

SECOND FISCAL QUARTER 2018 EXECUTIVE SUMMARY

VERMONT PENSION INVESTMENT COMMITTEE

February 28, 2018

Margaret Belmondo, CIMA®, Senior Consultant

Will Forde, CAIA, Consultant

Nedelina Petkova, Senior Analyst



BOSTON | ATLANTA | CHARLOTTE | CHICAGO | DETROIT | LAS VEGAS | PORTLAND | SAN FRANCISCO

TABLE OF CONTENTS

	<u>Tab</u>
Market Environment	1
Total Fund Performance	2
Appendix	3















MARKET ENVIRONMENT

NEPC, LLC

PERFORMANCE OVERVIEW

Q4 Market Summary

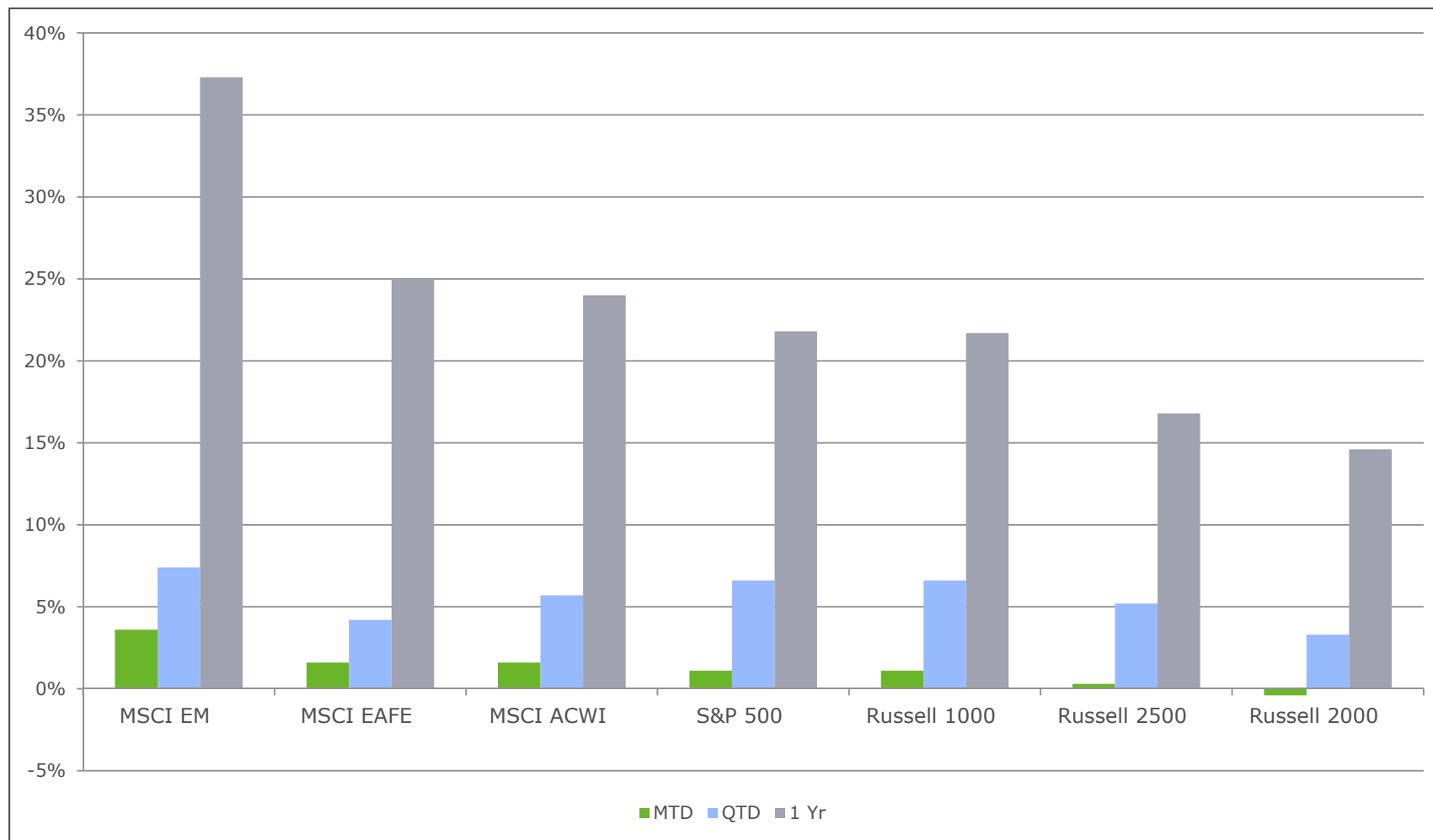
Macro			Equity			Credit			Real Assets		
US Dollar	VIX	US 10-Yr	S&P 500	MSCI EAFE	MSCI EM	US Agg.	High Yield	Dollar EMD	Oil	Gold	REITS
											
-1.0%	1.5	7 bps	6.6%	4.2%	7.4%	0.4%	0.5%	0.5%	16.9%	1.8%	2.3%

- **Equities ended the year on a high note with another strong quarter of returns on the back of accelerating global growth, a robust earnings season, and continued accommodative monetary policy**
 - Emerging markets continued their outperformance with a weaker dollar, rebounding earnings, and a significant rally in tech shares
- **Long-term US Treasury yields increased, but an additional Fed rate hike pushed up short-term yields even more, causing the curve to flatten**
- **Reflecting the pro-risk environment, volatility remained subdued and the US dollar continued to decline – ending the year down nearly 10%**

Market segment (index representation) as follows: US Dollar (DXY Index), VIX (CBOE Volatility Index), US 10-Year (US 10-Year Treasury Yield), S&P 500 (US Equity), MSCI EAFE Index (International Developed Equity), MSCI Emerging Markets (Emerging Markets Equity), US Agg (Barclays US Aggregate Bond Index), High Yield (Barclays US High Yield Index), Dollar EMD (JPM Emerging Market Bond Index), Crude Oil (WTI Crude Oil Spot), Gold (Gold Price Spot), and REITs (NAREIT Composite Index).



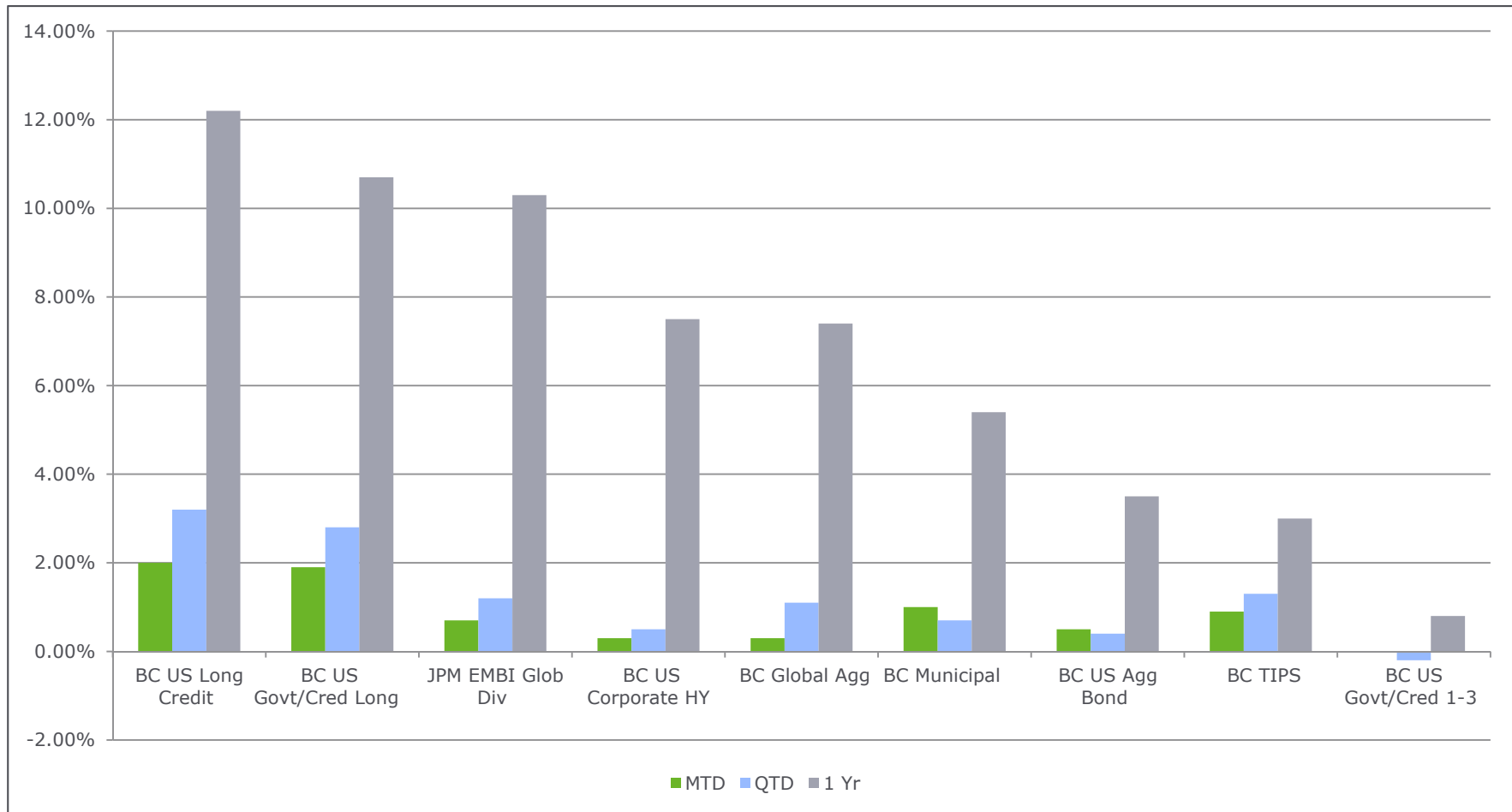
EQUITY INDEX RETURNS- DECEMBER 31, 2017



Source: MSCI, S&P, Russell, NEPC, Bloomberg



FIXED INCOME INDEX RETURNS – DECEMBER 31, 2017



Source: Barclays, S&P, JPM, Bloomberg

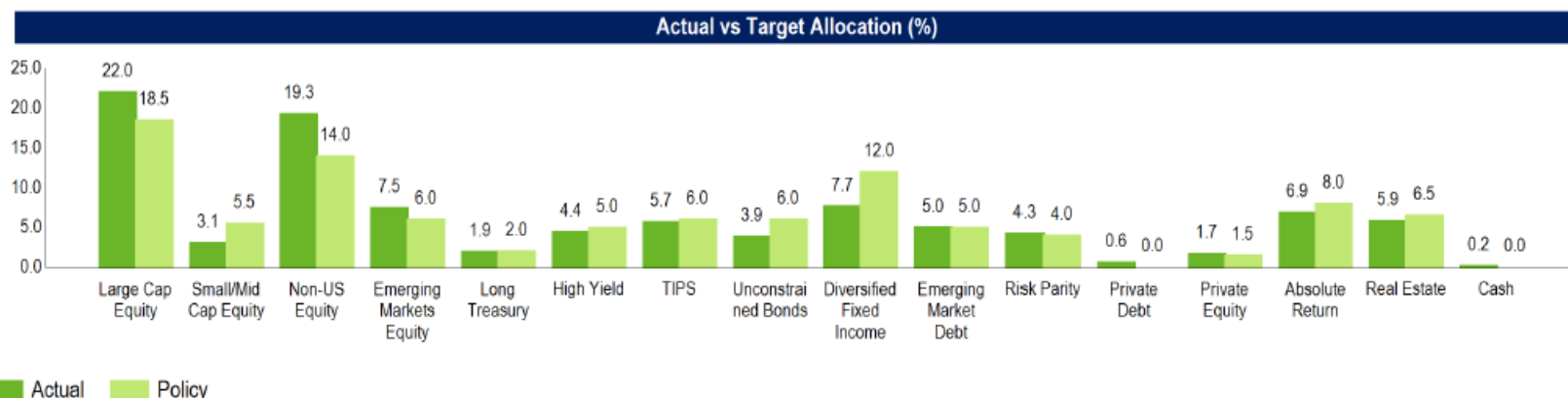


TOTAL FUND PERFORMANCE

NEPC, LLC

TOTAL FUND PERFORMANCE SUMMARY

	Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	7 Yrs	Rank	10 Yrs	Rank
Total Fund Composite	\$4,340,099,607	3.4%	64	6.5%	79	13.9%	81	6.8%	78	6.5%	93	6.7%	89	4.7%	81
<i>Policy Index</i>		3.1%	90	6.5%	80	13.3%	87	6.6%	88	6.5%	90	6.3%	92	4.7%	82
<i>Allocation Index</i>		3.6%	48	7.0%	61	14.3%	72	6.9%	73	6.8%	85	6.4%	91	5.0%	72
<i>InvestorForce Public DB > \$1B Net Median</i>		3.5%		7.4%		15.6%		7.5%		8.7%		8.0%		5.4%	



Goals & Objectives

- The Fund's total return target is 7.5%, compounded annually over the long-term of 7 to 10 years based on a 3% inflation rate
- Interim policy targets are 44% equity, 36% fixed income, 8% absolute return, 4% multi-strategy, 6.5% real estate, and 1.5% in private assets
- Long term policy targets are 41% equity, 24% fixed income, 4% multi-strategy, 8% absolute return, 8% real estate, and 15% private assets

Total Fund Performance

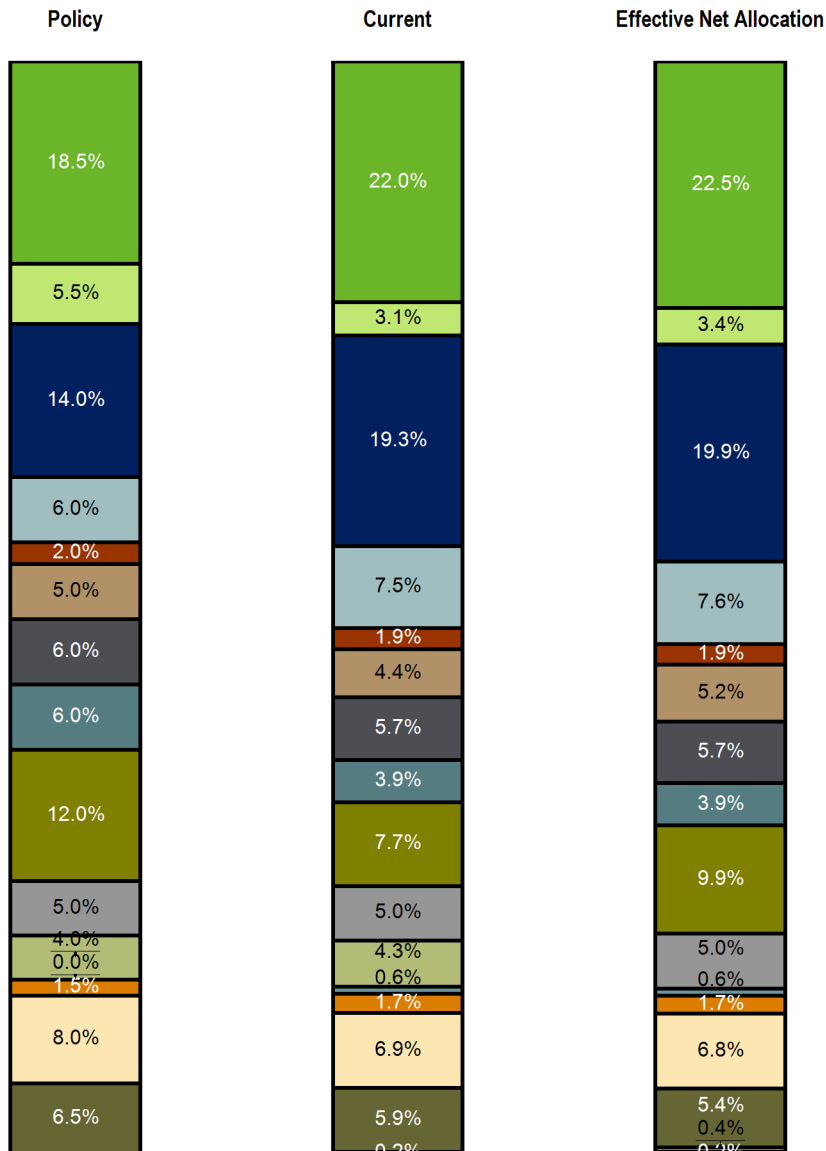
- For the quarter, the Fund returned +3.4%, outperforming the Policy Index by 30bps while underperforming the Allocation Index by 20bps
 - Performance ranked in the 64th percentile compared to the IF Public DB>\$1B Net Median
- For the 1 Year, the Fund returned +13.9%, outperforming the Policy Index by 60bps, while trailing the Allocation Index by 40bps
 - Performance ranked in the 81st percentile
 - Positive relative contributors for the year were Overweight to Large Cap Domestic equities and outperformance of Int'l equities, Fixed income and Risk Parity

Recent Decisions & Ongoing Activities

- **January 2018:** Voted on HarbourVest Fund XI commitment of \$150M for 2018
- **October 2017:** Voted on Brookfield Strategic Partners III commitment of \$100M for 2017
- **August 2017:** Voted on two private debt strategies, Benefit Street Partners SOF commitment of \$70M for 2017; BlueBay DL III commitment of \$70M for 2018. Voted to consolidate small/mid cap equity mandate by terminating Wellington Small Cap Value
- **July 2017:** Voted on hiring Hosking Partners and Artisan Partners to fund the 9% global equity mandate
- **March 2017:** Voted on new interim and long term policy asset allocation mixes, which included increasing Private Equity to 10% and the addition of two new asset classes: Global Equity (9%) and Private Debt (5%)
- **January 2017:** Voted on terminating contract negotiations with Crow Holdings Capital. NEPC will initiate a new International Real Estate manager with a commitment up to \$100M
- **December 2016:** Voted on HIPEP VIII commitment of \$30M



TOTAL FUND ASSET ALLOCATION VS. POLICY TARGETS



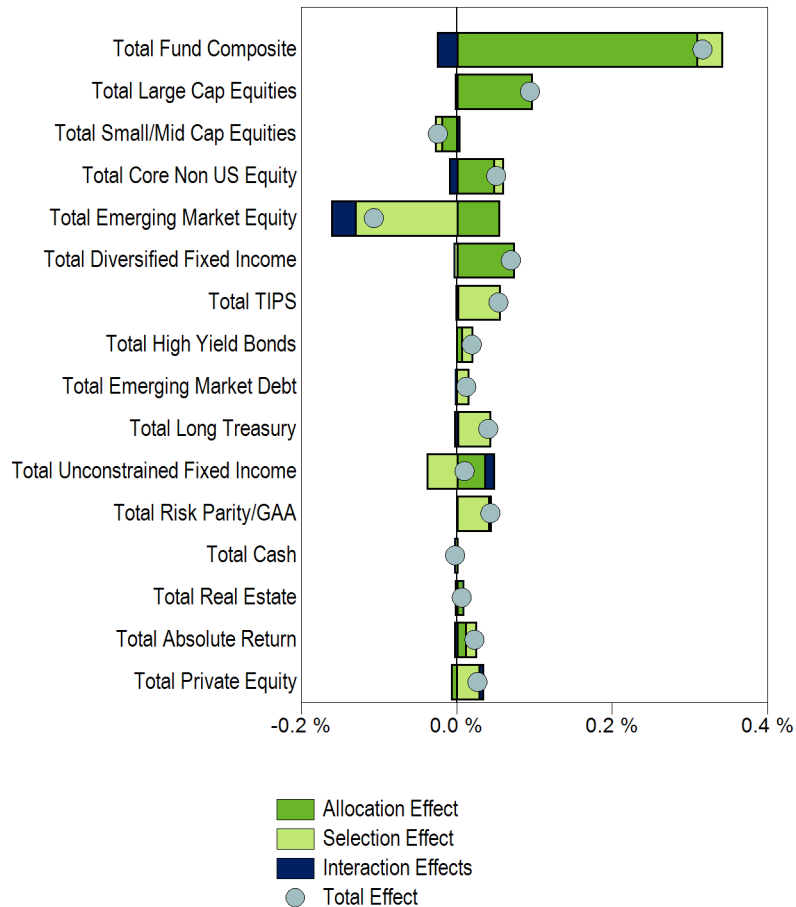
Asset Allocation vs. Target			
	Policy	Current Allocation	Effective Net Allocation
Large Cap Equity	18.5%	22.0%	22.5%
Small/Mid Cap Equity	5.5%	3.1%	3.4%
Non-US Equity	14.0%	19.3%	19.9%
Emerging Markets Equity	6.0%	7.5%	7.6%
Long Treasury	2.0%	1.9%	1.9%
High Yield	5.0%	4.4%	5.2%
TIPS	6.0%	5.7%	5.7%
Unconstrained Bonds	6.0%	3.9%	3.9%
Diversified Fixed Income	12.0%	7.7%	9.9%
Emerging Market Debt	5.0%	5.0%	5.0%
Risk Parity	4.0%	4.3%	--
Private Debt	0.0%	0.6%	0.6%
Private Equity	1.5%	1.7%	1.7%
Absolute Return	8.0%	6.9%	6.8%
Real Estate	6.5%	5.9%	5.4%
Commodities	--	--	0.4%
Cash	--	0.2%	0.2%
Total	100.0%	100.0%	100.0%

Effective Net Allocation breaks out the exposure of AQR Global Risk Premium. Absolute Return includes Grosvenor, Pinnacle Natural Resources, L.P., and Allianz Structured Alpha.



TOTAL FUND ATTRIBUTION ANALYSIS - NET

**Attribution Effects Relative to Policy Index
3 Months Ending December 31, 2017**



Attribution Summary 3 Months Ending December 31, 2017							
	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Total Large Cap Equities	6.5%	6.5%	0.0%	0.0%	0.1%	0.0%	0.1%
Total Small/Mid Cap Equities	3.5%	3.6%	-0.1%	0.0%	0.0%	0.0%	0.0%
Total Core Non US Equity	4.6%	4.6%	0.1%	0.0%	0.0%	0.0%	0.1%
Total Emerging Market Equity	5.2%	7.4%	-2.3%	-0.1%	0.1%	0.0%	-0.1%
Total Diversified Fixed Income	0.4%	0.4%	0.0%	0.0%	0.1%	0.0%	0.1%
Total TIPS	1.2%	0.4%	0.9%	0.1%	0.0%	0.0%	0.1%
Total High Yield Bonds	0.7%	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%
Total Emerging Market Debt	0.8%	0.5%	0.3%	0.0%	0.0%	0.0%	0.0%
Total Long Treasury	2.4%	0.4%	2.0%	0.0%	0.0%	0.0%	0.0%
Total Unconstrained Fixed Income	-0.2%	0.4%	-0.6%	0.0%	0.0%	0.0%	0.0%
Total Risk Parity/GAA	4.7%	3.7%	1.0%	0.0%	0.0%	0.0%	0.0%
Total Cash	0.0%	0.3%	-0.3%	0.0%	0.0%	0.0%	0.0%
Total Real Estate	1.8%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%
Total Absolute Return	2.1%	2.0%	0.2%	0.0%	0.0%	0.0%	0.0%
Total Private Equity	1.9%	0.0%	1.9%	0.0%	0.0%	0.0%	0.0%
Total	3.4%	3.1%	0.3%	0.0%	0.3%	0.0%	0.3%

Note: Plan attribution calculations are returns based and the results shown reflect the composites shown. As a result, the total returns shown may vary from the calculated returns shown on the performance report.

