



Vermont Pension Investment Committee

Third Fiscal Quarter 2017 Preliminary Investment Performance Analysis

June 27, 2017

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Highlights of First Quarter Happenings at NEPC

March 31, 2017

NEPC Insights

- Will a Higher Fed Funds Rate Raise Long-Term Rates? (January 2017)
- 2016 4th Quarter Market Thoughts (January 2017)
- 2016 Q4 Endowment & Foundation Survey Results and Infographic (February 2017)
- The Times Are a Changin': NEPC's 2017 Annual Asset Allocation Letter (February 2017)
- NEPC's 2017 Healthcare Operating Fund Universe & Infographic (March 2017)
- The Fed's Masterful Move (March 2017)
- Fossil Fuel Divestment: Considerations for Institutional Portfolios (March 2017)
- Globalization Backlash Europe's Political Roadmap (March 2017)
- Are Loose Personal Trading Policies at Hedge Funds A Red Flag? (March 2017)

THE TIMES ARE A-CHANGIN, NEPC'S 1907 ASSET ALL COLTONIETTES The could of south, John John Anderson, Anderson and Anderson Anderson, Anderson and Anderson Anderson, Anderson and Anderson, Anderso

Upcoming Events

NEPC's 22nd Annual Investment Conference will be held on May 9-10, 2017 at the InterContinental Hotel in Boston, MA.

This year's conference will focus on opportunities and threats in these uncertain political and economic times. In addition to the messages delivered by our exceptional keynote speakers, attendees will learn about asset allocation and investment ideas across the market spectrum. **Register today!**

http://info.nepc.com/nepc-22nd-annual-investment-conference

Webinar Replays

• NEPC 2017 Market Outlook (January 2017)

To download NEPC's recent insights and webinar replays, visit: www.NEPC.com/insights

Recent Updates

- Expanded Private Wealth business with two new NEPC Partners and three senior hires
- · Opened new Private Wealth office in Portland, OR
- · Launched updated NEPC website
- Collaborated with RiskFirst's Pension Risk Analytics platform, Pfaroe, to improve effectiveness of asset-liability strategies and ongoing monitoring
- Named a "Greenwich Quality Leader" by Greenwich Associates. See Greenwich.com for more information.



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Basketball teams made up of Boston's working professionals, Year Up students and alumni including two NEPC teams, participated in the Annual Year Up Basketball Tournament fundraising event. Year Up, is a nonprofit connecting low-income young adults with companies looking for talent. The program is a one-year, intensive training program providing hands-on skills development, coursework eligible for college credit, corporate internships, and wraparound support.















Market Environment



Key Market Themes

The US economy is experiencing an extended economic growth cycle

- Eight years removed from recession, US consumers continue to drive the US economy
- Continued economic gains support positive but subdued risk asset returns

Federal Reserve monetary policy remains on a gradual normalization path

- Despite the March increase, the path for rate hikes appears subdued in 2017 and beyond
- As the Fed looks to reduce its \$4.5 trillion balance sheet, clear messaging will be critical
- Chair Yellen's uncertain tenure may stoke market unease has her term expires in Feb. 2018

Stimulative policies ease China's transition to a consumption led economy

- However, credit expansion and infrastructure spending risk inflating asset price bubbles
- Central bank's yuan defense has been sizable but a rapid price fall remains a global tail-risk

Globalization backlash is disrupting the political and economic orthodoxy

- Anti-establishment political sentiment fuels a wider range of potential outcomes both at the polls (e.g. Europe) and in the actions of political leaders (e.g. US Trade Policy)
- Capital market fundamentals are not materially altered but the associated risks of globalization backlash likely lead to larger price shifts among developed market currencies

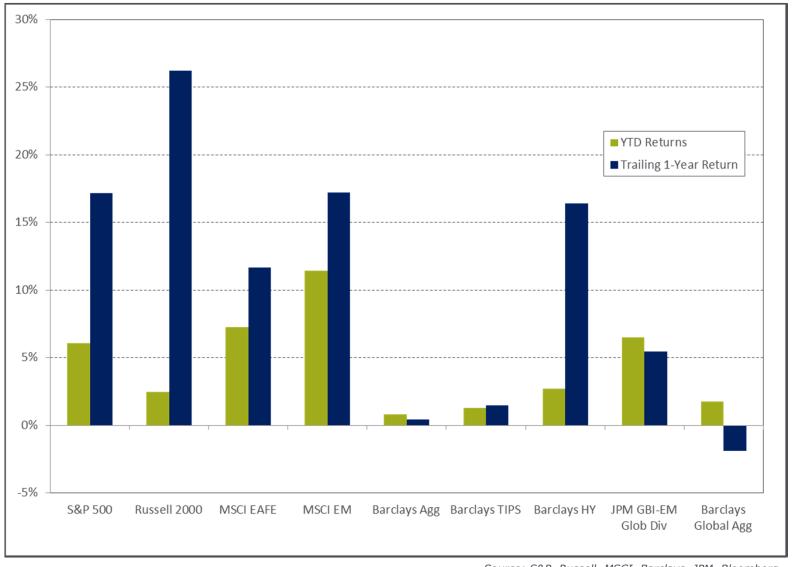


Current Opportunities

- Trim US equity gains following a period of strong market returns
 - Expanding valuations have driven recent gains with soft corporate earnings growth
- Maintain overweight exposure to non-US developed market equities
 - We believe markets offer an elevated return that compensates for Europe's political risk
- Emerging market equities remain attractive and offer robust total returns
 - Overweight small-cap and consumer focused strategies relative to broad mandates
- Allocate to TIPS from core bonds as inflation expectations remain muted
 - Duration exposure remains a critical asset allocation building block for a portfolio
- Reduce high yield bond exposure for other credit strategies
 - High yield credit spreads are less compelling but continue to benefit from high demand
- For tactical investors, look to fund emerging local debt from risk assets
 - Valuations for many emerging market currencies remain attractive despite the recent rally
- Add macro hedge fund strategies for portfolio diversification benefits
 - Systematic strategies tend to exhibit low correlation to equity markets



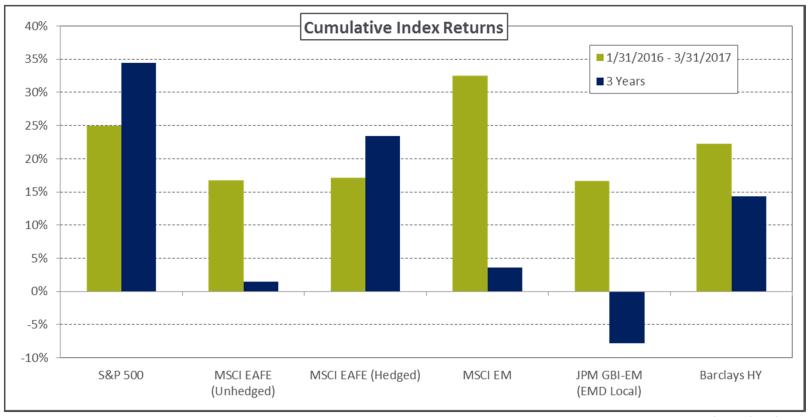
Year to Date Performance: All Assets Have Moved Higher



Source: S&P, Russell, MSCI, Barclays, JPM, Bloomberg As of 03/31/2017



Maintain a Disciplined Rebalance Approach



Source: S&P, MSCI, JPM, Barclays, Bloomberg As of 03/31/2017

- US risk assets have outperformed expectations and we encourage investors to trim exposure to US equities and high yield
- We continue to recommend a <u>strategic</u> 50% currency hedge but US dollar gains over the last 3 years offer a rebalancing opportunity



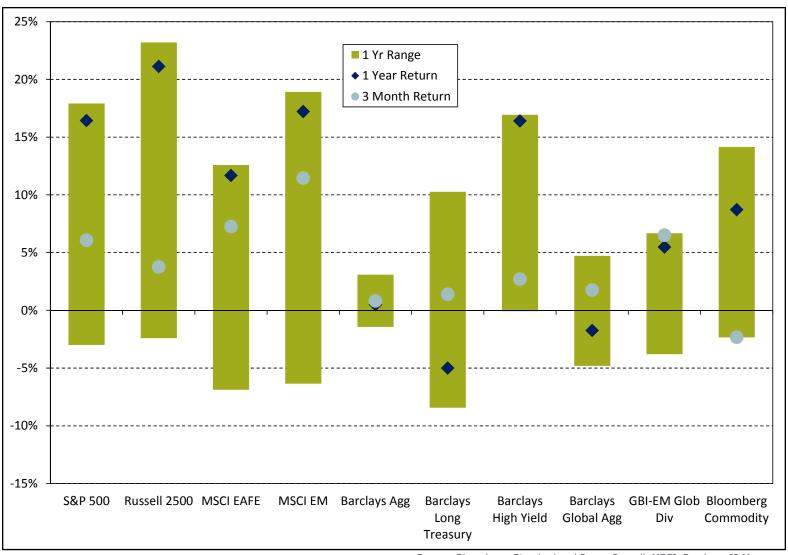
Index Performance Summary as of 03/31/2017

	2009	2010	2011	2012	2013	2014	2015	2016	Jan	Feb	Mar	YTD
EM Equity	78.5%	18.9%	-18.4%	18.2%	-2.6%	-2.2%	-14.9%	11.2%	5.5%	3.1%	2.5%	11.4%
Int'l Developed Equity	31.8%	7.8%	-12.1%	17.3%	22.8%	-4.9%	-0.8%	1.0%	2.9%	1.4%	2.8%	7.2%
EM Local Credit	22.0%	15.7%	-1.8%	16.8%	-9.0%	-5.7%	-14.9%	9.9%	2.3%	1.8%	2.3%	6.5%
US Large Cap	26.5%	15.1%	2.1%	16.0%	32.4%	13.7%	1.4%	12.0%	1.9%	4.0%	0.1%	6.1%
US Small/Mid Cap	34.4%	26.7%	-2.5%	17.9%	36.8%	7.1%	-2.9%	17.6%	1.4%	2.4%	-0.1%	3.8%
US High Yield	58.2%	15.1%	5.0%	15.8%	7.4%	2.5%	-4.5%	17.1%	1.5%	1.5%	-0.2%	2.7%
Global Credit	-6.5%	-5.3%	-5.3%	-4.1%	2.7%	-0.6%	3.3%	2.1%	1.1%	0.5%	0.2%	1.8%
US Long Treasuries	-12.9%	9.4%	29.9%	3.6%	-12.7%	25.1%	-1.2%	1.3%	0.4%	1.6%	-0.6%	1.4%
US Credit	5.9%	6.5%	7.8%	4.2%	-2.0%	6.0%	0.5%	2.6%	0.2%	0.7%	-0.1%	0.8%
Commodities	18.9%	16.8%	-13.3%	-1.1%	-9.5%	-17.0%	-24.7%	11.8%	0.1%	0.2%	-2.7%	-2.3%
S&P 500 = US Large Cap						Source	e: Bloomber	g, Barclays, S	S&P, Russell,	MSCI, JP M	organ, Cred	it Suisse

S&P 500 = US Large Cap
Russell 2500 = US Small/Mid Cap
MSCI EAFE = International Developed Equity
MSCI EM = Emerging Market Equity
Barclays Agg = US Credit
Barclays Long Treasury = US Long Treasuries
Barclays High Yield = US HY
Barclays Global Agg = Global Credit
GBI-EM Global Diversified = EM Local Credit
Bloomberg Commodity = Commodities



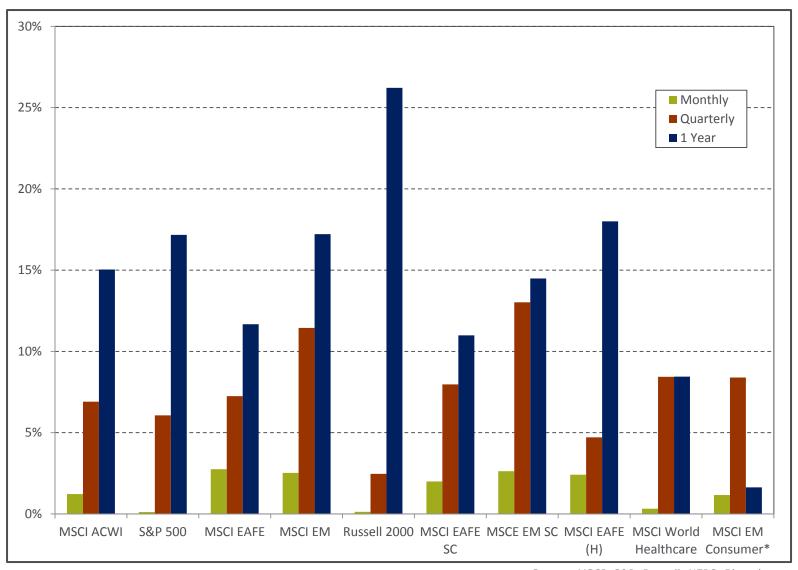
Near Term Broad Market Performance Summary as of 03/31/2017



Source: Bloomberg, Standard and Poors, Russell, MSCI, Barclays, JP Morgan *1 Yr Range: Represents range of cumulative high/low daily index returns for an investment made one year ago



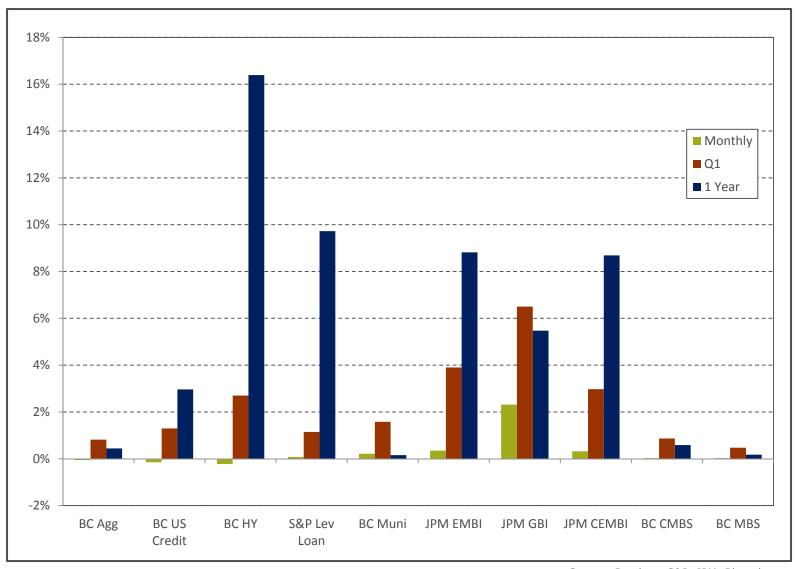
Equity Index Returns as of 03/31/2017



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



Fixed Income Index Returns as of 03/31/2017



Source: Barclays, S&P, JPM, Bloomberg



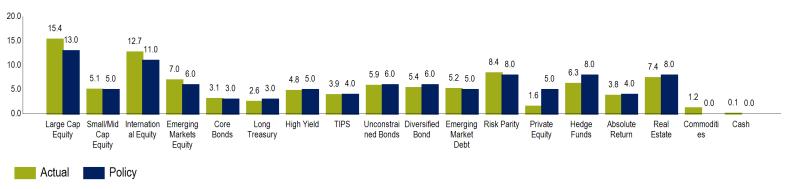
State Teachers' Retirement System



Total Fund Performance Summary - Net

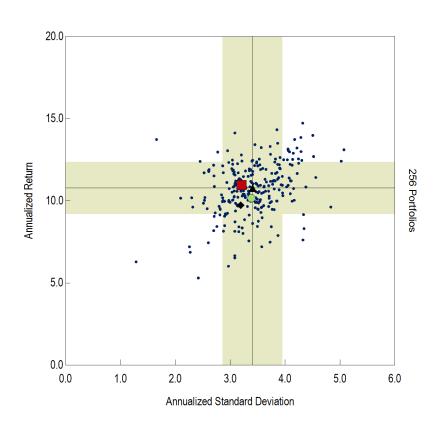
	Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	7 Yrs	Rank	10 Yrs	Rank
Teachers Composite	\$1,712,062,285	4.1%	62	7.7%	77	11.0%	45	4.2%	82	5.8%	92	6.7%	82	4.0%	90
Policy Index		3.5%	89	7.1%	86	9.7%	78	4.0%	86	5.6%	93	6.2%	94	4.1%	89
Allocation Index		4.0%	64	7.6%	79	10.2%	66	3.9%	88	5.5%	94	6.0%	95	4.0%	90
InvestorForce Public DB Net Median		4.2%		8.8%		10.8%		5.0%		7.2%		7.4%		5.1%	
			3 Ye	ars Endir	ng March	31, 2017									
	Anlzd Ret	Rank		Anlzd Std	Dev	Rank	(Sharpe F	Ratio	Rank	(5	Sortino Ra	atio RF	Ranl	K
Teachers Composite	4.19%	82		5.58%		23		0.72		68		1.29)	43	
Policy Index	4.04%	86		5.28%		11		0.73		65		1.29)	43	
Allocation Index	3.90%	88		5.47%		19		0.68		74		1.15	i	63	
			5 Ye	ars Endin	g March	31, 2017									
	Anlzd Ret	Rank		Anlzd Std	Dev	Rank		Sharpe F	Ratio	Rank	: 8	Sortino Ra	tio RF	Rank	(
Teachers Composite	5.79%	92		5.78%		28		0.98		79		1.62		61	
Policy Index	5.62%	93		5.51%		18		1.00		76		1.58		67	
Allocation Index	5.47%	94		5.57%		20		0.96		83		1.46		78	

Actual vs Target Allocation (%)





1 Year Ending March 31, 2017

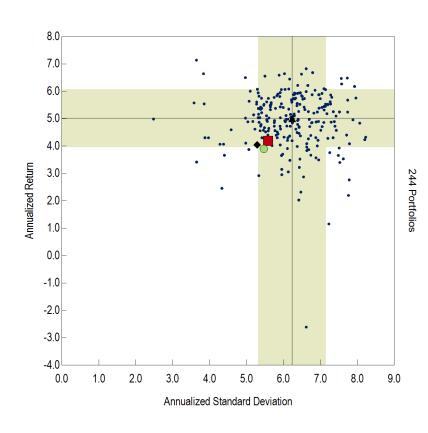


1 Year Ending March 31, 2017

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	10.96%	45	3.21%	36	3.30	31
Policy Index	9.73%	78	3.19%	35	2.93	59
S&P 500	17.17%	1	6.24%	99	2.69	78
Citi WGBI	-3.65%	99	7.60%	99	-0.53	99
			=			
MSCI ACWI	15.04%	1	5.69%	99	2.58	85
MSCI ACWI ex USA	13.13%	5	8.13%	99	1.57	99
InvestorForce Public DB Net Median	10.78%		3.41%		3.02	

- Teachers Composite
- Policy Index
- Allocation Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

