(19,905.21)	202,264,952.62
Publicly Traded Infras		311,886,394.28	10,730,753.09	(3,571,786.03)	304,727,427.22
	PRIV INFRASTR AGGR	146,973,892.97	520,772.00	(3,571,786.03)	150,024,907.00
	HARVEST FUND ADVISOR	164,912,501.31	10,209,981.09	0.00	154,702,520.22
Total Cash		22,287,910.60	(181,456.49)	5,522,062.63	16,947,304.46
Cash Accounts		22,287,910.60	(181,456.49)	5,522,062.63	16,947,304.46
	ERSRI CASH	17,838,304.60	(181,456.49)	5,735,091.63	12,284,669.46
	CITIZENS CASH	4,449,606.00	0.00	(213,029.00)	4,662,635.00
Total Other		3,665,519.65	(683,178.67)	(9,000,000.00)	13,348,698.32



Monthly Valuation Change

Period: 2018-07-01 - 2018-07-31

Category	Source Account Name	Closing Balance	Market Value Increase/(Decrease)	Transfer In/(Out)	Opening Balance
Other		3,665,519.65	(683,178.67)	(9,000,000.00)	13,348,698.32
	RUSSELL OVERLAY FD	3,665,519.65	(683,178.67)	(9,000,000.00)	13,348,698.32
Total Miscellaneous		392,167.07	40,355.62	0.00	351,811.45
Miscellaneous Accou	unts	392,167.07	40,355.62	0.00	351,811.45
	RI TRANS ACCT	5,190.79	53.08	0.00	5,137.71
	SHOTT CAPITAL	331,359.78	40,793.12	0.00	290,566.66
	NON-US EQUITY TRANS	44,022.74	(173.75)	0.00	44,196.49
	FIXED INC TRANS	11,593.76	(316.83)	0.00	11,910.59
*unclassified		1,585,168,378.86	(7,735,158.66)	2,855,075.12	1,590,048,462.40
*Unclassified		1,585,168,378.86	(7,735,158.66)	2,855,075.12	1,590,048,462.40
	ERSRI SMA CASH	253,042,336.63	537,007.28	5,400,000.00	247,105,329.35
	MACKAY LONG DURATION	160,272,272.09	(2,501,414.59)	0.00	162,773,686.68
	WAMCO LONG DURATION	159,977,966.38	(2,513,845.38)	0.00	162,491,811.76
	CPC CB LLC	96,818,023.72	(1,808,962.12)	0.00	98,626,985.84
	CPC QIS LLC	99,732,232.20	(1,158,167.95)	0.00	100,890,400.15
	CPC AP LLC	102,292,894.74	(195,894.89)	0.00	102,488,789.63
	PRIVATE CREDIT	100,858,922.08	0.00	287,468.06	100,571,454.02
	OPPORTUNISTIC PRV CR	28,898,249.00	(93,881.01)	(1,744,201.00)	30,736,331.01
	CORE REAL ESTATE	431,978,538.72	0.00	(1,431,352.73)	433,409,891.45
	NON CORE REAL ESTATE	151,296,943.30	0.00	343,160.79	150,953,782.51

CASH FLOW ANALYSIS - INCOME & EXPENSES

Employees Retirement System

FISCAL YEAR 2019	FY 2018-19												
		Projected	Actual										
	TOTAL	June	May	April	March	February	January	December	November	October	September	August	July
							2019						2018
MEMBER BENEFITS	833,982,084	69,500,000	69,500,000	69,500,000	69,500,000	69,500,000	69,500,000	69,500,000	69,500,000	69,500,000	69,500,000	69,500,000	69,482,084
ADMINISTRATIVE EXPENSES	9,525,725	1,255,280.98	1,021,300	529,120	1,264,456	523,667	661,953	855,600	497,568	844,408	1,200,489	473,241	398,643
INVESTMENT EXPENSES	22,873,288	270,376	10,424,015	3,807,683	2,045,442	2,252,368	708,685	(955)	574,291	875,124	77,109	1,034,676	804,475
TOTAL OUTFLOW	866,381,098	71,025,657	80,945,315	73,836,803	72,809,898	72,276,035	70,870,638	70,354,645	70,571,859	71,219,532	70,777,598	71,007,916	70,685,202
CONTRIBUTIONS	505,817,411	54,595,381	44,734,514	41,272,504	42,480,747	40,865,166	47,531,440	47,242,656	41,926,087	45,184,050	24,149,562	22,954,146	52,881,158
OTHER INCOME*	63,351,313	3,138,460	13,807,256	14,038,691	2,870,790	14,041,528	(10,388,798)	(461,275)	8,186,393	9,405,337	3,322,153	3,119,643	2,271,136
TOTAL INCOME	569,168,724	57,733,841	58,541,770	55,311,195	45,351,537	54,906,694	37,142,642	46,781,381	50,112,480	54,589,387	27,471,715	26,073,789	55,152,294
DIFFERENCE	(297,212,374)	(13,291,816)	(22,403,546)	(18,525,608)	(27,458,361)	(17,369,341)	(33,727,996)	(23,573,264)	(20,459,379)	(16,630,145)	(43,305,882)	(44,934,127)	(15,532,909)

Municipal Employees Retirement System

	TOTAL	Projected June	Projected May	Projected April	Projected March	Projected February	Projected January 2019	Projected December	Projected November	Projected October	Projected September	Projected August	Actual July 2018
MEMBER BENEFITS	98,346,928	8,200,000	8,200,000	8,200,000	8,200,000	8,200,000	8,200,000	8,200,000	8,200,000	8,200,000	8,200,000	8,200,000	8,146,928
ADMINISTRATIVE EXPENSES	2,244,318	298,439	242,816	125,497	299,070	123,576	155,785	201,000	116,695	197,622	278,994	109,981	94,842
INVESTMENT EXPENSES	5,416,858	64,281	2,478,330	903,107	483,790	531,519	166,784	(224)	134,689	204,810	17,920	240,459	191,394
TOTAL OUTFLOW	106,008,103	8,562,720	10,921,146	9,228,603	8,982,860	8,855,095	8,522,569	8,400,775	8,451,384	8,602,432	8,496,914	8,550,440	8,433,164
CONTRIBUTIONS	65,850,988	5,597,269	5,857,272	5,099,829	6,369,814	5,329,289	5,854,840	5,485,021	4,955,181	5,693,573	4,943,375	5,317,956	5,347,569
OTHER INCOME*	14,956,377	746,159	3,282,702	3,329,698	679,002	3,313,551	(2,444,924)	(108,364)	1,919,961	2,201,187	772,070	725,007	540,330
TOTAL INCOME	80,807,365	6,343,428	9,139,974	8,429,527	7,048,816	8,642,840	3,409,916	5,376,657	6,875,142	7,894,760	5,715,445	6,042,963	5,887,899
DIFFERENCE	(25,200,737)	(2,219,292)	(1,781,172)	(799,077)	(1,934,044)	(212,255)	(5,112,653)	(3,024,118)	(1,576,242)	(707,672)	(2,781,469)	(2,507,478)	(2,545,265)

CASH FLOW ANALYSIS - INCOME & EXPENSES

CASH FLOW ANALYSIS - INCOME & EXPENSES

Retirement System	TOTAL	Projected June	Projected May	Projected April	Projected March	Projected February	Projected January 2019	Projected December	Projected November	Projected October	Projected September	Projected August	Actual July 2018
MEMBER BENEFITS	5,999,263	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	499,263
ADMINISTRATIVE EXPENSES	201,685	26,577	21,565	11,140	26,530	10,986	13,802	17,789	10,305	17,434	12,525	24,574	8,458
INVESTMENT EXPENSES	484,110	5,724	220,101	80,165	42,917	47,252	14,777	(20)	11,894	18,068	24,584	1,578	17,069
TOTAL OUTFLOW	6,685,057	532,302	741,665	591,305	569,447	558,238	528,579	517,770	522,199	535,501	537,109	526,152	524,790
CONTRIBUTIONS	5,883,767	527,408	316,594	332,007	290,687	447,000	417,169	556,883	638,832	799,691	640,662	490,527	426,307
OTHER INCOME*	1,398,254	66,448	291,537	295,564	60,234	294,578	(216,615)	(9,591)	169,546	194,181	84,619	68,003	99,750
TOTAL INCOME	7,282,021	593,856	608,131	627,571	350,921	741,578	200,554	547,292	808,378	993,872	725,281	558,530	526,057
DIFFERENCE	596,964	61,555	(133,534)	36,266	(218,526)	183,339	(328,024)	29,523	286,179	458,371	188,172	32,378	1,267

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Judicial													
Retirement System		Projected	Actual										
	TOTAL	June	May	April	March	February	January	December	November	October	September	August	July
							2019						2018
MEMBER BENEFITS	3,296,301	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	271,301
WEWIDEN DENETHS	3,250,301	275,000	275,000	273,000	273,000	275,000	275,000	275,000	275,000	275,000	275,000	273,000	271,301
ADMINISTRATIVE	104,628	14,070	11,402	5,885	13,828	5,793	7,265	9,360	5,424	9,164	12,882	5,078	4,476
EXPENSES	104,028	14,070	11,402	3,003	13,020	3,793	7,203	3,300	3,424	3,104	12,002	3,078	4,470
EXPENSES													
INVESTMENT	253,529	3,031	116,375	42,351	22,369	24,915	7,778	(10)	6,261	9,498	827	11,103	9,033
EXPENSES	233,323	3,031	110,373	42,331	22,309	24,913	7,776	(10)	0,201	3,436	027	11,103	5,033
EXPENSES													
TOTAL OUTFLOW	3,654,457	292,100	402,777	323,236	311,197	305,708	290,042	284,350	286,685	293,662	288,709	291,181	284,811
TOTAL OUTFLOW	3,034,437	292,100	402,777	323,230	311,197	303,708	250,042	204,330	200,003	293,002	200,703	231,181	204,011
CONTRIBUTIONS	3,943,374	380,045	236,017	260,088	267,842	271,001	270,000	286,056	664,755	504,423	292,786	294,092	216,269
CONTRIBUTIONS	3,943,374	380,043	230,017	200,088	207,842	271,001	270,000	280,030	004,/33	504,423	292,780	294,092	210,209
OTHER INCOME*	725,804	35,178	154,145	156,146	31,395	155,323	(114,013)	(5,046)	89,242	102,077	35,649	33,476	52,233
OTHER INCOME.	725,804	33,178	154,145	150,140	31,395	155,323	(114,013)	(5,046)	89,242	102,077	33,049	33,476	52,233
TOTAL INCOME	4.550.470	445 222	200.462	44.5.22.4	200 227	426.224	455.007	204.040	752.007	505 500	220 425	227 560	200 502
TOTAL INCOME	4,669,178	415,223	390,162	416,234	299,237	426,324	155,987	281,010	753,997	606,500	328,435	327,568	268,502
DIFFERENCE	4 04 4 720	422.422	(42.544)	03.000	(44.000)	420.545	(424.055)	(2.240)	457.242	242.027	20.725	26 207	(45.200)
DIFFERENCE	1,014,720	123,122	(12,614)	92,998	(11,960)	120,616	(134,055)	(3,340)	467,313	312,837	39,725	36,387	(16,308)

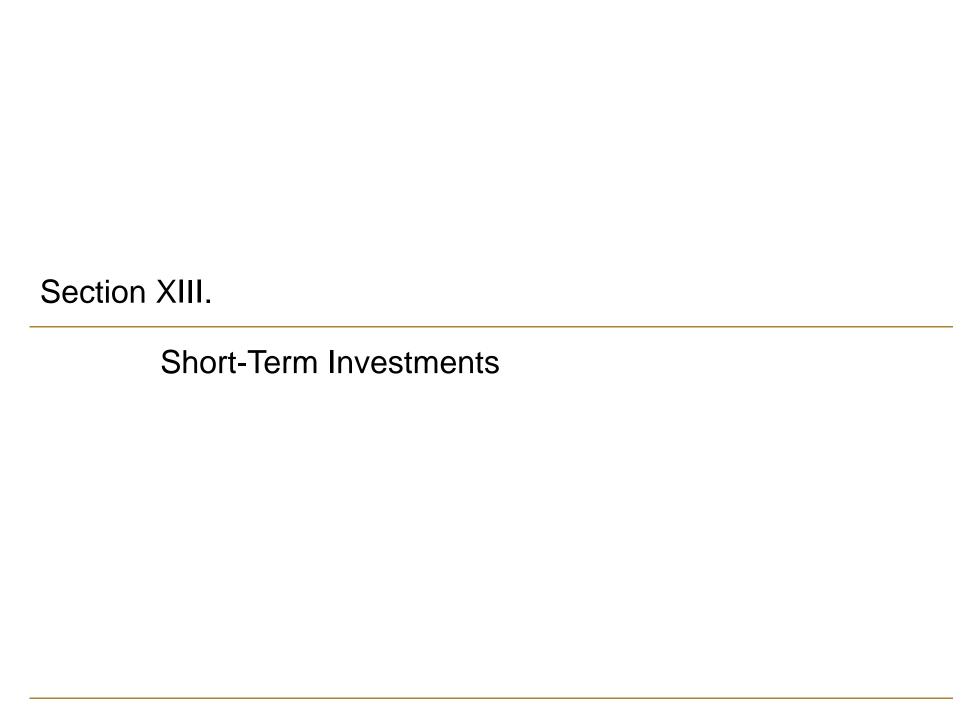
^{*}includes income from Real Estate Investments, Private Equity, and Cash Accounts