The target return shown for each composite is a custom index, based on aggregated policy indices. This policy index asset weights the underlying policy indices of each option in the plan and the respective benchmark.

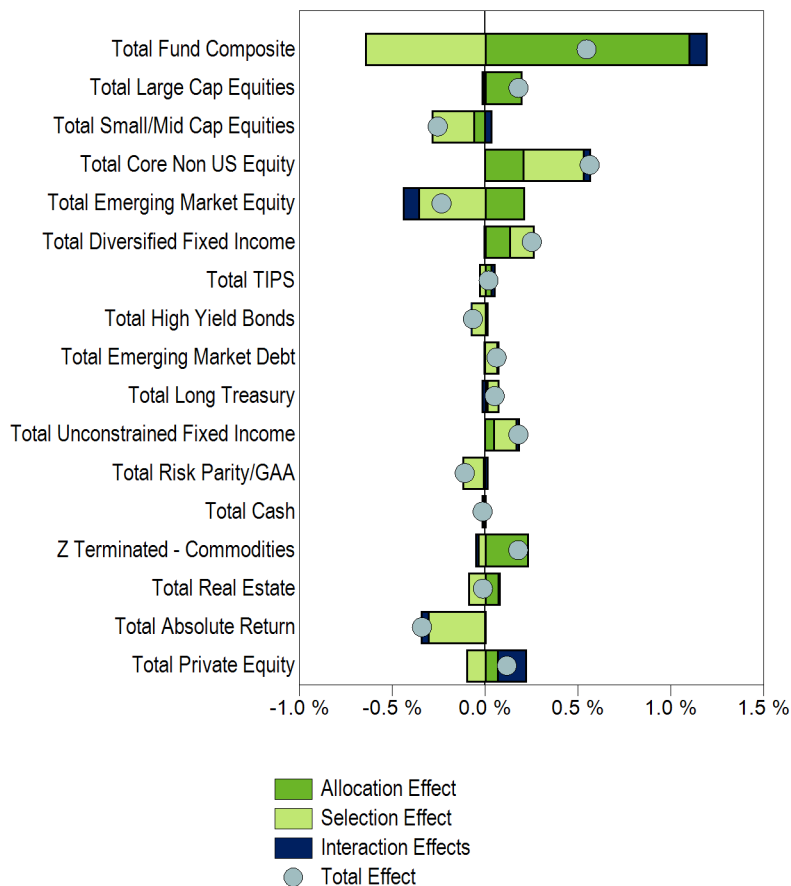
The allocation, selection, and interaction effects are calculated using the custom index described above along with the policy or target weight of each composite.

Absolute Return's Wtd. index Return is calculated using a weighting of the respective benchmarks for each underlying strategy part of the composite.



TOTAL FUND ATTRIBUTION ANALYSIS - NET

**Attribution Effects Relative to Policy Index
3 Months Ending December 31, 2017**



Attribution Summary 1 Year Ending December 31, 2017							
	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Total Large Cap Equities	21.0%	21.1%	-0.1%	0.0%	0.2%	0.0%	0.2%
Total Small/Mid Cap Equities	9.4%	13.1%	-3.6%	-0.2%	-0.1%	0.0%	-0.3%
Total Core Non US Equity	29.0%	25.9%	3.1%	0.3%	0.2%	0.0%	0.6%
Total Emerging Market Equity	30.2%	37.3%	-7.0%	-0.4%	0.2%	-0.1%	-0.2%
Total Diversified Fixed Income	4.5%	3.5%	1.0%	0.1%	0.1%	0.0%	0.2%
Total TIPS	2.9%	3.5%	-0.7%	0.0%	0.0%	0.0%	0.0%
Total High Yield Bonds	6.1%	7.5%	-1.4%	-0.1%	0.0%	0.0%	-0.1%
Total Emerging Market Debt	10.6%	9.3%	1.2%	0.1%	0.0%	0.0%	0.1%
Total Long Treasury	--	--	--	0.1%	0.0%	0.0%	0.0%
Total Unconstrained Fixed Income	5.4%	3.5%	1.9%	0.1%	0.0%	0.0%	0.2%
Total Risk Parity/GAA	15.2%	16.3%	-1.1%	-0.1%	0.0%	0.0%	-0.1%
Total Cash	0.0%	0.9%	-0.9%	0.0%	0.0%	0.0%	0.0%
Z Terminated - Commodities	--	--	--	0.0%	0.2%	0.0%	0.2%
Total Real Estate	5.8%	7.0%	-1.2%	-0.1%	0.1%	0.0%	0.0%
Total Absolute Return	4.0%	7.8%	-3.8%	-0.3%	0.0%	0.0%	-0.3%
Total Private Equity	14.4%	11.8%	2.6%	-0.1%	0.1%	0.1%	0.1%
Total	13.8%	13.3%	0.5%	-0.6%	1.1%	0.1%	0.5%

Note: Plan attribution calculations are returns based and the results shown reflect the composites shown. As a result, the total returns shown may vary from the calculated returns shown on the performance report.

The target return shown for each composite is a custom index, based on aggregated policy indices. This policy index asset weights the underlying policy indices of each option in the plan and the respective benchmark.

The allocation, selection, and interaction effects are calculated using the custom index described above along with the policy or target weight of each composite.

Absolute Return's Wtd. index Return is calculated using a weighting of the respective benchmarks for each underlying strategy part of the composite.



ANALYTICS DEFINITIONS

Asset Allocation Effect - Measures VPIC's ability to effectively allocate their portfolio's assets to various asset classes. The allocation effect determines whether the overweighting or underweighting of asset classes relative to a benchmark contributes positively or negatively to the overall portfolio return. Positive allocation occurs when the portfolio is overweighted in an asset class that outperforms the benchmark. Negative allocation occurs when the portfolio is overweighted in an asset class that underperforms the benchmark and underweighted in an asset class that outperforms the benchmark.

Selection Effect - Measures VPIC's ability to select managers within a given asset class relative to a benchmark. The over or underperformance of the portfolio is weighted by the benchmark weight, therefore, selection is not affected by VPIC's allocation to the asset class. The weight of the manager in the portfolio determines the size of the effect -- the larger the manager, the larger the effect is, positive or negative.

Interaction Effect - The interaction effect measures the combined impact of VPIC's manager selection and manager allocation decisions within an asset class. For example, if VPIC had superior manager selection and overweighted that particular asset class, the interaction effect is positive. If VPIC had superior manager selection, but underweighted that asset class, the interaction effect is negative. In this case, VPIC did not take advantage of the superior manager selection by allocating more assets to that asset class.

FUND ATTRIBUTION: QUARTER

	Positives	Negatives
Manager Relative Performance	<p><u>Non U.S. Equity</u></p> <ul style="list-style-type: none"> Acadian – int'l (+80) <p><u>Fixed Income</u></p> <ul style="list-style-type: none"> Guggenheim – high yield (+40) Wellington – emd (+30) <p><u>Multi-Asset</u></p> <ul style="list-style-type: none"> AQR – risk parity (+100) <p><u>Absolute Return</u></p> <ul style="list-style-type: none"> Grosvenor – hedge fund (+40) Allianz – structured alpha (+120) 	<p><u>Domestic Equity</u></p> <ul style="list-style-type: none"> Champlain – smid cap (-30) <p><u>Non U.S. Equity</u></p> <ul style="list-style-type: none"> Mondrian – int'l (-130) Aberdeen – emerging (-220) <p><u>Fixed Income</u></p> <ul style="list-style-type: none"> PIMCO – unconstrained (-10) GAM – unconstrained (-170) KDP – high yield (-40) <p><u>Absolute Return</u></p> <ul style="list-style-type: none"> Pinnacle – commodity hedge (-240)

FUND ATTRIBUTION: 1 YEAR

	Positives	Negatives
Manager Relative Performance	<p><u>Domestic Equity</u></p> <ul style="list-style-type: none"> Champlain – smid cap (+150) <p><u>Non U.S. Equity</u></p> <ul style="list-style-type: none"> Acadian – int'l (+1180) <p><u>Fixed Income</u></p> <ul style="list-style-type: none"> PIMCO – core plus (+130) Wellington – emd (+130) GAM – unconstrained (+150) <p><u>Absolute Return</u></p> <ul style="list-style-type: none"> Allianz – structured alpha (+430) 	<p><u>Non U.S. Equity</u></p> <ul style="list-style-type: none"> Mondrian – int'l (-290) Aberdeen – emerging (-710) <p><u>Fixed Income</u></p> <ul style="list-style-type: none"> PIMCO – unconstrained (-130) Guggenheim – high yield (-110) KDP – high yield (-290) <p><u>Multi-Asset</u></p> <ul style="list-style-type: none"> AQR – risk parity (-50) <p><u>Absolute Return</u></p> <ul style="list-style-type: none"> Grosvenor – hedge fund (-120) Pinnacle – commodity hedge fund (-800)



Reflects public markets and active management only
 Managers highlighted in **GREEN** indicate that they are outperforming their respective benchmarks
 Managers highlighted in **RED** indicate that they are underperforming their respective benchmarks
 (+/-) is the out/under performance relative to respective benchmarks in basis points

INVESTMENT MANAGER – Q2 FISCAL 2018 COMMENTARY – POSITIVE CONTRIBUTORS

	Commentary	Due Diligence Rating
Acadian <i>International Equity</i>	<p>The International Equity strategy returned 4.9% in the fourth quarter, outperforming the MSCI EAFE by 80bps.</p> <ul style="list-style-type: none"> • <i>Contributors:</i> Stock selection in Finland and Germany, along with an opportunistic exposure to Canada. • <i>Detractors:</i> Stock selection in Australia and Denmark proved less successful, as did an opportunistic exposure to Taiwan. 	Preferred
Guggenheim <i>High Yield FI</i>	<p>The High Yield Fixed Income strategy returned 0.8% in the fourth quarter, outperforming the Barclay's High Yield Index by 40 bps.</p> <ul style="list-style-type: none"> • <i>Contributors:</i> Loan exposure was additive as they produced superior returns to Bonds. • <i>Detractors:</i> Telecommunications exposures detracted as subscriber trends declined and capital structures were negatively impacted by the passage of tax reform assuming a cap on interest deductibility. 	Preferred
Wellington Opportunistic EMD <i>Emerging Market Debt</i>	<p>The Emerging Market Debt strategy returned 0.7% in the fourth quarter, outperforming the JP Morgan EMBI Global Index by 30 bps.</p> <ul style="list-style-type: none"> • <i>Contributors:</i> OW Russia. UW Czech Republic. Allocation to short and mid dated local sovereign debt in Ghana and Egypt. Favoring Chinese renminbi. • <i>Detractors:</i> UW South African rand. UW Brazilian local sovereign debt. 	Preferred
AQR Global Risk Premium <i>Risk Parity</i>	<p>The Risk Parity strategy returned 4.6% in the fourth quarter, outperforming the custom benchmark (60% MSCI World/40% CITI WGBI) by 100bps and in line with the HFR Risk Parity Vol 10 Index.</p> <ul style="list-style-type: none"> • <i>Contributors:</i> Inflation Risk and Equity Risk • <i>Detractors:</i> Nominal Interest Rate Risk 	Preferred



INVESTMENT MANAGER – Q2 FISCAL 2018 COMMENTARY – POSITIVE CONTRIBUTORS

	Commentary	Due Diligence Rating
Grosvenor <i>Absolute Return</i>	<p>The Hedge Fund of Funds strategy returned 2.2% in the fourth quarter, outperforming the HFRI Fund of Funds Composite Index by 40 bps.</p> <ul style="list-style-type: none"> • <i>Contributors:</i> The Fund’s equity and credit strategies were the largest contributors to positive performance in the quarter with additional contributions coming from the multi-strategy and macro allocations. Primary positive contributors included long-biased and concentrated exposure to biotech/pharma sector, an activist focused on European small/mid cap targets, and long/short exposure to the US financial sector. • <i>Detractors:</i> The Fund’s dedicated fixed income and currency volatility investment was the largest single detractor as volatility across asset classes continued near historic lows. 	Preferred
Allianz Structured Alpha 500 <i>Absolute Return</i>	<p>The Absolute Return strategy returned 1.5% in the fourth quarter, outperforming the 91Day T-Bill by 120bps.</p> <ul style="list-style-type: none"> • <i>Contributors:</i> The use of VIX and VXX options helped counteract the various disadvantages of the low volatility environment in the quarter. These are options on the volatility of an equity index, rather than on the equity index itself. These positions have increased from 5% to 15% of the portfolio as these instruments feature higher implied volatilities than broad-based US equity index options and may offer a great return potential per unit of risk. 	Neutral



INVESTMENT MANAGER – Q2 FISCAL 2018 COMMENTARY – **DETRACTORS**

	Commentary	Due Diligence Rating
Champlain SMID Equity	<p>The SMID strategy returned 3.8% in the fourth quarter, underperforming the Custom SMID benchmark by 30bps.</p> <ul style="list-style-type: none"> • <i>Detractors:</i> Financials lagged the benchmark noticeably similarly to the strategy’s less cyclical and higher return producing problem solving industrials and materials holdings. • <i>Contributors:</i> There was a tailwind behind small cap stocks that have higher than average effective tax rates. Three acquisitions (Amplify Snack Brands, Buffalo Wild Wings, and Snyder’s-Lance) led strong consumer sector stock selection. 	Preferred
Mondrian International Equity	<p>The International Equity strategy returned 2.9% in the fourth quarter, underperforming the MSCI EAFE by 130bps.</p> <ul style="list-style-type: none"> • <i>Detractors:</i> Stock selection in health care weighed on relative returns, held back by the portfolio’s holdings in Sanofi, the French pharmaceutical company, and GlaxoSmithKline, listed in the UK. • <i>Contributors:</i> Stock selection in consumer sectors added to relative returns, driven by the portfolio’s holdings in Honda, the Japanese automotive and motorcycle manufacturer, and Ahold Delhaize and Tesco, the food retailers. 	Preferred
Aberdeen Emerging Market Equity	<p>The Emerging Market Equity strategy returned 5.0% in the fourth quarter, underperforming the MSCI Emerging Markets by 220bps.</p> <ul style="list-style-type: none"> • <i>Detractors:</i> Across regions, Latin America posted the weakest relative performance, as Brazilian markets were subdued and consumer names suffered despite good results . The Mexican market was also weak as concerns mounted about the potential outcome of NAFTA renegotiations and political uncertainty • <i>Contributors:</i> In Asia, the fund’s positioning in China was positive. The overweight to India was positive, as the market rose amid the re-capitalization of public sector banks. 	Preferred
PIMCO Unconstrained Unconstrained FI	<p>The PIMCO Unconstrained strategy returned 0.1% in the fourth quarter, underperforming the 3-month Libor return by 10bps.</p> <ul style="list-style-type: none"> • <i>Detractors:</i> Short exposure to low carry Asian currencies (Singaporean dollar, Korean won, Taiwanese dollar). Short high yield corporate credit. Long Latin American currencies (Argentine peso, Brazilian real). • <i>Contributors:</i> Long exposure to non-agency MBS, structured credit, US duration, and IG corporate credit. 	Preferred



INVESTMENT MANAGER – Q2 FISCAL 2018 COMMENTARY – **DETRACTORS**

	Commentary	Due Diligence Rating
GAM Unconstrained <i>Unconstrained FI</i>	<p>The GAM Unconstrained strategy returned -0.7% in the fourth quarter, underperforming the 3 month Libor+3% by 170bps.</p> <ul style="list-style-type: none"> • <i>Detractors:</i> DM interest rate strategies, especially short UK. • <i>Contributors:</i> Corporate bonds. Non-traditional assets. 	Preferred
KDP <i>High Yield FI</i>	<p>The High Yield Fixed Income strategy returned 0% in the fourth quarter, underperforming the Barclay's High Yield Index by 40 bps.</p> <ul style="list-style-type: none"> • <i>Detractors:</i> Relative weakness in the portfolio due to positioning in higher quality bonds. Electric Generation holdings detracted 19bps from return. Loans underperformed relative to the index due to the Healthcare Services and Restaurant holdings which detracted 51bps from return • <i>Contributors:</i> Positive portfolio bond industry contribution was led by Forestry/Paper. 	Neutral
Pinnacle Natural Resources, L.P. <i>Commodity</i>	<p>The Natural Resources strategy returned 2.0% in the fourth quarter, underperforming the Bloomberg Commodity Index by 240bps and outperforming the HFRI Fund of Funds Composite by 30bps.</p> <ul style="list-style-type: none"> • <i>Detractors:</i> The fund experienced small losses from exposure to agricultural and FX/Rates/Index • <i>Contributors:</i> Relative value and directional trading strategies in the energy complex contributed the most followed by directional and relative value trading strategies in the metal sector. 	Preferred



NEPC'S DUE DILIGENCE MONITOR

Investment Options	Manager Changes/ Announcements (Recent Quarter)	NEPC Due Diligence Committee recommendations
State Street Global Advisors <i>ACWI ex U.S. Index Fund</i> <i>Long U.S. Treasury Index</i> <i>S&P 500 Index</i> <i>S&P 500 Tobacco Free-Index – Equal Weighted</i> <i>U.S. Aggregate Bond Index</i> <i>Non-U.S. All-Cap Equity</i>	Other: State Street Global Advisors Organizational Announcements 11/2017	No Action
Acadian Asset Management LLC <i>Non-U.S. All-Cap Equity</i>	Loss of Personnel: Acadian Implementation Team Departure 12/2017	No Action
Guggenheim Investments <i>High Yield</i>	Loss of Personnel: PM of Total Return Strategy has Resigned	Hold

NEPC Due Diligence Status Key	
No Action	Informational items have surfaced; no action is recommended.
Watch	Issues have surfaced to be concerned over; manager can participate in future searches, but current and prospective clients must be made aware of the issues.
Hold	Serious issues have surfaced to be concerned over; manager cannot be in future searches unless a client specifically requests, but current and prospective clients must be made aware of the issues.
Client Review	Very serious issues have surfaced with a manager; manager cannot be in future searches unless a client specifically requests. Current clients must be advised to review the manager.
Terminate	We have lost all confidence in the product; manager would not be recommended for searches and clients would be discouraged from using. The manager cannot be in future searches unless a client specifically requests. Current clients must be advised to replace the manager.



NEPC'S QUARTERLY DUE DILIGENCE DETAIL

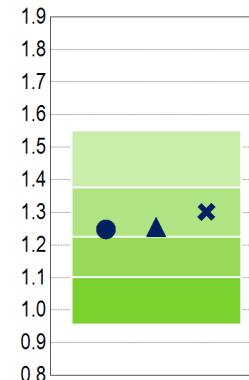
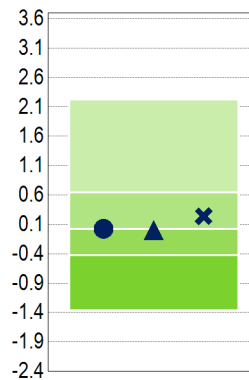
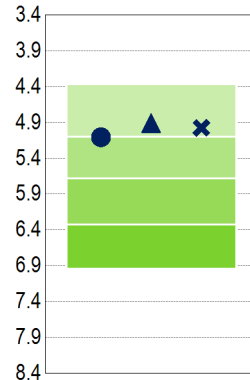
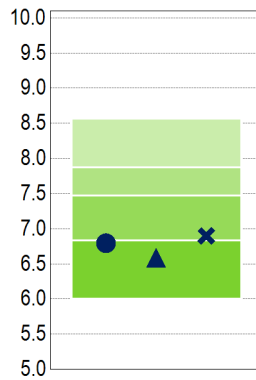
Investment Options	Commentary	NEPC Rating
<p>State Street Global Advisors <i>ACWI ex U.S. Index Fund</i> <i>Long U.S. Treasury Index</i> <i>S&P 500 Index</i> <i>S&P 500 Tobacco Free-Index – Equal Weighted</i> <i>U.S. Aggregate Bond Index</i> <i>Non-U.S. All-Cap Equity</i></p>	<p>NEPC was notified by State Street of an upcoming number of C-suite transitions. Jay Hooley, CEO, will be retiring at the end of 2018 after 30 years with the firm. Mr. Hooley will remain with State Street as chairman throughout 2019. Concurrently, Ronald O’Hanley, vice chairman of State Street, and president and CEO of State Street Global Advisors has been appointed by State Street’s board of directors to the role of President and Chief Operating Officer. Following Mr. Hooley’s retirement, Mr. O’Hanley will assume the CEO role. In addition, Cyrus Taraporevala, Executive Vice President and Global Head of Product and Marketing at SSGA has been named president and CEO of SSGA. Mr. Taraporevala has been a part of the leadership team at SSGA since he joined the firm in April 2016. NEPC is comfortable with the transition of responsibilities at State Street and SSGA given the extended duration between the announcement and the transition. There should be minimal impact to investment personnel. NEPC Research recommends a due diligence status of NO ACTION.</p>	<p>Preferred</p>
<p>Acadian Asset Management LLC <i>Non-U.S. All-Cap Equity</i></p>	<p>Acadian notified NEPC Research that it parted ways with Mauricio Karchmer, head of the Implementation Team. Mr. Karchmer joined the firm in 2008 and introduced efficiency improvements during his tenure at the firm. There are currently 12 members on the Implementation Team. Given this broad and experienced team structure, NEPC Research has no concerns over Mr. Karchmer’s departure. His departure does not impact the investment teams and Acadian will begin a search for Mr. Karchmer’s replacement. His responsibilities are being assumed in the near term by other members of the team. NEPC recommends NO ACTION.</p>	<p>Preferred</p>
<p>Guggenheim Investments <i>High Yield</i></p>	<p>James Michal, currently on medical leave, has resigned from Guggenheim after being presented the findings of an internal investigation regarding his alleged improprieties outside of the workplace. Guggenheim was presented allegations on January 5th, and placed Mr. Michal on administrative leave starting January 6th. An outside law firm was obtained to investigate the allegations, which later reported the findings back to Guggenheim. Upon being presented with the findings of this investigation, Mr. Michal resigned from the firm. There is no indication that the medical leave was meant to impede this investigation. Under California law, Guggenheim was not able to explain the nature of the investigation, its findings, or the additional parties involved in the investigation. It was confirmed that the alleged improprieties did not occur at Guggenheim, at any sponsored events, or involved other employees.</p> <p>This does not change our current our current view of the firm/strategies, but we I do think this has the potential to be another media event. Recommending maintaining HOLD for Guggenheim strategies.</p>	<p>Preferred</p>



TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE - NET

Composite vs. IF Public DB > \$1B Net 3 Years

Anlzd Return Anlzd Standard Deviation Anlzd Alpha Sharpe Ratio



● Total Fund Composite	
Value	6.79
Rank	78
▲ Policy Index	
Value	6.58
Rank	88
✕ Allocation Index	
Value	6.90
Rank	73
Universe	
5th %tile	8.57
25th %tile	7.89
Median	7.48
75th %tile	6.84
95th %tile	6.01

● Total Fund Composite	
Value	5.11
Rank	29
▲ Policy Index	
Value	4.91
Rank	15
✕ Allocation Index	
Value	4.98
Rank	21
Universe	
5th %tile	4.37
25th %tile	5.09
Median	5.67
75th %tile	6.32
95th %tile	6.94

● Total Fund Composite	
Value	0.02
Rank	52
▲ Policy Index	
Value	0.00
Rank	57
✕ Allocation Index	
Value	0.24
Rank	36
Universe	
5th %tile	2.22
25th %tile	0.65
Median	0.04
75th %tile	-0.41
95th %tile	-1.35

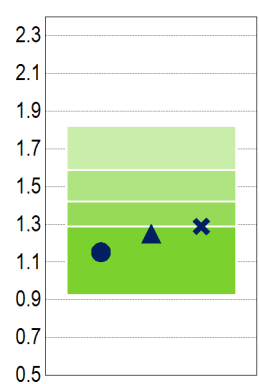
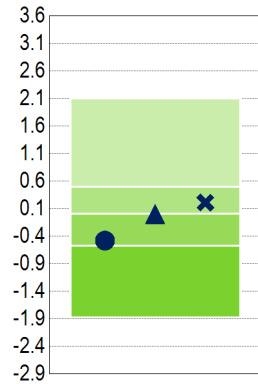
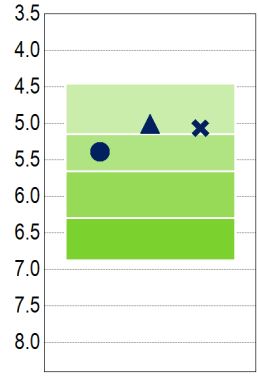
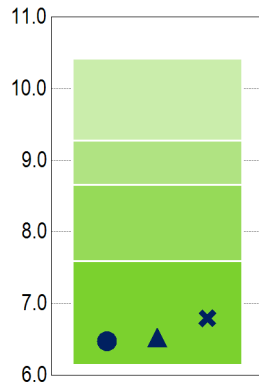
● Total Fund Composite	
Value	1.25
Rank	44
▲ Policy Index	
Value	1.26
Rank	41
✕ Allocation Index	
Value	1.30
Rank	31
Universe	
5th %tile	1.55
25th %tile	1.38
Median	1.23
75th %tile	1.10
95th %tile	0.96



TOTAL FUND RISK STATISTICS VS. PEER UNIVERSE - NET

Composite vs. IF Public DB > \$1B Net 5 Years

Anlzd Return Anlzd Standard Deviation Anlzd Alpha Sharpe Ratio



● Total Fund Composite		
Value	6.48	
Rank	93	
▲ Policy Index		
Value	6.53	
Rank	90	
✕ Allocation Index		
Value	6.80	
Rank	85	
Universe		
5th %tile	10.42	
25th %tile	9.28	
Median	8.66	
75th %tile	7.60	
95th %tile	6.16	

● Total Fund Composite		
Value	5.39	
Rank	34	
▲ Policy Index		
Value	5.01	
Rank	16	
✕ Allocation Index		
Value	5.07	
Rank	21	
Universe		
5th %tile	4.46	
25th %tile	5.14	
Median	5.64	
75th %tile	6.28	
95th %tile	6.86	

● Total Fund Composite		
Value	-0.48	
Rank	72	
▲ Policy Index		
Value	0.00	
Rank	52	
✕ Allocation Index		
Value	0.21	
Rank	36	
Universe		
5th %tile	2.10	
25th %tile	0.51	
Median	0.02	
75th %tile	-0.57	
95th %tile	-1.87	

● Total Fund Composite		
Value	1.15	
Rank	91	
▲ Policy Index		
Value	1.25	
Rank	80	
✕ Allocation Index		
Value	1.29	
Rank	76	
Universe		
5th %tile	1.82	
25th %tile	1.59	
Median	1.43	
75th %tile	1.29	
95th %tile	0.93	



TOTAL FUND PERFORMANCE - NET

	Ending December 31, 2017														Market Value (\$)
	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	7 Yrs (%)	Rank	10 Yrs (%)	Rank	
VPIC Composite	3.4	64	6.5	79	13.9	81	6.8	78	6.5	93	6.7	89	4.7	81	4,340,099,607
<i>60% MSCI ACWI (Net) / 40% CITI WGBI</i>	3.8	30	7.8	27	17.1	12	6.4	89	6.5	89	5.8	94	4.2	93	
<i>60% MSCI ACWI (Net) / 40% BBgBarc Aggregate</i>	3.6	47	7.1	57	15.4	52	6.6	88	7.4	82	6.7	88	4.8	80	
<i>InvestorForce Public DB > \$1B Net Median</i>	3.5		7.4		15.6		7.5		8.7		8.0		5.4		
Vermont State Teachers	3.3	63	6.4	75	13.7	74	6.8	63	6.4	95	6.6	86	4.6	88	1,851,643,124
<i>Allocation Index</i>	3.6	48	7.1	43	14.4	57	6.7	68	6.5	94	6.3	92	4.6	88	
<i>Policy Index</i>	3.1	80	6.5	72	13.3	82	6.6	72	6.5	94	6.3	92	4.4	91	
<i>InvestorForce Public DB Net Median</i>	3.5		6.9		14.7		7.1		8.4		7.6		5.6		
Vermont State Employees	3.4	60	6.6	70	13.9	70	6.8	64	6.5	95	6.7	85	4.8	81	1,835,452,087
<i>Allocation Index</i>	3.6	44	7.2	40	14.5	55	6.8	66	6.7	90	6.3	92	4.8	80	
<i>Policy Index</i>	3.1	80	6.5	72	13.3	82	6.6	72	6.5	94	6.3	92	4.7	83	
<i>InvestorForce Public DB Net Median</i>	3.5		6.9		14.7		7.1		8.4		7.6		5.6		
Vermont Municipal Employees	3.4	57	6.6	64	14.1	64	6.8	64	6.6	93	6.7	84	4.9	78	653,004,396
<i>Allocation Index</i>	3.6	44	7.2	41	14.6	54	6.8	60	6.8	89	6.4	91	5.0	75	
<i>Policy Index</i>	3.1	80	6.5	72	13.3	82	6.6	72	6.5	94	6.3	92	4.8	82	
<i>InvestorForce Public DB Net Median</i>	3.5		6.9		14.7		7.1		8.4		7.6		5.6		



TOTAL FUND FISCAL PERFORMANCE - NET

	Ending December 31, 2017															
	Fiscal 2017 (%)	Rank	Fiscal 2016 (%)	Rank	Fiscal 2015 (%)	Rank	Fiscal 2014 (%)	Rank	Fiscal 2013 (%)	Rank	Fiscal 2012 (%)	Rank	Fiscal 2011 (%)	Rank	Fiscal 2010 (%)	Rank
VPIC Composite	10.6	90	1.2	17	-0.4	94	14.0	89	8.1	92	1.9	19	20.5	57	17.1	3
60% MSCI ACWI (Net) / 40% CITI WGBI	9.1	96	2.3	8	-3.2	99	16.4	41	7.7	93	-2.4	98	22.1	39	8.6	96
60% MSCI ACWI (Net) / 40% BBgBarc Aggregate	10.8	88	0.3	37	1.3	85	15.3	68	9.4	86	-0.5	86	19.3	61	11.3	72
InvestorForce Public DB > \$1B Net Median	12.7		-0.5		2.6		16.1		11.8		0.5		21.9		12.7	
Vermont State Teachers	10.5	77	1.4	25	-0.3	96	13.9	83	8.0	94	1.9	26	20.4	39	17.3	1
Allocation Index	10.4	79	0.9	37	0.0	95	13.1	91	8.0	94	0.6	59	18.4	63	14.0	19
Policy Index	10.1	82	1.4	25	0.1	94	13.7	84	7.7	94	0.9	51	18.5	61	11.3	62
InvestorForce Public DB Net Median	11.9		0.4		2.8		15.5		11.3		0.9		19.5		12.0	
Vermont State Employees	10.7	73	1.1	32	-0.3	96	14.2	73	8.2	93	1.9	26	20.4	39	17.3	1
Allocation Index	10.5	77	0.9	36	0.0	95	13.4	89	8.2	93	0.2	70	18.9	57	13.5	31
Policy Index	10.1	82	1.4	25	0.1	94	13.7	84	7.7	94	0.8	52	18.5	61	11.3	62
InvestorForce Public DB Net Median	11.9		0.4		2.8		15.5		11.3		0.9		19.5		12.0	
Vermont Municipal Employees	10.9	67	1.1	33	-0.6	97	14.2	72	8.4	92	1.9	26	20.4	39	17.3	1
Allocation Index	10.7	73	1.0	33	0.0	95	13.5	89	8.5	92	0.4	66	18.7	59	13.2	35
Policy Index	10.1	82	1.4	25	0.1	94	13.7	84	7.7	94	0.8	52	18.5	61	11.3	62
InvestorForce Public DB Net Median	11.9		0.4		2.8		15.5		11.3		0.9		19.5		12.0	



INVESTMENT HIGHLIGHTS - NET

	Market Value (\$)	% of Portfolio	Policy %	Ending December 31, 2017						
				3 Mo (%)	Fiscal YTD (%)	1 Yr (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)
Total Fund Composite	4,340,099,607	100.0	100.0	3.4	6.5	13.9	6.8	6.5	6.7	4.7
<i>Policy Index</i>				3.1	6.5	13.3	6.6	6.5	6.3	4.7
Total Marketable Assets	3,683,805,824	84.9	84.0	3.6	6.9	15.5	7.0	6.4	--	--
<i>Total Marketable Assets Custom Index</i>				3.4	7.0	14.5	6.6	6.6	--	--
Total Domestic Equity	1,088,217,258	25.1	24.0	6.1	9.9	18.5	10.9	--	--	--
<i>Russell 3000</i>				6.3	11.2	21.1	11.1	15.6	13.5	8.6
Total Core Non US Equity	836,500,770	19.3	14.0	4.6	11.2	29.0	10.3	10.0	7.4	--
<i>MSCI EAFE</i>				4.2	9.9	25.0	7.8	7.9	6.0	1.9
Total Emerging Market Equity	325,001,653	7.5	6.0	5.2	9.6	30.2	8.1	3.0	3.7	--
<i>MSCI Emerging Markets</i>				7.4	15.9	37.3	9.1	4.3	2.6	1.7
Total Fixed Income	1,241,923,230	28.6	36.0	0.7	2.0	5.8	4.2	--	--	--
<i>BBgBarc US Aggregate TR</i>				0.4	1.2	3.5	2.2	2.1	3.2	4.0
Total Risk Parity/GAA	184,643,719	4.3	4.0	4.7	9.3	15.2	4.9	4.3	5.1	4.7
<i>60% MSCI World (Net) / 40% CITI WGBI</i>				3.7	7.5	16.2	6.4	7.0	6.3	4.4
Total Cash	7,519,192	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
<i>91 Day T-Bills</i>				0.3	0.6	0.9	0.4	0.3	0.2	0.3
Total Real Estate	255,067,854	5.9	6.5	1.8	3.4	5.8	9.0	10.8	--	--
<i>NCREIF Property Index</i>				1.8	3.5	7.0	9.4	10.2	10.8	6.1
Total Absolute Return	299,244,598	6.9	8.0	2.1	4.2	4.0	1.7	4.2	3.7	--
<i>HFRI Fund of Funds Composite Index</i>				2.0	4.3	7.7	2.6	4.0	2.7	1.1
Total Private Debt	27,809,518	0.6	0.0	--	--	--	--	--	--	--
<i>S&P/LSTA Leveraged Loan TR</i>				1.1	2.2	4.1	4.4	4.0	4.5	4.9
Total Private Equity	74,171,812	1.7	1.5	1.9	7.4	14.4	13.9	15.0	--	--
<i>Cambridge Associates US All PE</i>				0.0	3.9	11.8	10.1	12.5	12.5	9.2

Total Marketable Assets Custom Index mirrors the Plan Policy Index, while excluding Absolute Return, Real Estate, Private Debt and Private Equity



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Teachers Composite	1,851,643,124	100.0	100.0	3.3	63	6.4	75	13.7	74	6.8	63	6.4	95	4.6	88
<i>Policy Index</i>				3.1	80	6.5	72	13.3	82	6.6	72	6.5	94	4.4	91
<i>Allocation Index</i>				3.6	48	7.1	43	14.4	57	6.7	68	6.5	94	4.6	88
<i>InvestorForce Public DB Net Median</i>				3.5		6.9		14.7		7.1		8.4		5.6	
Total Marketable Assets	1,553,756,831	83.9	84.0	3.6	47	6.8	54	15.4	36	7.0	52	6.3	96	--	--
<i>Total Marketable Assets Custom Index</i>				3.4	61	7.0	48	14.5	55	6.6	71	6.6	92	--	--
<i>InvestorForce Public DB Net Median</i>				3.5		6.9		14.7		7.1		8.4		5.6	
Total Domestic Equity	446,550,468	24.1	24.0	6.1	42	9.9	56	18.5	51	11.0	32	--	--	--	--
<i>Russell 3000</i>				6.3	36	11.2	40	21.1	38	11.1	30	15.6	30	8.6	49
<i>eV All US Equity Net Median</i>				5.6		10.4		18.7		9.8		14.5		8.5	
Total Large Cap Equities	390,359,379	21.1	18.5	6.5	51	11.1	54	21.0	51	11.1	29	15.8	31	9.2	24
<i>S&P 500</i>				6.6	47	11.4	49	21.8	45	11.4	25	15.8	31	8.5	42
<i>eV US Large Cap Equity Net Median</i>				6.5		11.3		21.1		10.0		14.8		8.3	
<i>SSgA S&P 500 Cap-Wgt</i>	316,423,974	17.1	14.0	6.6	47	11.4	49	21.8	45	11.4	24	15.8	31	--	--
<i>S&P 500</i>				6.6	47	11.4	49	21.8	45	11.4	25	15.8	31	8.5	42
<i>SSgA S&P 500 Equal-Wgt</i>	73,934,015	4.0	4.5	6.3	54	10.2	69	18.9	65	10.1	49	15.8	32	10.0	12
<i>S&P 500 Equal Weighted</i>				6.2	57	10.0	71	18.9	66	10.1	49	15.8	31	10.2	11
<i>T. Rowe</i>	1,390	0.0	0.0												
Total Small/Mid Cap Equities	56,191,089	3.0	5.5	3.5	82	4.9	91	9.6	90	9.9	40	14.4	37	9.5	39
<i>Russell 2000</i>				3.3	85	9.2	56	14.6	65	10.0	40	14.1	43	8.7	59
<i>eV US Small-Mid Cap Equity Net Median</i>				5.5		9.6		17.1		9.3		13.7		9.1	
<i>Champlain</i>	56,161,419	3.0	2.8	4.0	88	6.1	92	17.4	58	12.4	13	16.3	14	--	--
<i>Custom SMID Cap Equity Index</i>				4.3	85	9.2	61	15.8	65	9.7	46	14.1	56	9.1	44
<i>eV US Mid Cap Equity Net Median</i>				5.7		9.8		19.6		9.5		14.4		8.9	
<i>Wellington</i>	29,670	0.0	2.8												

Fiscal Year End is 6/30.

Total Marketable Assets Custom Index mirrors the Plan Policy Index, while excluding Absolute Return, Real Estate, Private Debt and Private Equity.

Custom SMID Cap Equity Index is 50% Russell 2500 and 50% Russell 2000 starting 10/1/2017, and 100% Russell 2500 prior, corresponding to the change in strategy.



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Non US Equity	484,164,977	26.1	20.0	4.8	58	10.5	69	29.3	56	9.4	48	7.2	79	--	--
MSCI EAFE				4.2	66	9.9	79	25.0	84	7.8	74	7.9	66	1.9	82
MSCI ACWI ex USA				5.0	48	11.5	56	27.2	72	7.8	74	6.8	84	1.8	84
eV All ACWI ex-US Equity Net Median				4.9		12.0		29.9		9.3		8.6		3.5	
Total Core Non US Equity	343,409,004	18.5	14.0	4.6	38	11.2	43	28.9	35	10.3	35	9.9	36	2.6	69
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	1.9	86
eV All EAFE Equity Net Median				4.2		10.4		26.6		8.9		9.0		3.4	
Acadian	68,915,147	3.7	4.0	5.0	30	12.3	32	36.8	11	14.7	12	13.0	14	3.1	53
Mondrian	64,637,559	3.5	4.0	2.9	84	8.9	75	22.1	83	7.2	82	8.3	64	2.3	74
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	1.9	86
SSgA ACWI Ex US	209,856,297	11.3	6.0	5.0	43	11.6	54	27.5	68	8.0	72	7.0	83	--	--
MSCI ACWI ex USA				5.0	43	11.5	54	27.2	69	7.8	73	6.8	84	1.8	82
eV ACWI ex-US All Cap Equity Net Median				4.9		11.9		29.6		9.3		9.1		3.4	
Total Emerging Market Equity	140,755,974	7.6	6.0	5.2	84	9.6	93	30.2	81	8.1	69	3.0	89	--	--
Aberdeen	140,755,974	7.6	6.0	5.2	84	9.6	93	30.2	81	8.1	69	3.0	89	--	--
MSCI Emerging Markets				7.4	30	15.9	39	37.3	48	9.1	52	4.3	74	1.7	75
eV Emg Mkts Equity Net Median				6.7		14.9		37.1		9.1		5.4		2.7	
Total Fixed Income	538,662,035	29.1	36.0	0.7	33	2.0	34	5.8	30	4.2	29	--	--	--	--
BBgBarc US Aggregate TR				0.4	52	1.2	57	3.5	57	2.2	59	2.1	57	4.0	56
eV All US Fixed Inc Net Median				0.4		1.4		3.9		2.6		2.4		4.2	
Total Diversified Fixed Income	143,484,427	7.7	12.0	0.4	53	1.4	52	4.5	42	3.3	39	3.2	38	4.2	52
BBgBarc US Aggregate TR				0.4	52	1.2	57	3.5	57	2.2	59	2.1	57	4.0	56
eV All US Fixed Inc Net Median				0.4		1.4		3.9		2.6		2.4		4.2	
PIMCO Core Plus	125,940,146	6.8	6.0	0.4	70	1.5	30	4.8	9	2.7	33	2.1	65	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	4.0	77
SSgA Barclays Aggregate Index	17,544,281	0.9	6.0	0.3	76	1.2	60	3.5	70	--	--	--	--	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	4.0	77
3-Month Libor Total Return USD				0.4	66	0.7	92	1.3	99	0.8	99	0.6	99	0.8	99
eV US Core Fixed Inc Net Median				0.4		1.3		3.8		2.4		2.3		4.4	



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total TIPS	118,172,203	6.4	6.0	1.2	68	2.0	79	2.9	67	2.0	39	0.1	52	--	--
BlackRock TIPS	118,172,203	6.4	6.0	1.2	--	2.0	--	2.9	--	2.0	--	0.0	--	--	--
BBgBarc US TIPS TR				1.3	--	2.1	--	3.0	--	2.0	--	0.1	--	3.5	--
Total High Yield Bonds	73,818,101	4.0	5.0	0.7	38	2.3	53	6.1	76	5.8	43	5.5	41	7.3	48
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
eV US High Yield Fixed Inc Net Median				0.5		2.4		7.1		5.6		5.2		7.2	
KDP	18,823,360	1.0	1.0	0.1	89	1.5	89	4.9	89	3.9	95	3.7	96	--	--
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
BofA Merrill Lynch US High Yield BB-B Rated				0.4	69	2.3	53	7.0	53	6.0	34	5.6	35	7.3	47
Guggenheim	54,994,740	3.0	4.0	0.9	28	2.6	39	6.4	66	6.3	26	--	--	--	--
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
eV US High Yield Fixed Inc Net Median				0.5		2.4		7.1		5.6		5.2		7.2	
Total Emerging Market Debt	94,605,848	5.1	5.0	0.8	57	3.5	77	10.6	74	7.3	20	4.5	16	--	--
Wellington Opportunistic EMD	94,605,848	5.1	5.0	0.8	57	3.5	77	10.6	74	7.3	20	4.5	16	--	--
JP Morgan EMBI Global Index				0.5	70	2.9	92	9.3	86	6.8	32	3.8	32	7.1	34
eV All Emg Mkts Fixed Inc Net Median				0.9		4.2		12.5		5.7		2.6		6.3	
Total Long Treasury	36,285,858	2.0	2.0	2.4	--	2.9	--	--	--	--	--	--	--	--	--
State Street Long U.S. Treasury Index	36,285,858	2.0	2.0	2.4	--	2.9	--	--	--	--	--	--	--	--	--
BBgBarc US Treasury Long TR				2.4	--	3.0	--	8.5	--	2.8	--	3.5	--	6.6	--