3 Years Ending March 31, 2017

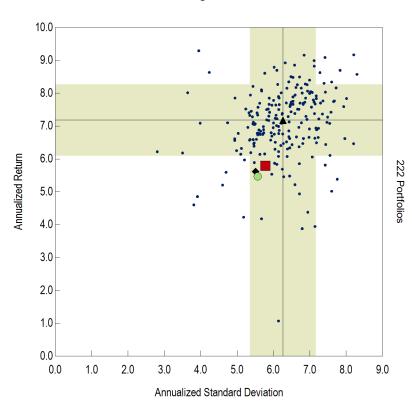


3 Years Ending March 31, 2017

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	4.19%	82	5.58%	23	0.72	68
Policy Index	4.04%	86	5.28%	11	0.73	65
S&P 500	10.37%	1	10.41%	99	0.98	11
Citi WGBI	-1.20%	99	5.90%	34	-0.23	99
MSCI ACWI	5.08%	48	10.79%	99	0.45	97
MSCI ACWI ex USA	0.56%	99	12.35%	99	0.03	99
InvestorForce Public DB Net Median	5.02%		6.23%		0.79	-

- Teachers Composite
- Policy Index
- Allocation Index
- Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

5 Years Ending March 31, 2017

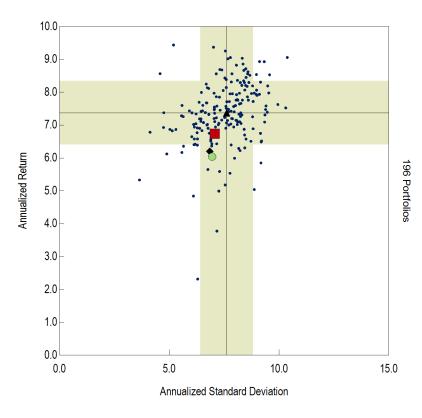


5 Years Ending March 31, 2017

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	5.79%	92	5.78%	28	0.98	79
Policy Index	5.62%	93	5.51%	18	1.00	76
S&P 500	13.30%	1	10.20%	99	1.29	15
Citi WGBI	-0.58%	99	5.29%	10	-0.13	99
MSCI ACWI	8.37%	9	11.06%	99	0.75	97
MSCI ACWI ex USA	4.36%	98	12.93%	99	0.33	99
InvestorForce Public DB Net Median	7.18%		6.26%		1.13	

- Teachers Composite
- Policy Index
- Allocation Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

7 Years Ending March 31, 2017

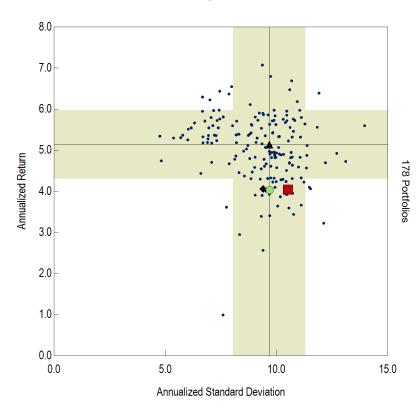


7 Years Ending March 31, 2017

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	6.73%	82	7.07%	35	0.94	61
Policy Index	6.20%	94	6.84%	28	0.89	73
S&P 500	12.94%	1	12.44%	99	1.03	35
Citi WGBI	1.31%	99	5.68%	8	0.21	99
MSCI ACWI	7.81%	31	13.69%	99	0.56	99
MSCI ACWI ex USA	3.82%	99	15.52%	99	0.24	99
InvestorForce Public DB Net Median	7.37%		7.61%		0.97	

- Teachers Composite
- Policy Index
- Allocation Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

10 Years Ending March 31, 2017



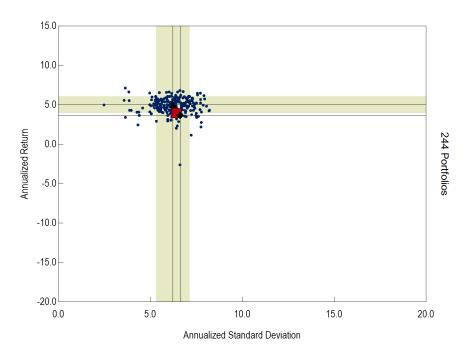
10 Years	Ending	March	31,	2017
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	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	4.04%	90	10.52%	78	0.33	91
Policy Index	4.06%	89	9.39%	45	0.37	80
S&P 500	7.51%	1	15.30%	99	0.46	56
Citi WGBI	3.03%	99	6.82%	9	0.37	83
MSCI ACWI	4.00%	91	17.01%	99	0.20	99
MSCI ACWI ex USA	1.35%	99	19.17%	99	0.04	99
InvestorForce Public DB Net Median	5.14%		9.67%		0.48	

- Teachers Composite
- Policy Index
- Allocation Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

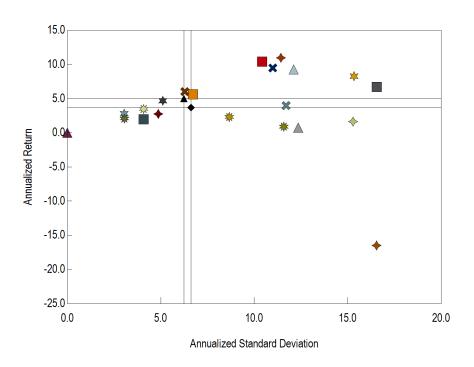
Total Marketable Assets - Net

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



- Total Marketable Assets
- Total Marketable Assets Custom Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

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

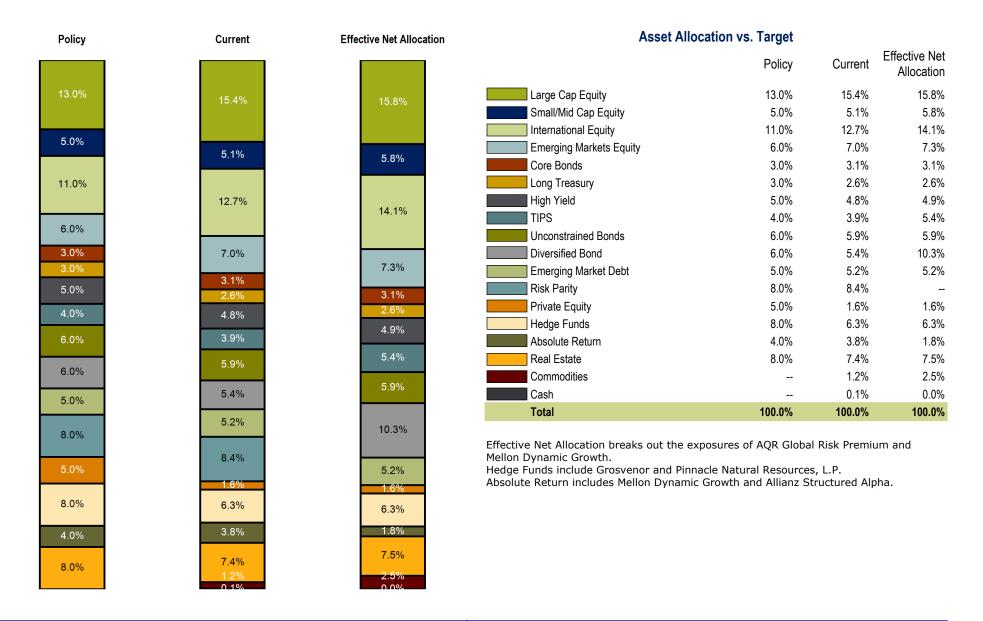


- SSgA S&P 500 Cap-Wgt
- * SSgA S&P 500 Equal-Wgt
- T. Rowe
- △ SSgA S&P 400
- + Champlain
- * Wellington
- SSgA Russell 2000 Growth
- * Acadian
- Mondrian
- SSgA ACWI Ex US
- Aberdeen
- * PIMCO Core Plus

- Wellington DAS
- * PIMCO Unconstrained
- + KDP
- * Guggenheim
- BlackRock TIPS
- Wellington Opportunistic EMD
- * AQR Global Risk Premium
- ▲ Vermont Cash
- Schroder
- Total Marketable Assets Custom Index
- ▲ Universe Median
- 68% Confidence Interval



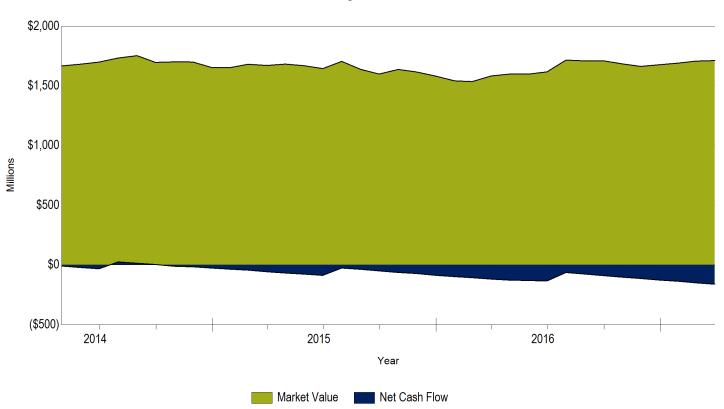
Total Fund Asset Allocation vs. Policy Targets





Total Fund Asset Growth Summary

3 Years Ending March 31, 2017



	Last Three Months	Fiscal Year-To-Date	One Year	Three Years
Beginning Market Value	\$1,677,575,084	\$1,617,794,214	\$1,583,437,546	\$1,665,001,956
Contributions	\$9,754,567	\$123,032,280	\$175,802,051	\$879,309,416
Withdrawals	-\$44,006,026	-\$150,125,550	-\$218,513,873	-\$1,040,558,125
Net Cash Flow	-\$34,251,459	-\$27,093,271	-\$42,711,822	-\$161,248,709
Net Investment Change	\$68,738,659	\$121,361,341	\$171,336,561	\$208,309,037
Ending Market Value	\$1,712,062,285	\$1,712,062,285	\$1,712,062,285	\$1,712,062,285



Total Fund Asset Growth Summary by Manager

Quarter Ending March 31, 2017

			49			
	Beginning Market Value	Contributions	Withdrawals	Net Cash Flow	Net Investment Change	Ending Market Value
Aberdeen	\$107,335,791	\$201,036	-\$201,036	\$0	\$12,755,813	\$120,091,604
Acadian	\$65,737,496	\$86,281	-\$86,281	\$0	\$6,702,564	\$72,440,061
Allianz Structured Alpha	\$31,050,283	\$0	-\$169,335	-\$169,335	\$452,507	\$31,333,455
AQR Global Risk Premium	\$137,654,462	\$132,722	-\$132,722	\$0	\$6,433,989	\$144,088,451
BlackRock TIPS	\$66,575,356	\$12,692	-\$12,692	\$0	\$856,989	\$67,432,345
Champlain	\$34,912,520	\$70,807	-\$70,807	\$0	\$2,001,722	\$36,914,242
GAM	\$175,078	\$0	\$0	\$0	-\$15	\$175,063
GAM Unconstrained Bond	\$57,680,479	\$0	-\$76,412	-\$76,412	\$1,851,381	\$59,455,449
Grosvenor	\$83,557,095	\$0	\$0	\$0	\$1,496,809	\$85,053,904
Guggenheim	\$68,033,671	\$83,986	-\$5,583,986	-\$5,500,000	\$1,452,614	\$63,986,285
Harbourvest Dover Street Fund IX	\$916,510	\$721,394	\$0	\$721,394	\$0	\$1,637,904
Harbourvest Dover VIII Fund	\$8,061,322	\$0	\$0	\$0	\$0	\$8,061,322
Harbourvest Partners IX Buyout Fund	\$6,891,368	\$0	\$0	\$0	\$0	\$6,891,368
Harbourvest Partners IX Credit Opportunities	\$997,704	\$0	\$0	\$0	\$0	\$997,704
Harbourvest Partners IX Venture Fund	\$4,920,053	\$0	\$0	\$0	\$0	\$4,920,053
Harbourvest Partners X Buyout Fund	\$1,923,678	\$0	\$0	\$0	\$0	\$1,923,678
Harbourvest Partners X Venture Fund	\$912,775	\$0	\$0	\$0	\$0	\$912,775
HIPEP VII	\$1,867,802	\$142,285	\$0	\$142,285	\$0	\$2,010,087
KDP	\$17,831,602	\$28,290	-\$28,290	\$0	\$336,655	\$18,168,257
Mellon Dynamic Growth	\$32,946,008	\$55,639	-\$55,639	\$0	\$1,007,499	\$33,953,507
Mondrian	\$67,983,561	\$66,514	-\$5,566,514	-\$5,500,000	\$5,119,000	\$67,602,561
Morgan Stanley Prime Property	\$59,124,819	\$0	-\$124,162	-\$124,162	\$1,262,277	\$60,262,935
PIMCO Core Plus	\$91,216,013	\$69,924	-\$69,924	\$0	\$1,497,101	\$92,713,114
PIMCO Unconstrained	\$40,533,379	\$62,399	-\$62,399	\$0	\$905,140	\$41,438,519
Pinnacle Natural Resources, L.P.	\$16,887,258	\$7,401,313	\$0	\$7,401,313	-\$2,175,004	\$22,113,567



Total Fund Asset Growth Summary by Manager

Quarter Ending March 31, 2017

	Beginning Market Value	Contributions	Withdrawals	Net Cash Flow	Net Investment Change	Ending Market Value
RREEF America REIT III	\$258,764	\$0	-\$807	-\$807	-\$1,112	\$256,846
Schroder	\$28,976,411	\$74,166	-\$7,475,478	-\$7,401,313	-\$539,599	\$21,035,499
Siguler Guff DREOF II	\$12,649,578	\$84,795	-\$8,126	\$76,668	\$481,244	\$13,207,491
Siguler Guff DREOF II Co-Investment	\$3,593,224	\$221,905	\$0	\$221,905	\$133,077	\$3,948,206
SSgA ACWI Ex US	\$71,908,168	\$12,006	-\$12,006	\$0	\$5,710,226	\$77,618,394
SSgA Barclays Aggregate Index	\$53,197,769	\$6,379	-\$6,379	\$0	\$435,387	\$53,633,156
SSgA Russell 2000 Growth	\$7,542,866	\$1,629	-\$1,629	\$0	\$411,760	\$7,954,626
SSgA S&P 400	\$9,492,040	\$1,673	-\$1,673	\$0	\$372,845	\$9,864,884
SSgA S&P 500 Cap-Wgt	\$191,921,634	\$16,033	-\$12,716,033	-\$12,700,000	\$11,420,516	\$190,642,150
SSgA S&P 500 Equal-Wgt	\$73,786,895	\$7,378	-\$5,307,378	-\$5,300,000	\$3,870,690	\$72,357,585
T. Rowe	\$2,468	\$0	\$0	\$0	\$0	\$2,468
Transwestern / Aslan III	\$128,447	\$0	\$0	\$0	\$0	\$128,447
UBS Trumbull	\$49,007,398	\$118,646	-\$118,646	\$0	\$564,241	\$49,571,639
Vermont Cash	\$2,696,299	\$0	-\$1,042,996	-\$1,042,996	\$0	\$1,653,303
Wellington	\$37,752,666	\$74,678	-\$5,074,678	-\$5,000,000	-\$445,974	\$32,306,692
Wellington DAS	\$43,364,279	\$0	\$0	\$0	\$791,463	\$44,155,742
Wellington Opportunistic EMD	\$85,570,095	\$0	\$0	\$0	\$3,576,852	\$89,146,947
Total	\$1,677,575,084	\$9,754,567	-\$44,006,026	-\$34,251,459	\$68,738,659	\$1,712,062,285



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
Teachers Composite	1,712,062,285	100.0	100.0	4.1	62	7.7	77	11.0	45	4.2	82	5.8	92	4.0	90
Policy Index				3.5	89	7.1	86	9.7	78	4.0	86	5.6	93	4.1	89
Allocation Index				4.0	64	7.6	79	10.2	66	3.9	88	5.5	94	4.0	90
InvestorForce Public DB Net Median				4.2		8.8		10.8		5.0		7.2		5.1	
Total Marketable Assets	1,384,702,333	80.9		4.8	18	8.3	60	11.9	25	4.0	87				
Total Marketable Assets Custom Index				4.1	59	7.6	80	10.3	60	3.7	91				
InvestorForce Public DB Net Median				4.2		8.8		10.8		5.0		7.2		5.1	
US Equity	350,042,647	20.4	18.0	5.0	47	14.9	55	18.0	46	9.8	20	-	-		
Russell 3000				5.7	38	15.0	53	18.1	45	9.8	21	13.2	29	7.5	48
eA All US Equity Net Median				4.8		15.3		17.4		7.9		12.1		7.5	
Large Cap Comp	263,002,203	15.4	13.0	5.8	49	14.4	47	17.3	33	10.1	18	13.4	14	8.0	30
S&P 500				6.1	44	14.4	47	17.2	34	10.4	14	13.3	18	7.5	44
eA US Large Cap Equity Net Median				5.6		14.0		15.5		8.3		11.9		7.3	
SSgA S&P 500 Cap-Wgt	190,642,150	11.1	10.0	6.1	44	14.4	46	17.2	33	10.4	14	13.3	18		
S&P 500				6.1	44	14.4	47	17.2	34	10.4	14	13.3	18	7.5	44
SSgA S&P 500 Equal-Wgt	72,357,585	4.2	3.0	5.2	57	14.3	47	17.4	31	9.5	30	13.9	8	8.4	22
S&P 500 Equal Weighted				5.4	54	14.4	46	17.4	31	9.6	28	14.0	7	8.7	17
T. Rowe	2,468	0.0	0.0												
Small/Mid Cap Comp	87,040,444	5.1	5.0	2.5	77	16.5	48	20.6	31	9.6	14	13.5	21	8.6	29
Russell 2000				2.5	79	21.6	19	26.2	8	7.2	39	12.4	37	7.1	68
eA US Small-Mid Cap Equity Net Median				4.2		15.9		18.7		6.6		11.6		7.9	
SSgA S&P 400	9,864,884	0.6	0.5	3.9	72	16.2	30	20.8	20	9.3	21	13.3	26	-	
S&P 400 MidCap				3.9	71	16.3	29	20.9	17	9.4	20	13.3	26	9.0	26
eA US Mid Cap Equity Net Median				5.3		13.9		16.2		7.7		12.1		8.2	
Champlain	36,914,242	2.2	2.0	5.5	48	15.7	34	22.7	7	11.0	7	14.0	17		
Russell 2500				3.8	76	17.3	23	21.5	14	7.4	55	12.6	36	7.7	60
eA US Mid Cap Equity Net Median				5.3		13.9		16.2		7.7		12.1		8.2	