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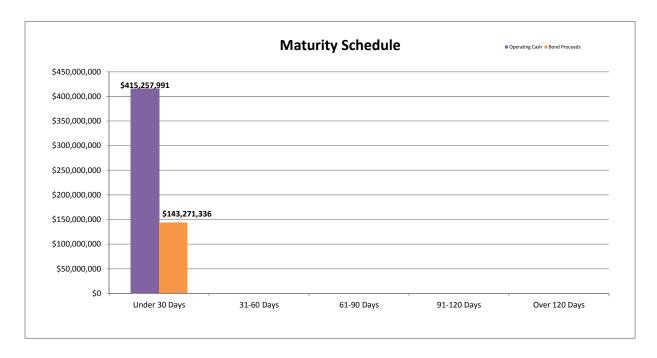
ACCRUAL BASIS

	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Projected	Projected	Projected	Projected	Projected
	Jul 17	Actual	Sept	Oct	Nov	Dec	Jan 18	Feb	Mar	Apr	May	June	TOTAL
									-	•	· · · ·		
EQUITIES US SSGA Russell 3000			41,941			41,602			37,937			39,443	160,923
Shott Capital/Hamilton Lane			10,797			1,364			1,087			539	13,788
SSGA QVM Tilt			121,825			124,353			124,256			115,000	485,434
SSOA QVIVI TIIL			174,563			167,319			163,281			161,782	181,511
FIXED INCOME													
Pyramis			158,892			159,089			157,734			170,000	645,715
Mackay Shields			161,197			149,208			170,000			170,000	650,405
Brown Bros.TIPS/GILB			74,186			68,794			63,102			77,000	283,082
			394,275			377,091			390,836			417,000	1,579,202
INT'L EQUITIES													
SSGA MSCI EAFE			58,822			61,940			71,248			62,489	254,499
SSGA MSCI CAD			8,000			8,333			8,206			7,443	31,983
SSGA MSCI Emerg Mkts			93,947			90,521			96,777			104,950	386,196
			160,769			160,794			176,232			174,883	672,678
CREDIT						,			-, -			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
WAMCO			115,575			111,879			108,385			108,461	444,300
PIMCO			125,861			122,220			118,394			130,000	496,475
			241,436			234,099			226,779			238,461	940,775
Infrastructure			,						,				
Harvest Partners			277,776			268,080			269,214			275,283	1,090,353
Long Duration													
WAMCO			9,119			20,530			31,868			30,738	92,255
Mackay Shields			12,388			23,204			25,000			32,175	92,768
			21,507			43,734			56,868			62,913	185,023
REAL ESTATE													
Direct Billed Real Estate	193,678	0	0	961,509	75,189	0	507,227	1,253,625	795,073	524,996	7,309,818	264,586	11,885,701
ALTERNATIVE INVESTMENTS													
Direct Billed Private Equity	142,868	1,309,667	97,602	147,522	652,829	(1,214)	393,361	1,610,162	1,805,947	4,319,796	5,958,287	79,530	16,516,357
SUB TOTAL-INV MGMT FEES	336,546	1,309,667	1,367,929	1,109,032	728,018	1,249,903	900,588	2,863,787	3,884,229	4,844,792	13,268,105	1,674,438	33,051,598
PROFESSIONAL FEES													
Legal	8,475	11,258	10,736	50,339	15,170	6,514	2,588	4,663	11,832	10,327	7,892	15,569	155,361
BNY Mellon - Custodial	40,636	39,239	40,247	44,474	40,140	46,222	44,254	38,731	41,190	39,000	39,000	39,000	492,133
Cliffwater	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	37,500	33,333	33,333	441,667
PCA/Russell/Aberdeen/NEPC	21,283	21,458	98,845	26,487	91,768	94,464	43,734	40,314	101,424	63,997	45,440	169,236	818,449
Payden & Rygel	23,293	24,373	22,973	23,139	25,446	23,187	23,186	26,124	23,988	23,600	22,583	23,400	285,292
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
r Gri Neur Estate	141,603	144,245	220,718	192,356	220,441	218,304	161,678	157,748	226,352	184,841	158,665	290,956	2,317,906
OPERATING EXPENSE	1.1,003	1.7,273		152,550	,	_10,504	101,070	137,740		10 1,0 11	130,003	_55,550	_,517,500
Retirement Transfers	359,498	488,767	677,553	721,761	837,137	896,040	648,915	901,064	834,367	696,560	650,150	1,361,470	9,073,281
	6,270	400,707 <u>0</u>			21,750		046,915		7,020	<u>0</u>	2,976		87,468
Other Expense	365,768	<u>u</u> 488,767	<u>0</u> 677,553	14,463 736,224	858,887	7,245 903,285	648,915	2,500 903,564	841,387	696,560	653,126	25,244 1,386,714	9,160,749
	303,708	400,707	077,333	730,224	030,007	303,263	040,515	303,304	041,367	050,500	033,120	1,300,714	3,100,749
TOTAL:	843,917	1,942,678	2,266,200	2,037,612	1,807,345	2,371,492	1,711,180	3,925,099	4,951,968	5,726,192	14,079,896	3,352,107	44,530,253

Note: Numbers in bold are actual.



Short-Term Investment Maturity Schedule & SIC Compliance Report at July 31, 2018



CD = Certificate of Deposit

CDARS = Cert.of Dep.Acct Registry Svc

MMKT = Money Market

CoD = Collateralized Deposit

OSIP = Ocean State Investment Pool

Vendor	CD	CDARS	Money Mkt	CoD	OSIP	Total (\$)
Guidelines-Total/Vendor	50%/20%	50%/20%	75%/35%	75%/35%	50%/50%	
OSIP	0	0	0	0	207,107,153	207,107,153
	0%	0%	0%	0%	50%	49.9%
Bank RI	0	0	10,123,201	0	0	10,123,201
	0%	0%	2%	0%	0%	2.4%
Santander Bank	0	0	0	2,160,757	0	2,160,757
	0%	0%	0%	1%	0%	0.5%
People's Credit Union	0	0	0	1,825,438	0	1,825,438
	0%	0%	0%	0%	0%	0.44%
Navigant Credit Union	0	0	0	4,910,074	0	4,910,074
	0%	0%	0%	1%	0%	1.18%
Bristol County Savings Bk	0	4,183,170	0	0	0	4,183,170
, ,	0%	1%	0%	0%	0%	1.01%
Centreville Bank	0	7,633,342	15,037,426	0	0	22,670,768
	0%	2%	4%	0%	0%	5.46%
Citizens Bank	0	0	0	29,614,909	0	29,614,909
	0%	0%	0%	7%	0%	7.1%
Webster Bank	0	0	0	34,597,082	0	34,597,082
	0%	0%	0%	8%	0%	8.3%
Customers Bank	0	0	0	61,498,001	0	61,498,001
	0%	0%	0%	15%	0%	14.8%
Washington Trust	0	21,277,269	0	2,564,377	0	23,841,646
	0%	5%	0%	1%	0%	5.7%
TD Bank	0	0	0	12,725,793	0	12,725,793
	0%	0%	0%	3%	0%	3.1%
TOTALS	-	33,093,781	25,160,627	149,896,431	207,107,153	415,257,991

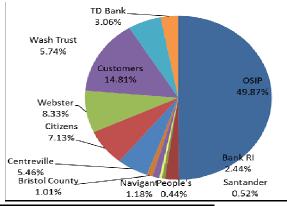
State of Rhode Island Short Term Cash Monthly Performance Performance for July 01, 2018 to July 31, 2018

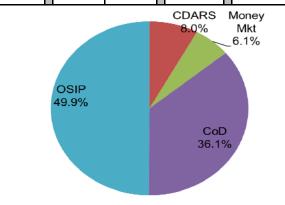
Fund Name	Ве	eginning Balance		Ending Balance	A	verage Daily Balance		Earnings	Yield(Annua
GENERAL FUND	\$	232,547,778.91	Ś	122,448,883.01	Ś	201,890,410.26	Ś	312,655.05	1.8234%
H.A.V.A	\$	301.26		301.63		301.62		0.38	1.4834%
GENERAL FUND (HIST PRES)	\$	551,532.18		552,426.92		552,395.52		973.54	2.0751%
HISTORIC TAX CREDITS	\$	10,727,666.92		10,740,744.46		10,740,133.86		18,928.62	2.0751%
HIGHWAY FUND	\$	97,010,762.52		91,361,051.49		89,288,302.00		155,234.07	2.0470%
r.D.I. RESERVE (DET)	\$	103,758,547.79		93,092,458.01		97,707,907.84		120,947.65	1.4575%
RICAP GL FUND 21	\$	31,416,110.41		29,619,937.84		35,753,715.07		52,905.99	1.7423%
BOND CAPITAL FUND	\$	49,546.09		53,178.40		1,698,269.73		2,168.71	1.5036%
R.I. CLEAN WATER ACT	\$	3,258,882.17		3,263,821.04		3,263,649.66		5,312.52	1.9166%
STATE LOTTERY FUND	\$	19,113,510.79		20,266,255.28		22,835,969.14		38,870.37	2.0042%
ASSESSED FRINGE BEN ADM	\$	514,514.41		14,579.05		211,344.32		276.36	1.5396%
AUTO EQUIPMENT SERVICE	\$	1,001,270.54		501,354.30		517,462.11		657.88	1.4969%
IEALTH INSURANCE FUND	\$	28,336,462.98		28,384,351.97		26,479,671.24		45,102.48	2.0055%
LEET REVOLVING LOAN FUND	\$	1,292,463.07		1,294,056.52		1,293,998.54		1,797.50	1.6356%
MPLOYEES RETIREMENT	\$	649,709.48		2,154,615.96		7,218,836.12		9,175.16	1.4965%
MUNICIPAL EMPLOYEES RET.	\$	352,559.26		254,107.21		2,486,263.14		3,166.21	1.4994%
ETIREE HEALTH FUND	\$	2,726,138.94		1,728,143.76		1,986,126.80		2,525.63	1.4972%
OG RETIREE FUND	\$	501,395.02		1,437.84		130,464.74		166.21	1.5000%
IPTA HEALTH FUND	\$ \$	2,558,119.89		2,261,397.02		2,377,428.55		3,022.70	1.4970%
ERMANENT SCHOOL FUND	\$ \$	1,984,732.26						3,446.20	2.0749%
EACHER RETIREE HEALTH FUND	\$ \$	2,655,365.10		1,787,952.04 4,458,696.36		1,955,582.81 4,284,299.93		6,289.41	1.7285%
I ST POL RETIREE HEALTH	\$ \$								
	\$ \$	726,362.65		226,452.69 840.86	\$	355,470.36 840.83		452.26	1.4980%
I LEG RETIREE HEALTH	\$ \$	839.82						1.07	1.4983%
I JUDICIAL RETIREE HEALTH		41,021.18		41,071.75		41,070.07		52.21	1.4968%
NIVERSITY COLLEGE	\$	1,509,001.04		9,875.58		1,042,074.62		1,829.81	2.0675%
NDUS. BLDG. & MTG. INS.	\$	738,800.64	Ş	739,999.18	Ş	739,957.11	Þ	1,304.10	2.0751%
Operating Funds Totals	\$	544,023,395.32	\$	415,257,990.17	\$	514,851,945.99	\$	787,262.09	1.800%
3OND CCDL 2006 SERIES C	\$	492,149.70	\$	492,149.70	\$	492,611.06	\$	867.36	2.0731%
SO BND-NTAX 2007 SERIES A	\$	366,001.70	\$	124,237.53	\$	155,787.99	\$	273.92	2.0702%
CDL10B BOND CAPITAL COMPONENT	\$	950,000.00	\$	950,000.00	\$	950,890.57	\$	1,674.27	2.0731%
CDL10C	\$	163,241.38	\$	163,506.20	\$	163,496.90	\$	288.15	2.0751%
CDL2011A	\$	4,392,511.80		4,391,866.36		4,396,532.46		7,740.32	2.0729%
CDL2012B	\$	6,092,902.03		6,092,902.03		6,098,613.80		10,738.06	2.0731%
60 CCDL 2013A	\$	2,700,000.00		2,700,000.00		2,702,531.10		4,758.45	2.0731%
O CCDL 2014A	Ś	94,193.10		94,193.10		94,281.40		166.00	2.0731%
O CCDL 2014B	\$	40,664.27		40,664.27		40,702.39		71.67	2.0732%
60 CCDL 2016A	\$	10,671,358.56		10,665,737.12		10,678,246.93		18,798.46	2.0728%
60 CCDL 2016B	\$	3,646,405.85		3,643,140.85		3,646,991.51		6,421.37	2.0731%
60 CCDL 2017	\$	9,362,124.77		9,209,515.49		9,238,093.63		16,265.45	2.0731%
CDL99A 1999A	\$	206,569.39		206,569.39		206,763.04		364.06	2.0731%
LEAN WATER 2007 SERIES A	\$	205,772.34		205,772.34		205,965.24		362.65	2.0732%
CDL2011A CLEAN WATER COMPONENT	\$	1,236,000.00		1,236,000.00		1,237,158.68		2,178.31	2.0731%
O CCDL 2018A	\$	69,417,663.95		67,955,082.08		68,213,018.09		120,095.83	2.0731%
O CCDL 2018B	\$	35,100,000.00		35,100,000.00		35,132,859.65		61,859.85	2.0731%
Sond Proceeds Fund Totals	\$	145,137,558.84	\$	143,271,336.46	\$	143,654,544.44	\$	252,924.18	2.073%
TANS PROCEEDS	\$	-	\$	-	\$	-	\$	-	