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Unconstrained Fixed Income	72,295,599	3.9	6.0	-0.2	88	1.1	85	5.4	72	--	--	--	--	--	--
25% HY, 25% EMD, 50% BC Agg				0.4	72	2.0	70	6.0	64	4.4	24	3.5	33	5.9	15
BBgBarc Global Aggregate TR				1.1	30	2.9	41	7.4	41	2.0	88	0.8	93	3.1	84
eV Global Unconstrained Fixed Inc Net Median				0.9		2.5		6.7		2.9		2.4		4.7	
PIMCO Unconstrained	36,194,916	2.0	2.5	0.2	80	1.6	73	4.7	85	2.4	79	1.5	84	--	--
25% HY, 25% EMD, 50% BC Agg				0.4	72	2.0	70	6.0	64	4.4	24	3.5	33	5.9	15
3-Month Libor Total Return USD				0.4	74	0.7	90	1.3	98	0.8	99	0.6	93	0.8	99
GAM Unconstrained Bond	36,100,683	1.9	3.5	-0.6	93	0.7	90	5.8	66	--	--	--	--	--	--
3-Month LIBOR + 3%				1.1	25	2.2	61	4.4	86	3.8	30	3.6	32	3.8	61
eV Global Unconstrained Fixed Inc Net Median				0.9		2.5		6.7		2.9		2.4		4.7	
Total Risk Parity/GAA	82,266,708	4.4	4.0	4.7	17	9.3	18	15.2	44	4.9	50	4.3	61	4.7	55
Mellon Dynamic Growth	51,563	0.0	0.0												
Total Risk Parity	82,215,145	4.4	4.0	4.7	16	9.3	18	15.7	40	5.0	49	4.1	62	--	--
eV Global TAA Net Median				3.4		6.7		13.7		4.9		4.9		4.8	
AQR Global Risk Premium	82,215,145	4.4	4.0	4.7	16	9.3	18	15.7	40	5.0	49	4.1	62	--	--
60% MSCI World (Net) / 40% CITI WGBI				3.7	43	7.5	42	16.2	37	6.4	19	7.0	30	4.4	58
Total Cash	2,112,642	0.1	0.0												
Vermont Cash	2,112,642	0.1	0.0												
Total Real Estate	121,760,465	6.6	6.5	1.8	--	3.4	--	5.7	--	9.1	--	10.9	--	--	--
NCREIF Property Index				1.8	--	3.5	--	7.0	--	9.4	--	10.2	--	6.1	--



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Real Estate Core	103,773,068	5.6	5.0	2.2	--	3.4	--	5.4	--	8.9	--	10.8	--	--	--
UBS Trumbull	103,436,184	5.6		2.2	--	3.5	--	5.4	--	8.3	--	8.9	--	4.6	--
RREEF America REIT III	208,437	0.0		0.0	--	-0.8	--	-4.8	--	-5.6	--	4.2	--	-6.5	--
Transwestern / Aslan III	128,447	0.0		0.0	--	0.0	--	0.0	--	1.8	--	6.9	--	-23.1	--
Total Real Estate Non-Core	17,987,397	1.0	1.5	0.0	--	3.1	--	7.7	--	10.3	--	--	--	--	--
Siguler Guff DREOF II	12,886,250	0.7		0.0	--	3.8	--	8.1	--	10.7	--	--	--	--	--
Siguler Guff DREOF II Co-Investment	5,101,147	0.3		0.0	--	0.9	--	6.8	--	--	--	--	--	--	--
Total Absolute Return	131,029,078	7.1	8.0	2.2	34	4.2	46	4.0	78	1.7	75	4.2	68	--	--
<i>HFRI Fund of Funds Composite Index</i>				2.0	38	4.3	43	7.7	45	2.6	59	4.0	69	1.1	90
<i>eV Alt Fund of Funds - Multi-Strategy Median</i>				1.7		3.9		7.2		3.0		5.1		3.0	
Grosvenor	54,340,273	2.9	3.0	2.4	31	4.1	47	6.5	57	3.0	53	5.4	45	--	--
Allianz Structured Alpha	32,653,510	1.8	2.0	1.5	58	2.8	76	5.2	67	6.7	14	6.4	31	--	--
<i>91 Day T-Bills</i>				0.3	92	0.6	95	0.9	97	0.4	89	0.3	99	0.3	96
<i>eV Alt Fund of Funds - Multi-Strategy Median</i>				1.7		3.9		7.2		3.0		5.1		3.0	
Pinnacle Natural Resources, L.P.	43,837,812	2.4	3.0	2.3	--	5.2	--	-6.3	--	--	--	--	--	--	--
<i>Bloomberg Commodity Index</i>				4.7	--	7.3	--	1.7	--	-5.0	--	-8.5	--	-6.8	--
GAM	197,484	0.0	0.0												
Total Private Debt	11,911,634	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>S&P/LSTA Leveraged Loan TR</i>				1.1	--	2.2	--	4.1	--	4.4	--	4.0	--	4.9	--
Benefit Street Partners	11,911,634	0.6	0.0	--	--	--	--	--	--	--	--	--	--	--	--
Total Private Equity	33,185,117	1.8	1.5	1.9	--	7.4	--	14.2	--	14.8	--	14.0	--	--	--
<i>Cambridge Associates US All PE</i>				0.0	--	3.9	--	11.8	--	10.1	--	12.5	--	9.2	--

Real Estate performance reported on a quarterly basis. NCREIF Property is available 25 days after quarter end.

Real Estate values are preliminary as of 09/30/2017.

Absolute Return composite formerly shown as Hedge Funds composite.

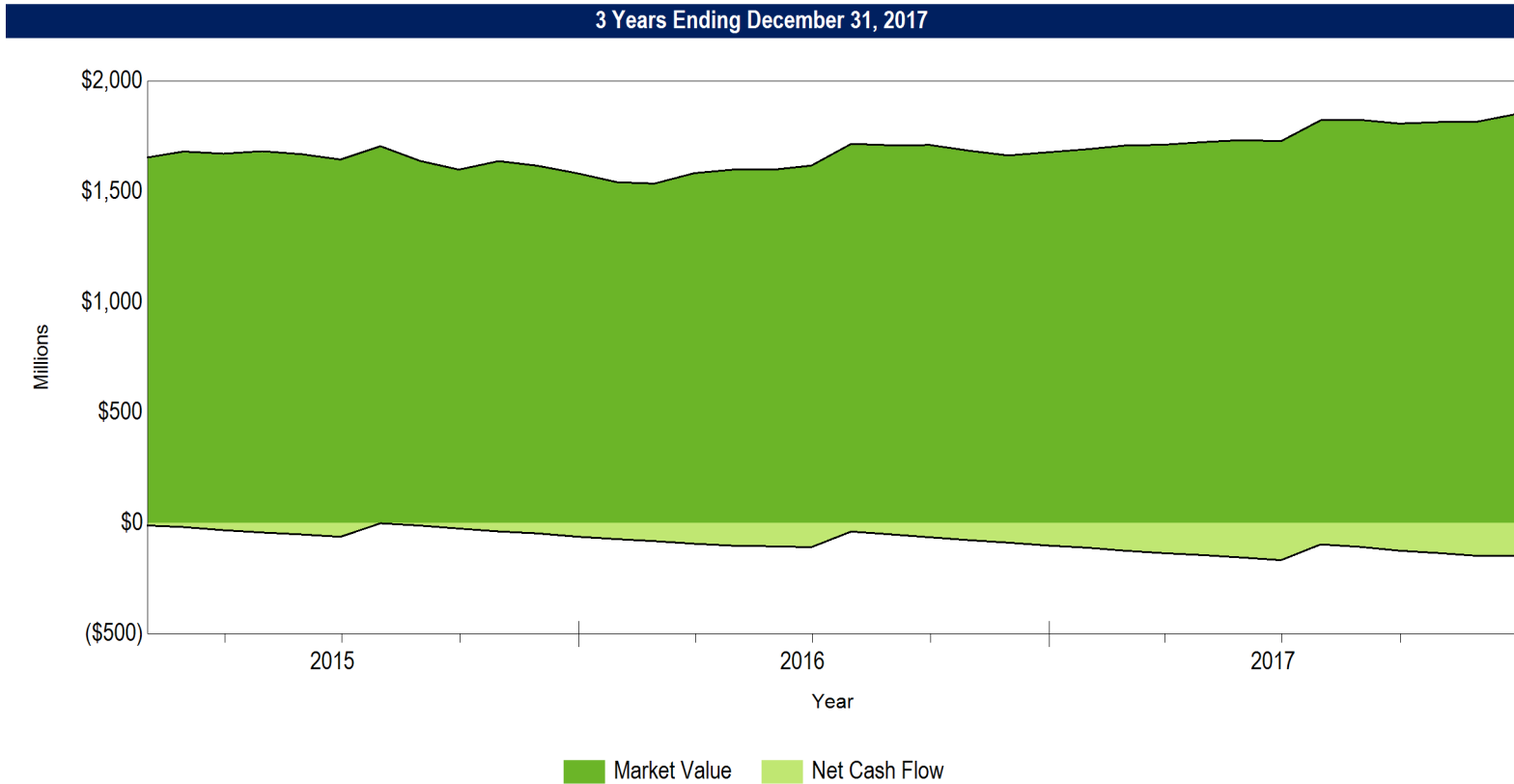
As of 04/01/2016, Absolute Return includes Allianz Structured Alpha.

Allianz Structured Alpha was included Diversified Fixed income composite prior to 04/01/2016.

Harbourvest values based on final Capital Account Statements for Q2, and cash adjusted through Q3.



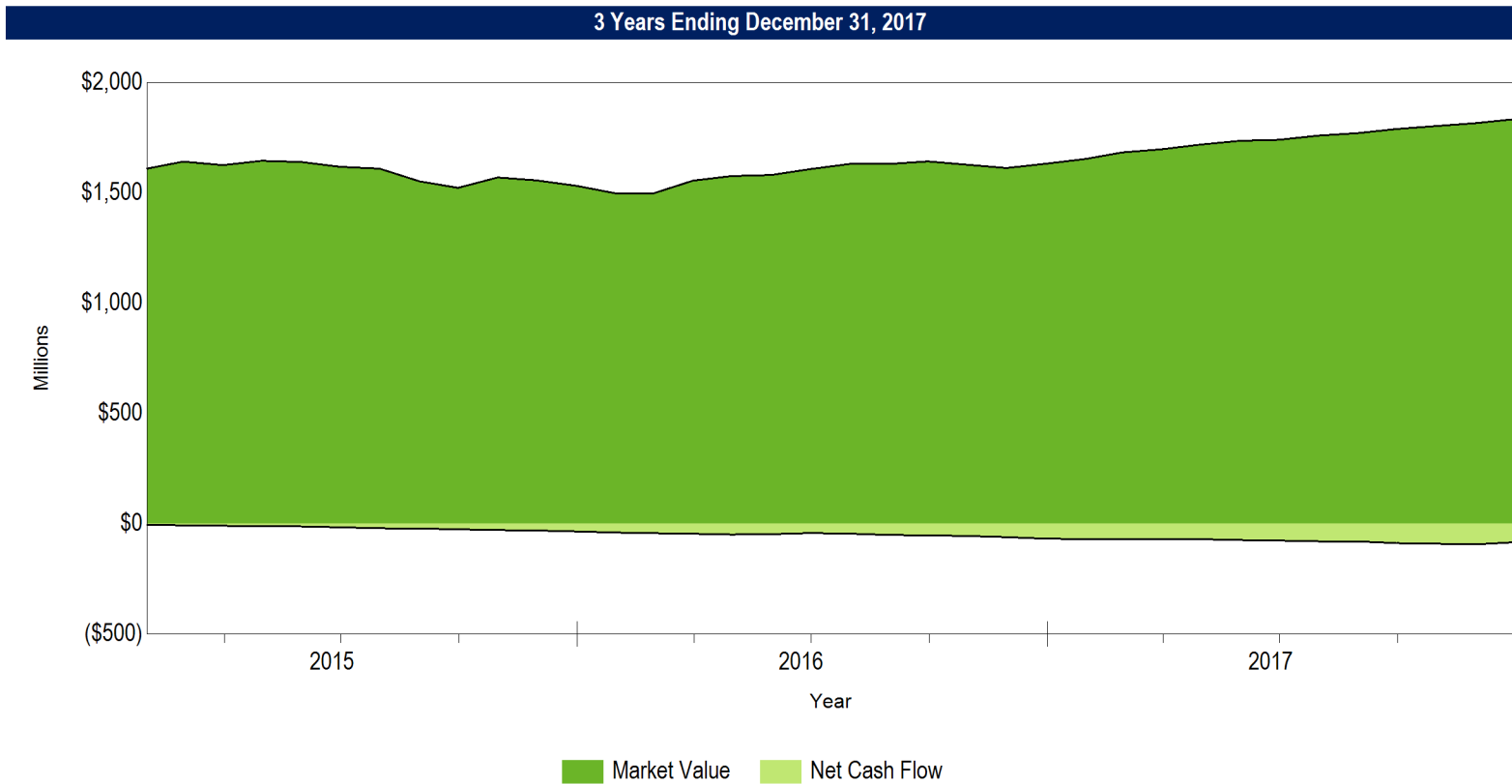
TOTAL FUND ASSET GROWTH SUMMARY



	Last Three Months	Fiscal Year-To-Date	One Year	Three Years
Beginning Market Value	\$1,807,680,703	\$1,727,857,427	\$1,677,902,518	\$1,653,682,205
Contributions	\$181,963,117	\$367,088,570	\$572,161,791	\$1,313,235,848
Withdrawals	-\$204,381,426	-\$346,448,961	-\$617,579,306	-\$1,459,246,971
Net Cash Flow	-\$22,418,309	\$20,639,609	-\$45,417,515	-\$146,011,122
Net Investment Change	\$66,380,730	\$103,146,088	\$219,158,121	\$343,972,041
Ending Market Value	\$1,851,643,124	\$1,851,643,124	\$1,851,643,124	\$1,851,643,124



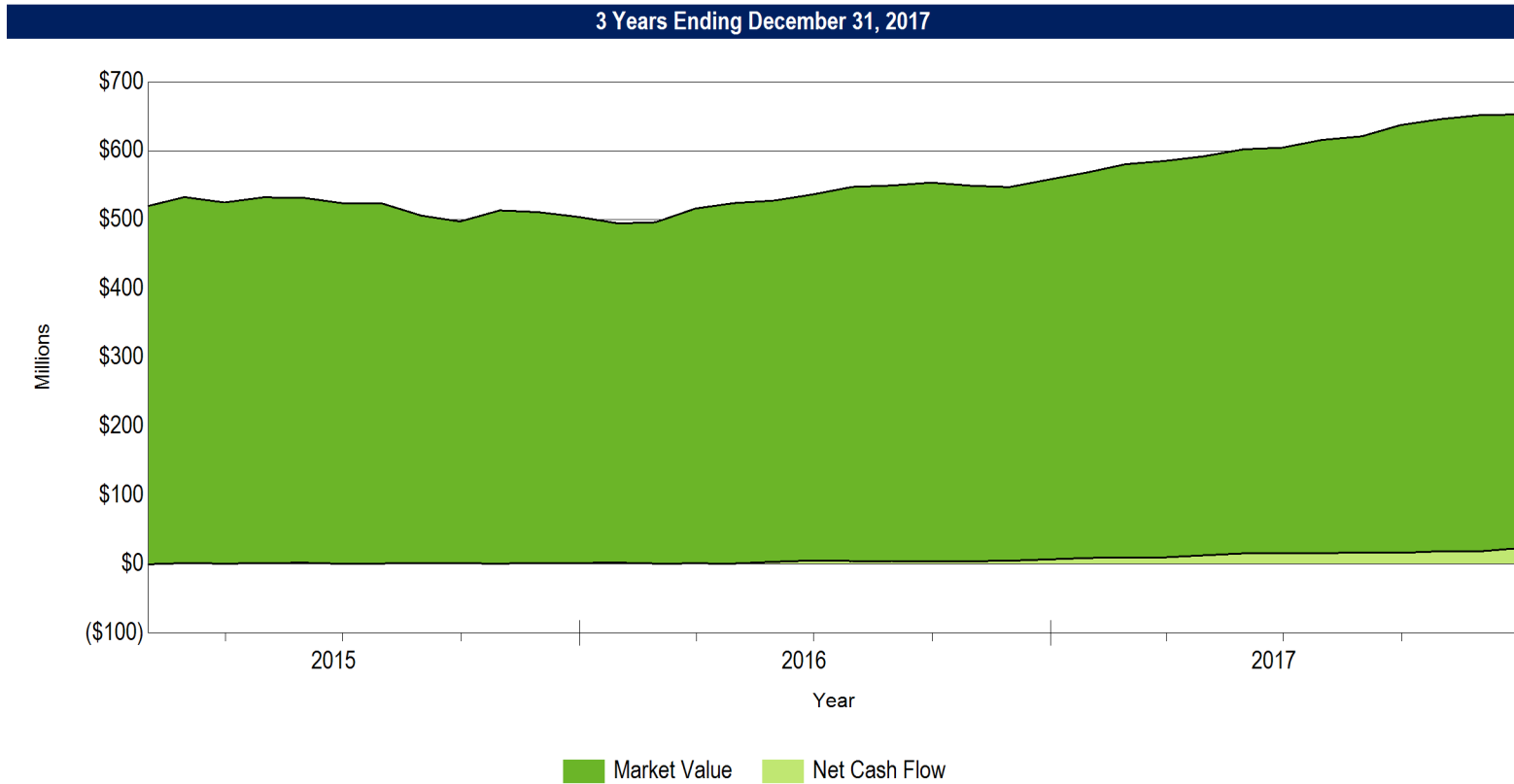
TOTAL FUND ASSET GROWTH SUMMARY



	Last Three Months	Fiscal Year-To-Date	One Year	Three Years
Beginning Market Value	\$1,790,796,766	\$1,741,704,933	\$1,633,425,741	\$1,606,602,018
Contributions	\$197,662,134	\$313,381,690	\$513,208,511	\$1,094,332,395
Withdrawals	-\$193,640,909	-\$320,918,347	-\$529,258,337	-\$1,177,958,346
Net Cash Flow	\$4,021,225	-\$7,536,657	-\$16,049,827	-\$83,625,951
Net Investment Change	\$40,634,096	\$101,283,811	\$218,076,173	\$312,476,020
Ending Market Value	\$1,835,452,087	\$1,835,452,087	\$1,835,452,087	\$1,835,452,087



TOTAL FUND ASSET GROWTH SUMMARY



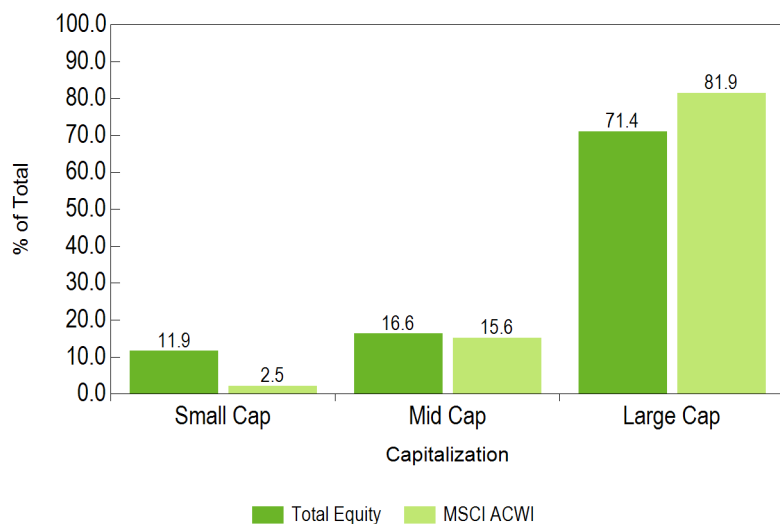
	Last Three Months	Fiscal Year-To-Date	Year-To-Date	One Year	Three Years
Beginning Market Value	\$637,388,773	\$604,639,581	\$558,383,878	\$558,383,878	\$517,565,474
Contributions	\$71,695,260	\$113,914,754	\$186,521,493	\$186,521,493	\$398,703,814
Withdrawals	-\$64,815,152	-\$106,149,468	-\$170,231,303	-\$170,231,303	-\$375,657,001
Net Cash Flow	\$6,880,108	\$7,765,286	\$16,290,190	\$16,290,190	\$23,046,813
Net Investment Change	\$8,735,515	\$40,599,529	\$78,330,327	\$78,330,327	\$112,392,109
Ending Market Value	\$653,004,396	\$653,004,396	\$653,004,396	\$653,004,396	\$653,004,396



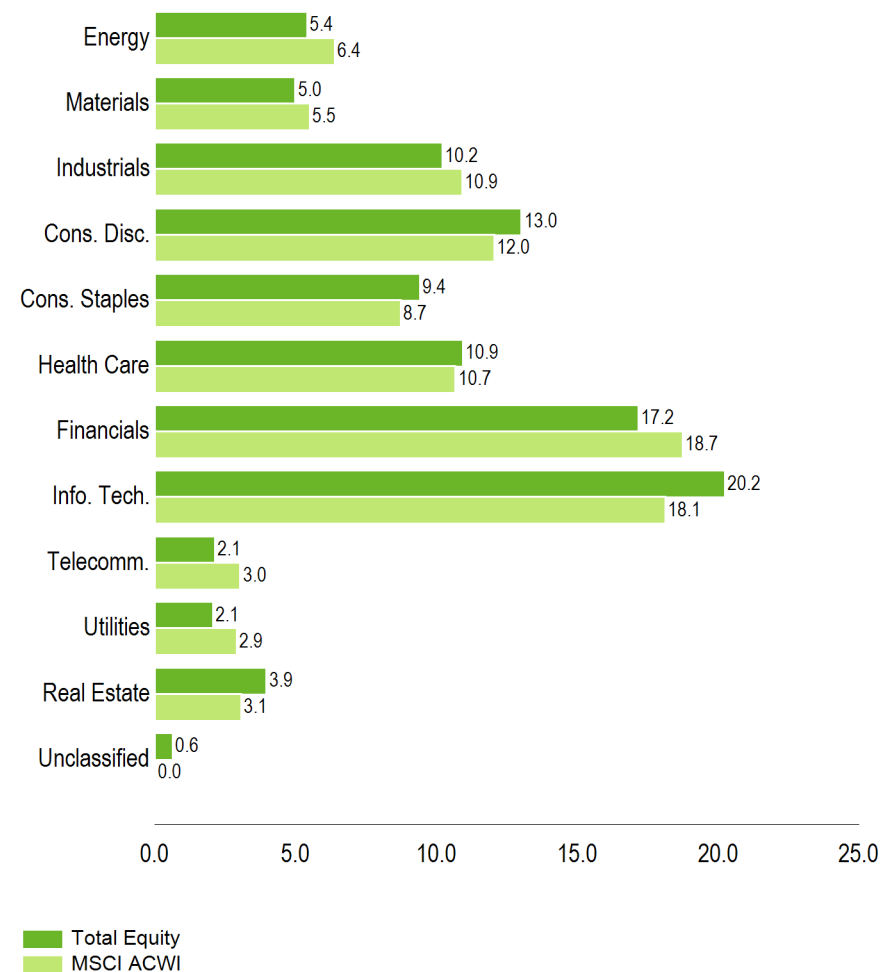
TOTAL EQUITY COMPOSITE

Characteristics		
	Portfolio	MSCI ACWI
Number of Holdings	1,130	2,499
Weighted Avg. Market Cap. (\$B)	110.95	121.48
Median Market Cap. (\$B)	13.97	10.65
Price To Earnings	26.57	22.84
Price To Book	5.33	3.82
Price To Sales	3.42	2.95
Return on Equity (%)	21.35	16.68
Yield (%)	1.88	2.25
Beta	0.95	1.00
R-Squared	0.98	1.00