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
Wellington	32,306,692	1.9	2.0	-1.4	87	15.9	88	16.7	91	8.3	37	12.7	48	8.6	18
Russell 2000 Value				-0.1	64	24.0	21	29.4	14	7.6	52	12.5	51	6.1	81
eA US Small Cap Value Equity Net Median				0.5		21.2		23.4		7.7		12.6		7.3	
SSgA Russell 2000 Growth	7,954,626	0.5	0.5	5.4	57	19.3	40	23.1	48	6.7	45	12.0	48	8.0	48
Russell 2000 Growth				5.3	58	19.2	40	23.0	49	6.7	44	12.1	46	8.1	46
eA US Small Cap Growth Equity Net Median				6.1		18.3		22.4		6.3		11.9		7.9	
Int'l Equity Comp	217,661,016	12.7	11.0	8.5	25	14.5	32	14.6	18	1.9	41	7.0	43	1.5	65
MSCI EAFE				7.2	59	13.3	43	11.7	44	0.5	74	5.8	70	1.1	76
eA All EAFE Equity Net Median				7.5		12.8		11.0		1.4		6.8		2.3	
Acadian	72,440,061	4.2	4.0	10.1	6	18.4	9	19.0	3	4.0	15	9.2	18	1.5	65
Mondrian	67,602,561	3.9	4.0	7.5	52	11.3	65	11.7	44	0.9	62	6.1	64	1.8	61
MSCI EAFE				7.2	59	13.3	43	11.7	44	0.5	74	5.8	70	1.1	76
SSgA ACWI Ex US	77,618,394	4.5	3.0	7.9	56	14.0	36	13.4	40	0.8	60	4.6	82	-	
MSCI ACWI ex USA				7.9	63	13.9	37	13.1	43	0.6	63	4.4	82	1.4	72
eA ACWI ex-US All Cap Equity Net Median				8.5		12.0		11.5		1.4		6.2		2.6	
Emerging Market Comp	120,091,604	7.0	6.0	11.7	62	11.6	74	16.2	59	1.6	60				
Aberdeen	120,091,604	7.0	6.0	11.7	62	11.6	74	16.2	59	1.6	60	1.7	63	-	
MSCI Emerging Markets				11.4	68	16.4	41	17.2	51	1.2	65	0.8	80	2.7	67
eA Emg Mkts Equity Net Median				12.2		15.2		17.2		2.1		2.1		3.4	
US Fixed Income	440,982,866	25.8	27.0	1.8	22	2.2	25	4.9	27	3.8	26	-	-	-	
BBgBarc US Aggregate TR				0.8	65	-1.7	84	0.4	80	2.7	52	2.3	61	4.3	54
eA All US Fixed Inc Net Median				1.1		0.0		1.7		2.7		2.9		4.4	
Diversified Fixed	291,395,980	17.0	18.0	1.8	20	0.6	37	2.9	38	3.7	27	3.3	44	3.8	66
BBgBarc US Aggregate TR				0.8	65	-1.7	84	0.4	80	2.7	52	2.3	61	4.3	54
eA All US Fixed Inc Net Median				1.1		0.0		1.7		2.7		2.9		4.4	
PIMCO Core Plus	92,713,114	5.4	6.0	1.6	3	-0.5	21	1.8	26	2.8	50	2.5	60		
BBgBarc US Aggregate TR				0.8	66	-1.7	74	0.4	74	2.7	60	2.3	73	4.3	77
Wellington DAS	44,155,742	2.6	3.0	1.8	2	-6.1	99	-2.8	99	5.6	1	5.1	2		
Wellington Custom Benchmark*				1.4	3	-6.5	99	-2.8	99	4.5	3	3.4	15	5.6	7

^{*}Wellington Custom Benchmark is comprised of equal weighted zero coupon bonds targeting a 10 year duration. Instruments include swaps from 7/1/07 thru 12/18/08, swaps and US Treasury STRIPS from 12/19/08 thru 12/29/08, and US Treasury STRIPS since 12/30/08.



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
SSgA Barclays Aggregate Index	53,633,156	3.1	3.0	0.8	68	-1.8	76	0.4	74						
BBgBarc US Aggregate TR				0.8	66	-1.7	74	0.4	74	2.7	60	2.3	73	4.3	77
3-Month Libor Total Return USD				0.3	99	0.7	4	0.9	55	0.5	99	0.4	99	1.1	99
eA US Core Fixed Inc Net Median				0.9		-1.3		1.1		2.8		2.6		4.5	
Unconstrained Fixed Income	100,893,968	5.9	6.0	2.7	40	6.3	29	8.3	32	-	-	-	-	-	
25% HY, 25% EMD, 50% BC Agg				2.1	61	2.4	73	6.4	58	4.0	11	4.2	35	5.8	20
BBgBarc Global Aggregate TR				1.8	70	-4.7	99	-1.9	99	-0.4	92	0.4	93	3.3	91
eA Global Unconstrained Fixed Inc Net Median				2.3		5.1		7.1		2.5		3.6		5.2	
PIMCO Unconstrained	41,438,519	2.4	2.5	2.1	61	6.0	33	7.8	35	2.1	66	1.5	91		
25% HY, 25% EMD, 50% BC Agg				2.1	61	2.4	73	6.4	58	4.0	11	4.2	35	5.8	20
3-Month Libor Total Return USD				0.3	99	0.7	94	0.9	95	0.5	86	0.4	93	1.1	99
GAM Unconstrained Bond	59,455,449	3.5	3.5	3.1	30	6.4	27	8.7	31	-		-	-	-	
3-Month LIBOR + 3%				1.0	93	3.0	69	3.9	76	3.5	20	3.4	54	4.1	76
eA Global Unconstrained Fixed Inc Net Median				2.3		5.1		7.1		2.5		3.6		5.2	
High Yield Comp	82,154,542	4.8	5.0	2.0	73	9.8	38	15.3	35	4.3	32	6.4	33	7.0	36
BBgBarc US High Yield TR				2.7	32	10.3	32	16.4	21	4.6	25	6.8	24	7.5	17
eA US High Yield Fixed Inc Net Median				2.3		9.1		13.8		3.8		6.1		6.7	
KDP	18,168,257	1.1	1.0	1.7	80	6.1	85	10.1	78	2.7	82	4.6	91		
BBgBarc US High Yield TR BofA Merrill Lynch US High Yield				2.7	32	10.3	32	16.4	21	4.6	25	6.8	24	7.5	17
BB-B Rated				2.3	54	8.8	57	13.8	51	4.6	24	6.6	28	6.9	37
Guggenheim	63,986,285	3.7	4.0	2.1	70	10.8	21	16.7	20	4.7	23		-		
BBgBarc US High Yield TR				2.7	32	10.3	32	16.4	21	4.6	25	6.8	24	7.5	17
eA US High Yield Fixed Inc Net Median				2.3		9.1		13.8		3.8		6.1		6.7	



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	10 Yrs (%)	Rank
TIPS	67,432,345	3.9	4.0												
BlackRock TIPS	67,432,345	3.9	4.0	1.3		-0.2		1.5		2.0		0.9			
BBgBarc US TIPS TR				1.3		-0.2		1.5		2.0		1.0		4.2	
Emerging Market Debt	89,146,947	5.2	5.0												
Wellington Opportunistic EMD	89,146,947	5.2	5.0	4.2	73	6.3	25	12.5	22	6.0	8	5.8	10		
JP Morgan EMBI Global TR				3.9	80	3.2	81	8.8	54	5.7	13	5.2	20	6.9	29
eA All Emg Mkts Fixed Inc Net Median				5.2		4.8		9.2		3.6		3.7		6.1	
Risk Parity/GAA	144,088,451	8.4	8.0	4.6	32	4.4	66	10.2	30	2.2	53	4.0	48	4.0	58
Risk Parity	144,088,451	8.4	8.0	4.6	32	4.4	66	10.4	29	2.3	51	3.9	51		
eA Global TAA Net Median				3.5		5.4		7.7		2.3		3.9		4.3	
AQR Global Risk Premium	144,088,451	8.4	8.0	4.6	32	4.4	66	10.4	29	2.3	51	3.9	51		
60% MSCI World (Net) / 40% CITI WGBI				4.4	36	5.0	60	7.1	55	2.9	41	5.4	24	4.1	57
Cash	1,653,303	0.1	0.0												
Vermont Cash	1,653,303	0.1	0.0	0.0		0.0		0.0		0.0	-	0.0	-	8.0	
91 Day T-Bills				0.1		0.3		0.4		0.2		0.1		0.5	
Commodities	21,035,499	1.2	3.0												
Schroder	21,035,499	1.2	3.0	-2.8		-2.9		10.9		-16.5		-11.6			
Bloomberg Commodity Index				-2.3		-3.6		8.7		-13.9		-9.5		-6.2	
Total Real Estate	127,375,563	7.4	8.0	1.8		5.7		8.0		11.4	-		-		
NCREIF Property Index				1.6		5.1		7.3		10.6		10.7		6.7	
NCREIF ODCE				1.8		6.1		8.3		11.8		12.0		5.6	
Morgan Stanley Prime Property	60,262,935	3.5		1.9		6.7		9.3		12.5		13.0		5.8	
UBS Trumbull	49,571,639	2.9		0.9		3.6		5.1		9.6		9.3		5.1	
RREEF America REIT III	256,846	0.0		-0.7		-13.6		-13.0		2.1	-	8.7	-	-4.8	
Transwestern / Aslan III	128,447	0.0		0.0		0.0		0.0		-2.0		9.4		-22.6	
Siguler Guff DREOF II	13,207,491	0.8		3.8		10.3		14.4		-	-	-	-		
Siguler Guff DREOF II Co-Investment	3,948,206	0.2		3.6		-		-		-	-	-	-		

Risk Parity Composite formerly shown as Risk Parity/GAA.

Real Estate performance reported on a quarterly basis. NCREIF Property is available 25 days after quarter end. Real Estate values are finalized as of 03/31/2017, except for the Siguler Guff funds, they are preliminary.



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
Absolute Return	172,629,496	10.1	9.0	0.6	90	3.9	78	5.5	66	0.6	75	4.3	52		
HFRI Fund of Funds Composite Index				2.4	47	5.6	57	6.2	59	1.8	51	3.2	75	1.2	87
eV Alt Fund of Funds - Multi-Strategy Median				2.3		6.0		6.9		1.8		4.4		2.9	
Grosvenor	85,053,904	5.0	5.0	1.8	63	7.0	39	8.6	33	2.0	48	5.3	34		
Mellon Dynamic Growth	33,953,507	2.0	2.0	2.9	32	2.1	92	4.8	72	5.7	7	5.5	32	2.8	52
Mellon Dynamic Growth Benchmark				4.1	15	5.4	59	6.9	51	2.7	41	4.9	39	3.5	32
Allianz Structured Alpha	31,333,455	1.8	2.0	0.9	85	3.6	80	4.9	72	8.9	3	8.0	7		
91 Day T-Bills				0.1	94	0.3	95	0.4	94	0.2	87	0.1	99	0.5	96
eV Alt Fund of Funds - Multi-Strategy Median				2.3		6.0		6.9		1.8		4.4		2.9	
Pinnacle Natural Resources, L.P.	22,113,567	1.3		-8.2		-6.6									
Bloomberg Commodity Index				-2.3		-3.6		8.7		-13.9		-9.5		-6.2	
GAM	175,063	0.0	0.0												
Private Equity	27,354,892	1.6	5.0	0.0	-	7.4		12.6		16.3		-			
Cambridge Associates US All PE				0.0		8.7		13.0		8.8		11.8		9.3	
Harbourvest Partners IX Credit Opportunities	997,704	0.1													
Harbourvest Partners IX Venture Fund	4,920,053	0.3													
Harbourvest Partners IX Buyout Fund	6,891,368	0.4													
Harbourvest Partners X Venture Fund	912,775	0.1													
Harbourvest Partners X Buyout Fund	1,923,678	0.1													
Harbourvest Dover VIII Fund	8,061,322	0.5													
Harbourvest Dover Street Fund IX	1,637,904	0.1													
HIPEP VII	2,010,087	0.1													

Absolute Return composite formerly shown as Hedge Funds composite. As of 04/01/2016, Absolute Return includes Mellon Dynamic Growth and Allianz Structured Alpha. Mellon Dynamic Growth was included in Risk Parity/GAA composite prior to 04/01/2016.

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

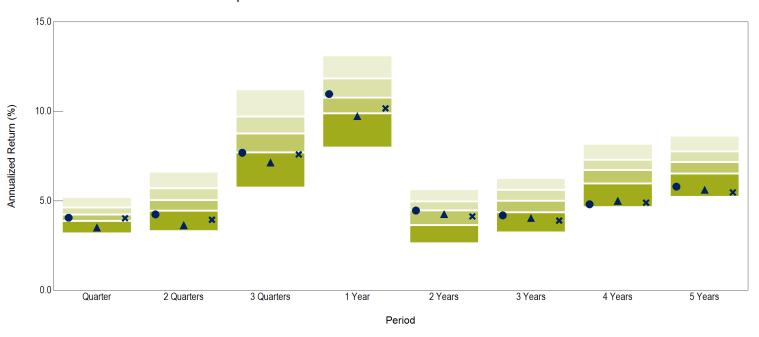
Mellon Dynamic Growth Benchmark: 60% MSCI All Country World Index IMI / 40% Citigroup GDP Weighted.

Harbourvest values based on final Capital Account Statements for Q4, and cash adjusted through Q1.



Total Fund Return Summary vs. Peer Universe - Net

Teachers Composite vs. InvestorForce Public DB Net

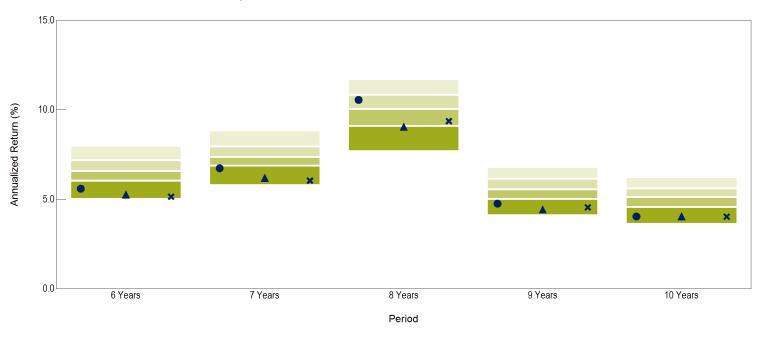


	Return (Rank)															
5th Percentile	5.2		6.6		11.2		13.1		5.6		6.3		8.2		8.6	
25th Percentile	4.6		5.7		9.7		11.8		5.0		5.6		7.3		7.8	
Median	4.2		5.0		8.8		10.8		4.5		5.0		6.7		7.2	
75th Percentile	3.9		4.5		7.7		9.9		3.7		4.4		6.0		6.5	
95th Percentile	3.2		3.3		5.7		8.0		2.6		3.2		4.7		5.2	
# of Portfolios	257		257		257		256		254		244		230		222	
Teachers Composite	4.1	(62)	4.2	(83)	7.7	(77)	11.0	(45)	4.5	(51)	4.2	(82)	4.8	(94)	5.8	(92)
Policy Index	3.5	(89)	3.6	(93)	7.1	(86)	9.7	(78)	4.3	(60)	4.0	(86)	5.0	(92)	5.6	(93)
× Allocation Index	4.0	(64)	3.9	(90)	7.6	(79)	10.2	(66)	4.1	(63)	3.9	(88)	4.9	(93)	5.5	(94)



Total Fund Return Summary vs. Peer Universe - Net

Teachers Composite vs. InvestorForce Public DB Net



	Return (Rank)					
5th Percentile	8.0	8.8	11.7	6.8	6.2	
25th Percentile	7.2	8.0	10.8	6.2	5.6	
Median	6.6	7.4	10.1	5.6	5.1	
75th Percentile	6.1	6.9	9.1	5.0	4.6	
95th Percentile	5.0	5.8	7.7	4.1	3.6	
# of Portfolios	205	196	186	183	178	
Teachers Composite	5.6	(88) 6.7	(82) 10.6	(37) 4.8	(85) 4.0	(90)
Policy Index	5.3	(93) 6.2	(94) 9.1	(77) 4.4	(90) 4.1	(89)
× Allocation Index	5.1	(94) 6.0	(95) 9.4	(71) 4.6	(88) 4.0	(90)



Total Fund Return Summary vs. Peer Universe - Net

Teachers Composite vs. InvestorForce Public DB Net

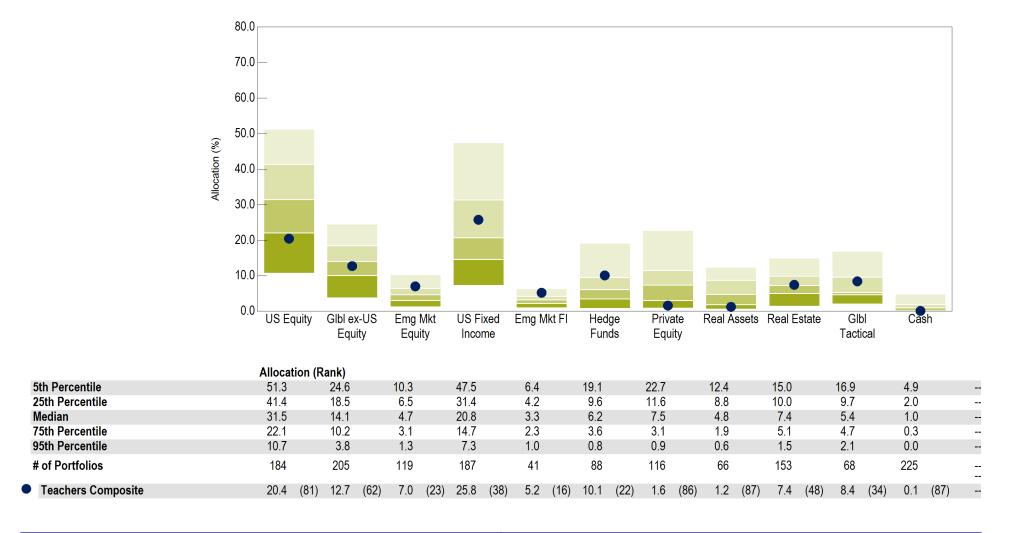


	Return (Rank)										
5th Percentile	2.8		4.4		18.6		15.0	4.4		24.4	
25th Percentile	1.4		3.6		16.7		12.9	1.9		22.1	
Median	0.4		2.8		15.5		11.3	0.9		19.5	
75th Percentile	-0.9		1.6		14.1		9.9	0.0		15.9	
95th Percentile	-2.9		-0.1		11.9		7.4	-2.9		12.2	
# of Portfolios	258		231		173		192	147		137	
Teachers Composite	1.4	(26)	-0.3	(96)	13.8	(83)	8.0 (9	4) 1.9	(26)	20.4	(39)
▲ Policy Index	1.4	(25)	0.1	(94)	13.7	(84)	7.7 (9	4) 0.9	(51)	18.5	(61)
× Allocation Index	0.9	(37)	0.0	(95)	13.1	(91)	8.0 (9	4) 0.6	(59)	18.4	(63)