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

Issuer Credit Rating July 31, 2018

			Issuer Ratings	S-T Deb	t Rating	L-T Deb	t Rating	Credit Outlook	Rating
Issuer	Type of Instrument*	M/E % Portfolio	Moody's	Moody's	S&P	Moody's	S&P	S&P	Veribanc
Bank of America	-	0.0%	Baa1	P-2	A-2	А3	A-	Stable	GREEN/*
Bank RI	3,4	2.4%	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	5.5%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***/BB
Citizens Bank	4	7.1%	Baa1	P-2	A-2	A1	BBB+	Stable	GREEN/*
Customers Bank	4	14.8%	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	1.2%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Ocean State Inv. Pool	6	49.9%	N/R	N/R	N/R	N/R	N/R	N/R	N/R
People's Credit Union	4	0.4%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Santander Bank	4	0.5%	A3	P-2	A-2	A3	A-	Stable	GREEN/*
TD Bank	4	3.1%	Aa2	P-1	A-1+	Aa2	AA-	Stable	GREEN/***
Washington Trust	4,7	5.7%	N/R	N/R	N/R	N/R	N/R	N/R	GREEN/***
Webster Bank	4	8.3%	Baa1	P-1	A-2	A1	BBB+	Stable	GREEN/***





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

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
- Lowest rated class, usually in default

Moody's Long-Term Debt Ratings:

- Aaa Best Quality
- Aa High Quality
- 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
- 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

Ratings Definitions

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:

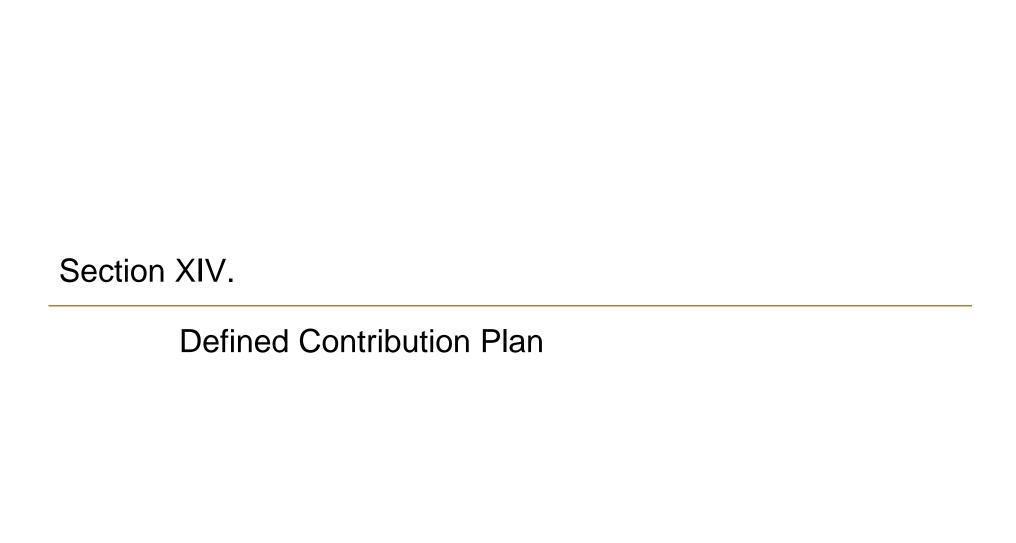
- AAA Highest rating, extremely strong
- AA Differs slightly from highest rating, very strong
- A More susceptible to adverse effects of change in economic condition, strong
- BBB Exhibits adequate protection parameters
- BB, B, Have significant speculative characteristics. BB least speculative
- CCC,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

VERIBANC Ratings:

RED

- 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
 - 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). Blue Ribbon Bank
- Modifiers: ***-Very Strong, **-Strong, *-Moderate, No Stars-Poor

during the most recent reporting period.





2018 401(a) Performance Summary

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)
		Mgr.	AUM	Gross	Net	Net	Rev	Recent F	Returns		Annı	ualized To	otal Ref	urns as	of 6/30	/2018		Since	Ince
s of 7/31/2018	Ticker	Tenure	\$ Millions	ER	ER	%-ile	Share	1mo.	YTD	1 Year	%-ile	3 Year	%-ile	5 Year	%-ile	10 Year	%-ile	Incep.	Dat
TIAA Stable Value	Current c	rediting rate	= 2.10					0.18	1.17	2.00		1.93		1.91				1.90	03/3
KED INCOME																			
ermediate-Term Bond																			
Vanguard Total Bond Market Index Adm	VBTLX	5.42	198,044.90	0.05	0.05	2	-	0.04	(1.60)	(0.53)	56	1.67	49	2.20	51	3.66	65	3.97	11/
BBgBarc US Agg Float Adj TR USD								0.04	(1.63)	(0.45)		1.74		2.26					
Intermediate-Term Bond Median				0.81	0.67			0.10	(1.57)	(0.49)		1.65		2.23		4.03			
Intermediate-Term Bond Number of Funds		1060	1016	1060	1060	1060				1021	1020	969	968	927	926	823	822		
ation-Protected Bond																			
PIMCO Real Return Instl	PRRIX	10.58	10,553.09	0.64	0.45	32	-	(0.32)	(0.57)	2.05	36	1.97	15	1.64	18	3.36	5	5.75	01/
BBgBarc US Treasury US TIPS TR USD								(0.48)	(0.51)	2.11		1.93		1.68		3.03			
Inflation-Protected Bond Median				0.79	0.60			(0.37)	(0.54)	1.70		1.47		1.13		2.49			
Inflation-Protected Bond Number of Funds		243	238	243	243	243				238	238	232	232	219	219	158	158		
UITY																			
rge Cap Blend - Index																			
Vanguard Institutional Index I	VINIX	17.58	223,489.08	0.04	0.04	2	-	3.72	6.45	14.33	28	11.90	11	13.39	11	10.17	18	9.85	07/
S&P 500 TR USD								3.72	6.47	14.37		11.93		13.42		10.17			
Vanguard FTSE Social Index Inv	VFTSX	2.58	4,627.93	0.20	0.20	8	-	3.63	6.96	15.50	13	11.79	15	14.11	3	10.72	8	4.63	05/
Spliced Social Index******								3.63	7.08	15.65		12.00		14.36		10.96			
Russell 3000 TR USD								3.32	6.64	14.78		11.58		13.29		10.23			
Large Blend Median				1.01	0.89			0.53	1.76	13.03		10.26		12.16		9.19			
Large Blend Number of Funds		1340	1298	1338	1338	1338				1303	1302	1223	1222	1155	1155	1029	1022		
d-Cap Blend																			ļ
Vanguard Mid Cap Index Institutional	VMCIX	20.17	97,856.81	0.04	0.04	1	-	2.60	5.23	12.10	48	9.22	42	12.31	20	10.11	37	10.01	05/
Spliced Mid Cap Index*								2.57	5.24	12.12		9.25		12.35		10.14			
CRSP US Mid Cap TR USD								2.57	5.24	12.12		9.25		12.35		10.00			
Mid-Cap Blend Median				1.11	1.00			2.43	3.74	10.76		7.83		10.55		9.30			
Mid-Cap Blend Number of Funds		441	423	441	441	441				438	438	392	392	371	371	318	318		
nall Blend																			
Vanguard Small Cap Index I	VSCIX	2.25	90,743.06	0.04	0.04	1	-	1.84	7.94	16.51	36	10.47	36	12.41	26	11.29	18	9.24	07/
Spliced Small Cap Index**								1.83	7.91	16.47		10.43		12.39		11.20			
CRSP US Small Cap TR USD	ı							1.83	7.91	16.47		10.43		12.39		11.59			
Small Blend Median				1.27	1.13			1.72	7.33	14.75		9.58		11.21		9.97			
		779	762	779	779	779				766	766	709	709	649	649	551	551		

□TIAA

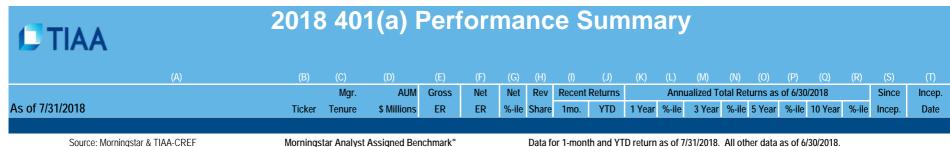
2018 401(a) Performance Summary

	(B)	(C) Mgr.	(D) AUM	(E) Gross	(F) Net	(G) Net	(H) Rev	(I) Recent I	(J) Paturns	(K)	(L)	(M) Jalized To	(N)	(0)	(P)	(Q) /2018	(R)	(S) Since	(T) Incep.
of 7/31/2018	Ticker	Tenure	\$ Millions	ER	ER		Share	1mo.	YTD	1 Year	%-ile			5 Year		10 Year	%-ile		Date
eign Large Blend	Ticker	Tenure	ψ Willioπ3	LIK	LIX	70 HC	Sildic	mio.	III	T TCul	70 IIC	3 Tour	70 HC	3 TCui	70 HC	10 Tcul	70 HC	шсер.	Dute
Schwab International Index	SWISX	1.25	4,472.62	0.06	0.06	2		2.75	0.19	6.43	50	4.83	45	6.31	41	2.70	47	4.48	05/19/9
MSCI EAFE NR USD			,					2.46	(0.36)	6.84		4.90		6.44		2.84			
Foreign Large Blend Median				1.16	1.00			2.45	(0.95)	6.05		4.30		5.93		2.57			
Foreign Large Blend Number of Funds		771	728	771	771	771			()	748	748	675	675		635	521	521		
rsified Emerging Mkts																			
Vanguard Emerging Mkts Stock ldx Adm	VEMAX	9.92	82,884.85	0.14	0.14	1	-	3.19	(4.26)	6.29	53	3.55	72	4.32	56	1.78	55	5.51	06/23/0
Spliced Emerging Markets Index***								2.82	(4.56)	6.53		3.49		4.28		1.90			
FTSE EMs AC China A Inclusion NR USD								2.81	(4.58)	6.49		3.16		4.73		2.44			
FTSE Emerging NR USD								3.32	(3.83)	7.29		4.23		4.73		2.28			
MSCI EM NR USD								2.20	(4.61)	8.20		5.60		5.01		2.26			
Diversified Emerging Mkts Median				1.65	1.32			1.96	(5.57)	6.78		5.19		4.60		2.13			
Diversified Emerging Mkts Number of Funds		824	762	824	824	824				795	795	732	732	574	574	301	300		
ycle																			
Vanguard Target Retire Inc Trust I				0.07	0.07			0.90	0.82	4.02		4.22		4.86		5.15		4.97	6/22/20
Vanguard Target Retirement Income Composite								0.86	0.83	4.20		4.33		4.99		5.17			
Target-Date Retirement Median					0.72			3.62	5.50	3.44		3.60		4.22		4.53			
Target-Date Retirement Number of Funds					199	199				193	193	181	181	159	159	126	126		
Vanguard Target Retire 2015 Trust I				0.07	0.07			1.23	1.25	5.44		5.22		6.52		6.05		5.00	6/28/200
Vanguard Target Retirement 2015 Composite								1.17	1.24	5.64		5.33		6.64		6.00			
Target-Date 2015 Median					0.65			1.32	0.97	5.04		4.98		6.08		5.35			
Target-Date 2015 Number of Funds					151	151				141	141	123	123	97	97	69	69		
Vanguard Target Retire 2020 Trust I				0.07	0.07			1.62	1.72	6.78		6.17		7.55		6.53		5.32	6/22/200
Vanguard Target Retirement 2020 Composite								1.55	1.69	6.97		6.29		7.67		6.59			
Target-Date 2020 Median					0.72			2.42	(2.18)	5.57		5.15		6.32		5.40			
Target-Date 2020 Number of Funds					268	268				256	256	229	229	195	195	150	150		
Vanguard Target Retire 2025 Trust I				0.07	0.07			1.89	2.02	7.70		6.78		8.22		6.82		5.39	6/28/200
Vanguard Target Retirement 2025 Composite								1.83	2.01	7.93		6.90		8.35		6.89			
Target-Date 2025 Median					0.71			1.68	1.62	6.72		5.96		7.12		5.94			
Target-Date 2025 Number of Funds					238	238				226	226	201	201	172	172	104	104		