Market Capitalization
As of December 31, 2017



Sector Allocation (%) vs MSCI ACWI



TOTAL EQUITY COMPOSITE

Top Ten Holdings	
APPLE	1.8%
MICROSOFT	1.4%
AMAZON.COM	1.0%
SAMSUNG ELTN.PREF.	1.0%
TAIWAN SEMICON.MNFG.	1.0%
FACEBOOK CLASS A	0.9%
BERKSHIRE HATHAWAY 'B'	0.8%
HOUSING DEVELOPMENT FIN.	0.8%
JOHNSON & JOHNSON	0.8%
JP MORGAN CHASE & CO.	0.8%

Top Positive Contributors		
	Relative Contribution %	Return %
BANK RAKYAT INDONESIA	0.2%	18.3%
KONINKLIJKE AHOLD DELHAIZE	0.1%	17.7%
HONDA MOTOR	0.1%	16.5%
BANK MANDIRI	0.1%	18.1%
PEARSON	0.1%	21.3%
BANK CENTRAL ASIA	0.1%	7.5%
BANK NEGARA INDONESIA	0.1%	32.8%
UNITED OVERSEAS BANK	0.1%	14.4%
NAVER	0.1%	24.9%
SAMSUNG ELTN.PREF.	0.1%	8.4%

Top Negative Contributors		
	Relative Contribution %	Return %
MAGNIT	-0.1%	-36.9%
TENCENT HOLDINGS	-0.1%	20.7%
GPO FINANCE BANORTE	-0.1%	-20.3%
AMAZON.COM	-0.1%	21.6%
SANOFI	-0.1%	-13.1%
APPLE	-0.1%	10.2%
TELEKOMUNIKASI INDONESIA	-0.1%	-5.8%
MICROSOFT	-0.1%	15.4%
NASPERS	-0.1%	28.9%
BRF BRASIL FOODS ON	0.0%	-23.6%

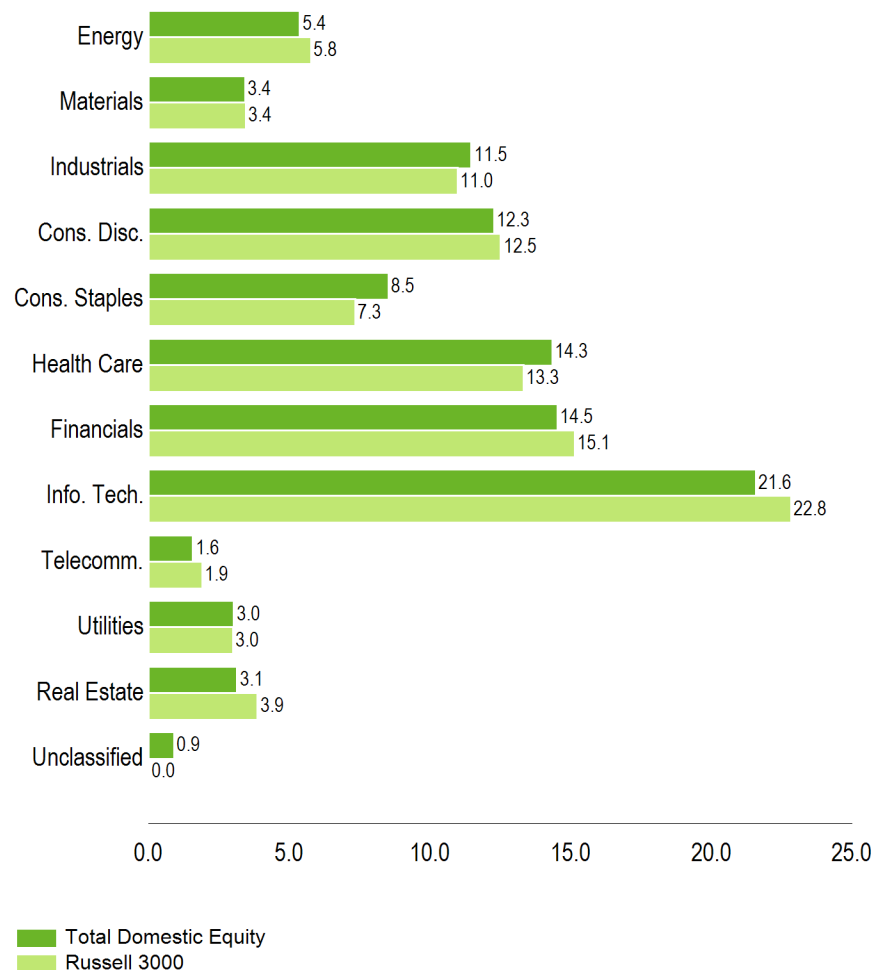
Equity Sector Attribution											
	Total Effects	Selection Effect	Attribution Effects			Returns		Sector Weights			
			Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark			
Energy	-0.1%	0.0%	0.0%	0.0%	6.3%	7.1%	5.6%	6.4%			
Materials	0.0%	0.0%	0.0%	0.0%	7.9%	7.9%	4.7%	5.3%			
Industrials	0.0%	0.0%	0.0%	0.0%	5.4%	5.2%	9.7%	10.8%			
Consumer Discretionary	0.1%	0.1%	0.0%	0.0%	8.3%	7.8%	13.5%	11.9%			
Consumer Staples	0.1%	0.1%	0.0%	0.0%	6.9%	5.9%	10.6%	8.8%			
Health Care	0.0%	-0.1%	0.1%	0.0%	0.7%	1.4%	10.0%	11.1%			
Financials	0.3%	0.3%	0.0%	0.0%	7.6%	6.2%	18.9%	18.8%			
Information Technology	0.0%	-0.2%	0.0%	0.2%	8.5%	8.2%	16.4%	17.6%			
Telecommunication Services	-0.2%	-0.1%	0.0%	0.0%	-1.3%	2.2%	4.5%	3.1%			
Utilities	0.1%	0.0%	0.1%	0.0%	0.4%	-0.2%	2.1%	3.1%			
Real Estate	-0.1%	-0.1%	0.0%	0.0%	2.3%	4.8%	3.4%	3.1%			
Cash	0.0%	0.0%	0.0%	0.0%	0.3%	--	0.7%	0.0%			
Portfolio	0.2%	=	-0.1%	+	0.0%	+	0.2%	6.0%	5.9%	100.0%	100.0%



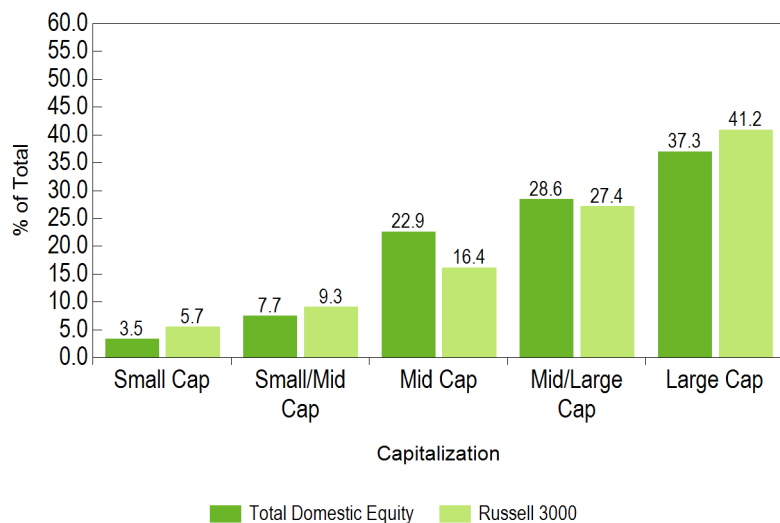
DOMESTIC EQUITY COMPOSITE

Characteristics		
	Portfolio	Russell 3000
Number of Holdings	609	2,961
Weighted Avg. Market Cap. (\$B)	137.53	150.14
Median Market Cap. (\$B)	19.46	1.72
Price To Earnings	27.47	25.02
Price To Book	5.89	4.63
Price To Sales	3.73	3.64
Return on Equity (%)	22.00	17.53
Yield (%)	1.74	1.74
Beta	0.99	1.00
R-Squared	0.98	1.00

Sector Allocation (%) vs Russell 3000



Market Capitalization As of December 31, 2017



DOMESTIC EQUITY COMPOSITE

Top Ten Holdings	
APPLE	2.7%
MICROSOFT	2.1%
AMAZON.COM	1.5%
FACEBOOK CLASS A	1.3%
BERKSHIRE HATHAWAY 'B'	1.2%
JOHNSON & JOHNSON	1.2%
JP MORGAN CHASE & CO.	1.2%
EXXON MOBIL	1.1%
ALPHABET 'C'	1.0%
ALPHABET A	1.0%

Top Positive Contributors		
	Relative Contribution %	Return %
GENERAL ELECTRIC	0.2%	-27.3%
BANK RAKYAT INDONESIA	0.1%	18.3%
HONDA MOTOR	0.1%	16.5%
KONINKLIJKE AHOLD DELHAIZE	0.1%	17.7%
BANK MANDIRI	0.1%	18.1%
CELGENE	0.1%	-28.4%
PEARSON	0.1%	21.3%
NAVER	0.1%	24.9%
UNITED OVERSEAS BANK	0.1%	14.4%
BANK CENTRAL ASIA	0.1%	7.5%

Top Negative Contributors		
	Relative Contribution %	Return %
MICROSOFT	-0.2%	15.4%
APPLE	-0.2%	10.2%
AMAZON.COM	-0.2%	21.6%
JP MORGAN CHASE & CO.	-0.1%	12.6%
BANK OF AMERICA	-0.1%	17.0%
INTEL	-0.1%	21.9%
MAGNIT	-0.1%	-36.9%
HOME DEPOT	-0.1%	16.5%
WALMART	-0.1%	27.0%
BERKSHIRE HATHAWAY 'B'	-0.1%	8.1%

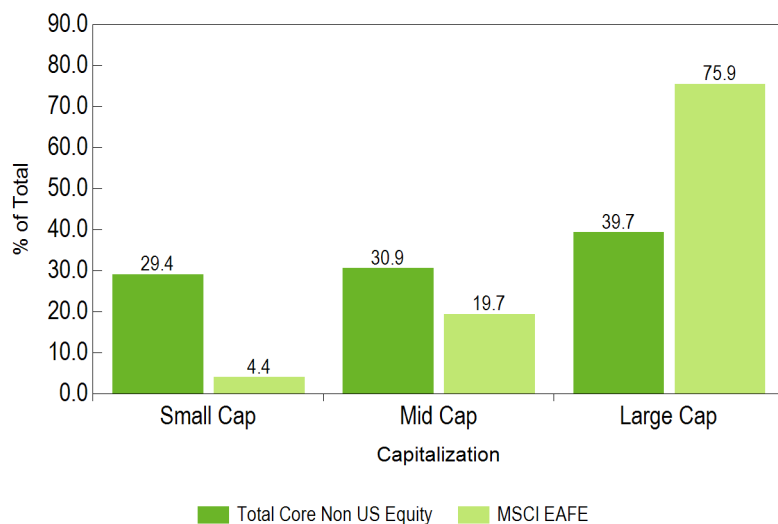
Equity Sector Attribution									
	Attribution Effects					Returns		Sector Weights	
	Total	Selection	Allocation	Interaction	Portfolio	Benchmark	Portfolio	Benchmark	
	Effects	Effect	Effect	Effects					
Energy	0.0%	0.0%	0.0%	0.0%	6.3%	6.4%	5.6%	5.7%	
Materials	0.1%	0.0%	0.0%	0.1%	7.9%	6.7%	4.7%	3.4%	
Industrials	-0.1%	-0.2%	0.0%	0.1%	5.4%	6.5%	9.6%	10.9%	
Consumer Discretionary	-0.1%	-0.2%	0.0%	0.1%	8.3%	9.1%	13.4%	12.2%	
Consumer Staples	0.1%	0.0%	0.0%	0.0%	6.9%	6.4%	10.6%	7.4%	
Health Care	0.1%	-0.2%	0.2%	0.1%	0.7%	1.6%	9.9%	13.9%	
Financials	0.0%	0.0%	0.1%	0.0%	7.6%	7.7%	18.8%	15.1%	
Information Technology	-0.1%	-0.4%	-0.1%	0.4%	8.5%	8.5%	16.4%	22.4%	
Telecommunication Services	-0.3%	-0.1%	-0.1%	-0.1%	-1.3%	3.2%	4.5%	1.9%	
Utilities	0.1%	0.0%	0.1%	0.0%	0.4%	0.6%	2.1%	3.1%	
Real Estate	0.0%	0.0%	0.0%	0.0%	2.3%	2.6%	3.4%	4.0%	
Cash	-0.1%	0.0%	-0.1%	0.0%	0.3%	--	0.9%	0.0%	
Portfolio	-0.3%	=	-1.1%	+	0.1%	+	0.6%	6.0%	6.4%
					6.0%	6.4%	100.0%	100.0%	



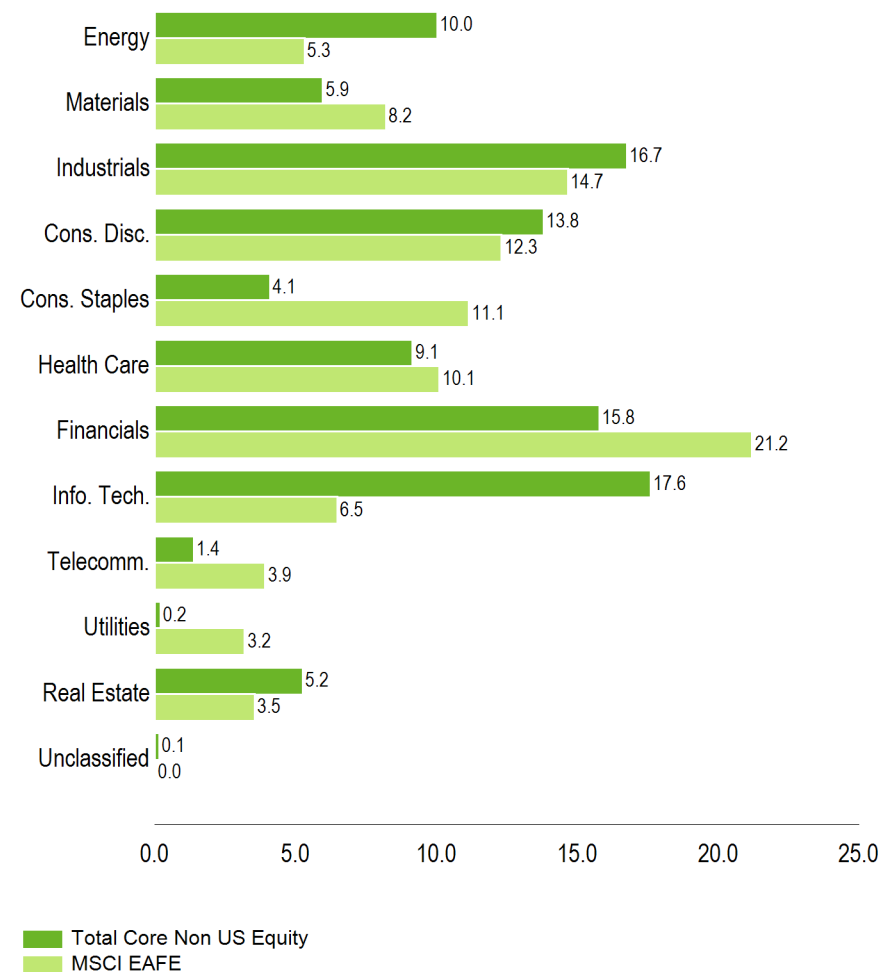
INT'L EQUITY COMPOSITE

Characteristics		
	Portfolio	MSCI EAFE
Number of Holdings	457	928
Weighted Avg. Market Cap. (\$B)	42.31	59.79
Median Market Cap. (\$B)	1.08	11.50
Price To Earnings	19.20	20.39
Price To Book	3.24	2.68
Price To Sales	2.04	2.11
Return on Equity (%)	21.16	13.77
Yield (%)	2.23	2.90
Beta	0.92	1.00
R-Squared	0.98	1.00

Market Capitalization
As of December 31, 2017



Sector Allocation (%) vs MSCI EAFE



INT'L EQUITY COMPOSITE

Top Ten Holdings	
ROYAL DUTCH SHELL A	3.4%
ALIBABA GROUP HLDG.SPN. ADR 1:1	2.6%
LONZA GROUP	2.1%
DEUTSCHE LUFTHANSA	2.0%
DAITO TST.CONSTRUCTION	2.0%
NORSK HYDRO	1.9%
TORONTO-DOMINION BANK	1.9%
ACS ACTIV.CONSTR.Y SERV.	1.9%
ROYAL BANK OF CANADA	1.8%
SWISS LIFE HOLDING	1.8%

Top Positive Contributors		
	Relative Contribution %	Return %
BANK RAKYAT INDONESIA	0.4%	18.3%
KONINKLIJKE AHOLD DELHAIZE	0.3%	17.7%
BANK MANDIRI	0.3%	18.1%
HONDA MOTOR	0.3%	16.5%
PEARSON	0.3%	21.3%
BANK NEGARA INDONESIA	0.2%	32.8%
SAMSUNG ELECTRONICS	0.2%	6.3%
UNITED OVERSEAS BANK	0.2%	14.4%
BANK CENTRAL ASIA	0.2%	7.5%
TOKIO MARINE HOLDINGS	0.2%	16.7%

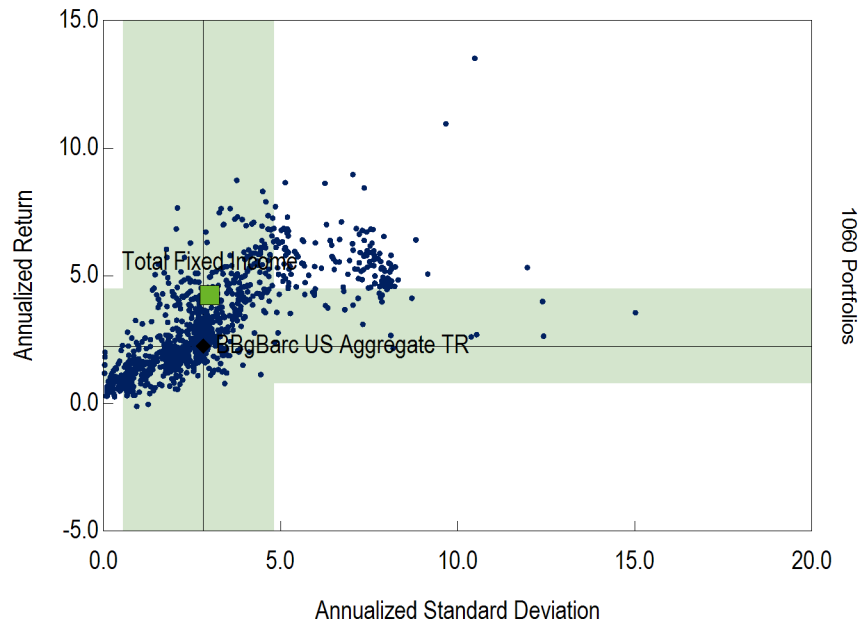
Top Negative Contributors		
	Relative Contribution %	Return %
TELEKOMUNIKASI INDONESIA	-0.2%	-5.8%
SANOFI	-0.2%	-13.1%
ROYAL DUTCH SHELL A(LON)	-0.1%	12.9%
AIA GROUP	-0.1%	15.6%
ROYAL DUTCH SHELL B	-0.1%	11.9%
BRITISH AMERICAN TOBACCO	-0.1%	9.2%
HSBC HDG. (ORD \$0.50)	-0.1%	6.0%
BP	-0.1%	12.0%
VODAFONE GROUP	-0.1%	15.6%
NOVO NORDISK 'B'	-0.1%	12.8%

Equity Sector Attribution											
	Attribution Effects				Returns		Sector Weights				
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark			
Energy	-0.1%	-0.2%	0.1%	0.0%	7.3%	10.3%	6.4%	5.1%			
Materials	-0.2%	-0.2%	-0.1%	0.1%	6.3%	8.3%	4.5%	7.8%			
Industrials	-0.2%	-0.3%	0.0%	0.1%	3.6%	4.8%	10.3%	14.5%			
Consumer Discretionary	0.6%	0.3%	0.0%	0.2%	8.3%	5.3%	16.6%	12.1%			
Consumer Staples	0.7%	0.8%	0.0%	0.0%	12.4%	5.0%	10.2%	11.2%			
Health Care	0.0%	-0.2%	0.1%	0.1%	-1.9%	-0.1%	7.5%	10.6%			
Financials	1.5%	1.5%	0.0%	0.0%	10.1%	3.1%	21.0%	21.4%			
Information Technology	0.2%	-0.1%	0.0%	0.3%	6.4%	5.0%	11.5%	6.3%			
Telecommunication Services	-0.5%	-0.2%	-0.1%	-0.2%	-4.0%	0.7%	7.9%	4.1%			
Utilities	0.1%	0.0%	0.1%	0.0%	0.6%	-1.0%	1.6%	3.3%			
Real Estate	-0.1%	-0.1%	0.0%	0.0%	4.0%	7.4%	2.4%	3.5%			
Cash	0.0%	--	--	--	--	--	0.0%	0.0%			
Portfolio	2.0%	=	1.3%	+	0.1%	+	0.6%	6.3%	4.3%	100.0%	100.0%



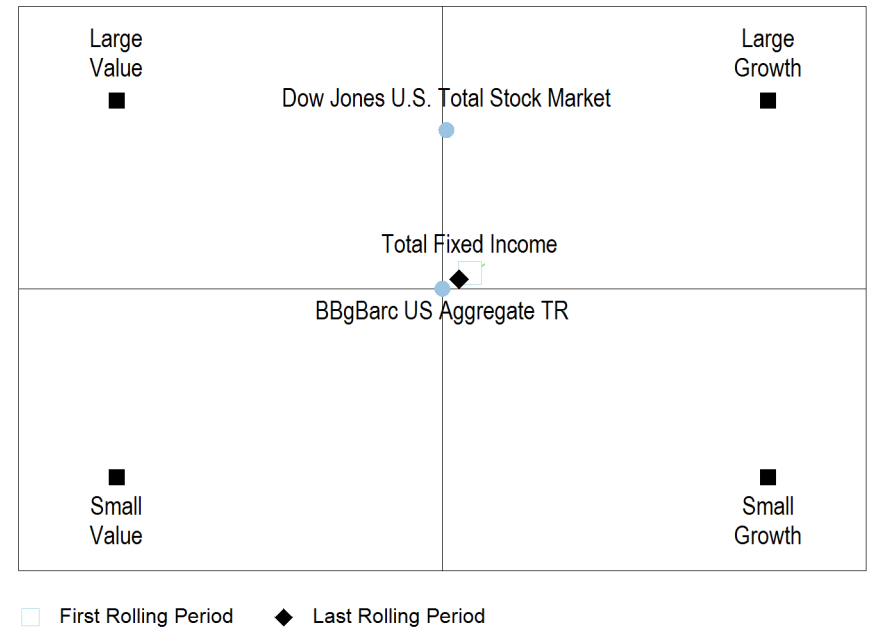
TOTAL FIXED INCOME COMPOSITE

Annualized Return vs. Annualized Standard Deviation
3 Years Ending December 31, 2017