Total Fund Allocation vs. Peer Universe - Net

Total Plan Allocation vs. InvestorForce Public DB Net
As of March 31, 2017





Total Fund Risk Statistics vs. Peer Universe - Net

Teachers Composite vs. IFx Public DB Net 3 Years

Anizd Return AnIzd Standard Deviation Anizd Alpha Sharpe Ratio 3.6 2.6 1.4 7.7 4.1 2.1 7.2 1.3 4.6 6.7 1.6 1.2 5.1 1.1 1.1 6.2 Anlzd Alpha 6.0 -0.4 -0.9 5.6 Sharpe Ratio 1.0 5.7 6.1 0.9 5.2 6.6 8.0 4.7 7.1 0.7 4.2 7.6 -1.4 0.6 3.7 8.1 -1.9 3.2 0.5 8.6 -2.4 0.4 2.7 9.1 -2.9 0.3 2.2 Teachers Composite Teachers Composite Teachers Composite Teachers Composite Value -0.03 Value 0.72 Value Value 4.19 5.58 Rank 43 Rank 68 82 Rank 23 Rank Policy Index ▲ Policy Index ▲ Policy Index ▲ Policy Index Value Value 0.00 0.73 Value 5.28 Value 4.04 Rank 65 Rank 42 Rank 11 Rank 86 × Allocation Index × Allocation Index × Allocation Index × Allocation Index Value 0.68 Value -0.27 Value 3.90 Value 5.47 Rank 74 Rank 53 19 Rank 88 Rank Universe Universe Universe Universe 5th %tile 1.07 5th %tile 1.23 5th %tile 6.26 5th %tile 4.64 25th %tile 0.91 25th %tile 0.44 25th %tile 5.64 25th %tile 5.61 Median 0.79 Median -0.14 Median 6.23 Median 5.02 75th %tile 0.68 75th %tile -0.75 75th %tile 6.83 75th %tile 4.37 95th %tile 0.48 7.69 95th %tile -1.89 95th %tile 95th %tile 3.25



Total Fund Risk Statistics vs. Peer Universe - Net

Teachers Composite vs. IFx Public DB Net 5 Years





Total Fund Risk Statistics vs. Peer Universe - Net

Teachers Composite vs. IFx Public DB Net 7 Years





Total Fund Risk Statistics vs. Peer Universe - Net

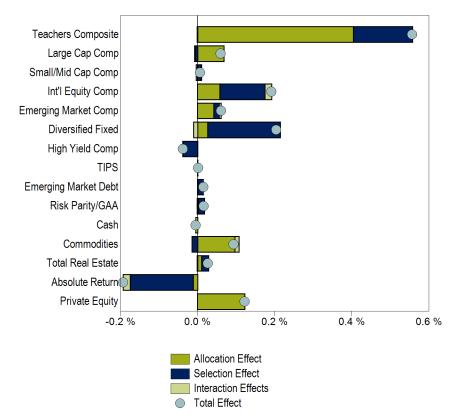
Teachers Composite vs. IFx Public DB Net 10 Years

Anizd Return AnIzd Standard Deviation Anizd Alpha Sharpe Ratio 6.0 1.1 7.6 2.6 1.0 7.1 2.1 7.0 0.9 6.6 1.6 8.0 6.1 8.0 1.1 0.7 5.6 0.6 0.6 9.0 5.1 0.1 0.5 4.6 -0.4 10.0 0.4 4.1 -0.9 0.3 3.6 -1.4 11.0 0.2 -1.9 3.1 0.1 -2.4 2.6 12.0 Teachers Composite Teachers Composite Teachers Composite Teachers Composite Value 0.33 Value -0.46 Value Value 4.04 10.52 Rank 91 Rank 71 90 Rank 78 Rank ▲ Policy Index Policy Index ▲ Policy Index ▲ Policy Index Value 0.37 Value 0.00 Value 9.39 Value 4.06 Rank 80 Rank 54 Rank 45 Rank 89 × Allocation Index × Allocation Index × Allocation Index × Allocation Index Value 0.36 Value -0.15 Value 4.03 Value 9.69 Rank 85 Rank 58 52 Rank 90 Rank Universe Universe Universe Universe 5th %tile 0.81 5th %tile 1.52 5th %tile 6.24 5th %tile 6.55 25th %tile 0.58 25th %tile 0.63 25th %tile 8.23 25th %tile 5.62 0.48 Median Median 0.11 Median 9.67 Median 5.14 75th %tile 0.39 75th %tile -0.64 75th %tile 10.45 75th %tile 4.58 95th %tile 0.31 95th %tile -1.37 95th %tile 11.38 95th %tile 3.64



Total Fund Attribution Analysis - Net

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



Attribution Summary 3 Months Ending March 31, 2017

	Wtd. , Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Large Cap Comp	5.8%	5.9%	-0.1%	0.0%	0.1%	0.0%	0.1%
Small/Mid Cap Comp	2.5%	2.4%	0.2%	0.0%	0.0%	0.0%	0.0%
Int'l Equity Comp	8.5%	7.4%	1.1%	0.1%	0.1%	0.0%	0.2%
Emerging Market Comp	11.7%	11.4%	0.3%	0.0%	0.0%	0.0%	0.1%
Diversified Fixed	1.8%	0.8%	1.0%	0.2%	0.0%	0.0%	0.2%
High Yield Comp	2.0%	2.7%	-0.7%	0.0%	0.0%	0.0%	0.0%
TIPS	1.3%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0%
Emerging Market Debt	4.2%	3.9%	0.3%	0.0%	0.0%	0.0%	0.0%
Risk Parity/GAA	4.6%	4.4%	0.1%	0.0%	0.0%	0.0%	0.0%
Cash	0.0%	0.1%	-0.1%	0.0%	0.0%	0.0%	0.0%
Commodities	-2.8%	-2.3%	-0.4%	0.0%	0.1%	0.0%	0.1%
Total Real Estate	1.8%	1.6%	0.2%	0.0%	0.0%	0.0%	0.0%
Absolute Return	0.6%	2.4%	-1.8%	-0.2%	0.0%	0.0%	-0.2%
Private Equity	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
Total	4.1%	3.5%	0.6%	0.2%	0.4%	0.0%	0.6%

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 policyindex asset weights the underlying policy indices of each option in the plan and the respective benchmark.

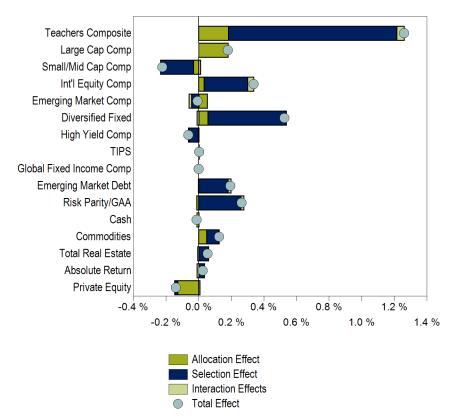
The allocation, selection, and interaction effects are calculated using the custom index described above alongwith the policy or target weight of each composite. May not add up due to rounding.

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 1 Year Ending March 31, 2017



Attribution Summary 1 Year Ending March 31, 2017

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Large Cap Comp	17.3%	17.3%	0.0%	0.0%	0.2%	0.0%	0.2%
Small/Mid Cap Comp	20.6%	24.8%	-4.2%	-0.2%	0.0%	0.0%	-0.2%
Int'l Equity Comp	14.6%	12.0%	2.6%	0.3%	0.0%	0.0%	0.3%
Emerging Market Comp	16.2%	17.2%	-1.0%	0.0%	0.1%	0.0%	0.0%
Diversified Fixed	2.9%	0.4%	2.5%	0.5%	0.1%	0.0%	0.5%
High Yield Comp	15.3%	16.4%	-1.1%	-0.1%	0.0%	0.0%	-0.1%
TIPS	1.5%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%
Global Fixed Income Comp					0.0%		
Emerging Market Debt	12.5%	8.8%	3.7%	0.2%	0.0%	0.0%	0.2%
Risk Parity/GAA	10.2%	7.1%	3.1%	0.3%	0.0%	0.0%	0.3%
Cash	0.0%	0.4%	-0.4%	0.0%	0.0%	0.0%	0.0%
Commodities	10.9%	8.7%	2.2%	0.1%	0.0%	0.0%	0.1%
Total Real Estate	8.0%	7.3%	0.7%	0.1%	0.0%	0.0%	0.1%
Absolute Return	5.5%	5.2%	0.3%	0.0%	0.0%	0.0%	0.0%
Private Equity	12.6%	13.0%	-0.4%	0.0%	-0.1%	0.0%	-0.1%
Total	11.0%	9.7%	1.3%	1.0%	0.2%	0.0%	1.3%

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 policyindex 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 alongwith the policy or target weight of each composite. May not add up due to rounding.

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



March 31, 2017

Vermont State Teachers

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.

Vermont State Teachers

Risk Statistics - 3 Years Ending December 31, 2016 - Net

Nisk Statistics	J i Cai	3 Liluili	ig Dec	CHIDE	JI, 20	TO INC	- L						
	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Anlzd AJ	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank	Tracking Error	Rank
Teachers Composite	100.00%	4.19%	82	5.58%	23	-0.02%	42	0.72	68	1.29	43	0.85%	27
Policy Index		4.04%	86	5.28%	11	0.00%	41	0.73	65	1.29	43	0.00%	1
US Equity	20.45%	9.80%	20	10.95%	30	-0.07%	25	0.88	17	1.54	19	1.56%	2
Russell 3000		9.75%	21	10.71%	25	0.00%	24	0.90	15	1.48	23	0.00%	1
Large Cap Comp	15.36%	10.09%	18	10.52%	36	-0.36%	23	0.94	17	1.73	13	0.75%	1
S&P 500		10.37%	14	10.41%	33	0.00%	17	0.98	12	1.66	17	0.00%	1
Small/Mid Cap Comp	5.08%	9.62%	14	13.06%	46	3.71%	19	0.72	19	1.57	8	4.05%	3
Russell 2000		7.22%	39	15.68%	92	0.00%	63	0.45	56	0.78	54	0.00%	1
Int'l Equity Comp	12.71%	1.91%	41	11.54%	42	1.44%	41	0.15	40	0.27	38	2.06%	6
MSCI EAFE		0.50%	74	12.23%	77	0.00%	74	0.03	74	0.05	74	0.00%	1
Emerging Market Comp	7.01%	1.62%	60	15.28%	58	0.55%	60	0.10	60	0.18	54	5.31%	60
MSCI Emerging Markets		1.18%	65	16.11%	78	0.00%	65	0.06	65	0.12	65	0.00%	1
US Fixed Income	25.76%	3.76%	26	3.02%	61	1.41%	26	1.19	25	1.75	26	1.68%	36
BBgBarc US Aggregate TR		2.68%	52	2.94%	60	0.00%	76	0.86	58	1.17	66	0.00%	1
Diversified Fixed	17.02%	3.72%	27	3.08%	63	1.13%	29	1.16	27	1.49	40	1.22%	24
BBgBarc US Aggregate TR		2.68%	52	2.94%	60	0.00%	76	0.86	58	1.17	66	0.00%	1
Unconstrained Fixed Income	5.89%												
25% HY, 25% EMD, 50% BC Agg		3.95%	11	3.73%	50	0.00%	37	1.02	22	1.73	22	0.00%	1
High Yield Comp	4.80%	4.27%	32	5.01%	39	0.58%	38	0.82	39	1.49	46	1.65%	41
BBgBarc US High Yield TR		4.56%	25	6.08%	82	0.00%	59	0.72	56	1.62	38	0.00%	1
TIPS	3.94%	1.97%	26	4.09%	68	-0.09%	22	0.44	29	0.78	21	0.18%	4
BBgBarc US TIPS TR		2.03%	22	4.01%	67	0.00%	17	0.46	19	0.83	18	0.00%	1
Emerging Market Debt	5.21%	6.01%	8	6.28%	29	0.36%	15	0.93	11	1.47	16	1.33%	9
JP Morgan EMBI Global TR		5.73%	13	6.23%	28	0.00%	19	0.89	16	1.34	19	0.00%	1
Total Real Estate	7.44%	11.45%		4.84%		0.17%		2.33		230.97		1.14%	
NCREIF Property Index		10.58%		4.41%		0.00%		2.36		213.22		0.00%	
Absolute Return	10.08%	0.63%	75	3.18%	23	-0.92%	66	0.15	68	0.17	71	1.41%	1
HFRI Fund of Funds Composite Index		1.80%	51	3.41%	31	0.00%	51	0.48	42	0.59	45	0.00%	1
Risk Parity/GAA	8.42%	2.22%	53	7.66%	64	-0.39%	56	0.27	60	0.45	55	4.63%	40
60% MSCI World (Net) / 40% CITI WGBI		2.94%	41	7.01%	50	0.00%	51	0.40	43	0.79	33	0.00%	1



Vermont State Teachers

Risk Statistics - 5 Years Ending March 31, 2017 - Net

Teachers Composite	100.00%			Dev	Rank	Anlzd AJ	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank	Tracking Error	Rank
	100.00%	5.79%	92	5.78%	28	-0.04%	49	0.98	79	1.62	61	0.82%	20
Policy Index		5.62%	93	5.51%	18	0.00%	45	1.00	76	1.58	67	0.00%	1
US Equity	20.45%												
Russell 3000		13.18%	29	10.45%	19	0.00%	25	1.25	13	2.04	17	0.00%	1
Large Cap Comp	15.36%	13.44%	14	10.35%	30	-0.02%	20	1.29	12	2.21	10	0.77%	1
S&P 500		13.30%	18	10.20%	26	0.00%	20	1.29	11	2.12	15	0.00%	1
Small/Mid Cap Comp	5.08%	13.45%	21	12.42%	46	3.00%	29	1.07	24	2.04	14	3.50%	1
Russell 2000		12.35%	37	14.36%	86	0.00%	78	0.85	64	1.41	58	0.00%	1
Int'l Equity Comp	12.71%	6.97%	43	12.62%	50	1.46%	48	0.54	45	0.82	43	2.07%	6
MSCI EAFE		5.83%	70	13.21%	81	0.00%	79	0.43	75	0.65	72	0.00%	1
Emerging Market Comp	7.01%												
MSCI Emerging Markets		0.81%	80	15.33%	71	0.00%	81	0.04	81	0.07	79	0.00%	1
US Fixed Income	25.76%												
BBgBarc US Aggregate TR		2.34%	61	2.88%	53	0.00%	83	0.77	77	1.05	74	0.00%	1
Diversified Fixed	17.02%	3.25%	44	3.29%	65	0.76%	49	0.95	57	1.25	59	1.18%	24
BBgBarc US Aggregate TR		2.34%	61	2.88%	53	0.00%	83	0.77	77	1.05	74	0.00%	1
Unconstrained Fixed Income	5.89%												
25% HY, 25% EMD, 50% BC Agg		4.22%	35	3.83%	53	0.00%	67	1.07	40	1.58	40	0.00%	1
High Yield Comp	4.80%	6.41%	33	4.43%	30	0.90%	32	1.42	28	2.34	43	1.42%	39
BBgBarc US High Yield TR		6.82%	24	5.38%	75	0.00%	64	1.24	59	2.43	38	0.00%	1
TIPS	3.94%												
BBgBarc US TIPS TR		0.97%	36	4.64%	63	0.00%	35	0.18	26	0.24	31	0.00%	1
Emerging Market Debt	5.21%												
JP Morgan EMBI Global TR		5.25%	20	7.10%	33	0.00%	24	0.72	23	1.07	23	0.00%	1
Total Real Estate	7.44%										-		
NCREIF Property Index		10.69%		4.35%		0.00%		2.43		264.69		0.00%	
Absolute Return	10.08%	4.29%	52	3.53%	34	1.24%	45	1.18	38	1.72	40	1.49%	1
HFRI Fund of Funds Composite Index		3.22%	75	3.39%	31	0.00%	64	0.91	49	1.27	50	0.00%	1
Risk Parity/GAA	8.42%	4.02%	48	7.62%	60	-0.80%	73	0.51	67	0.76	64	4.27%	36
60% MSCI World (Net) / 40% CITI WGBI		5.44%	24	7.21%	52	0.00%	52	0.74	23	1.25	20	0.00%	1

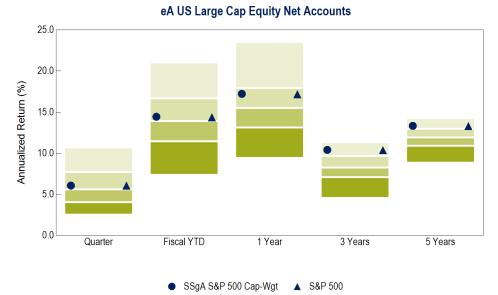


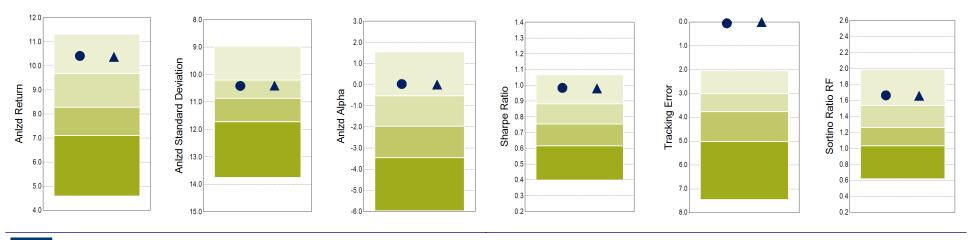
Manager Characteristics



SSgA S&P 500 Cap-Wgt

Using a replication process, we purchase each security for the Strategy in the same capitalization weight as it appears in the S&P 500 Index. Replication results in low turnover, accurate tracking, and low costs. SSgA's internal liquidity has allowed the firm to acquire many of the benchmark constituents for free. These free trading opportunities have allowed SSgA to gradually reduce security-level misweights while avoiding the open market. This process has resulted in portfolios that look and behave like the benchmark, and do so at a very low cost. SSgA's passive equity process objective is to remain fully invested in the equity market at all times. To accomplish this, it holds a small amount of unleveraged exchange-traded S&P 500® futures contracts to maintain full exposure. SSgA tends to hold approximately 1-3% of the strategy's value in suitable CFTC approved index futures contracts. This position in futures also allows the firm to accommodate cash flows into and out of the portfolio on a daily basis and to equitize dividend receivables to achieve closer tracking.