2018 401(a) Performance Summary

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)
		Mgr.	AUM	Gross	Net	Net	_	Recent	Returns		Ann	ualized To	otal Re	turns as	of 6/30	/2018		Since	Incep.
As of 7/31/2018	Ticker	Tenure	\$ Millions	ER	ER	%-ile	Share	1mo.	YTD	1 Year	%-ile	3 Year	%-ile	5 Year	%-ile	10 Year	%-ile	Incep.	Date
Vanguard Target Retire 2030 Trust I				0.07	0.07			2.12	2.34	8.52		7.28		8.81		7.05		5.47	6/28/2007
Vanguard Target Retirement 2030 Composite								2.05	2.33	8.80		7.41		8.96		7.13			
Target-Date 2030 Median					0.76			1.91	1.98	7.86		6.51		7.74		6.04			
Target-Date 2030 Number of Funds					257	257				245	245	219	219	185	185	140	140		
Vanguard Target Retire 2035 Trust I				0.07	0.07			2.34	2.66	9.37		7.78		9.41		7.39		5.67	6/28/2007
Vanguard Target Retirement 2035 Composite								2.26	2.63	9.65		7.91		9.56		7.46			
Target-Date 2035 Median					0.74			2.17	2.48	9.06		7.14		8.46		6.51			
Target-Date 2035 Number of Funds					233	233				221	221	196	196	167	167	99	99		
Vanguard Target Retire 2040 Trust I				0.07	0.07			2.57	2.97	10.22		8.25		9.90		7.71		5.98	6/28/2007
Vanguard Target Retirement 2040 Composite								2.48	2.93	10.51		8.40		10.07		7.78			
Target-Date 2040 Median					0.77			2.36	2.69	9.50		7.35		8.76		6.54			
Target-Date 2040 Number of Funds					257	257				245	245	219	219	185	185	140	140		
Vanguard Target Retire 2045 Trust I				0.07	0.07			2.72	3.13	10.60		8.50		10.05		7.79		6.02	6/28/2007
Vanguard Target Retirement 2045 Composite								2.62	3.12	10.93		8.68		10.24		7.86			
Target-Date 2045 Median					0.75			2.47	2.89	10.06		7.89		9.17		6.77			
Target-Date 2045 Number of Funds					233	233				221	221	196	196	167	167	98	98		
Vanguard Target Retire 2050 Trust I				0.07	0.07			2.72	3.15	10.60		8.47		10.04		7.80		6.07	6/28/2007
Vanguard Target Retirement 2050 Composite								2.62	3.12	10.93		8.68		10.24		7.86			
Target-Date 2050 Median					0.77			2.52	2.90	10.14		7.73		9.24		6.86			
Target-Date 2050 Number of Funds					253	253				241	241	215	215	181	181	107	107		
Vanguard Target Retire 2055 Trust I				0.07	0.07			2.73	3.16	10.60		8.47		10.02				10.28	10/5/2010
Vanguard Target Retirement 2055 Composite								2.62	3.12	10.93		8.68		10.24					
Target-Date 2055 Median					0.75			2.51	3.00	10.31		7.97		9.35		6.66			
Target-Date 2055 Number of Funds					233	233				219	219	194	194	135	135	9	9		
Vanguard Target Retirement 2060 Trust I				0.07	0.07			2.72	3.17	10.62		8.47		10.02				10.09	3/1/2012
Vanguard Target Retirement 2060 Composite								2.62	3.12	10.93		8.68		10.24					
Target-Date 2060+ Median					0.75			2.54	3.18	10.70		8.44		9.47					
Target-Date 2060+ Number of Funds					218	218				181	181	75	75	8	8	0	0		
Vanguard Target Retirement 2065 Trust I				0.07	0.07			2.70	3.20									12.77	7/7/2017
Vanguard Target Retirement 2060 Composite								2.62	3.12	10.93									
Target-Date 2060+ Median					0.75			2.54	3.18	10.70		8.44		9.47					
Target-Date 2060+ Number of Funds					218	218				181	181	75	75	8	8	0	0		
·										1		1							



Morningstar Analyst Assigned Benchmark"

Data for 1-month and YTD return as of 7/31/2018. All other data as of 6/30/2018.

VA = Variable Annuity

Since Incep. = Since Inception D Incep. Date = Inception Date

Vanguard Index Information from 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.

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

Note: Rankings shown for returns are calculated by Morningstar. Rankings for expense ratio, Sharpe ratio and standard deviation are calculated by TIAA-CREF and may differ based on calculation methods

Fee Disclosures: 1 The net expense ratio reflects total annual fund operating expenses excluding interest expense. Ifinterest expense was included, returns would have been lower.

2 Accumulations in mutual funds not managed by TIAA-CREF 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 TIAA Stable Value Inception Date represents the date that the plan's TIAA Stable Value record was initiated on TIAA-CREF's recordkeeping system which may be earlier than the date of first deposit to the contract.

[&]quot;Since Inception" performance is calculated from this date.

^{****}Adjusted Total Return is based on the Account's Total Return published in the Account's historical financial statements dating back to inception. The components of the Account's financial statements upon which the Adjusted Total Return is based excludes certain cash and short term securities and expenses associated with the liquidity quarantee because the constituents of the NFI-ODCE do not have this unique product feature. See Appendix A for a full reconciliation of the historical calculation.

Disclosures



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

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 TIAACREF Website at www.tiaa-cref.org, or call 877 518-9161.

Annuity account options are available through annuity contracts issued by TIAA or CREF. These contracts are designed for retirement or other long-term goals, and offer a variety of income options, including lifetime income. Payments from the variable annuity accounts are not guaranteed and will rise or fall based on investment performance.

For the variable annuity accounts, we estimate expenses for the plan year based on projected expense and asset levels. Differences between estimated and actual expenses are adjusted quarterly and reflected in current investment results. Historically, the adjusting payments have resulted in both upward and downward adjustments.

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.

Disclosures



Any guarantees under annuities issued by TIAA are subject to TIAA's claims-paying ability. TIAA Stable Value is 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.

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 of America (TIAA) and College Retirement Equities Fund (CREF), New York, NY. Each is solely responsible for its own financial condition and contractual obligations.

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.

You should consider the investment objectives, risks, charges and expenses carefully before investing. Please call 877 518-9161 or log on to tiaacref.org for product and fund prospectuses that contains this and other information. Please read the prospectuses carefully before investing.

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Disclosures



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-CREF, 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.

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State of Rhode Island

Market Value as of 7/31/2018 Plan Balance Summary

401(a)/414(h)(2) - 405868 STATE OF RHODE ISLAND DEFINED CONTRIBUTION RETIREMENT PLAN

Ticker	Investment Name	Asset Class Description	Current Account Balance Amount
PRRIX	PIMCO Real Return Inst Class	Fixed Income	\$5,618,810.68
SWISX	Schwab International Index Fd	Equities	\$6,558,229.32
TSVX#	TIAA STABLE VALUE	Guaranteed	\$11,222,226.85
VBTLX	Vanguard Ttl Bd Mkt Idx Adm	Fixed Income	\$6,005,483.98
VEMAX	Vanguard Emr Mkts Stk Idx Adm	Equities	\$4,830,894.76
VFTSX	Vanguard FTSE Social Index Inv	Equities	\$2,068,857.88
VINIX	Vanguard Inst Idx Inst	Equities	\$26,038,648.50
VMCIX	Vanguard Mid-Cap Idx Inst	Equities	\$10,315,206.86
VSCIX	Vanguard Small-Cap Idx Inst	Equities	\$10,554,070.72
VT15#	Vanguard Tgt Rtmt 2015 Tr I	Multi-Asset	\$40,194,265.58
VT20#	Vanguard Tgt Rtmt 2020 Tr I	Multi-Asset	\$95,600,685.64
VT25#	Vanguard Tgt Rtmt 2025 Tr I	Multi-Asset	\$117,847,687.11
VT30#	Vanguard Tgt Rtmt 2030 Tr I	Multi-Asset	\$126,747,871.97
VT35#	Vanguard Tgt Rtmt 2035 Tr I	Multi-Asset	\$137,921,421.95
VT40#	Vanguard Tgt Rtmt 2040 Tr I	Multi-Asset	\$111,639,169.26
VT45#	Vanguard Tgt Rtmt 2045 Tr I	Multi-Asset	\$83,995,399.04
VT50#	Vanguard Tgt Rtmt 2050 Tr I	Multi-Asset	\$49,231,283.59
VT55#	Vanguard Tgt Rtmt 2055 Tr I	Multi-Asset	\$19,081,734.09
VT60#	Vanguard Tgt Rtmt 2060 Tr I	Multi-Asset	\$2,436,317.13
VT65#	Vanguard Target Rtmt 2065 Tr I	Multi-Asset	\$114,854.15
VTIN#	Vanguard Tgt Rtmt Income Tr I	Multi-Asset	\$11,305,604.34
			\$879,328,723.40

State of Rhode Island

Market Value as of 7/31/2018 Plan Balance Summary

401(a) - Rhode Island FICA 406403 Alternative RET Income Security Program

Ticker	Investment Name	Asset Class Description	Current Account Balance Amount
TSVX#	TIAA STABLE VALUE	Guaranteed	\$3,716.17
VT15#	Vanguard Tgt Rtmt 2015 Tr I	Multi-Asset	\$12,706.81
VT20#	Vanguard Tgt Rtmt 2020 Tr I	Multi-Asset	\$1,422,408.51
VT25#	Vanguard Tgt Rtmt 2025 Tr I	Multi-Asset	\$139,332.89
VT30#	Vanguard Tgt Rtmt 2030 Tr I	Multi-Asset	\$146,601.59
VT35#	Vanguard Tgt Rtmt 2035 Tr I	Multi-Asset	\$92,804.25
VT40#	Vanguard Tgt Rtmt 2040 Tr I	Multi-Asset	\$67,230.18
VT45#	Vanguard Tgt Rtmt 2045 Tr I	Multi-Asset	\$101,162.58
VT50#	Vanguard Tgt Rtmt 2050 Tr I	Multi-Asset	\$109,486.85
VT55#	Vanguard Tgt Rtmt 2055 Tr I	Multi-Asset	\$230,241.04
VT60#	Vanguard Tgt Rtmt 2060 Tr I	Multi-Asset	\$584,340.43
VT65#	Vanguard Target Rtmt 2065 Tr I	Multi-Asset	\$45,471.44
VTIN#	Vanguard Tgt Rtmt Income Tr I	Multi-Asset	\$16,435.24
			\$2,971,937.98

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BUILT TO PERFORM.