- Total Fixed Income
- ◆ BBgBarc US Aggregate TR
- 68% Confidence Interval
- eV All US Fixed Inc Net

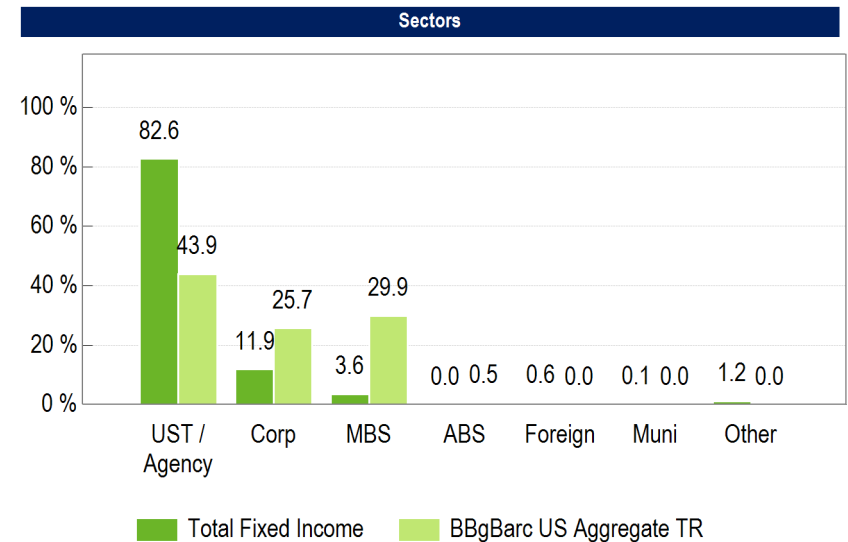
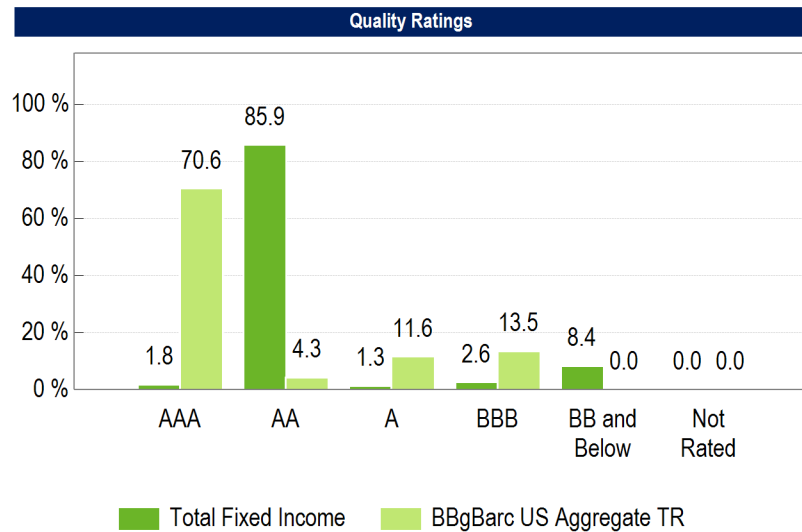
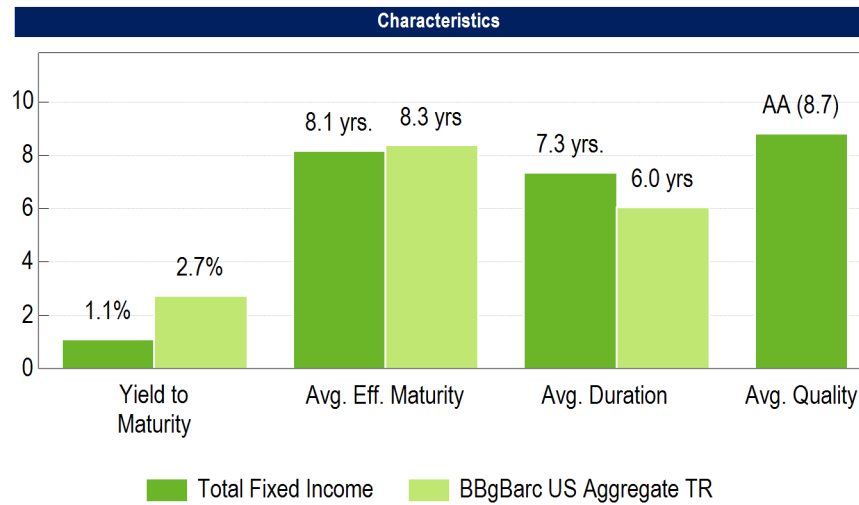
U.S. Effective Style Map
3 Years Ending December 31, 2017



- First Rolling Period
- ◆ Last Rolling Period



TOTAL FIXED INCOME COMPOSITE



PRIVATE EQUITY PERFORMANCE ANALYSIS (AS OF 9/30/2017)

State of Vermont Executive IRR Summary 9/30/2017

Investment Name	Commitment Year	Commitment Amount	QTD	YTD	1 Year	3 Year	5 Year	Inception
HarbourVest HIPEP VII	2014	15,000,000	5.28	18.47	21.72			13.94
HarbourVest HIPEP VIII	2017	60,000,000						
HarbourVest Partners Dover Street IX	2016	40,000,000	4.63	33.02				80.79
HarbourVest Partners Dover Street VIII	2012	25,000,000	4.78	15.21	16.65	16.29		22.53
HarbourVest Partners IX-Buyout	2012	24,000,000	4.75	15.48	22.54	18.07		16.49
HarbourVest Partners IX-Credit Opportunities	2012	4,000,000	6.84	15.26	17.55	13.21		14.89
HarbourVest Partners IX-Venture	2012	12,000,000	2.90	9.56	9.26	11.60		14.73
HarbourVest Partners X Buyout Fund	2015	45,500,000	9.86	34.26	44.49			40.05
HarbourVest Partners X Venture Fund	2015	19,500,000	8.74	28.09	42.80			32.27
Total: State of Vermont		245,000,000	5.23	17.76	23.58	18.06		19.95



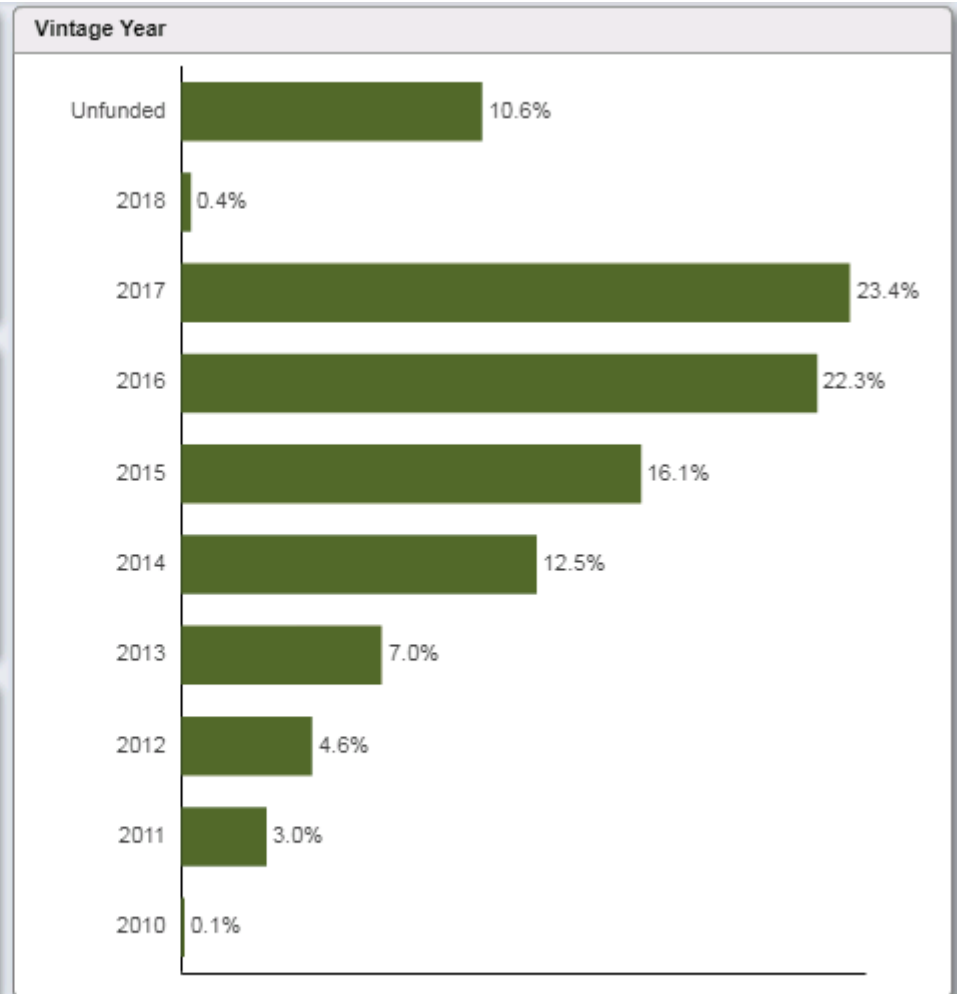
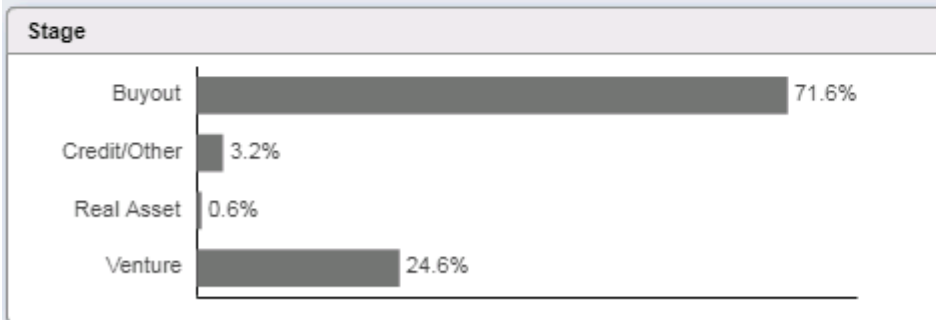
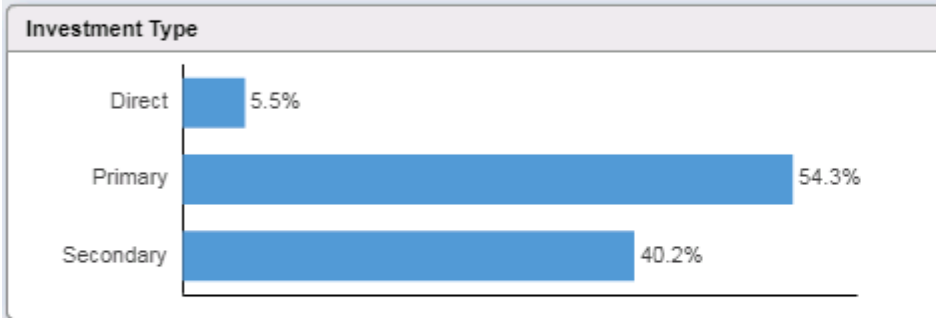
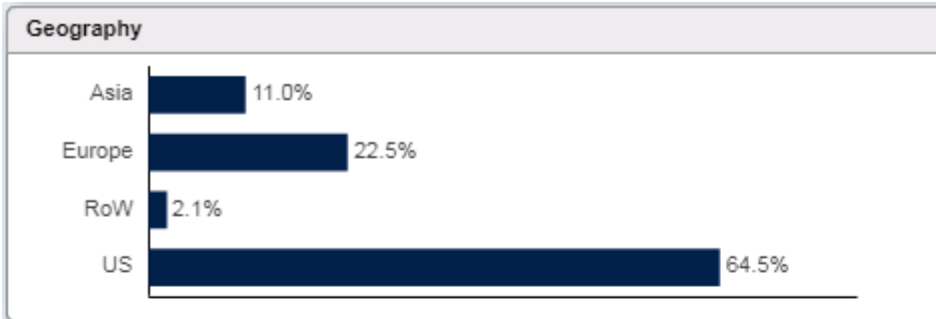
PRIVATE EQUITY PERFORMANCE ANALYSIS (AS OF 9/30/2017)

State of Vermont Performance Analysis 9/30/2017

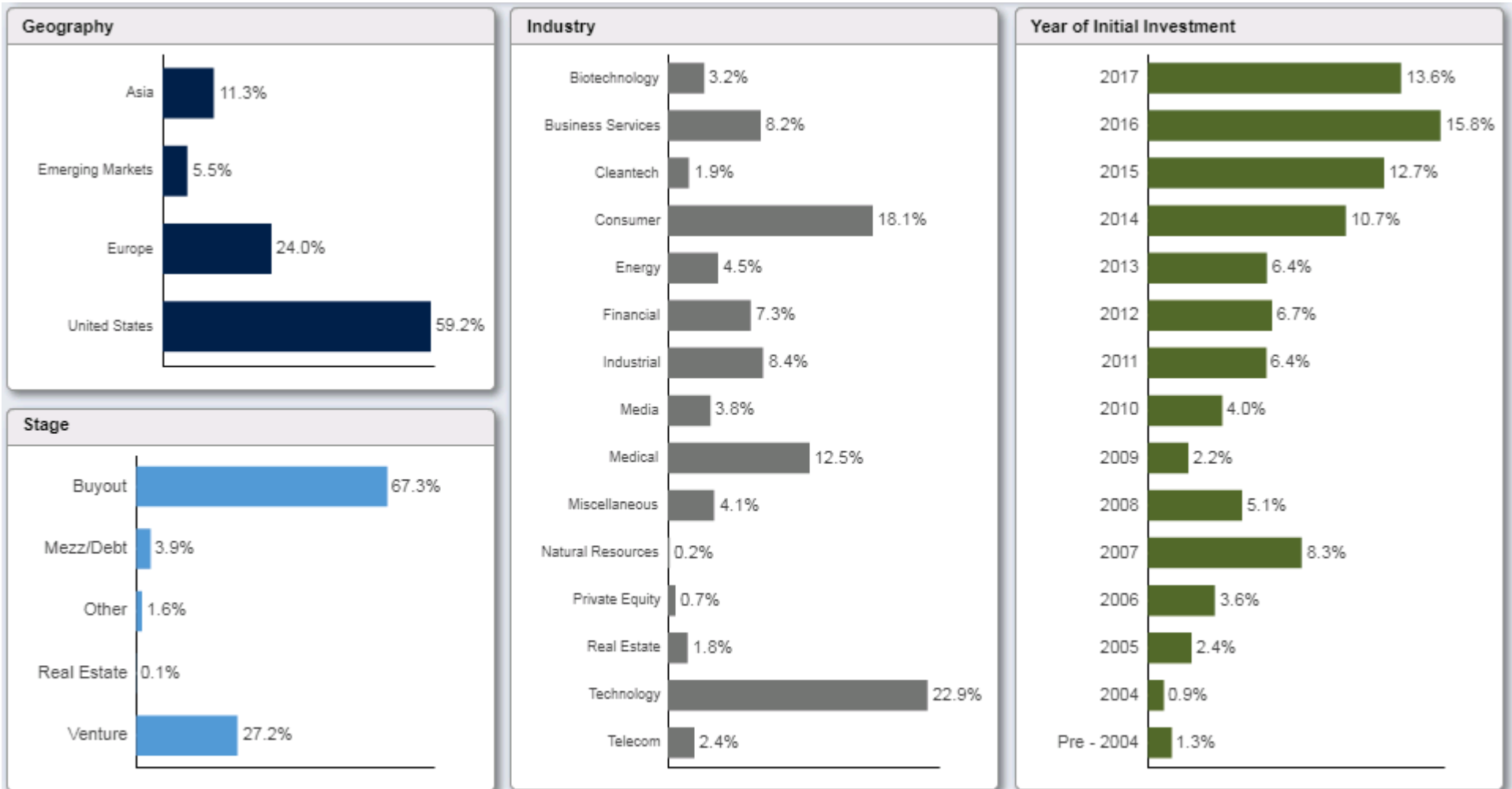
Investment	Commitment Year	Commitment Amount	Paid in Capital	Capital to be Funded	Additional Fees	Cumulative Distributions	Valuation	Total Value	Net Benefit	Call Ratio	DPI Ratio	TVPI Ratio	IRR
State of Vermont													
1 HarbourVest HIPEP VII	2014	15,000,000	5,512,500	9,487,500	0	289,115	6,326,988	6,616,103	1,103,603	37%	0.05	1.20	13.94%
2 HarbourVest HIPEP VIII	2017	60,000,000	0	60,000,000	0	0		0	0	0%	0.00	0.00	N/A
3 HarbourVest Partners Dover Street IX	2016	40,000,000	6,400,000	33,600,000	0	961,022	7,728,371	8,689,393	2,289,393	16%	0.15	1.36	80.79%
4 HarbourVest Partners Dover Street VIII	2012	25,000,000	21,625,000	3,375,000	0	14,949,894	17,078,845	32,028,739	10,403,739	87%	0.69	1.48	22.53%
5 HarbourVest Partners IX-Buyout	2012	24,000,000	15,180,000	8,820,000	47,188	6,683,524	15,537,584	22,221,108	6,993,920	63%	0.44	1.46	16.49%
6 HarbourVest Partners IX-Credit Opp	2012	4,000,000	2,500,000	1,500,000	10,265	1,118,825	2,310,429	3,429,254	918,989	63%	0.45	1.37	14.89%
7 HarbourVest Partners IX-Venture	2012	12,000,000	10,200,000	1,800,000	37,671	3,639,001	11,065,995	14,704,996	4,467,325	85%	0.36	1.44	14.73%
8 HarbourVest Partners X Buyout Fund	2015	45,500,000	5,005,000	40,495,000	2,787	395,805	6,784,023	7,179,828	2,172,041	11%	0.08	1.43	40.05%
9 HarbourVest Partners X Venture Fund	2015	19,500,000	3,363,750	16,136,250	1,672	146,250	4,159,086	4,305,336	939,914	17%	0.04	1.28	32.27%
Subtotal: State of Vermont		245,000,000	69,786,250	175,213,750	99,583	28,183,436	70,991,321	99,174,757	29,288,924	28%	0.40	1.42	19.95%
Total : State of Vermont		245,000,000	69,786,250	175,213,750	99,583	28,183,436	70,991,321	99,174,757	29,288,924	28%	0.40	1.42	19.95%



PRIVATE EQUITY INVESTMENT DIVERSIFICATION AS OF 12/31/2017



PRIVATE EQUITY COMPANY DIVERSIFICATION AS OF 12/31/2017



APPENDIX

NEPC, LLC

TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	7 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Fund Composite	4,340,099,607	100.0	100.0	3.4	64	6.5	79	13.9	81	6.8	78	6.5	93	6.7	89	4.7	81
<i>Policy Index</i>				3.1	90	6.5	80	13.3	87	6.6	88	6.5	90	6.3	92	4.7	82
<i>Allocation Index</i>				3.6	48	7.0	61	14.3	72	6.9	73	6.8	85	6.4	91	5.0	72
<i>InvestorForce Public DB > \$1B Net Median</i>				3.5		7.4		15.6		7.5		8.7		8.0		5.4	
Total Marketable Assets	3,683,805,824	84.9	84.0	3.6	44	6.9	51	15.5	34	7.0	51	6.4	96	--	--	--	--
<i>Total Marketable Assets Custom Index</i>				3.4	61	7.0	48	14.5	55	6.6	71	6.6	92	--	--	--	--
<i>InvestorForce Public DB Net Median</i>				3.5		6.9		14.7		7.1		8.4		7.6		5.6	
Total Domestic Equity	1,088,217,258	25.1	24.0	6.1	42	9.9	57	18.5	51	10.9	34	--	--	--	--	--	--
<i>Russell 3000</i>				6.3	36	11.2	40	21.1	38	11.1	30	15.6	30	13.5	26	8.6	49
<i>eV All US Equity Net Median</i>				5.6		10.4		18.7		9.8		14.5		12.4		8.5	
SSgA S&P 500 Cap-Wgt	768,656,960	17.7	14.0	6.6	47	11.4	49	21.8	45	11.4	24	15.8	31	13.8	24	--	--
<i>S&P 500</i>				6.6	47	11.4	49	21.8	45	11.4	25	15.8	31	13.8	25	8.5	42
SSgA S&P 500 Equal-Wgt	185,943,217	4.3	4.5	6.3	54	10.2	69	18.9	65	10.1	49	15.7	32	13.5	30	9.9	12
<i>S&P 500 Equal Weighted</i>				6.2	57	10.0	71	18.9	66	10.1	49	15.8	31	13.6	28	10.2	11
Champlain	133,538,333	3.1	2.8	4.0	88	6.1	92	17.3	58	12.5	12	16.4	14	13.7	19	--	--
<i>Custom SMID Cap Equity Index</i>				4.3	85	9.2	61	15.8	65	9.7	46	14.1	56	12.1	51	9.1	44
<i>eV US Mid Cap Equity Net Median</i>				5.7		9.8		19.6		9.5		14.4		12.1		8.9	
Wellington	74,979	0.0	2.8														

Fiscal Year End is 6/30.

Total Marketable Assets Custom Index mirrors the Plan Policy Index, while excluding Absolute Return, Real Estate, Private Debt and Private Equity.

Custom SMID Cap Equity Index is 50% Russell 2500 and 50% Russell 2000 starting 10/1/2017, and 100% Russell 2500 prior, corresponding to the change in strategy.