SSgA S&P 500 Cap-Wgt

Top Positive Contributors

Top Negative Contributors

				Relative			Relative	
Characteristics				Contribution	Return %		Contribution	Return %
	Portfolio	S&P 500		%			%	
Number of Holdings	507	505	APPLE	0.0%	24.6%	EXXON MOBIL	0.0%	-8.3%
Weighted Avg. Market Cap. (\$B)	151.7	151.4	VISA 'A' (V)	0.0%	14.1%	ACTIVISION BLIZZARD (ATVI)	0.0%	38.9%
Median Market Cap. (\$B)	19.9	19.9	AMAZON.COM	0.0%	18.2%	ALCOA (ARNC)	0.0%	42.4%
Price To Earnings	24.6	23.7	PRICELINE GROUP	0.0%	21.4%	TARGET (TGT)	0.0%	-22.9%
Price To Book	4.9	4.4	ORACLE	0.0%	16.5%	VIACOM 'B'	0.0%	33.4%
Price To Sales	3.6	3.3	CSX	0.0%	30.0%	WYNN RESORTS	0.0%	33.2%
Return on Equity (%)	21.0	18.8	TRANSOCEAN (RIG)	0.0%	-15.5%	SKYWORKS SOLUTIONS (SWKS)	0.0%	31.6%
Yield (%)	2.0	2.0	ADOBE SYSTEMS (ADBE)	0.0%	26.4%	DIGITAL REALTY TST.	0.0%	9.3%
Beta	1.0	1.0	FRONTIER COMMUNICATIONS (FTR)	0.0%	-34.1%	MEAD JOHNSON NUTRITION	0.0%	26.5%
R-Squared	1.0	1.0	CHESAPEAKE ENERGY (CHK)	0.0%	-15.4%	SIGNET JEWELERS	0.0%	-26.3%

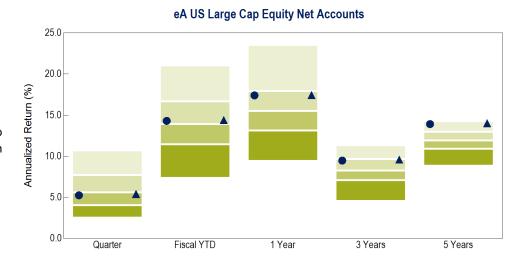
SSgA S&P 500 Cap-Wgt Performance Attribution vs. S&P 500

			Attribution Effects	i	R	leturns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	-6.8%	-6.8%	7.4%	7.4%
Materials	0.0%	0.0%	0.0%	0.0%	6.4%	6.4%	2.9%	2.9%
Industrials	0.0%	0.0%	0.0%	0.0%	4.4%	4.4%	10.3%	10.3%
Consumer Discretionary	0.0%	0.0%	0.0%	0.0%	8.5%	8.5%	12.1%	12.0%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	6.3%	6.3%	9.4%	9.4%
Health Care	0.0%	0.0%	0.0%	0.0%	8.2%	8.2%	13.6%	13.6%
Financials	0.0%	0.0%	0.0%	0.0%	2.5%	2.5%	14.9%	14.9%
Information Technology	0.0%	0.0%	0.0%	0.0%	12.6%	12.6%	20.8%	20.8%
Telecommunication Services	0.0%	0.0%	0.0%	0.0%	-4.0%	-4.0%	2.7%	2.7%
Utilities	0.0%	0.0%	0.0%	0.0%	6.4%	6.4%	3.1%	3.2%
Real Estate	0.0%	0.0%	0.0%	0.0%	3.6%	3.6%	2.8%	2.9%
Cash	0.0%						0.0%	0.0%
Portfolio	0.0%	= 0.0%	+ 0.0%	+ 0.0%	6.1%	6.1%	100.0%	100.0%

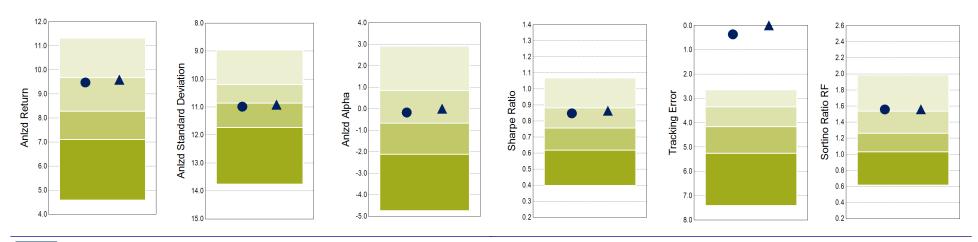


SSgA S&P 500 Equal-Wgt

The Strategy is managed using a "passive" or "indexing" investment approach, by which SSgA attempts to match, before expenses, the performance of the Index. SSgA will typically attempt to invest in the securities comprising the Index, in the same proportions as they are represented in the Index. In some cases, it may not be possible or practicable to purchase all of the securities comprising the Index, or to hold them in the same weightings as they represent in the Index. In those circumstances, SSqA may employ a sampling or optimization technique to construct the portfolio in question. From time to time securities are added to or removed from the Index. SSgA may sell securities that are represented in the Index, or purchase securities that are not yet represented in the Index, in anticipation of their removal from or addition to the Index. The Strategy may at times purchase or sell futures contracts on the Index, or options on those futures, or engage in other transactions involving the use of derivatives, in lieu of investment directly in the securities making up the Index or to enhance the Strategy's replication of the Index return. The Strategy's return may not match the return of the Index.



● SSgA S&P 500 Equal-Wgt ▲ S&P 500 Equal Weighted





SSgA S&P 500 Equal-Wgt

Top Positive Contributors

Top Negative Contributors

				Relative			Relative	
Characteristics				Contribution	Return %		Contribution	Return %
	Portfolio	S&P 500		%	rtotani 70		%	retuiii 70
Number of Holdings	502	505	EXXON MOBIL	0.1%	-8.3%	APPLE (AAPL)	-0.7%	24.6%
Weighted Avg. Market Cap. (\$B)	41.0	151.4	NRG ENERGY (NRG)	0.1%	52.8%	FACEBOOK CLASS A (FB)	-0.3%	23.5%
Median Market Cap. (\$B)	19.5	19.9	CHEVRON (CVX)	0.1%	-7.9%	AMAZON.COM	-0.2%	18.2%
Price To Earnings	25.0	23.7	VERIZON COMMUNICATIONS	0.1%	-7.7%	MICROSOFT (MSFT)	-0.2%	6.6%
Price To Book	4.3	4.4	GENERAL ELECTRIC	0.1%	-4.9%	JOHNSON & JOHNSON (JNJ)	-0.1%	8.8%
Price To Sales	3.1	3.3	ALCOA	0.1%	42.4%	ALPHABET 'C'	-0.1%	7.5%
Return on Equity (%)	19.2	18.8	WYNN RESORTS	0.1%	33.2%	VISA 'A'	-0.1%	14.1%
Yield (%)	1.9	2.0	VERTEX PHARMS. (VRTX)	0.1%	48.4%	ALPHABET 'A'	-0.1%	7.0%
Beta	1.0	1.0	QORVO	0.0%	30.0%	CISCO SYSTEMS (CSCO)	-0.1%	12.8%
R-Squared	0.9	1.0	PULTEGROUP	0.0%	28.6%	PROCTER & GAMBLE (PG)	-0.1%	7.7%

SSgA S&P 500 Equal-Wgt Performance Attribution vs. S&P 500

		•	Attribution Effects		R	eturns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	-7.5%	-6.8%	6.7%	7.4%
Materials	0.2%	0.0%	0.2%	0.0%	6.7%	6.4%	5.2%	2.9%
Industrials	0.3%	0.1%	0.2%	0.0%	5.2%	4.4%	13.8%	10.3%
Consumer Discretionary	-0.2%	-0.4%	0.4%	-0.1%	5.1%	8.5%	16.4%	12.0%
Consumer Staples	-0.3%	-0.2%	-0.2%	0.1%	3.8%	6.3%	6.9%	9.4%
Health Care	0.0%	0.1%	-0.1%	0.0%	9.3%	8.2%	11.9%	13.6%
Financials	0.0%	0.1%	0.0%	0.0%	2.9%	2.5%	12.9%	14.9%
Information Technology	-1.1%	-0.2%	-1.0%	0.1%	11.6%	12.6%	13.1%	20.8%
Telecommunication Services	0.0%	-0.1%	0.1%	0.1%	-8.1%	-4.0%	1.0%	2.7%
Utilities	0.2%	0.0%	0.2%	0.0%	7.5%	6.4%	5.8%	3.2%
Real Estate	0.1%	0.0%	0.1%	0.0%	2.9%	3.6%	5.9%	2.9%
Cash	0.0%	0.0%	0.0%	0.0%	0.1%		0.5%	0.0%
Portfolio	-0.9%	= -0.7%	+ -0.3%	+ 0.1%	5.2%	6.1%	100.0%	100.0%



SSgA S&P 400

The Strategy is managed using a "passive" or "indexing" investment approach, by which SSgA attempts to match, before expenses, the performance of the Index. SSgA will typically attempt to invest in the securities comprising the Index, in the same proportions as they are represented in the Index. In some cases, it may not be possible or practicable to purchase all of the securities comprising the Index, or to hold them in the same weightings as they represent in the Index. In those circumstances, SSgA may employ a sampling or optimization technique to construct the portfolio in question. From time to time securities are added to or removed from the Index. SSgA may sell securities that are represented in the Index, or purchase securities that are not yet represented in the Index, in anticipation of their removal from or addition to the Index. The Strategy may at times purchase or sell futures contracts on the Index, or options on those futures, or engage in other transactions involving the use of derivatives, in lieu of investment directly in the securities making up the Index or to enhance the Strategy's replication of the Index return. The Strategy's return may not match the return of the Index.

25.0 20.0 15.0 5.0 5.0

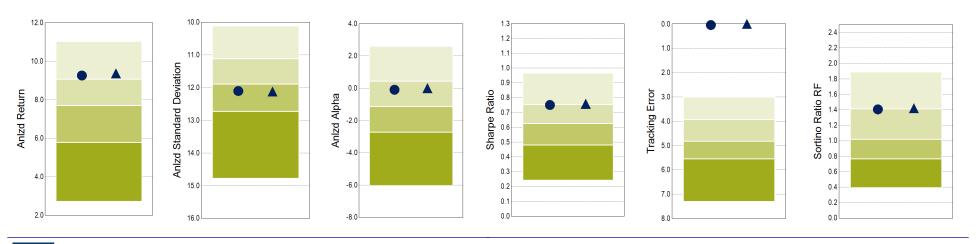
SSgA S&P 400 ▲ S&P 400 MidCap

1 Year

3 Years

Fiscal YTD

3 Year Risk Statistics



0.0

Quarter



5 Years

Top Positive Contributors

Top Negative Contributors

Characteristics				Relative			Relative	
	Portfolio	S&P 400 MidCap		Contribution %	Return %		Contribution %	Return %
Number of Holdings	399	400	LOUISIANA PACIFIC (LPX)	0.0%	31.1%	DIEBOLD	0.0%	22.5%
Weighted Avg. Market Cap. (\$B)	5.3	5.3	DENBURY RES. (DNR)	0.0%	-29.9%	GLOBUS MEDICAL CL.A	0.0%	19.4%
Median Market Cap. (\$B)	3.8	3.8	NVR	0.0%	26.2%	RESTORATION HWRE.HLDG. (RH)	0.0%	50.7%
Price To Earnings	25.1	23.9	ENERGIZER HOLDINGS (ENR)	0.0%	25.6%	TIMKEN	0.0%	14.5%
Price To Book	4.0	3.4	KENNAMETAL	0.0%	26.2%	VISTA OUTDOOR (VSTO)	0.0%	-44.2%
Price To Sales	3.0	3.0	FOSSIL GROUP (FOSL)	0.0%	-32.5%	TCF FINANCIAL	0.0%	-12.7%
Return on Equity (%)	15.3	14.1	ALIGN TECHNOLOGY (ALGN)	0.0%	19.3%	KNOWLES	0.0%	13.4%
Yield (%)	1.6	1.5	LIVE NATION ENTM. (LYV)	0.0%	14.2%	NOW	0.0%	-17.1%
Beta	1.0	1.0	HELEN OF TROY (HELE)	0.0%	11.5%	KB HOME (KBH)	0.0%	25.9%
R-Squared	1.0	1.0	TERADYNE (TER)	0.0%	22.7%	TAUBMAN CENTERS (TCO)	0.0%	-9.8%

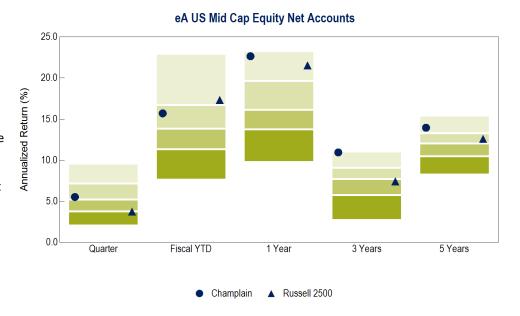
SSgA S&P 400 Performance Attribution vs. S&P 400 MidCap

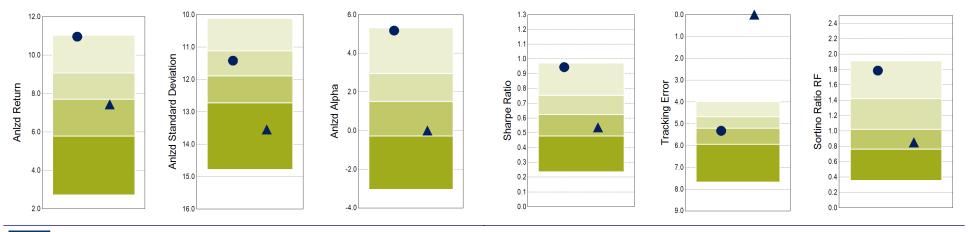
		•			•			
			Attribution Effects		Retur	ns	Sector W	eights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	-14.0%	-14.0%	4.0%	4.0%
Materials	0.0%	0.0%	0.0%	0.0%	5.6%	5.6%	7.4%	7.4%
Industrials	0.0%	0.0%	0.0%	0.0%	3.4%	3.4%	14.8%	14.8%
Consumer Discretionary	0.0%	0.0%	0.0%	0.0%	4.8%	4.8%	11.4%	11.4%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	2.0%	1.9%	4.4%	4.4%
Health Care	0.0%	0.0%	0.0%	0.0%	11.5%	11.4%	7.6%	7.6%
Financials	0.0%	0.0%	0.0%	0.0%	2.4%	2.4%	16.9%	16.9%
Information Technology	0.0%	0.0%	0.0%	0.0%	8.1%	8.1%	17.4%	17.4%
Telecommunication Services	0.0%	0.0%	0.0%	0.0%	-7.6%	-7.6%	0.2%	0.2%
Utilities	0.0%	0.0%	0.0%	0.0%	5.7%	5.7%	5.4%	5.4%
Real Estate	0.0%	0.0%	0.0%	0.0%	1.4%	1.4%	10.4%	10.4%
Cash	0.0%						0.0%	0.0%
Portfolio	0.0% =	= 0.0% +	0.0%	+ 0.0%	4.1%	4.1%	100.0%	100.0%



Champlain

Champlain employs a fundamental, bottom-up approach to investing in equity assets. They believe that superior companies purchased at attractive valuations have the highest probability to wealth creation. Champlain seeks strong businesses with credible and sincere management and aims to buy shares of their stock at discounts to fair or intrinsic value. Portfolio construction applies sector weight quidelines and position size rules to manage risk. The portfolio will have some exposure to at least seven out of the eight largest sectors of the S&P 400, with a maximum weighting on 25% in any one sector. Individual positions will not represent more than 2% of the respective companies' outstanding shares and are limited to no more than 5% of assets under management. The portfolio typically holds 50-75 securities with average position sizes of 2%. The strategy's minimum market cap is \$1.5 billion at purchase and a maximum market cap of \$15 billion. In general, no more than 10% of portfolio in stocks with a market cap below \$2B and no more than 5% of portfolio in companies with market cap above \$20B.







Champlain

Top Positive Contributors

Top Negative Contributors

Characteristics											
	Portfolio	Russell 2500									
Number of Holdings	61	2,440									
Weighted Avg. Market Cap. (\$B)	9.5	4.6									
Median Market Cap. (\$B)	8.0	1.1									
Price To Earnings	32.1	24.4									
Price To Book	4.9	3.2									
Price To Sales	3.6	3.2									
Return on Equity (%)	13.9	12.1									
Yield (%)	1.0	1.4									
Beta	0.8	1.0									
R-Squared	0.9	1.0									

	Relative Contributio n %	Return %
RED HAT (RHT)	0.6%	24.1%
ROCKWELL AUTOMATION	0.5%	16.4%
MEAD JOHNSON NUTRITION	0.4%	26.5%
TREEHOUSE FOODS	0.4%	17.3%
WORKDAY CLASS A (WDAY)	0.3%	26.0%
COOPER COS.	0.3%	14.3%
SPLUNK	0.3%	21.8%
LABORATORY CORP.OF AM. HDG. (LH)	0.3%	11.8%
ALIGN TECHNOLOGY (ALGN)	0.3%	19.3%
WATERS (WAT)	0.2%	16.3%

	Relative	
	Contribution %	Return %
SALLY BEAUTY HOLDINGS (SBH)	-0.4%	-22.6%
ADV.AUTO PARTS (AAP)	-0.3%	-12.3%
PALO ALTO NETWORKS (PANW)	-0.2%	-9.9%
WEX	-0.2%	-7.3%
AKAMAI TECHS.	-0.1%	-10.5%
DENBURY RES.	-0.1%	-29.9%
WABTEC (WAB)	-0.1%	-5.9%
NORTHERN TRUST	-0.1%	-2.4%
WHOLE FOODS MARKET (WFM)	-0.1%	-2.9%
FLOWERS FOODS	-0.1%	-2.0%

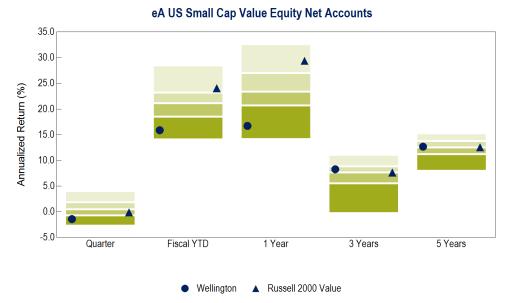
Champlain Performance Attribution vs. Russell 2500

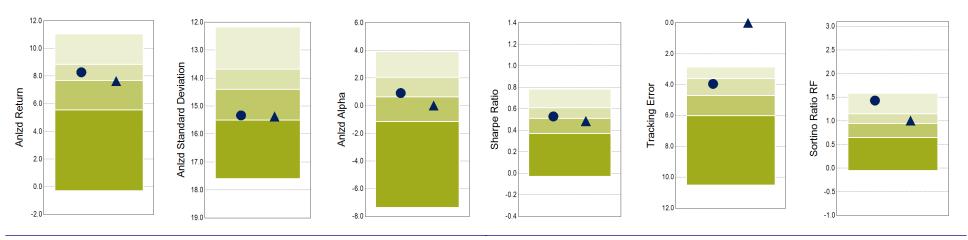
		Attribution Effects				F	leturns	Sector Weights		
	Total	Selection	Allo	ocation	Interaction					
	Effects	Effect		Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark	
Energy	0.2%	0.0%		0.3%	0.0%	-10.0%	-9.1%	2.0%	4.9%	
Materials	-0.3%	-0.1%		-0.3%	0.0%	5.3%	6.4%	1.8%	6.1%	
Industrials	0.7%	0.6%		0.0%	0.0%	7.4%	3.3%	17.0%	15.8%	
Consumer Discretionary	-1.3%	-2.0%		-0.2%	0.9%	-11.6%	4.2%	6.7%	12.5%	
Consumer Staples	0.9%	0.2%		-0.1%	0.7%	6.2%	-0.6%	14.5%	3.5%	
Health Care	0.9%	-0.1%		1.0%	-0.1%	10.5%	11.3%	19.5%	10.6%	
Financials	0.0%	0.0%		0.0%	0.0%	1.2%	1.0%	15.7%	17.8%	
Information Technology	1.1%	0.6%		0.4%	0.2%	11.6%	7.5%	19.3%	14.6%	
Telecommunication Services	0.1%			0.1%	-		-8.5%	0.0%	0.6%	
Utilities	-0.2%			-0.2%			6.0%	0.0%	3.7%	
Real Estate	-0.2%			-0.2%	-		1.6%	0.0%	9.8%	
Cash	0.0%	0.0%		0.0%	0.0%	0.1%		3.5%	0.0%	
Portfolio	2.0%	= -0.7%	+	0.7%	+ 1.9%	5.7%	3.8%	100.0%	100.0%	



Wellington

Wellington's investment objective is to seek long-term total returns in excess of the Russell 2000 Value Index by investing in conservatively-valued securities of high-quality, small cap companies. Wellington employ a bottom-up stock selection process that utilizes Wellington Management's proprietary, fundamental research to identify undervalued companies that have the potential for significant longer-term rewards. The investment universe consists of all stocks generally between US\$100 million and US\$2 billion in market capitalization. These stocks are reviewed for certain financial and valuation requirements that correspond with our investment process and philosophy. The Small Cap Value Team conducts their own proprietary research and leverages the broader research of the firm as appropriate. The Portfolio is expected to have a lower P/E ratio and other value-oriented characteristics relative to the overall small cap market, with a similar market capitalization. The return on equity is expected to be higher than the small cap value indexes, consistent with the high-quality focus.