457 Plans



2018 457(b) Performance Summary

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(0)	(P)	(Q)	(R)	(S)	(T)
		Mgr.	AUM	Gross	Net	Net	Rev	Recent F	Returns		Annı	ualized To	tal Ret	turns as	of 6/30	/2018		Since	Incep.
s of 7/31/2018	Ticker	Tenure	\$ Millions	ER	ER	%-ile	Share	1mo.	YTD	1 Year	%-ile	3 Year	%-ile	5 Year	%-ile	10 Year	%-ile	Incep.	Date
TIAA Traditional RCP	Current c	rediting rate	e = 3.50					0.28	1.94	3.30		3.45		3.50		3.56		3.72	06/01
KED INCOME																			
ermediate-Term Bond																			
PIMCO Total Return Instl	PTTRX	3.83	70,555.04	0.51	0.46	25	-	0.22	(1. 49)	(0.12)	31	2.10	27	2.49	33	4.85	12	7.14	05/11
BBgBarc US Agg Bor	nd TR USD							0.02	(1.59)	(0.40)		1.72		2.27		3.72			
Vanguard Total Bond Market Index Adm	VBTLX	5.42	198,044.90	0.05	0.05	2	-	0.04	(1.60)	(0.53)	56	1.67	49	2.20	51	3.66	65	3.97	11/12
BBgBarc US Agg Float A	dj TR USD							0.04	(1.63)	(0.45)		1.74		2.26					
Intermediate-Term Bo	nd Median			0.81	0.67			0.10	(1.57)	(0.49)		1.65		2.23		4.03			
Intermediate-Term Bond Number	er of Funds	1060	1016	1060	1060	1060				1021	1020	969	968	927	926	823	822		
lation-Protected Bond																			
American Century Inflation-Adjs Bond R6	AIADX	16.67	2,831.84	0.22	0.22	9	-	(0.26)	(0.71)	1.78	49	1.82	30	1.28	42	2.67	45	1.25	07/28
BBgBarc US Treasury US TIF	S TR USD							(0.48)	(0.51)	2.11		1.93		1.68		3.03			
Inflation-Protected Bo	nd Median			0.79	0.60			(0.37)	(0.12)	1.70		1.47		1.13		2.49			
Inflation-Protected Bond Number	er of Funds	243	238	243	243	243				238	238	232	232	219	219	158	158		
UITY																			
rge Cap Blend - Index																			
Vanguard Institutional Index I	VINIX	17.58	223,489.08	0.04	0.04	2	-	3.72	6.45	14.33	28	11.90	11	13.39	11	10.17	18	9.85	07/31
S&P 50	00 TR USD							3.72	6.47	14.37		11.93		13.42		10.17			
Vanguard FTSE Social Index Inv	VFTSX	2.58	4,627.93	0.20	0.20	8	-	3.63	6.96	15.50	13	11.79	15	14.11	3	10.72	8	4.63	05/31/
Spliced Soc	ial Index***							3.63	7.08	15.65		12.00		14.36		10.96			
Russell 300	00 TR USD							3.32	6.64	14.78		11.58		13.29		10.23			
Large Ble	nd Median			1.01	0.89			0.53	1.76	13.03		10.26		12.16		9.19			
Large Blend Number	er of Funds	1340	1298	1338	1338	1338				1303	1302	1223	1222	1155	1155	1029	1022		
d-Cap Blend																			
Vanguard Mid Cap Index Institutional	VMCIX	20.17	97,856.81	0.04	0.04	1	-	2.60	5.23	12.10	48	9.22	42	12.31	20	10.11	37	10.01	05/21
Spliced Mid	•							2.57	5.24	12.12		9.25		12.35		10.14			
CRSP US Mid Ca	ap TR USD							2.57	5.24	12.12		9.25		12.35		10.00			
Mid-Cap Ble	nd Median			1.11	1.00			2.43	3.74	10.76		7.83		10.55		9.30			
Mid-Cap Blend Numbe	er of Funds	441	423	441	441	441				438	438	392	392	371	371	318	318		

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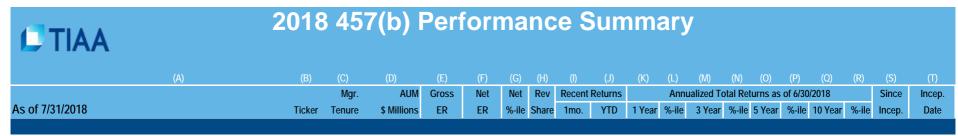
2018 457(b) Performance Summary

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)
		Mgr.	AUM	Gross	Net	Net	Rev	Recent l	Returns		Annı	ualized To	tal Ret	turns as	of 6/30	/2018		Since	Incep.
As of 7/31/2018	Ticker	Tenure	\$ Millions	ER	ER	%-ile	Share	1mo.	YTD	1 Year	%-ile	3 Year	%-ile	5 Year	%-ile	10 Year	%-ile	Incep.	Date
Small Blend																			
Vanguard Small Cap Index I	VSCIX	2.25	90,743.06	0.04	0.04	1	-	1.84	7.94	16.51	36	10.47	36	12.41	26	11.29	18	9.24	07/07/97
Spliced Small C	Cap Index**							1.83	7.91	16.47		10.43		12.39		11.20			
CRSP US Small	ll Cap TR USD							1.83	7.91	16.47		10.43		12.39		11.59			
Small	Blend Median			1.27	1.13			1.72	7.33	14.75		9.58		11.21		9.97			
Small Blend Nur	mber of Funds	779	762	779	779	779				766	766	709	709	649	649	551	551		
Foreign Large Blend																			
Schwab International Index	SWISX	1.25	4,472.62	0.06	0.06	2	-	2.75	0.19	6.43	50	4.83	45	6.31	41	2.70	47	4.48	05/19/97
MSCI E	EAFE NR USD							2.46	(0.36)	6.84		4.90		6.44		2.84			
Foreign Large	Blend Median			1.16	1.00			2.45	(0.95)	6.05		4.30		5.93		2.57			
Foreign Large Blend Nur	mber of Funds	771	728	771	771	771				748	748	675	675	635	635	521	521		
Foreign Large Growth												,				,			
American Funds Europacific Growth R6	RERGX	26.58	163,874.66	0.49	0.49	3	-	2.13	(0.27)	9.35	52	6.51	44	8.34	28	4.82	24	9.86	05/01/09
MSCI ACWI Ex	USA NR USD							2.39	(1.46)	7.28		5.07		5.99		2.54			
Foreign Large G	Growth Median			1.24	1.10			2.13	(0.75)	10.43		6.14		7.44		3.97			
Foreign Large Growth Nur	mber of Funds	432	408	432	432	432				429	429	383	383	369	369	314	304		
Lifecycle																			
Vanguard Target Retire Inc Trust I				0.07	0.07			0.90	0.82	4.02		4.22		4.86		5.15		4.97	6/22/2007
Vanguard Target Retirement Incor	me Composite							0.86	0.83	4.20		4.33		4.99		5.17			
Target-Date Retire	ement Median				0.72			3.62	5.50	3.44		3.60		4.22		4.53			
Target-Date Retirement Nur	mber of Funds				199	199				193	193	181	181	159	159	126	126		
Vanguard Target Retire 2015 Trust I				0.07	0.07			1.23	1.25	5.44		5.22		6.52		6.05		5.00	6/28/2007
Vanguard Target Retirement 20	015 Composite							1.17	1.24	5.64		5.33		6.64		6.00			
Target-Date	e 2015 Median				0.65			1.32	0.97	5.04		4.98		6.08		5.35			
Target-Date 2015 Nur	mber of Funds				151	151				141	141	123	123	97	97	69	69		
Vanguard Target Retire 2020 Trust I				0.07	0.07			1.62	1.72	6.78		6.17		7.55		6.53		5.32	6/22/2007
Vanguard Target Retirement 20	020 Composite							1.55	1.69	6.97		6.29		7.67		6.59			
Target-Date	e 2020 Median				0.72			2.42	(2.18)	5.57		5.15		6.32		5.40			
Target-Date 2020 Nur	mber of Funds				268	268				256	256	229	229	195	195	150	150		
Vanguard Target Retire 2025 Trust I				0.07	0.07			1.89	2.02	7.70		6.78		8.22		6.82		5.39	6/28/2007
Vanguard Target Retirement 20	025 Composite							1.83	2.01	7.93		6.90		8.35		6.89			
Target-Date	e 2025 Median				0.71			1.68	1.62	6.72		5.96		7.12		5.94			
Target-Date 2025 Nur	mber of Funds				238	238				226	226	201	201	172	172	104	104		