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	7 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Non US Equity	1,161,502,424	26.8	20.0	4.8	37	10.6	48	29.4	33	9.4	40	7.3	82	5.8	85	1.5	94
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	6.0	77	1.9	86
MSCI ACWI ex USA				5.0	31	11.5	41	27.2	46	7.8	69	6.8	91	4.9	96	1.8	88
eV All EAFE Equity Net Median				4.2		10.4		26.6		8.9		9.0		7.4		3.4	
Acadian	159,328,476	3.7	4.0	5.0	31	12.3	32	36.8	10	14.7	11	13.1	13	9.3	20	3.2	53
Mondrian	154,597,274	3.6	4.0	2.9	83	8.9	75	22.1	83	7.3	81	8.4	63	6.6	65	2.3	74
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	6.0	77	1.9	86
S&P EPAC LargeMidCap				4.8	37	10.2	55	26.5	51	8.6	55	8.4	63	6.6	66	2.6	69
SSgA ACWI Ex US	522,575,020	12.0	6.0	5.0	43	11.6	54	27.5	68	8.1	72	7.0	83	5.1	82	--	--
MSCI ACWI ex USA				5.0	43	11.5	54	27.2	69	7.8	73	6.8	84	4.9	84	1.8	82
eV ACWI ex-US All Cap Equity Net Median				4.9		11.9		29.6		9.3		9.1		7.1		3.4	
Aberdeen	325,001,653	7.5	6.0	5.2	84	9.6	93	30.2	81	8.1	69	3.0	89	3.7	43	--	--
MSCI Emerging Markets				7.4	30	15.9	39	37.3	48	9.1	52	4.3	74	2.6	72	1.7	75
eV Emg Mkts Equity Net Median				6.7		14.9		37.1		9.1		5.4		3.5		2.7	
Total Fixed Income	1,241,923,230	28.6	36.0	0.7	33	2.0	33	5.8	30	4.2	29	--	--	--	--	--	--
BBgBarc US Aggregate TR				0.4	52	1.2	57	3.5	57	2.2	59	2.1	57	3.2	59	4.0	56
eV All US Fixed Inc Net Median				0.4		1.4		3.9		2.6		2.4		3.7		4.2	
SSgA Barclays Aggregate Index	41,041,480	0.9	6.0	0.3	76	1.2	61	3.5	70	--	--	--	--	--	--	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	3.2	72	4.0	77
3-Month Libor Total Return USD				0.4	66	0.7	92	1.3	99	0.8	99	0.6	99	0.5	99	0.8	99
eV US Core Fixed Inc Net Median				0.4		1.3		3.8		2.4		2.3		3.5		4.4	
PIMCO Core Plus	291,397,835	6.7	6.0	0.4	70	1.5	28	4.8	9	2.7	32	2.1	63	3.5	50	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	3.2	72	4.0	77
BlackRock TIPS	247,314,498	5.7	6.0	1.2	68	2.0	80	2.9	68	2.0	40	0.1	51	2.8	36	--	--
BBgBarc US TIPS TR				1.3	64	2.1	68	3.0	57	2.0	36	0.1	38	2.9	31	3.5	57
eV US TIPS / Inflation Fixed Inc Net Median				1.3		2.2		3.1		1.9		0.1		2.7		3.6	



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	7 Yrs (%)	Rank	10 Yrs (%)	Rank
KDP	43,685,401	1.0	1.0	0.1	88	1.1	98	4.6	91	3.8	96	3.6	96	5.1	93	--	--
Guggenheim	149,152,213	3.4	4.0	0.9	26	2.6	38	6.4	66	6.4	24	--	--	--	--	--	--
<i>BBgBarc US High Yield TR</i>				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	7.0	27	8.0	15
<i>BofA Merrill Lynch US High Yield BB-B Rated</i>				0.4	69	2.3	53	7.0	53	6.0	34	5.6	35	6.8	33	7.3	47
<i>eV US High Yield Fixed Inc Net Median</i>				0.5		2.4		7.1		5.6		5.2		6.5		7.2	
Wellington Opportunistic EMD	217,431,079	5.0	5.0	0.8	57	3.5	77	10.6	74	7.3	20	4.5	16	6.8	12	--	--
<i>JP Morgan EMBI Global Index</i>				0.5	70	2.9	92	9.3	86	6.8	32	3.8	32	6.4	21	7.1	34
<i>eV All Emg Mkts Fixed Inc Net Median</i>				0.9		4.2		12.5		5.7		2.6		4.6		6.3	
State Street Long U.S. Treasury Index	83,346,174	1.9	2.0	2.4	--	2.9	--	--	--	--	--	--	--	--	--	--	--
<i>BBgBarc US Treasury Long TR</i>				2.4	--	3.0	--	8.5	--	2.8	--	3.5	--	6.9	--	6.6	--
PIMCO Unconstrained	84,249,703	1.9	2.5	0.3	80	1.6	73	4.7	84	2.5	72	1.6	82	--	--	--	--
<i>25% HY, 25% EMD, 50% BC Agg</i>				0.4	72	2.0	70	6.0	64	4.4	24	3.5	33	5.0	27	5.9	15
<i>3-Month Libor Total Return USD</i>				0.4	74	0.7	90	1.3	98	0.8	99	0.6	93	0.5	99	0.8	99
GAM Unconstrained Bond	84,304,847	1.9	3.5	-0.6	93	0.8	89	5.9	65	--	--	--	--	--	--	--	--
<i>3-Month LIBOR + 3%</i>				1.1	25	2.2	61	4.4	86	3.8	30	3.6	32	3.5	38	3.8	61
<i>eV Global Unconstrained Fixed Inc Net Median</i>				0.9		2.5		6.7		2.9		2.4		3.2		4.7	



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	7 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Risk Parity/GAA	184,643,719	4.3	4.0	4.7	17	9.3	18	15.2	44	4.9	50	4.3	61	5.1	56	4.7	55
60% MSCI World (Net) / 40% CITI WGBI				3.7	43	7.5	42	16.2	37	6.4	19	7.0	30	6.3	33	4.4	58
eV Global TAA Net Median				3.4		6.7		13.7		4.9		4.9		5.6		4.8	
Mellon Dynamic Growth	117,672	0.0	0.0														
Total Risk Parity	184,526,047	4.3	4.0	4.7	16	9.3	18	15.7	41	5.0	49	4.0	62	6.0	42	--	--
60% MSCI World (Net) / 40% CITI WGBI				3.7	43	7.5	42	16.2	37	6.4	19	7.0	30	6.3	33	4.4	58
eV Global TAA Net Median				3.4		6.7		13.7		4.9		4.9		5.6		4.8	
AQR Global Risk Premium	184,526,047	4.3	4.0	4.7	16	9.3	18	15.7	41	5.0	49	4.0	62	6.0	42	--	--
60% MSCI World (Net) / 40% CITI WGBI				3.7	43	7.5	42	16.2	37	6.4	19	7.0	30	6.3	33	4.4	58
HFR Risk Parity Vol 10 Index				4.7	17	8.0	33	13.5	54	5.8	29	5.0	49	6.7	25	6.1	16
Total Cash	7,519,192	0.2	0.0	0.0	--	0.0	--	0.0	--	0.0	--	0.0	--	0.0	--	0.3	--
91 Day T-Bills				0.3	--	0.6	--	0.9	--	0.4	--	0.3	--	0.2	--	0.3	--
Total Real Estate	255,067,854	5.9	6.5	1.8	--	3.4	--	5.8	--	9.0	--	10.8	--	--	--	--	--
NCREIF Property Index				1.8	--	3.5	--	7.0	--	9.4	--	10.2	--	10.8	--	6.1	--
Total Real Estate Core	210,022,907	4.8	5.0	2.2	--	3.4	--	5.4	--	8.7	--	10.7	--	--	--	--	--
UBS Trumbull	209,264,511	4.8	5.0	2.2	--	3.5	--	5.4	--	8.0	--	8.7	--	9.3	--	4.5	--
RREEF America REIT III	498,531	0.0	0.0	0.0	--	-0.8	--	-4.8	--	-5.1	--	4.4	--	13.0	--	-6.4	--
Transwestern Aslan III	259,866	0.0	0.0	0.0	--	0.0	--	0.0	--	1.8	--	9.7	--	6.5	--	-22.1	--
Total Real Estate Non-Core	45,044,947	1.0	1.5	0.0	--	3.1	--	7.8	--	10.0	--	--	--	--	--	--	--
Siguler Guff DREOF II	33,321,063	0.8	1.0	0.0	--	3.8	--	8.1	--	10.3	--	--	--	--	--	--	--
Siguler Guff DREOF II Co-Investment	11,723,884	0.3	0.5	0.0	--	0.9	--	6.8	--	--	--	--	--	--	--	--	--
NCREIF Property Index				1.8	--	3.5	--	7.0	--	9.4	--	10.2	--	10.8	--	6.1	--
NCREIF ODCE				2.1	--	4.0	--	7.6	--	10.4	--	11.5	--	12.1	--	5.0	--



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	7 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Absolute Return	299,244,598	6.9	8.0	2.1	34	4.2	47	4.0	79	1.7	75	4.2	68	3.7	60	--	--
<i>HFRI Fund of Funds Composite Index</i>				2.0	38	4.3	43	7.7	45	2.6	59	4.0	69	2.7	80	1.1	90
<i>eV Alt Fund of Funds - Multi-Strategy Median</i>				1.7		3.9		7.2		3.0		5.1		4.3		3.0	
Grosvenor	122,558,036	2.8	3.0	2.4	31	4.1	47	6.5	57	3.0	53	5.4	45	4.5	47	--	--
<i>HFRI Fund of Funds Composite Index</i>				2.0	38	4.3	43	7.7	45	2.6	59	4.0	69	2.7	80	1.1	90
Allianz Structured Alpha	75,644,516	1.7	2.0	1.5	--	2.8	--	5.2	--	6.7	--	6.4	--	7.2	--	--	--
<i>91 Day T-Bills</i>				0.3	--	0.6	--	0.9	--	0.4	--	0.3	--	0.2	--	0.3	--
Pinnacle Natural Resources, L.P.	100,593,712	2.3	3.0	2.3	--	5.2	--	-6.3	--	--	--	--	--	--	--	--	--
<i>Bloomberg Commodity Index</i>				4.7	--	7.3	--	1.7	--	-5.0	--	-8.5	--	-8.1	--	-6.8	--
GAM	448,334	0.0	0.0														
Total Private Debt	27,809,518	0.6	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>S&P/LSTA Leveraged Loan TR</i>				1.1	--	2.2	--	4.1	--	4.4	--	4.0	--	4.5	--	4.9	--
Total Private Equity	74,171,812	1.7	1.5	1.9	--	7.4	--	14.4	--	13.9	--	15.0	--	--	--	--	--
<i>Cambridge Associates US All PE</i>				0.0	--	3.9	--	11.8	--	10.1	--	12.5	--	12.5	--	9.2	--

Absolute Return composite formerly shown as Hedge Funds composite. As of 04/01/2016, Absolute Return includes Allianz Structured Alpha.

Allianz Structured Alpha was included Diversified Fixed income composite prior to 04/01/2016.

Real Estate performance reported on a quarterly basis. NCREIF Property is available 25 days after quarter end.

Real Estate values are preliminary as of 09/30/2017.

Harbourvest is based on final Capital Account Statements for Q2, and cash adjusted through Q3.



Vermont State Employees

TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Employees Composite	1,835,452,087	100.0	100.0	3.4	60	6.6	70	13.9	70	6.8	64	6.5	95	4.8	81
<i>Policy Index</i>				3.1	80	6.5	72	13.3	82	6.6	72	6.5	94	4.7	83
<i>Allocation Index</i>				3.6	44	7.2	40	14.5	55	6.8	66	6.7	90	4.8	80
<i>InvestorForce Public DB Net Median</i>				3.5		6.9		14.7		7.1		8.4		5.6	
Total Marketable Assets	1,564,709,235	85.2	84.0	3.6	41	7.0	48	15.5	32	7.0	51	6.4	95	--	--
<i>Total Marketable Assets Custom Index</i>				3.4	61	7.0	48	14.5	55	6.6	71	6.6	92	--	--
<i>InvestorForce Public DB Net Median</i>				3.5		6.9		14.7		7.1		8.4		5.6	
Total Domestic Equity	465,630,510	25.4	24.0	6.0	42	9.9	57	18.4	52	10.8	36	--	--	--	--
<i>Russell 3000</i>				6.3	36	11.2	40	21.1	38	11.1	30	15.6	30	8.6	49
<i>eV All US Equity Net Median</i>				5.6		10.4		18.7		9.8		14.5		8.5	
Total Large Cap Equities	409,718,780	22.3	18.5	6.5	51	11.1	55	21.0	51	11.1	29	15.8	31	9.1	24
<i>S&P 500</i>				6.6	47	11.4	49	21.8	45	11.4	25	15.8	31	8.5	42
<i>eV US Large Cap Equity Net Median</i>				6.5		11.3		21.1		10.0		14.8		8.3	
<i>SSgA S&P 500 Cap-Wgt</i>	329,116,345	17.9	14.0	6.6	47	11.4	49	21.8	45	11.4	24	15.8	31	--	--
<i>S&P 500</i>				6.6	47	11.4	49	21.8	45	11.4	25	15.8	31	8.5	42
<i>SSgA S&P 500 Equal-Wgt</i>	80,600,698	4.4	4.5	6.3	54	10.2	69	18.9	65	10.0	51	15.7	33	9.9	12
<i>S&P 500 Equal Weighted</i>				6.2	57	10.0	71	18.9	66	10.1	49	15.8	31	10.2	11
<i>T. Rowe</i>	1,737	0.0	0.0												
Total Small/Mid Cap Equities	55,911,730	3.0	5.5	3.5	83	4.8	91	9.2	91	9.4	46	14.2	39	9.4	41
<i>Russell 2000</i>				3.3	85	9.2	56	14.6	65	10.0	40	14.1	43	8.7	59
<i>eV US Small-Mid Cap Equity Net Median</i>				5.5		9.6		17.1		9.3		13.7		9.1	
<i>Champlain</i>	55,878,531	3.0	2.8	4.0	88	6.1	92	17.4	58	12.4	12	16.3	14	--	--
<i>Custom SMID Cap Equity Index</i>				4.3	85	9.2	61	15.8	65	9.7	46	14.1	56	9.1	44
<i>eV US Mid Cap Equity Net Median</i>				5.7		9.8		19.6		9.5		14.4		8.9	
<i>Wellington</i>	33,199	0.0	2.8												

Fiscal Year Ends 6/30

Total Marketable Assets Custom Index mirrors the Plan Policy Index, while excluding Absolute Return, Real Estate, Private Debt, and Private Equity.

Custom SMID Cap Equity Index is 50% Russell 2500 and 50% Russell 2000 starting 10/1/2017, and 100% Russell 2500 prior, corresponding to the change in strategy.



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Non US Equity	496,411,156	27.0	20.0	4.8	58	10.7	68	29.4	55	9.4	47	7.4	78	--	--
MSCI EAFE				4.2	66	9.9	79	25.0	84	7.8	74	7.9	66	1.9	82
MSCI ACWI ex USA				5.0	48	11.5	56	27.2	72	7.8	74	6.8	84	1.8	84
eV All ACWI ex-US Equity Net Median				4.9		12.0		29.9		9.3		8.6		3.5	
Total Core Non US Equity	357,948,565	19.5	14.0	4.6	38	11.2	42	29.1	34	10.3	34	10.0	35	2.5	71
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	1.9	86
eV All EAFE Equity Net Median				4.2		10.4		26.6		8.9		9.0		3.4	
Acadian	67,108,424	3.7	4.0	5.0	31	12.3	33	36.8	10	14.7	12	13.1	14	3.1	53
Mondrian	66,767,273	3.6	4.0	2.9	83	8.9	75	22.1	83	7.2	82	8.3	64	2.3	74
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	1.9	86
SSgA ACWI Ex US	224,072,868	12.2	6.0	5.0	43	11.6	54	27.5	68	8.0	72	7.0	83	--	--
MSCI ACWI ex USA				5.0	43	11.5	54	27.2	69	7.8	73	6.8	84	1.8	82
eV ACWI ex-US All Cap Equity Net Median				4.9		11.9		29.6		9.3		9.1		3.4	
Total Emerging Market Equity	138,462,591	7.5	6.0	5.2	84	9.6	93	30.2	81	8.1	69	3.0	88	--	--
Aberdeen	138,462,591	7.5	6.0	5.2	84	9.6	93	30.2	81	8.1	69	3.0	89	--	--
MSCI Emerging Markets				7.4	30	15.9	39	37.3	48	9.1	52	4.3	74	1.7	75
eV Emg Mkts Equity Net Median				6.7		14.9		37.1		9.1		5.4		2.7	
Total Fixed Income	521,808,285	28.4	36.0	0.7	34	2.1	33	5.9	30	4.2	29	--	--	--	--
BBgBarc US Aggregate TR				0.4	52	1.2	57	3.5	57	2.2	59	2.1	57	4.0	56
eV All US Fixed Inc Net Median				0.4		1.4		3.9		2.6		2.4		4.2	
Total Diversified Fixed Income	140,368,363	7.6	12.0	0.4	54	1.4	52	4.5	42	3.3	39	3.2	38	4.1	52
BBgBarc US Aggregate TR				0.4	52	1.2	57	3.5	57	2.2	59	2.1	57	4.0	56
eV All US Fixed Inc Net Median				0.4		1.4		3.9		2.6		2.4		4.2	
PIMCO Core Plus	122,473,147	6.7	6.0	0.3	70	1.5	29	4.8	9	2.6	37	2.0	65	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	4.0	77
SSgA Barclays Aggregate Index	17,895,216	1.0	6.0	0.3	76	1.2	60	3.5	70	--	--	--	--	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	4.0	77
3-Month Libor Total Return USD				0.4	66	0.7	92	1.3	99	0.8	99	0.6	99	0.8	99
eV US Core Fixed Inc Net Median				0.4		1.3		3.8		2.4		2.3		4.4	



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total TIPS	95,594,232	5.2	6.0	1.2	69	2.0	82	2.9	68	2.0	40	0.1	51	--	--
BlackRock TIPS	95,594,232	5.2	6.0	1.2	--	2.0	--	2.9	--	2.0	--	0.0	--	--	--
BBgBarc US TIPS TR				1.3	--	2.1	--	3.0	--	2.0	--	0.1	--	3.5	--
Total High Yield Bonds	87,016,683	4.7	5.0	0.7	33	2.4	49	6.1	75	5.9	40	5.5	40	7.3	48
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
eV US High Yield Fixed Inc Net Median				0.5		2.4		7.1		5.6		5.2		7.2	
KDP	17,728,086	1.0	1.0	0.1	89	1.5	89	4.9	89	3.9	95	3.7	96	--	--
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
BofA Merrill Lynch US High Yield BB-B Rated				0.4	69	2.3	53	7.0	53	6.0	34	5.6	35	7.3	47
Guggenheim	69,288,597	3.8	4.0	0.9	26	2.6	38	6.4	66	6.3	26	--	--	--	--
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
eV US High Yield Fixed Inc Net Median				0.5		2.4		7.1		5.6		5.2		7.2	
Total Emerging Market Debt	92,639,028	5.0	5.0	0.8	57	3.5	77	10.6	74	7.3	20	4.5	16	--	--
Wellington Opportunistic EMD	92,639,028	5.0	5.0	0.8	57	3.5	77	10.6	74	7.3	20	4.5	16	--	--
JP Morgan EMBI Global Index				0.5	70	2.9	92	9.3	86	6.8	32	3.8	32	7.1	34
eV All Emg Mkts Fixed Inc Net Median				0.9		4.2		12.5		5.7		2.6		6.3	
Total Long Treasury	35,249,873	1.9	2.0	2.4	--	2.9	--	--	--	--	--	--	--	--	--
State Street Long U.S. Treasury Index	35,249,873	1.9	2.0	2.4	--	2.9	--	--	--	--	--	--	--	--	--
BBgBarc US Treasury Long TR				2.4	--	3.0	--	8.5	--	2.8	--	3.5	--	6.6	--



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Unconstrained Fixed Income	70,940,105	3.9	6.0	-0.2	87	1.2	83	5.5	71	--	--	--	--	--	--
25% HY, 25% EMD, 50% BC Agg				0.4	72	2.0	70	6.0	64	4.4	24	3.5	33	5.9	15
BBgBarc Global Aggregate TR				1.1	30	2.9	41	7.4	41	2.0	88	0.8	93	3.1	84
eV Global Unconstrained Fixed Inc Net Median				0.9		2.5		6.7		2.9		2.4		4.7	
PIMCO Unconstrained	35,370,300	1.9	2.5	0.3	80	1.6	73	4.7	84	2.4	78	1.5	84	--	--
25% HY, 25% EMD, 50% BC Agg				0.4	72	2.0	70	6.0	64	4.4	24	3.5	33	5.9	15
3-Month Libor Total Return USD				0.4	74	0.7	90	1.3	98	0.8	99	0.6	93	0.8	99
GAM Unconstrained Bond	35,569,805	1.9	3.5	-0.6	93	0.8	88	6.0	64	--	--	--	--	--	--
3-Month LIBOR + 3%				1.1	25	2.2	61	4.4	86	3.8	30	3.6	32	3.8	61
eV Global Unconstrained Fixed Inc Net Median				0.9		2.5		6.7		2.9		2.4		4.7	
Total Risk Parity/GAA	77,790,664	4.2	4.0	4.7	17	9.3	18	15.1	44	4.9	50	4.4	61	4.7	55
Mellon Dynamic Growth	50,035	0.0	0.0												
Total Risk Parity	77,740,628	4.2	4.0	4.7	16	9.3	18	15.6	41	5.0	49	4.1	62	--	--
eV Global TAA Net Median				3.4		6.7		13.7		4.9		4.9		4.8	
AQR Global Risk Premium	77,740,628	4.2	4.0	4.7	16	9.3	18	15.6	41	5.0	49	4.0	62	--	--
60% MSCI World (Net) / 40% CITI WGBI				3.7	43	7.5	42	16.2	37	6.4	19	7.0	30	4.4	58
Total Cash	3,068,620	0.2	0.0												
Vermont Cash	3,068,620	0.2													
Total Real Estate	100,624,086	5.5	6.5	1.8	--	3.4	--	5.8	--	9.2	--	10.9	--	--	--
NCREIF Property Index				1.8	--	3.5	--	7.0	--	9.4	--	10.2	--	6.1	--



TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Real Estate Core	82,981,397	4.5	5.0	2.2	--	3.4	--	5.4	--	9.0	--	10.9	--	--	--
UBS Trumbull	82,663,439	4.5		2.2	--	3.5	--	5.4	--	8.0	--	8.7	--	4.5	--
RREEF America REIT III	215,305	0.0		0.0	--	-0.8	--	-4.8	--	-4.6	--	4.8	--	-6.2	--
Transwestern / Aslan III	102,653	0.0		0.0	--	0.0	--	0.0	--	2.1	--	11.7	--	-21.4	--
Total Real Estate Non-Core	17,642,689	1.0	1.5	0.0	--	3.1	--	7.7	--	9.9	--	--	--	--	--
Siguler Guff DREOF II	12,647,592	0.7		0.0	--	3.8	--	8.1	--	10.1	--	--	--	--	--
Siguler Guff DREOF II Co-Investment	4,995,097	0.3		0.0	--	0.9	--	6.8	--	--	--	--	--	--	--
Total Absolute Return	127,154,974	6.9	8.0	2.1	34	4.2	47	3.9	80	1.7	75	4.2	68	--	--
<i>HFRI Fund of Funds Composite Index</i>				2.0	38	4.3	43	7.7	45	2.6	59	4.0	69	1.1	90
<i>eV Alt Fund of Funds - Multi-Strategy Median</i>				1.7		3.9		7.2		3.0		5.1		3.0	
Grosvenor	51,302,936	2.8	3.0	2.4	31	4.1	47	6.5	57	3.0	53	5.4	45	--	--
Allianz Structured Alpha	32,397,913	1.8	2.0	1.5	58	2.8	76	5.2	67	6.7	14	6.4	31	--	--
<i>91 Day T-Bills</i>				0.3	92	0.6	95	0.9	97	0.4	89	0.3	99	0.3	96
<i>eV Alt Fund of Funds - Multi-Strategy Median</i>				1.7		3.9		7.2		3.0		5.1		3.0	
Pinnacle Natural Resources, L.P.	43,267,460	2.4	3.0	2.3	--	5.2	--	-6.3	--	--	--	--	--	--	--
<i>Bloomberg Commodity Index</i>				4.7	--	7.3	--	1.7	--	-5.0	--	-8.5	--	-6.8	--
GAM	186,666	0.0	0.0												
Total Private Debt	11,750,462	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>S&P/LSTA Leveraged Loan TR</i>				1.1	--	2.2	--	4.1	--	4.4	--	4.0	--	4.9	--
Benefit Street Partners	11,750,462	0.6	0.0	--	--	--	--	--	--	--	--	--	--	--	--
Total Private Equity	31,213,330	1.7	1.5	1.9	--	7.4	--	14.5	--	13.4	--	15.4	--	--	--
<i>Cambridge Associates US All PE</i>				0.0	--	3.8	--	11.7	--	10.1	--	12.5	--	9.2	--

Real Estate performance reported on a quarterly basis. NCREIF Property is available 25 days after quarter end.