Wellington

Top Positive Contributors Top Negative Contributors Characteristics

Characteristics		Russell		Relative			Relative	
	Portfolio	2000 Value		Contributio n %	Return %		Contribution %	Return %
Number of Holdings	76	1,352	ALSP.HLTHCR.SLTN.	0.3%	24.2%	FRED'S 'A'	-0.4%	-29.2%
Weighted Avg. Market Cap. (\$B)	1.7	2.1	COHERENT (COHR)	0.2%	49.7%	ESSENDANT (ESND)	-0.4%	-26.8%
Median Market Cap. (\$B)	1.3	0.7	DIEBOLD	0.2%	22.5%	BABCOCK & WILCOX ENTS. (BW)	-0.3%	-43.7%
Price To Earnings	27.0	20.8	CHAS.RVR.LABS.INTL. (CRL)	0.2%	18.1%	INTERNATIONAL BCSH. (IBOC)	-0.3%	-12.4%
Price To Book	2.2	1.8	TYMAN (UKIR:TYMN)	0.2%	18.1%	CATO 'A'	-0.3%	-26.0%
Price To Sales	2.3	2.7	MULTI PACKAGING SOLUTIONS	0.2%	25.9%	MATTHEWS INTL.'A' (MATW)	-0.2%	-11.7%
Return on Equity (%)	8.0	7.3	INTERNATIONAL ORD SHS (MPSX)	0.270		TRIMAS	-0.2%	-11.7%
Yield (%)	1.6	1.7	CUBIC	0.2%	10.4%	MISTRAS GROUP	-0.2%	-16.7%
Beta	1.0	1.0	CORVEL	0.1%	18.9%	BELDEN (BDC)	-0.2%	-7.4%
R-Squared	0.9	1.0	DORIAN LPG (LPG)	0.1%	28.3%	MUELLER INDUSTRIES (MLI)	-0.2%	-6.4%
			GREIF 'A' (GEF)	0.1%	8.2%	•		

Wellington Performance Attribution vs. Russell 2000 Value

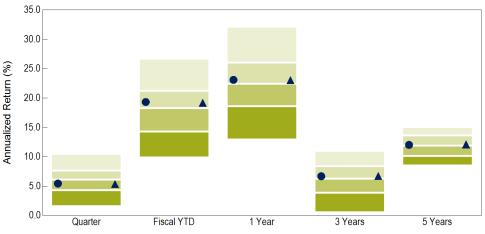
			Attribution Effects	5	R	eturns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.5%	0.4%	0.1%	-0.1%	-2.5%	-9.7%	4.7%	6.0%
Materials	0.3%	0.2%	0.0%	0.1%	6.4%	2.3%	6.1%	4.7%
Industrials	-1.1%	-0.5%	0.1%	-0.7%	-3.3%	0.5%	32.2%	12.8%
Consumer Discretionary	-0.8%	-1.9%	0.0%	1.0%	-19.7%	-0.7%	4.2%	9.7%
Consumer Staples	-0.2%	-0.2%	0.0%	0.0%	-9.5%	-2.7%	2.6%	2.9%
Health Care	0.3%	0.0%	0.3%	0.0%	8.7%	9.2%	7.4%	4.3%
Financials	-0.3%	-0.9%	0.3%	0.4%	-5.1%	-2.2%	20.8%	33.3%
Information Technology	-0.5%	-0.5%	-0.1%	0.0%	1.7%	6.5%	8.9%	9.7%
Telecommunication Services	0.1%		0.1%			-9.2%	0.0%	0.7%
Utilities	-0.1%	0.2%	-0.2%	-0.1%	8.5%	5.1%	2.9%	6.1%
Real Estate	0.0%	0.0%	0.1%	0.0%	-1.7%	-1.2%	5.1%	9.8%
Cash	0.0%	0.0%	0.0%	0.0%	0.1%		5.0%	0.0%
Portfolio	-1.8%	= -3.2%	+ 0.8%	+ 0.6%	-1.9%	-0.1%	100.0%	100.0%



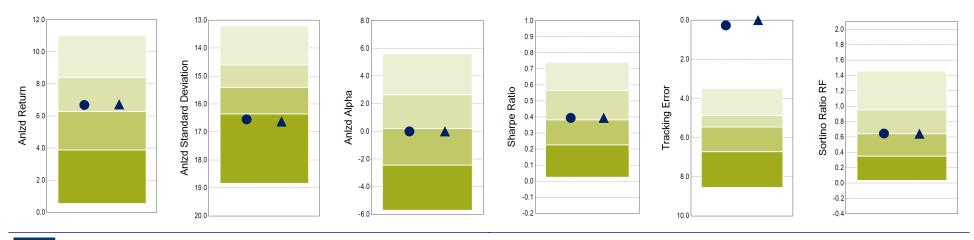
SSgA Russell 2000 Growth

The Strategy is managed using a "passive" or "indexing" investment approach, by which SSgA attempts to match, before expenses, the performance of the Index. SSgA will typically attempt to invest in the securities comprising the Index, in the same proportions as they are represented in the Index. In some cases, it may not be possible or practicable to purchase all of the securities comprising the Index, or to hold them in the same weightings as they represent in the Index. In those circumstances, SSqA may employ a sampling or optimization technique to construct the portfolio in question. From time to time securities are added to or removed from the Index. SSgA may sell securities that are represented in the Index, or purchase securities that are not yet represented in the Index, in anticipation of their removal from or addition to the Index. The Strategy may at times purchase or sell futures contracts on the Index, or options on those futures, or engage in other transactions involving the use of derivatives, in lieu of investment directly in the securities making up the Index or to enhance the Strategy's replication of the Index return. The Strategy's return may not match the return of the Index.

eA US Small Cap Growth Equity Net Accounts



SSgA Russell 2000 Growth ▲ Russell 2000 Growth





SSgA Russell 2000 Growth

Characteristics			Top Positive Co	ntributors	Top Negative Contributors			
Characteristics	Portfolio	Russell 2000		Relative Contribution %	Return %		Relative Contributio n %	Return %
Number of Holdings	1,130	Growth 1,157	DDEIWINDO		7.00/	AVENUE OFF OUR (AVIVA)		50.00/
Weighted Avg. Market Cap. (\$B)	2.4	2.4	DREW INDS. SMITH & WESSON HLDG.	0.0% 0.0%	-7.0% -6.0%	AVEXIS ORD SHS (AVXS) INVITAE	0.0% 0.0%	59.3% 39.3%
Median Market Cap. (\$B)	0.9	0.9	CHAMBERS STREET PROPS.	0.0%	-3.1%	AMAG PHARMACEUTICALS	0.0%	-35.2%
Price To Earnings	29.9	29.9	SPECTRUM PHARMS. (SPPI)	0.0%	46.7%	LA JOLLA PHARM.	0.0%	70.3%
Price To Book	4.9	4.8	COHERENT (COHR)	0.0%	49.7%	NEKTAR THERAPEUTICS (NKTR)	0.0%	91.3%
Price To Sales	3.8	3.5	CHEMOURS (CC)	0.0%	74.4%	TG THERAPEUTICS (TGTX)	0.0%	150.5%
Return on Equity (%)	17.1	14.7	INVENTURE FOODS (SNAK)	0.0%	-55.1%	THE TRADE DESK ORD	0.0%	34.6%
Yield (%)	0.8	0.7	ADVANCED MICRO DEVC. (AMD)	0.0%	28.3%	HORIZON GLOBAL	0.0%	-42.2%
Beta	1.0	1.0	CENTURY ALUMINUM (CENX)	0.0%	48.2%	CYTOMX THERAPEUTICS (CTMX)	0.0%	57.1%
R-Squared	1.0	1.0	KITE PHARMA	0.0%	75.0%	EPIZYME (EPZM)	0.0%	41.7%

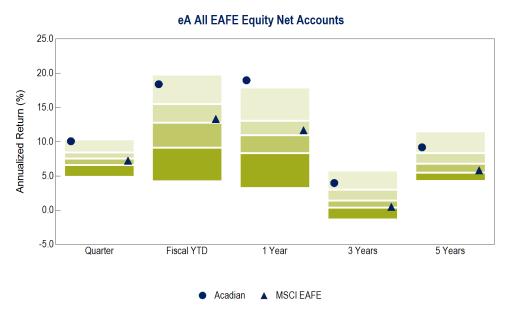
SSgA Russell 2000 Growth Performance Attribution vs. Russell 2000 Growth

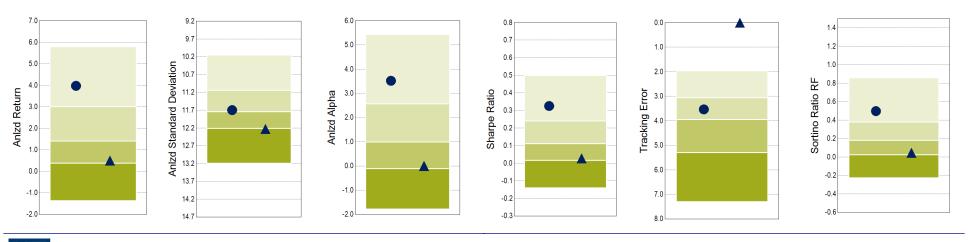
		· ·	Attribution Effects		Re	eturns	Secto	r Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	-14.5%	-14.6%	1.4%	1.4%
Materials	0.0%	0.0%	0.0%	0.0%	9.9%	9.8%	5.2%	5.2%
Industrials	0.0%	0.0%	0.0%	0.0%	1.7%	1.7%	16.6%	16.6%
Consumer Discretionary	0.1%	0.1%	0.0%	0.0%	2.6%	1.9%	14.7%	15.4%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	3.1%	3.2%
Health Care	0.0%	0.0%	0.0%	0.0%	12.3%	12.2%	20.4%	20.4%
Financials	0.0%	0.0%	0.0%	0.0%	3.2%	3.0%	5.8%	5.8%
Information Technology	0.0%	0.0%	0.0%	0.0%	5.9%	5.9%	24.8%	24.7%
Telecommunication Services	0.0%	0.0%	0.0%	0.0%	0.8%	0.8%	0.8%	0.8%
Utilities	0.0%	0.0%	0.0%	0.0%	1.7%	1.8%	0.9%	0.9%
Real Estate	0.0%	0.0%	0.0%	0.0%	2.7%	2.7%	5.5%	5.5%
Cash	0.0%	0.0%	0.0%	0.0%	0.1%		0.9%	0.0%
Portfolio	0.1%	= 0.1%	+ 0.0%	+ 0.0%	5.3%	5.2%	100.0%	100.0%



Acadian

Acadian believes that the larger the pool of potential investments, the greater the potential opportunity an active manager has to add value. They believe that stocks and markets have many attributes that are related to potential outperformance, and that a successful investment approach must be multi-faceted and highly adaptable. They believe that objectivity is crucial to investment success. Acadian's quantitative process and extensive database allows them to apply their valuation techniques to over 40,000 stocks worldwide. They do not limit the universe other than to employ screens based on invest-ability and availability of data. For example, they only evaluate stocks that have sufficient daily trading volume to be appropriate for institutional investment. Other than these practical considerations, they consider our investment universe to encompass all institutionally investable stocks in the world.







Acadian

Top Positive Contributors

Top Negative Contributors

Characteristics	Portfolio	MSCI EAFE		Relative Contribution %	Return %		Relative Contributio n %	Return %
Number of Holdings	456	929	STMICROELECTRONICS (PAR)	0.6%	35.3%	NESTLE 'R' (S:NESN)	-0.1%	6.8%
Weighted Avg. Market Cap. (\$B)	25.1	53.0	SAMSUNG ELECTRONICS (KO:SGL)	0.4%	23.5%	DAITO TST.CONSTRUCTION	-0.1%	-7.2%
Median Market Cap. (\$B)	0.8	9.4	IPSEN	0.3%	38.4%	UNILEVER CERTS.	-0.1%	21.7%
Price To Earnings	20.6	21.2	PEUGEOT (F:PGT)	0.3%	23.5%	BP SPN.ADR 1:6 (BP)	-0.1%	-6.0%
Price To Book	2.7	2.4	QANTAS AIRWAYS	0.3%	25.4%	STATOIL	-0.1%	-6.0%
Price To Sales	1.5	2.0	HOCHTIEF	0.3%	17.7%	COMMONWEALTH BK.OF AUS.	-0.1%	12.4%
Return on Equity (%)	16.1	12.5	ARISTOCRAT LEISURE	0.3%	22.1%	(A:CBAX)	-0.170	12.4/0
Yield (%)	2.6	3.0	DEUTSCHE LUFTHANSA (D:LHA)	0.2%	24.2%	ROYAL DUTCH SHELL A	-0.1%	-2.2%
Beta	0.9	1.0	MIXI	0.2%	33.7%	BERENDSEN (UKIR:BRSN)	-0.1%	-14.8%
R-Squared	0.9	1.0	KT ADR 2:1	0.2%	19.4%	GLAXOSMITHKLINE (UKIR:GSK)	-0.1%	9.0%
						BONAVISTA ENERGY	0.0%	-27.5%

Acadian Performance Attribution vs. MSCI EAFE

			Attribution Effects	S	R	Returns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	-0.1%	0.0%	-0.2%	0.1%	-1.6%	-1.7%	10.5%	5.4%
Materials	0.8%	0.4%	0.2%	0.2%	12.6%	7.6%	11.1%	7.9%
Industrials	0.9%	0.7%	0.1%	0.1%	14.0%	9.2%	15.7%	14.0%
Consumer Discretionary	0.6%	0.8%	0.0%	-0.1%	11.5%	5.2%	11.0%	12.5%
Consumer Staples	-0.6%	0.1%	-0.5%	-0.2%	9.5%	9.1%	4.2%	11.2%
Health Care	0.6%	0.5%	0.1%	0.0%	12.4%	8.7%	12.3%	10.7%
Financials	-0.6%	0.0%	-0.3%	-0.3%	6.7%	7.4%	14.8%	21.2%
Information Technology	1.6%	0.2%	0.7%	0.7%	16.2%	11.7%	14.1%	5.5%
Telecommunication Services	0.0%	0.6%	-0.1%	-0.5%	16.4%	5.1%	1.4%	4.5%
Utilities	-0.1%	0.1%	-0.1%	-0.1%	9.8%	7.8%	1.2%	3.3%
Real Estate	-0.1%	-0.1%	0.0%	0.0%	3.9%	6.1%	3.8%	3.7%
Cash	0.0%						0.0%	0.0%
Portfolio	3.1%	= 3.2%	+ -0.1%	+ 0.0%	10.4%	7.3%	100.0%	100.0%



Acadian

Country Allo	cation	

	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
Americas				
Brazil*	1.5%	0.0%	7.6%	10.4%
Canada	5.4%	0.0%	3.6%	2.5%
Mexico*	0.1%	0.0%	18.7%	16.0%
United States	0.3%	0.0%	-1.4%	6.1%
Total-Americas	7.4%	0.0%	4.4%	
Europe				
Austria	1.7%	0.2%	18.3%	9.1%
Belgium	0.6%	1.2%	16.1%	5.1%
Denmark	2.0%	1.7%	19.0%	6.5%
Finland	3.1%	1.0%	1.0%	7.7%
France	7.0%	10.1%	22.8%	7.4%
Germany	8.9%	9.3%	15.5%	8.5%
Greece*	0.1%	0.0%	23.8%	-3.5%
Ireland	1.6%	0.5%	6.0%	3.9%
Italy	2.1%	2.1%	18.0%	6.2%
Luxembourg	0.2%	0.0%	8.2%	7.3%
Netherlands	4.6%	3.3%	1.4%	11.3%
Norway	3.0%	0.7%	3.0%	1.5%
Poland*	0.3%	0.0%	10.6%	17.7%
Portugal	0.4%	0.2%	15.4%	8.2%
Spain	2.2%	3.1%	9.4%	14.7%
Sweden	4.0%	2.8%	10.7%	10.0%
Switzerland	4.1%	8.7%	14.0%	8.8%
United Kingdom	13.3%	18.2%	3.6%	5.1%
Total-Europe	59.2%	62.9%	10.5%	7.6%