2018 457(b) Performance Summary

Second Manuard Tuke Manuard Second Manuard	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)
\text{Variguard Target Retire 2030 Truss 1 \tag{0.75} 0.75 \ta			Mgr.	AUM	Gross	Net	Net	Rev	Recent	Returns)/2018		Since	Incep.
Name	As of 7/31/2018	Ticker	Tenure	\$ Millions	ER	ER	%-ile	Share	1mo.	YTD	1 Year	%-ile	3 Year	%-ile	5 Year	%-ile	10 Year	%-ile	Incep.	Date
Target-Date 2030 Member of Funds 10,76 7,77 1,76 1,76 1,77 1,7	Vanguard Target Retire 2030 Trust I				0.07	0.07			2.12	2.34	8.52		7.28		8.81		7.05		5.47	6/28/2007
Varguard Target Retire 2035 Trust1	Vanguard Target Retirement 2030 Composite								2.05	2.33	8.80		7.41		8.96		7.13			
Nanyard Target Retire 2035 Trust 1 \tag 0.07 \tag	Target-Date 2030 Median					0.76			1.91	1.98	7.86		6.51		7.74		6.04			
Vanguard Target Retirement 2035 Composite 174 17	Target-Date 2030 Number of Funds					257	257				245	245	219	219	185	185	140	140		
Target-Date 2035 Member of Funds 233 Member of Funds 243 Member of	Vanguard Target Retire 2035 Trust I				0.07	0.07			2.34	2.66	9.37		7.78		9.41		7.39		5.67	6/28/2007
Vanguard Target-Date 203S Number of Funds	Vanguard Target Retirement 2035 Composite								2.26	2.63	9.65		7.91		9.56		7.46			
Vanguard Target Retire-2040 Trust 1 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.	Target-Date 2035 Median					0.74			2.17	2.48	9.06		7.14		8.46		6.51			
Vanguard Target Retirement 2040 Composite	Target-Date 2035 Number of Funds					233	233				221	221	196	196	167	167	99	99		
Target-Date 2040 Mendian	Vanguard Target Retire 2040 Trust I				0.07	0.07			2.57	2.97	10.22		8.25		9.90		7.71		5.98	6/28/2007
Target-Date 2040 Number of Funds 257 257 257 257 257 257 258 258 259 259 185 185 140 140 420 420 185 185 140 140 420 628/2007 200 250 250 250 150	Vanguard Target Retirement 2040 Composite								2.48	2.93	10.51		8.40		10.07		7.78			
Vanguard Target Retire 2045 Trust I 0.07 0.07 0.07 2.72 3.13 1.06 8.50 1.025 7.79 6.02 6/28/2007 Vanguard Target Retirement 2045 Composite 2.62 3.12 1.03 8.68 1.024 7.76 6.77 6.02 6/28/2007 Target-Date 2045 Number of Funds 233 233 233 1.06 2.7 21 21 1.07 1.07 6.77 6.07 6.78 6.77 6.07 6.28/2007 7.00 7.00 2.7 2.1 2.1 1.00 1.07 6.77 9.00 1.00 1.00 6.07 7.80 6.07 7.80 6.07 7.80 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00 7.80 6.00 6.00 6.00 6.00 7.80 6.00 6.00 6.00 7.80 6.00 6.00 6.00 7.80 6.00 6.00	Target-Date 2040 Median					0.77			2.36	2.69	9.50		7.35		8.76		6.54			
Vanguard Target Retirement 2045 Composite 2.62 3.12 10.93 8.68 10.24 7.86 7.8	Target-Date 2040 Number of Funds					257	257				245	245	219	219	185	185	140	140		
Target-Date 2045 Median Target-Date 2045 Number of Funds 233 233 233 233 233 233 233 233 233 233	Vanguard Target Retire 2045 Trust I				0.07	0.07			2.72	3.13	10.60		8.50		10.05		7.79		6.02	6/28/2007
Vanguard Target Retiree 2050 Trust I	Vanguard Target Retirement 2045 Composite								2.62	3.12	10.93		8.68		10.24		7.86			
Vanguard Target Retire 2050 Trust I 0.07 0.07 0.07 2.72 3.15 10.60 8.47 10.04 7.80 6.07 6.28/20/00 6.28/20/00 6.28/20/00 6.07 6.28/20/00 6.28/20/00 6.07 6.28/20/00 6.28/20/00 6.07 6.28/20/00 6.07 6.28/20/00 6.07 6.07 6.28/20/00 6.07 6.28/20/00 6.07 6.28/20/00 6.07 6.07 6.07 6.28/20/00 6.07 <t< td=""><td>Target-Date 2045 Median</td><td></td><td></td><td></td><td></td><td>0.75</td><td></td><td></td><td>2.47</td><td>2.89</td><td>10.06</td><td></td><td>7.89</td><td></td><td>9.17</td><td></td><td>6.77</td><td></td><td></td><td></td></t<>	Target-Date 2045 Median					0.75			2.47	2.89	10.06		7.89		9.17		6.77			
Vanguard Target Retirement 2050 Compositie 2.62 3.12 10.93 8.68 10.24 7.86 6.8	Target-Date 2045 Number of Funds					233	233				221	221	196	196	167	167	98	98		
Target-Date 2050 Median Target-Date 2050 Number of Funds 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.	Vanguard Target Retire 2050 Trust I				0.07	0.07			2.72	3.15	10.60		8.47		10.04		7.80		6.07	6/28/2007
Target-Date 2050 Number of Funds 253 253 253 241 215 215 181 187 107 107 107 1075/2010 Vanguard Target Retire 2055 Trust I 0.07 0.07 2.73 3.16 10.60 8.47 10.02 4 10.28 10/5/2010 Vanguard Target Retirement 2055 Composite 2.62 3.12 10.93 1.07 7.77 7.77 9.35 1.02 6.66 4 4 4 1.02 4 4 1.02 4 <td< td=""><td>Vanguard Target Retirement 2050 Composite</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.62</td><td>3.12</td><td>10.93</td><td></td><td>8.68</td><td></td><td>10.24</td><td></td><td>7.86</td><td></td><td></td><td></td></td<>	Vanguard Target Retirement 2050 Composite								2.62	3.12	10.93		8.68		10.24		7.86			
Vanguard Target Retire 2055 Trust I 0.07 0.07 0.07 0.07 2.73 3.16 10.60 8.47 10.02 L 10.28 10/5/2010 Vanguard Target Retirement 2055 Composite 2.62 3.12 10.93 8.68 10.24 10.24 10.28 10/5/2010 Target-Date 2055 Median 0.75 2.51 3.00 10.31 7.97 9.35 6.66	Target-Date 2050 Median					0.77			2.52	2.90	10.14		7.73		9.24		6.86			
Vanguard Target Retirement 2055 Composite 2.62 3.12 10.93 8.68 10.24 9.35 6.66 9 Target-Date 2055 Median 0.75 2.51 3.00 10.31 7.97 9.35 6.66 9 Target-Date 2055 Number of Funds 233 233 233 218 219 219 194 194 195 135 9 9 Vanguard Target Retirement 2060 Trust I 0.07 0.07 2.72 3.17 10.62 8.47 10.02 10.09 3/1/2012 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 8.68 10.24 9.47 10.09 3/1/2012 Target-Date 2060+ Number of Funds 2.75 2.54 3.18 10.70 8.44 9.47 9.47 10.09 9.47 <t< td=""><td>Target-Date 2050 Number of Funds</td><td></td><td></td><td></td><td></td><td>253</td><td>253</td><td></td><td></td><td></td><td>241</td><td>241</td><td>215</td><td>215</td><td>181</td><td>181</td><td>107</td><td>107</td><td></td><td></td></t<>	Target-Date 2050 Number of Funds					253	253				241	241	215	215	181	181	107	107		
Target-Date 2055 Median 0.75 2.51 3.00 10.31 7.97 9.35 6.66 9 9 Vanguard Target-Date 2055 Number of Funds 233 233 233 233 233 233 219 219 219 194 194 135 135 9 9 Vanguard Target Retirement 2060 Trust I 0.07 0.07 2.72 3.17 10.62 8.47 10.02 0 10.09 3/1/2012 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 8.68 10.24 9.47 10.09 3/1/2012 Vanguard Target-Date 2060+ Mumber of Funds 218 218 218 181 181 75 75 8 8 0 0 Vanguard Target Retirement 2065 Trust I 0.07 0.07 0.07 2.70 3.20 0 0 0 12.77 7/1/2017 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 0 0 0 0 0 0	Vanguard Target Retire 2055 Trust I				0.07	0.07			2.73	3.16	10.60		8.47		10.02				10.28	10/5/2010
Target-Date 2055 Number of Funds 233 233 233 233 219 194 194 135 135 9 9 10.09 3/1/2012 Vanguard Target Retirement 2060 Trust I 0.07 0.07 0.07 2.72 3.17 10.62 8.47 10.02 4 10.09 3/1/2012 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 8.68 10.24 9 9 10.09 3/1/2012 Target-Date 2060+ Median 0.75 2.54 3.18 10.70 8.44 9.47 9 9 10.09 3/1/2012 Vanguard Target Retirement 2060 Number of Funds 218 218 218 181 75 75 8 8 0 0 Vanguard Target Retirement 2065 Trust I 0.07 0.07 0.07 2.70 3.20 10.93	Vanguard Target Retirement 2055 Composite								2.62	3.12	10.93		8.68		10.24					
Vanguard Target Retirement 2060 Trust I 0.07 0.07 0.07 2.72 3.17 10.62 8.47 10.02 10.09 3/1/2012 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 8.68 10.24 10.02 10.09 3/1/2012 Target-Date 2060+ Median 0.75 2.54 3.18 10.70 8.44 9.47 Target-Date 2060+ Number of Funds 218 218 218 181 181 75 75 8 8 0 0 Vanguard Target Retirement 2065 Trust I 0.07 0.07 2.62 3.12 10.93 10.02 8.44 9.47 8 0 0 Vanguard Target Retirement 2065 Trust I 0.07 0.07 2.70 3.20 10.93 10.93 12.77 7/7/2017 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 <t< td=""><td>Target-Date 2055 Median</td><td></td><td></td><td></td><td></td><td>0.75</td><td></td><td></td><td>2.51</td><td>3.00</td><td>10.31</td><td></td><td>7.97</td><td></td><td>9.35</td><td></td><td>6.66</td><td></td><td></td><td></td></t<>	Target-Date 2055 Median					0.75			2.51	3.00	10.31		7.97		9.35		6.66			
Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 8.68 10.24 <td>Target-Date 2055 Number of Funds</td> <td></td> <td></td> <td></td> <td></td> <td>233</td> <td>233</td> <td></td> <td></td> <td></td> <td>219</td> <td>219</td> <td>194</td> <td>194</td> <td>135</td> <td>135</td> <td>9</td> <td>9</td> <td></td> <td></td>	Target-Date 2055 Number of Funds					233	233				219	219	194	194	135	135	9	9		
Target-Date 2060+ Median 0.75 2.54 3.18 10.70 8.44 9.47	Vanguard Target Retirement 2060 Trust I				0.07	0.07			2.72	3.17	10.62		8.47		10.02				10.09	3/1/2012
Target-Date 2060+ Number of Funds 218 218 181 181 75 75 8 8 0 0 Vanguard Target Retirement 2065 Trust I 0.07 0.07 0.07 2.70 3.20 2.62 3.12 10.93 5 5 8 8 0 0 12.77 7/7/2017 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 5 5 5 5 5 5 6 5 6 5 12.77 7/7/2017	Vanguard Target Retirement 2060 Composite								2.62	3.12	10.93		8.68		10.24					
Vanguard Target Retirement 2065 Trust I 0.07 0.07 2.70 3.20 12.77 7/7/2017 Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93 6 6 10.93 7 10.93 6 10.93 6 10.93 6 10.93 6 10.93 6 10.93 6 10.93 6 10.93 <td>Target-Date 2060+ Median</td> <td></td> <td></td> <td></td> <td></td> <td>0.75</td> <td></td> <td></td> <td>2.54</td> <td>3.18</td> <td>10.70</td> <td></td> <td>8.44</td> <td></td> <td>9.47</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Target-Date 2060+ Median					0.75			2.54	3.18	10.70		8.44		9.47					
Vanguard Target Retirement 2060 Composite 2.62 3.12 10.93	Target-Date 2060+ Number of Funds					218	218				181	181	75	75	8	8	0	0		
	Vanguard Target Retirement 2065 Trust I				0.07	0.07			2.70	3.20									12.77	7/7/2017
Target-Date 2060+ Median 0.75 2.54 3.18 10.70 8.44 9.47	Vanguard Target Retirement 2060 Composite								2.62	3.12	10.93									
	Target-Date 2060+ Median					0.75			2.54	3.18	10.70		8.44		9.47					
Target-Date 2060+ Number of Funds 218 218 181 181 75 75 8 8 0 0	Target-Date 2060+ Number of Funds					218	218				181	181	75	75	8	8	0	0		



Source: Morningstar & TIAA-CREF

Data for 1-month and YTD return as of 7/31/2018. All other data as of 6/30/2018.

Since Incep. = Since Inception Date

Incep. Date = Inception Date

In a multi-share situation, Morningstar will adjust the performance history of the original portfolio to reflect any differences in fees between the original share class and the new share class.

Vanguard Index Information from 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

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

Note: Rankings shown for returns are calculated by Morningstar. Rankings for expense ratio, Sharpe ratio and standard deviation are calculated by TIAA-CREF and may differ based on calculation methods

Fee Disclosures: 1 The net expense ratio reflects total annual fund operating expenses excluding interest expense. Ifinterest expense was included, returns would have been lower.

2 Accumulations in mutual funds not managed by TIAA-CREF 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

[&]quot;Since Inception" performance is calculated from this date.

Disclosures



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

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 TIAACREF Website at www.tiaa-cref.org, or call 877 518-9161.

Annuity account options are available through annuity contracts issued by TIAA or CREF. These contracts are designed for retirement or other long-term goals, and offer a variety of income options, including lifetime income. Payments from the variable annuity accounts are not guaranteed and will rise or fall based on investment performance.

For the variable annuity accounts, we estimate expenses for the plan year based on projected expense and asset levels. Differences between estimated and actual expenses are adjusted quarterly and reflected in current investment results. Historically, the adjusting payments have resulted in both upward and downward adjustments.

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.

Disclosures



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

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For each fund/account with at least a three-year history, Morningstar calculates a Morningstar RatingTM based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a fund's/account's monthly performance (including the effects of sales charges, loads, and redemption fees), placing more emphasis on downward variations and rewarding consistent performance. Where applicable, Morningstar's performance rankings are based on linked performance that considers the differences in expense ratios, while actual performance data shown does not reflect such differences. The top 10 percent of funds/accounts in a category receive five stars, the next 22.5 percent receive four stars, and the next 35 percent receive three stars, the next 22.5 percent receive two stars and the bottom 10 percent receive one star. (Each share class is counted as a fraction of one fund/account within this scale and rated separately, which may cause slight variations in the distribution percentages.) Morningstar proprietary ratings on U.S.-domiciled funds/accounts reflect historical risk-adjusted performance, are subject to change every month. They are derived from a weighted average of the performance figures associated with its three-, five- and ten-year (if applicable) Morningstar Rating metrics. Please note, Morningstar now rates group variable annuities within the open-end mutual fund universe.

Disclosures



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-CREF, 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.

TIAA-CREF 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 a hypothetical investor over the requested time period. So the return for one year is calculated using the same formula as one month. TIAA-CREF calculates returns by \$1,000 owned by hypothetical investor for one month then links returns for requested time period. Both set of returns include dividends and capital gains.

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237048

State of Rhode Island

Market Value as of 7/31/2018 Plan Balance Summary

457(b) - Plan 407359

State of Rhode Island 457(b) Deferred Compensation Plan

Ticker	Investment Name	Asset Class Description	Current Account Balance Amount
AIADX	American Century Inf Adj Bd R6	Fixed Income	\$551,171.58
PTTRX	PIMCO Total Return Instl	Fixed Income	\$599,393.02
RERGX	American EuroPac Growth R6	Equities	\$1,739,350.22
SWISX	Schwab International Index Fd	Equities	\$186,962.68
TIAA#	TIAA Traditional Benefit Responsive 2	Guaranteed	\$3,724,598.68
VBTLX	Vanguard Ttl Bd Mkt Idx Adm	Fixed Income	\$99,225.49
VFTSX	Vanguard FTSE Social Index Inv	Equities	\$255,645.19
VINIX	Vanguard Inst Idx Inst	Equities	\$9,475,728.09
VLC1#	VALIC Fixed-Interest Opt 3%	Guaranteed	\$8,968,944.65
VLC2#	VALIC Fixed-Interest Opt 1.5%	Guaranteed	\$84,417.64
VMCIX	Vanguard Mid-Cap Idx Inst	Equities	\$5,069,136.32
VSCIX	Vanguard Small-Cap Idx Inst	Equities	\$3,176,407.19
VT15#	Vanguard Tgt Rtmt 2015 Tr I	Multi-Asset	\$5,646.34
VT20#	Vanguard Tgt Rtmt 2020 Tr I	Multi-Asset	\$548,940.86
VT25#	Vanguard Tgt Rtmt 2025 Tr I	Multi-Asset	\$83,233.76
VT30#	Vanguard Tgt Rtmt 2030 Tr I	Multi-Asset	\$523,827.28
VT35#	Vanguard Tgt Rtmt 2035 Tr I	Multi-Asset	\$197,242.45
VT40#	Vanguard Tgt Rtmt 2040 Tr I	Multi-Asset	\$16,226.05
VT45#	Vanguard Tgt Rtmt 2045 Tr I	Multi-Asset	\$56,088.61
VT50#	Vanguard Tgt Rtmt 2050 Tr I	Multi-Asset	\$57,461.14
VT55#	Vanguard Tgt Rtmt 2055 Tr I	Multi-Asset	\$934.30
VT60#	Vanguard Tgt Rtmt 2060 Tr I	Multi-Asset	\$0.00
VTIN#	Vanguard Tgt Rtmt Income Tr I	Multi-Asset	\$52,653.25
			\$35,473,234.79

TIAA

Disclosures

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BUILT TO PERFORM.

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.