Real Estate values are preliminary as of 09/30/2017.

Absolute Return composite formerly shown as Hedge Funds composite. As of 04/01/2016, Absolute Return includes Allianz Structured Alpha.

Allianz Structured Alpha was included Diversified Fixed income composite prior to 04/01/2016.

Harbourvest values based on final Capital Account Statements for Q2, and cash adjusted through Q3.



Vermont Municipal Employees

TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Municipal Composite	653,004,396	100.0	100.0	3.4	57	6.6	64	14.1	64	6.8	64	6.6	93	4.9	78
<i>Policy Index</i>				3.1	79	6.5	72	13.3	82	6.6	72	6.5	94	4.8	82
<i>Allocation Index</i>				3.6	44	7.2	41	14.6	54	6.8	60	6.8	89	5.0	75
<i>InvestorForce Public DB Net Median</i>				3.5		6.9		14.7		7.1		8.4		5.6	
Total Marketable Assets	565,339,759	86.6	84.0	3.7	38	7.1	45	15.6	30	7.1	45	6.5	93	--	--
<i>Total Marketable Assets Custom Index</i>				3.4	61	7.0	48	14.5	55	6.6	71	6.6	92	--	--
<i>InvestorForce Public DB Net Median</i>				3.5		6.9		14.7		7.1		8.4		5.6	
Total Domestic Equity	176,036,280	27.0	24.0	6.1	42	10.0	56	18.7	51	10.9	34	--	--	--	--
<i>Russell 3000</i>				6.3	36	11.2	40	21.1	38	11.1	30	15.6	30	8.6	49
<i>eV All US Equity Net Median</i>				5.6		10.4		18.7		9.8		14.5		8.5	
Total Large Cap Equities	154,525,787	23.7	18.5	6.5	51	11.1	54	21.1	50	11.1	29	15.8	31	9.1	24
<i>S&P 500</i>				6.6	47	11.4	49	21.8	45	11.4	25	15.8	31	8.5	42
<i>eV US Large Cap Equity Net Median</i>				6.5		11.3		21.1		10.0		14.8		8.3	
<i>SSgA S&P 500 Cap-Wgt</i>	123,116,642	18.9	14.0	6.6	47	11.4	49	21.8	45	11.4	24	15.8	31	--	--
<i>S&P 500</i>				6.6	47	11.4	49	21.8	45	11.4	25	15.8	31	8.5	42
<i>SSgA S&P 500 Equal-Wgt</i>	31,408,504	4.8	4.5	6.3	54	10.2	69	18.9	65	10.0	51	15.7	33	9.9	12
<i>S&P 500 Equal Weighted</i>				6.2	57	10.0	71	18.9	66	10.1	49	15.8	31	10.2	11
<i>T. Rowe</i>	642	0.0	0.0												
Total Small/Mid Cap Equities	21,510,493	3.3	5.5	3.6	82	4.9	91	9.7	90	9.6	45	14.3	38	9.5	40
<i>Russell 2000</i>				3.3	85	9.2	56	14.6	65	10.0	40	14.1	43	8.7	59
<i>eV US Small-Mid Cap Equity Net Median</i>				5.5		9.6		17.1		9.3		13.7		9.1	
<i>Champlain</i>	21,498,382	3.3	2.8	4.0	88	6.1	92	17.4	58	12.5	12	16.3	14	--	--
<i>Custom SMID Cap Equity Index</i>				4.3	85	9.2	61	15.8	65	9.7	46	14.1	56	9.1	44
<i>eV US Mid Cap Equity Net Median</i>				5.7		9.8		19.6		9.5		14.4		8.9	
<i>Wellington</i>	12,110	0.0	2.8												



Vermont Municipal Employees

TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Non US Equity	180,926,290	27.7	20.0	4.8	58	10.7	68	29.6	54	9.5	47	7.5	76	--	--
MSCI EAFE				4.2	66	9.9	79	25.0	84	7.8	74	7.9	66	1.9	82
MSCI ACWI ex USA				5.0	48	11.5	56	27.2	72	7.8	74	6.8	84	1.8	84
eV All ACWI ex-US Equity Net Median				4.9		12.0		29.9		9.3		8.6		3.5	
Total Core Non US Equity	135,143,201	20.7	14.0	4.7	38	11.3	41	29.3	33	10.4	33	10.0	35	2.5	71
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	1.9	86
eV All EAFE Equity Net Median				4.2		10.4		26.6		8.9		9.0		3.4	
Acadian	23,304,904	3.6	4.0	5.0	31	12.3	32	36.8	10	14.7	12	13.1	14	3.1	53
Mondrian	23,192,442	3.6	4.0	2.9	83	8.9	75	22.1	83	7.2	81	8.3	64	2.3	74
MSCI EAFE				4.2	50	9.9	62	25.0	64	7.8	70	7.9	71	1.9	86
SSgA ACWI Ex US	88,645,855	13.6	6.0	5.0	43	11.6	54	27.5	68	8.0	72	7.0	83	--	--
MSCI ACWI ex USA				5.0	43	11.5	54	27.2	69	7.8	73	6.8	84	1.8	82
eV ACWI ex-US All Cap Equity Net Median				4.9		11.9		29.6		9.3		9.1		3.4	
Total Emerging Market Equity	45,783,089	7.0	6.0	5.2	84	9.6	93	30.2	81	8.1	69	3.0	89	--	--
Aberdeen	45,783,089	7.0	6.0	5.2	84	9.6	93	30.2	81	8.1	69	3.0	89	--	--
MSCI Emerging Markets				7.4	30	15.9	39	37.3	48	9.1	52	4.3	74	1.7	75
eV Emg Mkts Equity Net Median				6.7		14.9		37.1		9.1		5.4		2.7	
Total Fixed Income	181,452,910	27.8	36.0	0.7	35	2.0	34	5.8	31	4.2	29	--	--	--	--
BBgBarc US Aggregate TR				0.4	52	1.2	57	3.5	57	2.2	59	2.1	57	4.0	56
eV All US Fixed Inc Net Median				0.4		1.4		3.9		2.6		2.4		4.2	
Total Diversified Fixed Income	48,586,525	7.4	12.0	0.4	54	1.4	51	4.5	42	3.3	39	3.2	38	4.1	52
BBgBarc US Aggregate TR				0.4	52	1.2	57	3.5	57	2.2	59	2.1	57	4.0	56
eV All US Fixed Inc Net Median				0.4		1.4		3.9		2.6		2.4		4.2	
PIMCO Core Plus	42,984,541	6.6	6.0	0.4	70	1.5	27	4.8	8	2.7	35	2.0	65	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	4.0	77
SSgA Barclays Aggregate Index	5,601,983	0.9	6.0	0.3	79	1.2	65	3.5	71	--	--	--	--	--	--
BBgBarc US Aggregate TR				0.4	66	1.2	60	3.5	66	2.2	69	2.1	62	4.0	77
3-Month Libor Total Return USD				0.4	66	0.7	92	1.3	99	0.8	99	0.6	99	0.8	99
eV US Core Fixed Inc Net Median				0.4		1.3		3.8		2.4		2.3		4.4	



Vermont Municipal Employees

TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total TIPS	33,548,063	5.1	6.0	1.2	69	2.0	82	2.9	68	2.0	40	0.1	51	--	--
BlackRock TIPS	33,548,063	5.1	6.0	1.2	--	2.0	--	2.9	--	2.0	--	0.0	--	--	--
BBgBarc US TIPS TR				1.3	--	2.1	--	3.0	--	2.0	--	0.1	--	3.5	--
Total High Yield Bonds	32,002,831	4.9	5.0	0.7	33	2.4	50	6.1	76	5.8	47	5.4	41	7.3	48
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
eV US High Yield Fixed Inc Net				0.5		2.4		7.1		5.6		5.2		7.2	
Median															
KDP	7,133,955	1.1	1.0	0.1	87	1.5	88	5.0	89	3.9	95	3.7	96	--	--
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
BofA Merrill Lynch US High Yield				0.4	69	2.3	53	7.0	53	6.0	34	5.6	35	7.3	47
BB-B Rated															
Guggenheim	24,868,876	3.8	4.0	0.9	26	2.6	38	6.4	66	6.3	27	--	--	--	--
BBgBarc US High Yield TR				0.5	55	2.5	47	7.5	39	6.4	25	5.8	26	8.0	15
eV US High Yield Fixed Inc Net				0.5		2.4		7.1		5.6		5.2		7.2	
Median															
Total Emerging Market Debt	30,186,204	4.6	5.0	0.8	57	3.5	77	10.6	74	7.3	20	4.5	16	--	--
Wellington Opportunistic EMD	30,186,204	4.6	5.0	0.8	57	3.5	77	10.6	74	7.3	20	4.5	16	--	--
JP Morgan EMBI Global Index				0.5	70	2.9	92	9.3	86	6.8	32	3.8	32	7.1	34
eV All Emg Mkts Fixed Inc Net				0.9		4.2		12.5		5.7		2.6		6.3	
Median															
Total Long Treasury	11,810,443	1.8	2.0	2.4	--	2.9	--	--	--	--	--	--	--	--	--
State Street Long U.S. Treasury Index	11,810,443	1.8	2.0	2.4	--	2.9	--	--	--	--	--	--	--	--	--
BBgBarc US Treasury Long TR				2.4	--	3.0	--	8.5	--	2.8	--	3.5	--	6.6	--



Vermont Municipal Employees

TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Unconstrained Fixed Income	25,318,845	3.9	6.0	-0.2	87	1.1	84	5.4	71	--	--	--	--	--	--
25% HY, 25% EMD, 50% BC Agg				0.4	72	2.0	70	6.0	64	4.4	24	3.5	33	5.9	15
BBgBarc Global Aggregate TR				1.1	30	2.9	41	7.4	41	2.0	88	0.8	93	3.1	84
eV Global Unconstrained Fixed Inc Net Median				0.9		2.5		6.7		2.9		2.4		4.7	
PIMCO Unconstrained	12,684,486	1.9	2.5	0.3	80	1.6	73	4.7	84	2.4	76	1.5	84	--	--
25% HY, 25% EMD, 50% BC Agg				0.4	72	2.0	70	6.0	64	4.4	24	3.5	33	5.9	15
3-Month Libor Total Return USD				0.4	74	0.7	90	1.3	98	0.8	99	0.6	93	0.8	99
GAM Unconstrained Bond	12,634,359	1.9	3.5	-0.6	93	0.7	90	5.8	66	--	--	--	--	--	--
3-Month LIBOR + 3%				1.1	25	2.2	61	4.4	86	3.8	30	3.6	32	3.8	61
eV Global Unconstrained Fixed Inc Net Median				0.9		2.5		6.7		2.9		2.4		4.7	
Total Risk Parity/GAA	24,586,348	3.8	4.0	4.7	17	9.3	18	15.1	44	4.9	50	4.3	61	4.8	52
Mellon Dynamic Growth	16,074	0.0	0.0												
Total Risk Parity	24,570,273	3.8	4.0	4.7	17	9.3	18	15.6	41	5.0	49	4.0	62	--	--
eV Global TAA Net Median				3.4		6.7		13.7		4.9		4.9		4.8	
AQR Global Risk Premium	24,570,273	3.8	4.0	4.7	17	9.3	18	15.6	41	5.0	49	4.0	62	--	--
60% MSCI World (Net) / 40% CITI WGBI				3.7	43	7.5	42	16.2	37	6.4	19	7.0	30	4.4	58
Total Cash	2,337,931	0.4	0.0												
Vermont Cash	2,337,931	0.4	0.0												
Total Real Estate	32,683,304	5.0	6.5	1.7	--	3.5	--	6.0	--	8.1	--	10.3	--	--	--
NCREIF Property Index				1.8	--	3.5	--	7.0	--	9.4	--	10.2	--	6.1	--



Vermont Municipal Employees

TOTAL FUND PERFORMANCE DETAIL - NET

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Real Estate Core	23,268,442	3.6	5.0	2.2	--	3.4	--	5.4	--	7.8	--	10.1	--	--	--
UBS Trumbull	23,164,887	3.5		2.2	--	3.5	--	5.4	--	6.8	--	8.0	--	4.1	--
RREEF America REIT III	74,789	0.0		0.0	--	-0.8	--	-4.8	--	-5.1	--	4.4	--	-6.4	--
Transwestern / Aslan III	28,766	0.0		0.0	--	0.0	--	0.0	--	1.0	--	13.5	--	-20.8	--
Total Real Estate Non-Core	9,414,862	1.4	1.5	0.0	--	3.3	--	7.8	--	9.3	--	--	--	--	--
Siguler Guff DREOF II	7,787,222	1.2		0.0	--	3.8	--	8.1	--	9.7	--	--	--	--	--
Siguler Guff DREOF II Co-Investment	1,627,640	0.2		0.0	--	0.9	--	6.8	--	--	--	--	--	--	--
Total Absolute Return	41,060,546	6.3	8.0	2.1	34	4.2	47	4.0	80	1.7	75	4.2	68	--	--
<i>HFRI Fund of Funds Composite Index</i>				2.0	38	4.3	42	7.7	45	2.6	59	4.0	69	1.1	90
<i>eV Alt Fund of Funds - Multi-Strategy Median</i>				1.7		3.9		7.2		3.0		5.1		3.0	
Grosvenor	16,914,828	2.6	3.0	2.4	31	4.1	47	6.5	57	3.0	53	5.4	45	--	--
Allianz Structured Alpha	10,593,094	1.6	2.0	1.5	58	2.8	76	5.2	67	6.7	14	6.4	31	--	--
<i>91 Day T-Bills</i>				0.3	92	0.6	95	0.9	97	0.4	89	0.3	99	0.3	96
<i>eV Alt Fund of Funds - Multi-Strategy Median</i>				1.7		3.9		7.2		3.0		5.1		3.0	
Pinnacle Natural Resources, L.P.	13,488,440	2.1	3.0	2.3	--	5.2	--	-6.3	--	--	--	--	--	--	--
<i>Bloomberg Commodity Index</i>				4.7	--	7.3	--	1.7	--	-5.0	--	-8.5	--	-6.8	--
GAM	64,184	0.0	0.0												
Total Private Debt	4,147,421	0.6	0.0	--	--	--	--	--	--	--	--	--	--	--	--
<i>S&P/LSTA Leveraged Loan TR</i>				1.1	--	2.2	--	4.1	--	4.4	--	4.0	--	4.9	--
Benefit Street Partners	4,147,421	0.6	0.0	--	--	--	--	--	--	--	--	--	--	--	--
Total Private Equity	9,773,366	1.5	1.5	1.8	--	7.3	--	14.6	--	12.2	--	15.9	--	--	--
<i>Cambridge Associates US All PE</i>				0.0	--	3.9	--	11.8	--	10.1	--	12.5	--	9.2	--

Real Estate performance reported on a quarterly basis. NCREIF Property is available 25 days after quarter end.

Real Estate values are preliminary as of 09/30/2017.

Absolute Return composite formerly shown as Hedge Funds composite. As of 04/01/2016, Absolute Return includes Allianz Structured Alpha.

Allianz Structured Alpha was included Diversified Fixed income composite prior to 04/01/2016.

Harbourvest values based on final market values for Q2 and cash adjusted through Q3.



INDEX PERFORMANCE SUMMARY AS OF 12/31/2017

	2010	2011	2012	2013	2014	2015	2016	Q1	Q2	Q3	Oct	Nov	Dec	Q4	YTD
MSCI EM	18.9%	-18.4%	18.2%	-2.6%	-2.2%	-14.9%	11.2%	11.4%	6.3%	7.9%	3.5%	0.2%	3.6%	7.4%	37.3%
MSCI EAFE	7.8%	-12.1%	17.3%	22.8%	-4.9%	-0.8%	1.0%	7.2%	6.1%	5.4%	1.5%	1.0%	1.6%	4.2%	25.0%
MSCI ACWI	12.7%	-7.3%	16.1%	22.8%	4.2%	-2.4%	7.9%	6.9%	4.3%	5.2%	2.1%	1.9%	1.6%	5.7%	24.0%
S&P 500	15.1%	2.1%	16.0%	32.4%	13.7%	1.4%	12.0%	6.1%	3.1%	4.5%	2.3%	3.1%	1.1%	6.6%	21.8%
Russell 1000	16.1%	1.5%	16.4%	33.1%	13.2%	0.9%	12.1%	6.0%	3.1%	4.5%	2.3%	3.0%	1.1%	6.6%	21.7%
Russell 2500	26.7%	-2.5%	17.9%	36.8%	7.1%	-2.9%	17.6%	3.8%	2.1%	4.7%	1.5%	3.3%	0.3%	5.2%	16.8%
JPM GBI-EM Glob Div	15.7%	-1.8%	16.8%	-9.0%	-5.7%	-14.9%	9.9%	6.5%	3.6%	3.6%	-2.8%	1.7%	2.0%	0.8%	15.2%
Russell 2000	26.9%	-4.2%	16.3%	38.8%	4.9%	-4.4%	21.3%	2.5%	2.5%	5.7%	0.9%	2.9%	-0.4%	3.3%	14.6%
BC US STRIPS 20+ Yr	10.9%	58.5%	3.0%	-21.0%	46.4%	-3.7%	1.4%	1.8%	6.1%	0.7%	0.1%	1.5%	2.8%	4.5%	13.7%
BC US Long Credit	10.7%	17.1%	12.7%	-6.6%	16.4%	-4.6%	10.2%	1.7%	4.7%	2.2%	0.7%	0.4%	2.0%	3.2%	12.2%
BC US Govt/Cred Long	10.2%	22.5%	8.8%	-8.8%	19.3%	-3.3%	6.7%	1.6%	4.4%	1.5%	0.4%	0.5%	1.9%	2.8%	10.7%
JPM EMBI Glob Div	12.2%	7.3%	17.4%	-5.3%	7.4%	1.2%	10.2%	3.9%	2.2%	2.6%	0.4%	0.1%	0.7%	1.2%	10.3%
BC Muni High Yield	7.8%	9.2%	18.1%	-5.5%	13.8%	1.8%	3.0%	4.1%	2.0%	1.5%	0.3%	0.3%	1.3%	1.8%	9.7%
BC US Corporate HY	15.1%	5.0%	15.8%	7.4%	2.5%	-4.5%	17.1%	2.7%	2.2%	2.0%	0.4%	-0.3%	0.3%	0.5%	7.5%
BC Global Agg	-5.3%	-5.3%	-4.1%	2.7%	-0.6%	3.3%	2.1%	1.8%	2.6%	1.8%	-0.4%	1.1%	0.3%	1.1%	7.4%
CS Hedge Fund	10.9%	-2.5%	7.7%	9.7%	4.1%	-0.7%	1.2%	2.1%	0.8%	1.8%	1.3%	0.1%	-	1.4%	6.2%
BC Municipal	2.4%	10.7%	6.8%	-2.6%	9.1%	3.3%	0.2%	1.6%	2.0%	1.1%	0.2%	-0.5%	1.0%	0.7%	5.4%
FTSE NAREIT Eqy REITs	28.0%	8.3%	18.1%	2.5%	30.1%	3.2%	8.5%	1.2%	1.5%	0.9%	-1.0%	2.7%	-0.2%	1.5%	5.2%
CS Leveraged Loan	10.0%	1.8%	9.4%	6.2%	2.1%	-0.4%	9.9%	1.2%	0.8%	1.1%	0.7%	0.1%	0.4%	1.2%	4.2%
BC US Agg Bond	6.5%	7.8%	4.2%	-2.0%	6.0%	0.5%	2.6%	0.8%	1.4%	0.8%	0.1%	-0.1%	0.5%	0.4%	3.5%
BC TIPS	6.3%	13.6%	7.0%	-8.6%	3.6%	-1.4%	4.7%	1.3%	-0.4%	0.9%	0.2%	0.1%	0.9%	1.3%	3.0%
BBG Commodity	16.8%	-13.3%	-1.1%	-9.5%	-17.0%	-24.7%	11.8%	-2.3%	-3.2%	2.5%	2.1%	-0.5%	3.0%	4.7%	1.7%
BC US Govt/Cred 1-3	2.8%	1.6%	1.3%	0.6%	0.8%	0.7%	1.3%	0.4%	0.3%	0.3%	0.0%	-0.2%	0.0%	-0.2%	0.8%
Alerian MLP	35.9%	13.9%	4.8%	27.6%	4.8%	-32.6%	18.3%	3.9%	-6.4%	-3.0%	-4.1%	-1.4%	4.7%	-0.9%	-6.5%

Source: Bloomberg, Barclays, Alerian, Nareit, MSCI, JP Morgan, Credit Suisse



INFORMATION DISCLAIMER

- **Past performance is no guarantee of future results.**
- **The goal of this report is to provide a basis for monitoring financial markets. The opinions presented herein represent the good faith views of NEPC as of the date of this report and are subject to change at any time.**
- **Information on market indices was provided by sources external to NEPC. While NEPC has exercised reasonable professional care in preparing this report, we cannot guarantee the accuracy of all source information contained within.**
- **All investments carry some level of risk. Diversification and other asset allocation techniques do not ensure profit or protect against losses.**
- **This report is provided as a management aid for the client's internal use only. This report may contain confidential or proprietary information and may not be copied or redistributed to any party not legally entitled to receive it.**