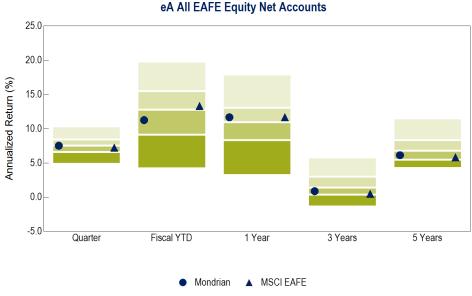
Country Allocation

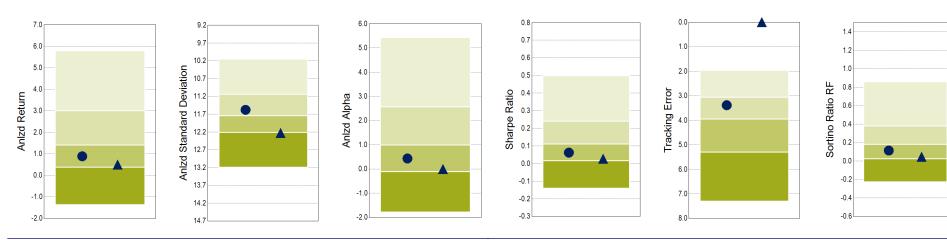
	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
AsiaPacific				
Australia	4.8%	7.5%	7.3%	11.0%
China*	0.1%	0.0%	7.3%	6.8%
Hong Kong	0.3%	3.2%	2.0%	13.2%
Japan	19.9%	24.3%	5.0%	4.5%
Korea*	3.9%	0.0%	9.1%	7.7%
Malaysia*	0.1%	0.0%	4.6%	3.1%
New Zealand	0.1%	0.2%	2.1%	2.4%
Singapore	1.2%	1.2%	10.1%	13.5%
Taiwan*	0.3%	0.0%	3.4%	5.0%
Thailand*	0.1%	0.0%	4.5%	3.7%
Total-AsiaPacific	30.7%	36.4%	6.0%	6.9%
Other				
Israel	1.0%	0.7%	3.0%	5.7%
South Africa*	1.7%	0.0%	-0.9%	2.8%
Turkey*	0.0%	0.0%	-10.7%	3.6%
Total-Other	2.7%	0.7%	0.5%	5.7%
Totals				
Developed	91.9%	100.0%	4.0%	7.3%
Emerging*	8.1%	0.0%	6.8%	



Mondrian

The firm is an active value-oriented defensive manager. The firm's value driven investment philosophy is based on the belief that investments need to be evaluated in terms of their fundamental long-term value. The firm believes that the value of a company lies in its future income stream as dividends represent the most direct form of cash flow to a shareholder. The firm uses an inflation adjusted dividend discount model to derive the underlying value of a company. This methodology is applied consistently to individual securities across all markets and industries. The universe spans markets covered in the MSCI Indices and those developing markets with adequate investor protection and good repatriation procedures. The firm will then narrow the universe to a list of more than 1000 securities on the basis of value criteria, and then further reduce this to a shorter list of approximately 250 securities annually, for detailed fundamental analysis. The screens include basic value characteristics such as price to book, price to cash flow ratio, price to earnings ratio, and yield, as well as liquidity considerations. A focus list of approximately 80 securities is then created from that list of approximately 250 through fundamental research and deliberations of the Equity Strategy Committee. It is this list of securities on which more detailed fundamental analysis and financial modeling is carried out utilizing the dividend discount model, which is based on an evaluation of a company's future income stream, which is then discounted in real terms.







Mondrian

Top Positive Contributors

Top Negative Contributors

			•					
Characteristic	S			Relative			Relative	
	Portfolio	MSCI EAFE		Contribution %	Return %		Contributio n %	Return %
Number of Holdings	55	929	G4S	0.5%	31.0%	TESCO (UKIR:TSCO)	-0.2%	-9.2%
Weighted Avg. Market Cap. (\$B)	60.2	53.0	KIRIN HOLDINGS (J:KB@N)	0.4%	15.6%	PEARSON (UKIR:PSON)	-0.2%	-15.6%
Median Market Cap. (\$B)	41.1	9.4	TAKEDA PHARMACEUTICAL (J:TA@N)	0.4%	15.2%	KINGFISHER	-0.1%	-5.8%
Price To Earnings	23.6	21.2	TELEFONICA (E:TEF)	0.3%	20.5%	BP (UKIR:BP.)	-0.1%	-7.5%
Price To Book	2.1	2.4	SYNGENTA	0.3%	11.5%	ROYAL DUTCH SHELL B	-0.1%	-4.5%
Price To Sales	1.5	2.0	SAP	0.3%	12.9%	BMW	0.0%	-2.4%
Return on Equity (%)	10.5	12.5	ABB LTD N	0.3%	10.8%	SANTEN PHARM.	0.0%	18.9%
Yield (%)	3.7	3.0	ALLIANZ (D:ALV)	0.3%	12.5%	NESTLE 'R' (S:NESN)	0.0%	6.8%
Beta	0.9	1.0	SANOFI	0.3%	11.6%	SEKISUI CHEMICAL	0.0%	5.9%
R-Squared	0.9	1.0	UNITED OVERSEAS BANK	0.3%	12.1%	ROYAL DUTCH SHELL A (H:RDSA)	0.0%	-2.2%

Mondrian Performance Attribution vs. MSCI EAFE

			Attribution Effects	3	R	Returns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	-0.1%	0.0%	-0.1%	0.0%	-2.4%	-1.7%	9.8%	5.4%
Materials	-0.3%	0.4%	-0.2%	-0.4%	11.5%	7.6%	3.0%	7.9%
Industrials	0.4%	0.8%	-0.1%	-0.3%	14.2%	9.2%	11.8%	14.0%
Consumer Discretionary	-0.8%	-0.8%	-0.1%	0.1%	-1.8%	5.2%	10.0%	12.5%
Consumer Staples	-0.3%	-0.3%	0.0%	0.0%	6.3%	9.1%	11.2%	11.2%
Health Care	0.4%	0.2%	0.1%	0.1%	11.0%	8.7%	11.8%	10.7%
Financials	-0.3%	0.1%	-0.2%	-0.2%	8.1%	7.4%	16.1%	21.2%
Information Technology	0.4%	0.0%	0.3%	0.2%	12.4%	11.7%	8.4%	5.5%
Telecommunication Services	0.6%	0.2%	0.1%	0.3%	7.8%	5.1%	10.5%	4.5%
Utilities	0.4%	0.1%	0.2%	0.1%	9.7%	7.8%	6.4%	3.3%
Real Estate	-0.1%	0.4%	-0.1%	-0.4%	17.6%	6.1%	1.0%	3.7%
Cash	0.0%		_				0.0%	0.0%
Portfolio	0.2%	= 1.0%	+ -0.3%	+ -0.5%	7.6%	7.3%	100.0%	100.0%



Mondrian

Country All	ocation
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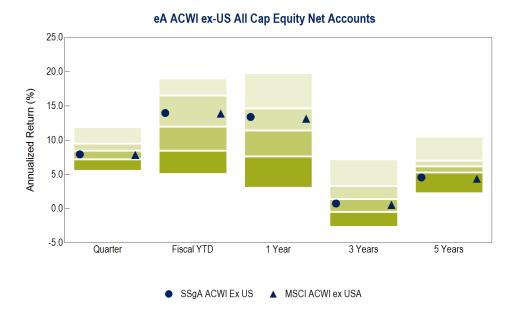
	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
Europe				
Denmark	1.0%	1.7%	15.4%	6.5%
France	7.2%	10.1%	9.3%	7.4%
Germany	9.6%	9.3%	7.4%	8.5%
Italy	4.4%	2.1%	4.4%	6.2%
Netherlands	2.2%	3.3%	1.4%	11.3%
Spain	5.3%	3.1%	15.8%	14.7%
Sweden	4.1%	2.8%	7.9%	10.0%
Switzerland	12.5%	8.7%	7.9%	8.8%
United Kingdom	25.1%	18.2%	2.3%	5.1%
Total-Europe	71.3%	62.9%	6.3%	7.6%

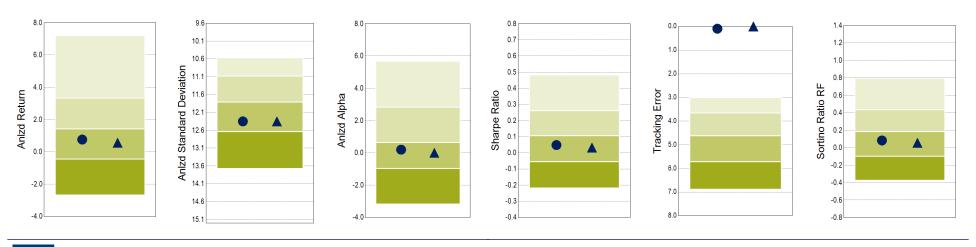
Country Allocation

	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
AsiaPacific				
Australia	1.5%	7.5%	12.2%	11.0%
Hong Kong	1.4%	3.2%	3.2%	13.2%
Japan	17.4%	24.3%	10.0%	4.5%
Singapore	6.7%	1.2%	13.8%	13.5%
Taiwan*	1.7%	0.0%	10.6%	11.8%
Total-AsiaPacific	28.7%	36.4%	10.7%	6.9%
Totals				
Developed	98.3%	100.0%	7.5%	7.3%
Emerging*	1.7%	0.0%	10.6%	

SSgA ACWI Ex US

The MSCI ACWI ex US Index Strategy tends to hold each security that is held in the benchmark index, but the strategy will not be perfectly weighted in every index constituent on a daily basis. Holding securities in the perfect weights would require increased trading and therefore would incur costs. Thus, there will be securities in the fund that are either over- or under-weighted relative to the benchmark. The individual security mis-weights are very minimal, usually within 1 basis point. However, in aggregate, these small mis-weights can add up and result in tracking error if the mis-weighted securities' performance is volatile. SSgA seek to replicate the index by attempting to hold every security in the fund in its appropriate index weight. SSgA trade only when there is a change to the Index, when we have participant cash flows, or when we receive significant dividend income into the fund.







SSgA ACWI Ex US

Characteristics			Top Positive Contri	ibutors	Top Negative Contributors			
		MSCI		Relative			Relative	
	Portfolio	ACWI ex USA		Contribution %	Return %		Contribution %	Return %
Number of Holdings	48	1,853	SIEMENS (D:SIE)	0.1%	14.9%	ROYAL DUTCH SHELL A (H:RDSA)	0.0%	-2.2%
Weighted Avg. Market Cap. (\$B)	7.0	53.1	SAP (D:SAP)	0.1%	12.9%	OAO GAZPROM SPN.ADR 1:2 (OGZPY)	0.0%	-11.7%
Median Market Cap. (\$B)	7.1	7.3	ALLIANZ (D:ALV)	0.1%	12.5%	VALEANT PHARMS. (NYS) INTL. (VRX)	0.0%	-24.0%
Price To Earnings	18.9	20.7	BAYER (D:BAYN)	0.1%	10.8%	BMW (D:BMW)	0.0%	-2.4%
Price To Book	1.7	2.5	HSBC HOLDINGS (K:HSBC)	0.0%	4.0%	LUKOIL OAO SPN.ADR 1:1 (LUKOY)	0.0%	-5.5%
Price To Sales	1.8	2.1	BASF (D:BAS)	0.0%	7.3%	POTASH CORPORATION (NYS) OF	0.0%	-4.5%
			ADIDAS (D:ADS)	0.0%	20.6%	SASKATCHEWAN (POT)	0.070	
Return on Equity (%)	13.6	13.2	INFINEON TECHNOLOGIES (D:IFX)	0.0%	19.0%	OAO TATNEFT ADR 1:6 (OAOFY)	0.0%	-10.1%
Yield (%)	2.1	2.9	BARRICK GOLD (NYS) (ABX)	0.0%	19.0%	AGRIUM (NYS) (AGU)	0.0%	-4.1%
Beta	1.0	1.0	BROOKFIELD ASSET MAN.'A' (NYS) (BAM)	0.0%	10.9%	DAEWOO SECURITIES (KO:DOS)	0.0%	34.9%
R-Squared	1.0	1.0	, , ,			KEYENCE (J:KEYE)	0.0%	16.6%

SSgA ACWI Ex US Performance Attribution vs. MSCI ACWI ex USA

		•						
			Attribution Effects		Return	ns	Sector We	eights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	-0.5%	-0.8%	7.2%	7.2%
Materials	0.0%	0.0%	0.0%	0.0%	8.4%	8.4%	8.0%	8.0%
Industrials	0.0%	0.0%	0.0%	0.0%	9.6%	9.5%	11.6%	11.7%
Consumer Discretionary	0.0%	0.0%	0.0%	0.0%	7.0%	6.9%	11.5%	11.5%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	8.6%	8.6%	9.8%	9.8%
Health Care	0.0%	0.0%	0.0%	0.0%	8.4%	8.3%	8.1%	8.1%
Financials	0.0%	0.0%	0.0%	0.0%	7.6%	7.6%	23.5%	23.4%
Information Technology	0.0%	0.0%	0.0%	0.0%	14.6%	14.6%	9.4%	9.3%
Telecommunication Services	0.0%	0.0%	0.0%	0.0%	5.9%	6.0%	4.6%	4.7%
Utilities	0.0%	0.0%	0.0%	0.0%	8.3%	8.3%	3.2%	3.1%
Real Estate	0.0%	0.0%	0.0%	0.0%	7.0%	6.8%	3.3%	3.3%
Cash	0.0%						0.0%	0.0%
Portfolio	0.1%	= 0.1%	+ 0.0%	+ -0.1%	8.0%	7.9%	100.0%	100.0%



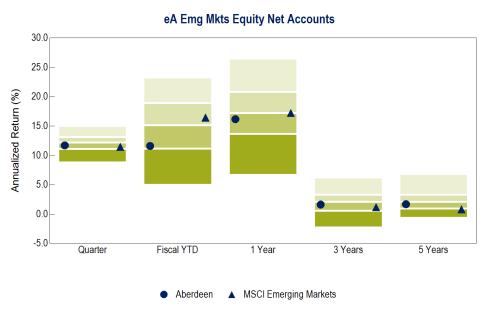
SSgA ACWI Ex US

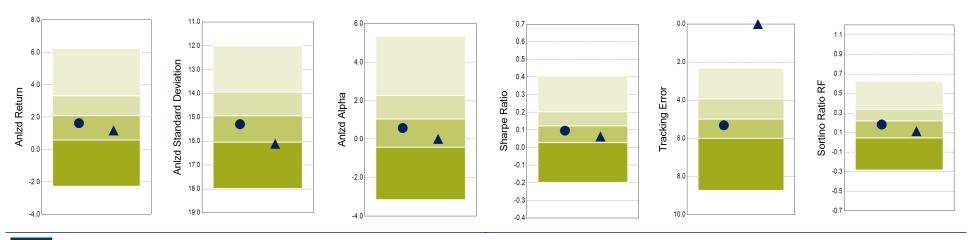
	Country Allo	ocation				Country Allo	ocation		
	Manager	Index	Manager	Index		Manager	Index	Manager	Index
	Allocation (USD) All	ocation (USD)	Return (USD)	Return (USD)		Allocation (USD) All	location (USD)	Return (USD)	Return (USD)
Americas					AsiaPacific				
Brazil*	1.8%	1.7%	10.3%	10.3%	Australia	5.2%	5.2%	11.0%	11.0%
Canada	7.1%	7.1%	2.8%	2.7%	China*	3.7%	6.0%	13.2%	13.0%
Chile*	0.3%	0.3%	16.1%	16.1%	Hong Kong	5.5%	2.3%	11.3%	13.2%
Colombia*	0.1%	0.1%	5.7%	5.7%	India*	1.9%	1.9%	17.1%	17.1%
Mexico*	0.8%	0.8%	16.1%	16.1%	Indonesia*	0.6%	0.6%	7.1%	7.1%
Peru*	0.1%	0.1%	4.0%	5.5%	Japan	16.8%	17.1%	4.5%	4.5%
United States	0.4%	0.0%	15.7%	6.1%	Korea*	3.3%	3.3%	16.7%	16.7%
Total-Americas	10.5%	10.1%	6.0%	5.5%	Malaysia*	0.6%	0.6%	8.3%	8.3%
Europe					New Zealand	0.1%	0.1%	2.4%	2.3%
Austria	0.1%	0.1%	9.1%	9.1%	Philippines*	0.3%	0.3%	6.3%	6.3%
Belgium	0.8%	0.8%	5.1%	5.1%	Singapore	0.9%	0.9%	14.8%	13.5%
Czech Republic*	0.0%	0.0%	5.6%	5.6%	Taiwan*	2.8%	2.7%	11.8%	11.8%
Denmark	1.2%	1.2%	6.5%	6.5%	Thailand*	0.5%	0.5%	11.9%	8.7%
Finland	0.7%	0.7%	7.7%	7.7%	Total-AsiaPacific	42.2%	41.5%	9.3%	9.4%
France	7.0%	7.1%	7.3%	7.4%	Other				
Germany	6.5%	6.5%	8.6%	8.5%	Egypt*	0.0%	0.0%	1.0%	1.0%
Greece*	0.1%	0.1%	-3.5%	-3.4%	Israel	0.4%	0.5%	-2.7%	5.7%
Hungary*	0.1%	0.1%	-0.1%	-0.1%	Qatar*	0.2%	0.2%	1.3%	1.3%
Ireland	0.2%	0.3%	4.5%	3.9%	South Africa*	1.6%	1.6%	4.7%	4.6%
Italy	1.4%	1.5%	6.6%	6.2%	Turkey*	0.2%	0.2%	10.9%	10.9%
Luxembourg	0.1%	0.0%	4.4%	7.9%	United Arab Emirates*	0.2%	0.2%	-0.4%	1.6%
Netherlands	2.9%	2.3%	8.5%	11.3%	Total-Other	2.6%	2.8%	3.5%	4.8%
Norway	0.5%	0.5%	1.5%	1.5%	Totals				
Poland*	0.3%	0.3%	17.7%	17.7%	Developed	79.5%	77.3%	7.1%	6.9%
Portugal	0.1%	0.1%	8.2%	8.2%	Emerging*	20.5%	22.7%	11.4%	11.4%
Russia*	1.0%	1.0%	-4.9%	-4.8%					
Spain	2.2%	2.2%	14.7%	14.7%					
Sweden	2.0%	2.0%	9.8%	10.0%					
Switzerland	6.1%	6.1%	8.8%	8.8%					
United Kingdom	11.4%	12.8%	5.8%	5.1%					
Total-Europe	44.7%	45.6%	7.4%	7.3%					



Aberdeen

Aberdeen believes, given the inefficiency of markets, that competitive long-term returns are achieved by identifying high quality stocks at attractive valuations and holding for the long term. It is their belief that sound fundamentals drive stock prices over time. They employ a fundamental bottom-up investment approach based upon a rigorous and disciplined proprietary research effort which originates with direct company due diligence visits. Portfolios are constructed to maximize their level of exposure to the most attractive companies filtered from the stock selection process. They run a representative or model' unconstrained portfolio that contains approximately 30 - 70 stocks at any given time. Once a stock has received unanimous approval by the team, the senior investment team members then decide which portfolio category it should enter (i.e. country, regional, Global Emerging Markets) and at what weighting. The Head of Global Emerging Markets then has responsibility to ensure that the decision is implemented.