	Cumu	ılative T	otal Retu	ırns	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	07/31/2018	4.83	5.80	4.07	06/30/2018	16.31	14.07	12.96	10.78		
BLOOMBERG BARCLAYS U.S. AGGREGATE BOND INDEX	07/31/2018	0.02	0.61	-1.59	06/30/2018	-0.40	1.72	2.27	3.72		
NASDAQ COMPOSITE INDEX	07/31/2018	2.19	8.86	11.77	06/30/2018	23.60	15.96	18.54	13.87		
RUSSELL 2000 INDEX	07/31/2018	1.74	8.69	9.54	06/30/2018	17.57	10.96	12.46	10.60		
S&P 500 INDEX	07/31/2018	3.72	6.87	6.47	06/30/2018	14.37	11.93	13.42	10.17		

	Cumulative Total Returns				Ave	rage An	nual Tot	al Returi	ns		Fe	es	
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 Investment	S												
Large Cap													
FID 500 INDEX INST	07/31/2018	3.73	6.87	6.46	06/30/2018	14.35	11.90	13.39	10.15	10.30		0.01% on 08/01/2018	02/17/1988
FID CONTRAFUND K	07/31/2018	1.94	7.08	11.70	06/30/2018	24.13	15.00	16.14	11.02	12.66		0.65% on 03/01/2018	05/17/1967
FID LARGE CAP STOCK	07/31/2018	4.37	7.03	5.63	06/30/2018	12.11	9.60	12.26	10.80	8.67		0.67% on 06/29/2018	06/22/1995
INVESCO DIVRS DIV R6	07/31/2018	3.30	3.80	1.13	06/30/2018	2.88	6.90	9.54	9.35	7.90		0.44% on 02/28/2018	12/31/2001
VANG FTSE SOCIAL IDX	07/31/2018	3.63	7.23	6.96	06/30/2018	15.50	11.79	14.11	10.72	4.63		0.20% on 12/21/2017	05/31/2000
Mid-Cap													
FID LOW PRICED STK K	07/31/2018	1.20	1.09	2.13	06/30/2018	13.07	8.17	10.66	10.30	13.71		0.58% on 08/29/2017	12/27/1989
FID MID CAP IDX PR	07/31/2018	2.49	5.55	4.85	06/30/2018	12.30	9.53	12.17		14.44		0.03% on 08/01/2018	09/08/2011
Small Cap													
FID SM CAP IDX PR	07/31/2018	1.75	8.70	9.61	06/30/2018	17.73	11.16	12.67		15.18		0.03% on 08/01/2018	09/08/2011
International													
FID INTL INDEX PR	07/31/2018	2.57	-0.81	-0.04	06/30/2018	6.60	4.93	6.47	2.99	5.02		0.04% on 08/01/2018	11/05/1997
HARBOR INTL INST	07/31/2018	1.65	0.09	0.31	06/30/2018	4.48	2.86	4.87	2.76	10.58		0.81% on 03/01/2018	12/29/1987

	Cum	ılative T	otal Retu	ırns	Ave	rage An	nual Tot	tal Returi	ns		Fe	es	
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 Investm	ents*												
Others													
FID FREEDOM 2005 K	07/31/2018	0.65	1.05	0.56	06/30/2018	4.55	4.60	5.24	4.50	4.90		0.43% on 05/30/2018	11/06/2003
FID FREEDOM 2010 K	07/31/2018	0.83	1.27	0.83	06/30/2018	5.64	5.33	6.23	5.30	6.47		0.46% on 05/30/2018	10/17/1996
FID FREEDOM 2015 K	07/31/2018	1.07	1.56	1.25	06/30/2018	6.61	6.04	6.91	5.56	5.92		0.50% on 05/30/2018	11/06/2003
FID FREEDOM 2020 K	07/31/2018	1.30	1.76	1.52	06/30/2018	7.32	6.48	7.43	5.66	6.81		0.54% on 05/30/2018	10/17/1996
FID FREEDOM 2025 K	07/31/2018	1.42	1.96	1.75	06/30/2018	7.97	6.86	8.16	6.12	6.53		0.57% on 05/30/2018	11/06/2003
FID FREEDOM 2030 K	07/31/2018	1.70	2.28	2.28	06/30/2018	9.52	7.86	9.10	6.28	7.01		0.61% on 05/30/2018	10/17/1996
FID FREEDOM 2035 K	07/31/2018	1.94	2.63	2.83	06/30/2018	10.89	8.65	9.91	6.69	7.06		0.64% on 05/30/2018	11/06/2003
FID FREEDOM 2040 K	07/31/2018	2.10	2.67	2.86	06/30/2018	11.02	8.73	9.98	6.65	4.21		0.65% on 05/30/2018	09/06/2000
FID FREEDOM 2045 K	07/31/2018	2.10	2.76	2.93	06/30/2018	11.03	8.72	10.04	6.71	6.17		0.65% on 05/30/2018	06/01/2006
FID FREEDOM 2050 K	07/31/2018	2.09	2.71	2.97	06/30/2018	11.03	8.73	10.07	6.54	6.01		0.65% on 05/30/2018	06/01/2006
FID FREEDOM 2055 K	07/31/2018	2.07	2.69	2.91	06/30/2018	11.09	8.72	10.16		8.63		0.65% on 05/30/2018	06/01/2011
FID FREEDOM 2060 K	07/31/2018	2.07	2.65	2.90	06/30/2018	10.99	8.67			8.50		0.65% on 05/30/2018	08/05/2014
FID FREEDOM INC K	07/31/2018	0.42	0.76	0.10	06/30/2018	3.31	3.73	4.05	4.02	4.77		0.42% on 05/30/2018	10/17/1996
Bond Investment	ts												
Stable Value													
TRP STABLE VALUE A	07/31/2018	0.00	0.35	1.00	06/30/2018	1.95	1.87	1.92	2.65	4.84		0.30% on 12/31/2015	09/12/1988
Income													
FID US BOND IDX PR	07/31/2018	0.14	0.77	-1.59	06/30/2018	-0.62	1.63	2.19	3.55	5.84		0.03% on 08/01/2018	03/08/1990
PIM TOTAL RT INST	07/31/2018	0.22	0.68	-1.49	06/30/2018	-0.12	2.10	2.49	4.85	7.14		0.55% on 07/30/2018	05/11/1987
Other Investmen	ts												
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

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STATE OF RHODE ISLAND

Balance by Fund

Data As Of: 07/31/2018

Calendar Day	Plan Number	Plan Name	Fund Code	Fund Name	Fund Ticker Symbol	Fund Type	Participant Count	Market Value	Asset Percentage
7/31/2018	35835	STATE OF RI	338	FID LARGE CAP STOCK	FLCSX	DOMESTIC EQUITY	321	\$8,990,514.92	5.82%
7/31/2018	35835	STATE OF RI	1522	FID INTL INDEX PR	FSIVX	INTERNATIONAL EQUITY	137	\$2,262,679.53	1.46%
7/31/2018	35835	STATE OF RI	2080	FID CONTRAFUND K	FCNKX	DOMESTIC EQUITY	675	\$37,195,759.62	24.08%
7/31/2018	35835	STATE OF RI	2095	FID LOW PRICED STK K	FLPKX	DOMESTIC EQUITY	383	\$11,067,510.40	7.17%
7/31/2018	35835	STATE OF RI	2324	FID US BOND IDX PR	FSITX	BOND	85	\$1,262,298.78	0.82%
7/31/2018	35835	STATE OF RI	2327	FID 500 INDEX INST	FXSIX	DOMESTIC EQUITY	344	\$11,889,207.77	7.70%
7/31/2018	35835	STATE OF RI	2350	FID MID CAP IDX PR	FSCKX	DOMESTIC EQUITY	139	\$1,853,666.72	1.20%
7/31/2018	35835	STATE OF RI	2359	FID SM CAP IDX PR	FSSVX	DOMESTIC EQUITY	166	\$1,623,420.15	1.05%
7/31/2018	35835	STATE OF RI	3019	FID FREEDOM INC K	FNSHX	LIFECYCLE	51	\$1,646,218.22	1.07%
7/31/2018	35835	STATE OF RI	3020	FID FREEDOM 2005 K	FSNJX	LIFECYCLE	12	\$347,463.28	0.22%
7/31/2018	35835	STATE OF RI	3021	FID FREEDOM 2010 K	FSNKX	LIFECYCLE	76	\$3,685,798.15	2.39%
7/31/2018	35835	STATE OF RI	3022	FID FREEDOM 2015 K	FSNLX	LIFECYCLE	52	\$2,988,535.20	1.93%
7/31/2018	35835	STATE OF RI	3023	FID FREEDOM 2020 K	FSNOX	LIFECYCLE	250	\$15,598,535.69	10.10%
7/31/2018	35835	STATE OF RI	3024	FID FREEDOM 2025 K	FSNPX	LIFECYCLE	94	\$3,765,599.18	2.44%
7/31/2018	35835	STATE OF RI	3025	FID FREEDOM 2030 K	FSNQX	LIFECYCLE	260	\$12,316,624.03	7.97%
7/31/2018	35835	STATE OF RI	3026	FID FREEDOM 2035 K	FSNUX	LIFECYCLE	61	\$2,920,883.17	1.89%
7/31/2018	35835	STATE OF RI	3027	FID FREEDOM 2040 K	FSNVX	LIFECYCLE	48	\$1,315,864.28	0.85%
7/31/2018	35835	STATE OF RI	3028	FID FREEDOM 2045 K	FSNZX	LIFECYCLE	54	\$976,138.65	0.63%
7/31/2018	35835	STATE OF RI	3029	FID FREEDOM 2050 K	FNSBX	LIFECYCLE	37	\$268,433.80	0.17%
7/31/2018	35835	STATE OF RI	3030	FID FREEDOM 2055 K	FNSDX	LIFECYCLE	33	\$550,374.87	0.36%
7/31/2018	35835	STATE OF RI	3031	FID FREEDOM 2060 K	FNSFX	LIFECYCLE	13	\$90,581.62	0.06%
7/31/2018	35835	STATE OF RI	BLNK	BROKERAGELINK		OTHER	109	\$12,030,566.17	7.79%
7/31/2018	35835	STATE OF RI	OF1P	PIM TOTAL RT INST	PTTRX	BOND	238	\$6,829,921.13	4.42%
7/31/2018	35835	STATE OF RI	OFHL	HARBOR INTL INST	HAINX	INTERNATIONAL EQUITY	294	\$4,742,694.70	3.07%
7/31/2018	35835	STATE OF RI	OGMU	TRP STABLE VALUE A		STABLE VALUE	307	\$5,955,716.66	3.86%
7/31/2018	35835	STATE OF RI	OK26	INVESCO DIVRS DIV R6	LCEFX	DOMESTIC EQUITY	122	\$2,164,818.92	1.40%
7/31/2018	35835	STATE OF RI	OQPN	VANG FTSE SOCIAL IDX	VFTSX	DOMESTIC EQUITY	32	\$122,707.44	0.08%

PERFORMANCE UPDATE

Voya Retirement Insurance and Annuity Company

STATE OF RHODE ISLAND VK0450

Separate Account D

Average Annual Total Returns as of: 07/31/2018 (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 monthend 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	Inception Date
Stability of Principal					• • • •	· · ·		шоорт	
Stability of Principal									
Voya Fixed Account - 043 (1)(4) This fund is not part of the product's separate account.	0.25	0.75	1.73	3.00	3.00	3.00	3.01		
Voya Fixed Account - 457/401 II A - 4573 (2)(4) This fund is not part of the product's separate account.	0.15	0.44	1.01	1.75	1.91	2.00	2.43		
Bonds									
High Yield Bond									
PGIM High Yield Fund - Class Z - 2482	1.05	1.72	1.68	2.72	6.01	5.44	7.87		03/01/1996
Inflation-Protected Bond									
PIMCO VIT Real Return Portfolio - Administrative Class - 833	-0.27	0.34	-0.70	1.00	1.41	1.06	3.07		09/30/1999
Intermediate-Term Bond									
Voya Intermediate Bond Portfolio - Class I - 004	0.35	0.55	-1.57	-0.66	2.33	3.08	4.47		05/23/1973
Voya U.S. Bond Index Portfolio - Class I - 1554	0.09	0.56	-1.87	-1.33	0.98	1.77	3.24		03/07/2008
Asset Allocation									
Lifecycle									
Voya Solution 2025 Portfolio - Initial Class - 790 (3)	1.74	2.05	1.32	6.83	6.24	6.99	5.92		04/29/2005
Voya Solution 2035 Portfolio - Initial Class - 761 (3)	2.22	2.44	1.82	9.01	7.44	8.15	6.64		04/29/2005
Voya Solution 2045 Portfolio - Initial Class - 764 (3)	2.51	2.57	1.71	9.68	7.79	8.69	6.85		04/29/2005
Voya Solution 2055 Portfolio - Initial Class - 1166 (3)	2.51	2.55	1.67	9.77	7.91	8.81		9.50	03/08/2010



Fund

Fund

Investment Options	1- M o	3-Mo	YTD	1-Yr	3-Yr	5-Yr	10-Yr	Incept	Fund Inception Date
Voya Solution Income Portfolio - Initial Class - 767 (3)	1.07	1.29	0.32	3.66	4.07	4.75	4.83		04/29/2005
Balanced									
Allocation50% to 70% Equity									
VY® T. Rowe Price Capital Appreciation Portfolio - Inst - 1257	2.31	4.15	4.93	10.06	9.03	10.51	9.86		01/24/1989
Large Cap Value									
Large Blend									
Voya Growth and Income Portfolio - Class I - 001	3.51	6.23	4.51	12.46	9.83	10.49	8.97		12/31/1979
Voya U.S. Stock Index Portfolio - Institutional Class - 829	3.69	6.78	6.25	15.76	12.04	12.65	10.23		05/03/2004
Large Value									
BlackRock Equity Dividend Fund - Institutional Shares - 8518	4.61	5.00	4.12	12.30	11.71	10.75	8.70		11/29/1988
Large Cap Growth									
Large Growth									
Voya Large Cap Growth Portfolio - Institutional Class - 742	3.25	7.78	9.17	21.23	13.28	14.78	13.43		05/03/2004
Small/Mid/Specialty									
Mid-Cap Blend									
Voya Russell™ Mid Cap Index Portfolio - Class I - 1560	2.45	5.43	4.60	12.85	9.59	10.90	10.23		03/04/2008
Mid-Cap Growth									
Principal MidCap Fund - Class R-5 - 3412	2.73	7.34	5.62	13.72	11.06	12.92	12.36		12/06/2000
Small Blend									
Voya Russell™ Small Cap Index Portfolio - Class I - 1563	1.70	8.56	9.34	18.34	11.67	11.01	10.04		03/04/2008
Voya Small Company Portfolio - Class I - 042	1.23	5.72	4.32	12.05	10.72	11.25	10.20		12/27/1996
Global / International									
Foreign Large Blend									
Voya International Index Portfolio - Class I - 1551	2.64	-0.74	-0.14	5.80	4.76	5.37	3.15		03/04/2008
Foreign Large Growth									
American Funds EuroPacific Growth Fund - Class R-4 - 573	2.08	-1.15	-0.03	6.55	6.67	7.37	4.86		04/16/1984
World Large Stock									
VY® Oppenheimer Global Portfolio - Initial Class - 432	2.80	3.92	4.61	15.95	9.64	11.07	9.23		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.

PERFORMANCE UPDATE

Voya Retirement Insurance and Annuity Company

STATE OF RHODE ISLAND VK0450

Separate Account D

Average Annual Total Returns as of: 06/30/2018 (shown in percentages)

The performance data quoted represents past performance. Past performance does not guarantee future results. For monthend 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.

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- M o	3-Mo	YTD	1-Yr	3-Yr	5-Yr	10-Yr	Incept	Fund Inception Date
Stability of Principal								·	
Stability of Principal									
Voya Fixed Account - 043 (1)(4) This fund is not part of the product's separate account.	0.24	0.74	1.48	3.00	3.00	3.00	3.01		
Voya Fixed Account - 457/401 II A - 4573 (2)(4) This fund is not part of the product's separate account.	0.14	0.43	0.86	1.75	1.92	2.01	2.45		
Bonds									
High Yield Bond									
PGIM High Yield Fund - Class Z - 2482	0.52	1.14	0.61	2.85	5.71	5.63	7.67		03/01/1996
Inflation-Protected Bond									
PIMCO VIT Real Return Portfolio - Administrative Class - 833	0.55	0.62	-0.42	1.79	1.70	1.35	3.03		09/30/1999
Intermediate-Term Bond									
Voya Intermediate Bond Portfolio - Class I - 004	-0.22	-0.58	-1.91	-0.36	2.42	3.10	4.25		05/23/1973
Voya U.S. Bond Index Portfolio - Class I - 1554	-0.11	-0.32	-1.95	-0.98	1.22	1.78	3.20		03/07/2008
Asset Allocation									
Lifecycle									
Voya Solution 2025 Portfolio - Initial Class - 790 (3)	-0.26	0.30	-0.41	6.77	5.99	7.38	5.62		04/29/2005
Voya Solution 2035 Portfolio - Initial Class - 761 (3)	-0.41	0.36	-0.39	8.85	6.98	8.58	6.27		04/29/2005
Voya Solution 2045 Portfolio - Initial Class - 764 (3)	-0.64	0.12	-0.78	9.47	7.27	9.18	6.43		04/29/2005
Voya Solution 2055 Portfolio - Initial Class - 1166 (3)	-0.62	0.10	-0.82	9.63	7.40	9.31		9.27	03/08/2010
Voya Solution Income Portfolio - Initial Class - 767 (3)	-0.18	0.05	-0.73	3.67	4.04	4.98	4.64		04/29/2005
Balanced									
Allocation50% to 70% Equity									
VY® T. Rowe Price Capital Appreciation Portfolio - Inst - 1257	0.98	2.16	2.56	8.31	9.06	10.91	9.59		01/24/1989
Large Cap Value									
Large Blend									
Voya Growth and Income Portfolio - Class I - 001	0.66	2.83	0.97	9.77	8.81	11.07	8.44		12/31/1979
Voya U.S. Stock Index Portfolio - Institutional Class - 829	0.61	3.37	2.47	13.96	11.46	12.95	9.73		05/03/2004
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Investment Options	1-Mo	3-Mo	YTD	1-Yr	3-Yr	5-Yr	10-Yr	Incept	Fund Inception Date
BlackRock Equity Dividend Fund - Institutional Shares - 8518	0.17	2.26	-0.47	9.14	10.71	10.66	7.98		11/29/1988
Large Cap Growth									
Large Growth									
Voya Large Cap Growth Portfolio - Institutional Class - 742	1.14	4.32	5.74	19.99	13.30	15.29	13.40		05/03/2004
Small/Mid/Specialty									
Mid-Cap Blend									
Voya Russell™ Mid Cap Index Portfolio - Class I - 1560	0.61	2.70	2.09	11.69	8.97	11.60	9.68		03/04/2008
Mid-Cap Growth									
Principal MidCap Fund - Class R-5 - 3412	2.24	3.47	2.82	14.00	10.88	13.36	11.56		12/06/2000
Small Blend									
Voya Russell™ Small Cap Index Portfolio - Class I - 1563	0.69	7.69	7.51	17.16	10.61	12.14	10.25		03/04/2008
Voya Small Company Portfolio - Class I - 042	0.40	4.80	3.05	11.05	10.18	12.44	10.32		12/27/1996
Global / International									
Foreign Large Blend									
Voya International Index Portfolio - Class I - 1551	-1.27	-1.85	-2.71	5.89	4.42	5.93	2.52		03/04/2008
Foreign Large Growth									
American Funds EuroPacific Growth Fund - Class R-4 - 573	-2.38	-2.95	-2.07	8.81	5.98	7.80	4.33		04/16/1984
World Large Stock									
VY® Oppenheimer Global Portfolio - Initial Class - 432	-0.41	1.80	1.76	15.72	9.29	11.64	8.81		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

- (1)The current rate for the Voya Fixed Account MC 900, Fund 043 is 3.00%, 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 3.00%. 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.
- (2)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.
- (3)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.

See Performance Introduction Page for Important Information

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 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 Voya Solution Portfolios.

(4)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 CURRENT rate for the Voya Long Term Guaranteed Accumulation Account (4560) is 3.00%, expressed as an annual effective yield, and is guaranteed between 08/01/2018 and 09/29/2023.

Deposits received from 08/01/2018 through 08/31/2018 will receive this rate of interest. The annual rate of interest applied to your account may be higher or lower than the current rate. For more information regarding the GAA rates and terms, call 1-800-GAA-FUND.

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.

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.

Creation Date: Thursday, August 16, 2018

State of RI: Plan Balance By Investment - 07/31/18

Fund Name	Fund Number	Asset Class	Balance	YTD Contributions	Percent
Voya Solution 2025 Portfolio I	790	Asset Allocation	\$757,065.38	\$56,478.06	0.41%
Voya Solution 2035 Portfolio I	761	Asset Allocation	\$864,873.12	\$83,542.70	0.47%
Voya Solution 2045 Portfolio I	764	Asset Allocation	\$804,286.04	\$94,731.70	0.44%
Voya Solution 2055 Portfolio I	1166	Asset Allocation	\$387,509.42	\$44,479.00	0.21%
Voya Solution Income Prt I	767	Asset Allocation	\$475,015.72	\$31,731.50	0.26%
VY TRowePrice Captl Apprec Pt Inst	1257	Balanced	\$8,348,929.40	\$250,771.29	4.52%
PGIM High Yield Fund Z	2482	Bonds	\$567,636.86	\$27,235.62	0.31%
PIMCO VIT Real Return Portfolio Adm	833	Bonds	\$337,346.46	\$26,707.25	0.18%
Voya Intermediate Bond Port I	4	Bonds	\$6,790,534.91	\$420,892.71	3.68%
Voya U.S. Bond Index Portfolio I	1554	Bonds	\$602,835.58	\$30,193.37	0.33%
American Funds EuroPacific R4	573	Global / International	\$6,112,884.57	\$253,860.16	3.31%
Voya International Index Port I	1551	Global / International	\$388,969.66	\$26,056.39	0.21%
VY Oppenhmr Global Port I	432	Global / International	\$7,606,795.68	\$254,358.03	4.12%
Voya Large Cap Growth Port Inst	742	Large Cap Growth	\$11,243,592.39	\$415,442.77	6.08%
BlackRock Equity Dividend Fund Inst	8518	Large Cap Value	\$4,110,296.99	\$145,177.05	2.23%
Voya U.S. Stock Index Port Inst	829	Large Cap Value	\$8,990,521.21	\$293,303.17	4.87%
Voya Growth and Income Port I	1	Other (Unknown)	\$26,944,568.86	\$585,669.23	14.58%
Principal MidCap Fund R5	3412	Small/Mid/Specialty	\$10,213,487.91	\$258,837.38	5.53%
Voya Russell Mid Cap Index Port I	1560	Small/Mid/Specialty	\$1,345,072.10	\$92,333.79	0.73%
Voya Russell Sm Cp Index Port I	1563	Small/Mid/Specialty	\$1,374,704.70	\$89,927.58	0.74%
Voya Small Company Portfolio I	42	Small/Mid/Specialty	\$8,286,550.83	\$225,256.40	4.49%
Voya Fixed Account - 457/401	43	Stability of Principal	\$74,309,308.59	\$273,245.49	40.22%
Voya Fixed Account 457401 II A	4573	Stability of Principal	\$3,821,284.72	\$1,672,761.08	2.07%
Voya Long-Term GAA (4560)	4560	Stability of Principal	\$25,166.86	\$0.00	0.01%
	-	TOTAL	\$184 709 237 96	\$5 652 991 72	

TOTAL \$184,709,237.96 \$5,652,991.72



OPEB Trust



Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES 7/31/2018

								alized			
Account Name Benchmark Name	Market Value	% of Total	Month	YTD	Fiscal YTD	1 Year	3 Years	5 Years	10 Years	ITD	Inception Date
Mackay Shields OPEB Bloomberg Barclays U.S. Aggregate Bond Index	97,009,254.7	34.5	0.05 0.02	-1.85 -1.59	0.05 <i>0.02</i>	-0.98 -0.80	1.31 <i>1.4</i> 9	2.20 2.25		1.44 1.52	5/1/2013 5/1/2013
SSGA S&P 500 INDX S&P 500 - Total Return Index	184,329,827.2	65.5	3.71 3.72	6.44 6.47	3.71 3.72	16.22 <i>16.24</i>	12.53 <i>12.5</i> 2	13.12 13.12		13.51 12.88	5/1/2011 5/1/2011
Total OPEB OPEB Custom Blend 1	281,339,081.9	100.0	2.43 2.43	3.52 3.67	2.43 2.43	9.99 10.10	8.62 8.68	9.30 9.33		9.25 8.55	5/1/2011 5/1/2011



Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

END NOTES

7/31/2018

1 RI7GX0903OPE

OPEB Custom Blend

35% Barclays Aggregate and 65% S&P 500



Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

TOTAL NET OF FEES

7/31/2018

			Cumulative									
Account Name Benchmark Name		Market Value	% of Total	YTD	Month	6/1/2018 - 6/30/2018	5/1/2018 - 5/31/2018	2017	2016	2015	Inception Date	
Mackay Shields OPEB Bloomberg Barclays U.S. Aggrega Bond Index	ite	97,009,254.7	34.5	-1.85 -1.59	0.05 <i>0.02</i>	-0.21 -0.12	0.65 <i>0.71</i>	3.78 3.54	2.28 2.65	0.46 <i>0.5</i> 5	5/1/2013 5/1/2013	
SSGA S&P 500 INDX S&P 500 - Total Return Index		184,329,827.2	65.5	6.44 <i>6.4</i> 7	3.71 3.72	0.60 <i>0.6</i> 2	2.41 2.41	21.80 21.83	11.99 <i>11.9</i> 6	1.46 1.38	5/1/2011 5/1/2011	
Total OPEB OPEB Custom Blend	1	281,339,081.9	100.0	3.52 3.67	2.43 2.43	0.34 <i>0.36</i>	1.79 1.82	15.32 <i>15.14</i>	8.69 8.77	1.16 <i>1.31</i>	5/1/2011 5/1/2011	



2 RI7GX0903OPE

OPEB Custom Blend

Total Performance Summary

Report ID: IPM0005

Reporting Currency: USD

END NOTES

7/31/2018

65% S&P 500 and 35% Barclays Aggregate

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