Aberdeen

Characteristics		Top Positive Contr	ibutors	Top Negative Contributors				
onaraotoriono.	•	MSCI		Relative			Relative	
	Portfolio	Emerging Markets		Contribution %	Return %		Contribution %	Return %
Number of Holdings	62	830	SAMSUNG ELTN.PREF.	0.9%	20.8%	MAGNIT	-0.2%	-8.8%
Weighted Avg. Market Cap. (\$B)	34.3	56.9	HOUSING DEVELOPMENT FIN. (IN:HDF)	0.7%	24.6%	BRF BRASIL FOODS ON (BR:DG3)	-0.2%	-18.0%
Median Market Cap. (\$B)	15.7	5.1	ITC (IN:IT)	0.5%	21.2%	LUKOIL OAO ADR. (LON)	-0.1%	-4.0%
Price To Earnings	20.5	19.4	BNC.BRADESCO PF.SPN.ADR 1:1	0.5%	17.7%	TENARIS ADS. 1:2 (TS)	-0.1%	-4.4%
Price To Book	3.4	2.7	ULTRATECH CEMENT (IN:URC)	0.4%	28.1%	AMOREPACIFIC PF.	0.0%	-12.2%
Price To Sales	2.9	2.2	FOM.ECO.MEXNO.SAB DE CV SPN.ADR	0.4%	16.2%	BANK CENTRAL ASIA	0.0%	8.0%
Return on Equity (%)	19.0	15.8	1:10	0.40/	40.00/	PETROCHINA 'H' (K:PECH)	0.0%	-1.8%
,			GPO FINANCE BANORTE	0.4%	16.6%	AMOREPACIFIC GROUP (KO:PHM)	0.0%	-3.0%
Yield (%)	2.4	2.4	HANG LUNG GROUP (K:HLDV)	0.4%	22.5%	BHP BILLITON (JSE) (R:BILJ)	0.0%	-0.9%
Beta	0.9	1.0	AIA GROUP	0.4%	11.7%	KOTAK MAHINDRA BANK	0.0%	26.7%
R-Squared	0.9	1.0	LOJAS RENNER ON	0.4%	23.3%		0.070	20 70

Aberdeen Performance Attribution vs. MSCI Emerging Markets

			Attribution Effects	5	R	eturns	Secto	or Weights
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	-0.3%	-0.1%	0.0%	-0.2%	0.2%	4.3%	7.8%	7.9%
Materials	0.8%	0.6%	0.1%	0.1%	18.6%	12.0%	9.3%	7.4%
Industrials	-0.5%	0.6%	-0.4%	-0.7%	20.4%	13.6%	1.5%	5.8%
Consumer Discretionary	-0.2%	-0.1%	0.0%	-0.1%	10.4%	12.9%	10.7%	10.3%
Consumer Staples	0.8%	0.1%	0.3%	0.4%	8.1%	7.6%	17.1%	7.2%
Health Care	-0.1%	0.1%	0.0%	-0.1%	7.3%	5.5%	1.1%	2.5%
Financials	1.4%	1.1%	0.2%	0.1%	13.9%	10.0%	27.4%	24.3%
Information Technology	-2.1%	-1.2%	-1.3%	0.4%	14.6%	17.0%	12.9%	23.3%
Telecommunication Services	-0.2%	-0.1%	0.0%	-0.1%	4.9%	7.7%	5.0%	5.9%
Utilities	-0.3%		-0.2%			10.2%	0.0%	2.9%
Real Estate	0.5%	0.0%	0.4%	0.1%	11.5%	10.5%	7.1%	2.6%
Cash	0.0%		-				0.0%	0.0%
Portfolio	0.0%	= 1.0%	+ -0.8%	+ -0.2%	11.4%	11.4%	100.0%	100.0%



Aberdeen

Country Allocation	Co	untry	v Allo	cation
--------------------	----	-------	--------	--------

	Manager Allocation (USD) A	Index Allocation (USD)	Manager Return (USD)	Index Return (USD)
Americas				
Brazil*	12.1%	7.7%	13.7%	10.3%
Chile*	2.0%	1.2%	11.4%	16.1%
Mexico*	7.5%	3.6%	16.6%	16.1%
United States	1.3%	0.0%	4.1%	6.1%
Total-Americas	22.8%	13.3%	13.9%	12.1%
Europe				
Hungary*	1.1%	0.3%	7.3%	-0.1%
Luxembourg	1.7%	0.0%	-4.4%	11.4%
Poland*	1.3%	1.1%	10.6%	17.7%
Portugal	1.3%	0.0%	15.4%	8.2%
Russia*	4.9%	4.5%	-6.5%	-4.8%
United Kingdom	1.8%	0.0%	8.5%	5.0%
Total-Europe	12.1%	6.5%	1.5%	-0.2%

Country Allocation

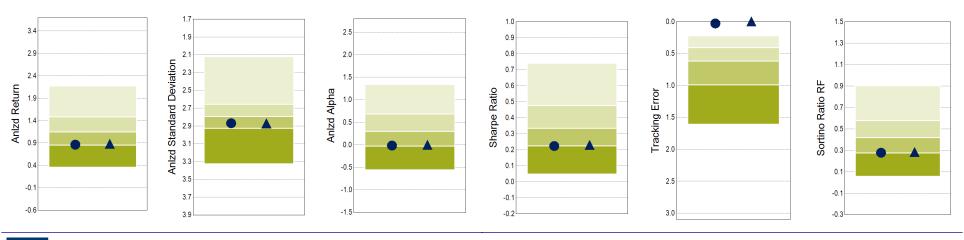
	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
AsiaPacific				
China*	1.4%	26.4%	-1.8%	13.0%
Hong Kong	11.3%	0.0%	9.9%	13.4%
India*	16.8%	8.3%	18.7%	17.1%
Indonesia*	5.2%	2.6%	6.2%	7.1%
Korea*	7.3%	14.5%	16.8%	16.7%
Malaysia*	1.3%	2.5%	8.0%	8.3%
Philippines*	3.8%	1.2%	8.3%	6.3%
Taiwan*	4.9%	12.1%	11.2%	11.8%
Thailand*	5.0%	2.3%	9.2%	8.7%
Total-AsiaPacific	57.0%	70.0%	12.7%	13.4%
Other				
South Africa*	3.8%	7.2%	10.1%	4.6%
Turkey*	4.3%	1.0%	10.2%	10.9%
Total-Other	8.1%	10.1%	10.1%	4.7%
Totals				
Developed	17.3%	0.0%	8.3%	
Emerging*	82.7%	100.0%	12.0%	11.4%



SSgA Barclays Aggregate Index

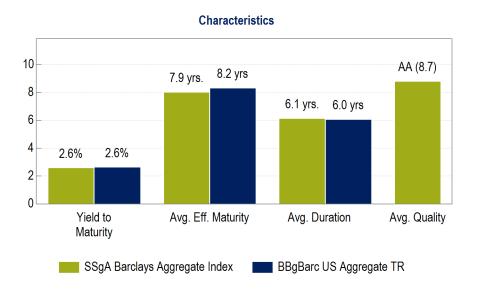


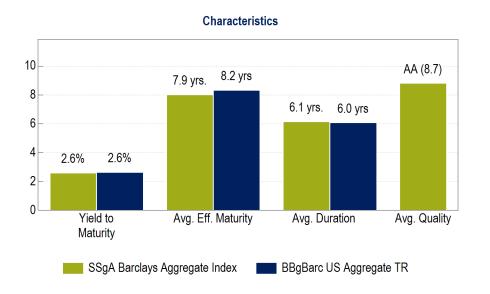
Since Inception Risk Statistics

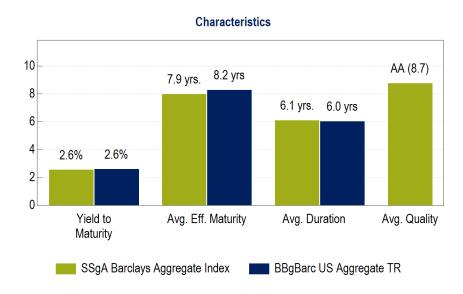




SSgA Barclays Aggregate Index

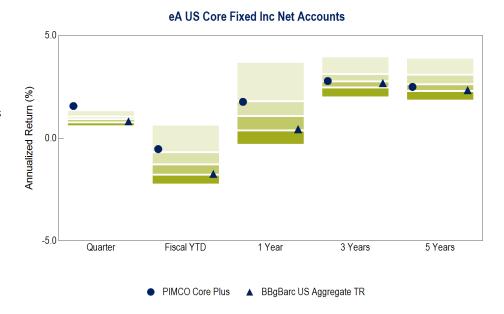


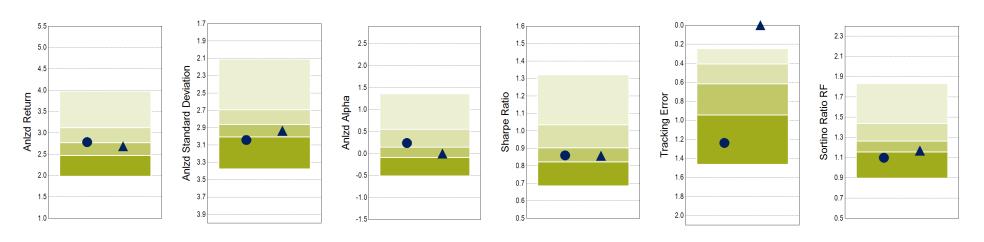




PIMCO Core Plus

PIMCO's investment process expects to generate above-benchmark returns by building diversified, risk-averse portfolios based upon their long-term secular outlook. This is achieved by analyzing fundamental global trends in such areas as political factors, inflation, volatility, growth, and currency, amongst others. The three to five-year secular outlook is the core element of their decision-making process, and serves as a framework for portfolio implementation. In applying the secular outlook to the portfolio, such tools as duration position, yield curve posture and sector allocation are expressed to best represent the firm's view on the macro-economic environment. Bottom-up analysis of specific securities is also an important part of the firm's philosophy. Bonds are evaluated on a rich/cheap basis and fundamental research determines strong portfolio candidates.

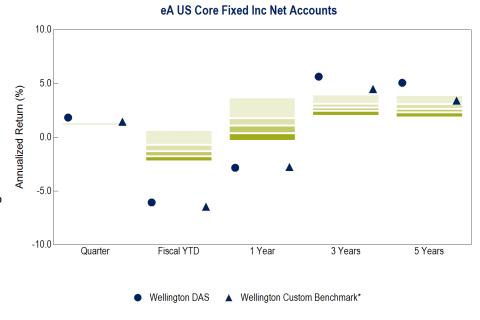


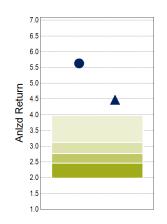


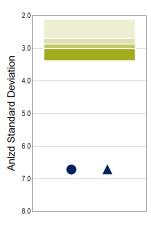


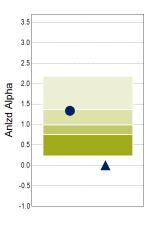
Wellington DAS

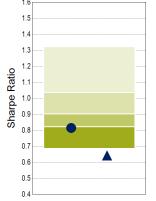
The objective of the Diversified Alpha Strategies - Absolute Return (DAS) Portfolio is to provide positive absolute returns over cash or other market exposure (beta) over rolling 3-year periods with expected volatility of 3 to 6%. The DAS Portfolio aims to provide consistent returns by investing in diverse, market-neutral alpha sources that have low or negative correlations with each other. The mix of alpha sources is rebalanced periodically, and the target mix may change over time. The DAS Portfolio can be combined with desired market (beta) exposure through the use of derivative instruments. Drawing on a diversified basket of alpha sources from across a broad investment universe, rather than a single alpha source, should increase the efficiency of the return/risk ratio and increase the likelihood of achieving consistent returns. For this reason, the DAS Portfolio includes a variety of alpha sources: market neutral equity and fixed income strategies, overlay strategies (currency, fixed income, asset allocation), and long-only equity strategies from which they try to remove structural market risk through short equity index future or swap positions. The allocation to each alpha source is determined in a contribution to risk framework in the context of the expected aggregate DAS Portfolio characteristics. The target weights of the underlying alpha sources have been set using risk budgeting, with a goal of achieving a balanced contribution to risk across the alpha sources, rather than focusing only on the absolute or percent cash allocation.

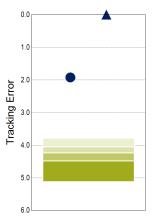


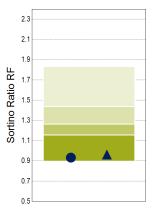








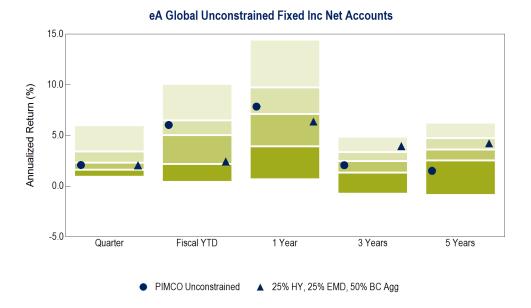


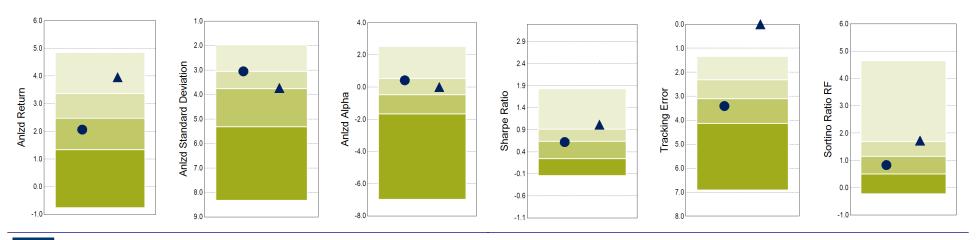




PIMCO Unconstrained

The PIMCO Unconstrained Bond Strategy is an absolute return-oriented, investment grade quality fixed income strategy that embodies PIMCO's secular thinking, global themes, and integrated investment process without the constraints of a benchmark or significant sector/instrument limitations. The strategy is designed to offer the traditional benefits of a core bond portfolio - seeks maximum long-term return consistent with capital preservation and prudent management- but with higher potential alpha and the potential to mitigate downside risk to a greater degree than what is reasonably possible from traditional active fixed income management approaches as the strategy allows for more manager discretion to adjust duration exposure, allocate across sectors and otherwise express the firm's active views. The strategy is governed by PIMCO's investment philosophy and unique, disciplined secular investment process, which focuses on long-term economic, social and political trends that may have lasting impacts on investment returns.

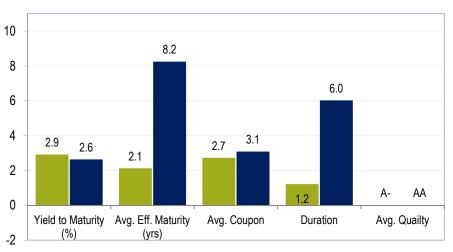






PIMCO Unconstrained





■ PIMCO Unconstrained

0.0%

BB

0.0%

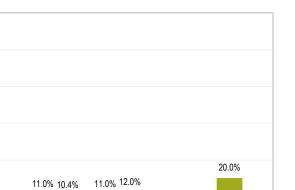
B & Less than

В

■ Barclays U.S. Agg Index

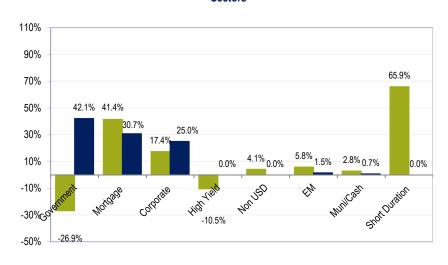
Quality Rating

Α



BBB

Sectors



Source: PIMCO



110%

90%

70%

50%

30%

10%

-10%

72.5%

15.0%

AA

39.0%

AAA

March 31, 2017

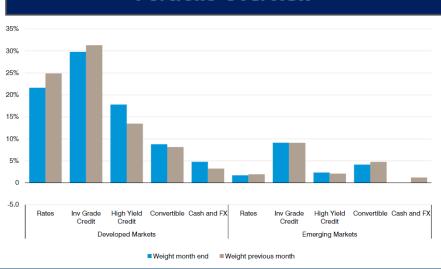
GAM Unconstrained Bond - USD GIPS Composite

Portfolio Sensitivity									
	Month end								
Investment strategy	Bond Weight (%)	Bonds Duration Contribution	Derivatives Duration Contribution	Total Duration Contribution					
Developed Markets	87.3	3.75	-2.99	0.76					
Rates	19.4	1.86	-2.99	-1.13					
Inv Grade Credit	36.4	1.40	0.00	1.40					
High Yield Credit	19.3	0.28	0.00	0.27					
Convertible	12.2	0.22	-0.01	0.21					
Cash and FX	0.0	0.00	0.01	0.01					
Emerging Markets	1.6	0.06	0.83	0.89					
Rates	1.1	0.06	0.83	0.88					
Inv Grade Credit	0.0	0.00	0.00	0.00					
High Yield Credit	0.0	0.00	0.00	0.00					
Convertible	0.4	0.01	0.00	0.01					
Cash and FX	0.0	0.00	0.00	0.00					
Total	88.9	3.81	-2.16	1.65					

Characteristics

	Month end
	GAM Unconstrained Bond Strategy*
Value at Risk % (97.5%, 22 days)	1.31
Coupon %	2.75
Yield to Maturity %	2.45
Curent Yield %	2.73
Years to Maturity	10.92
Effective Duration	1.65
Spread Duration	2.31
Equity Delta**	1.09
Currency Delta	-2.16
Credit Quality***	A-

Portfolio Overview



Source: GAM

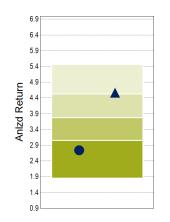


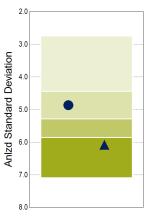
KDP

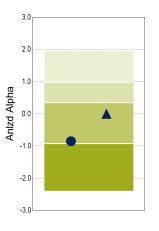
KDP believes that the key to delivering superior risk-adjusted returns lies in controlling credit risk. To do this the firm combines rigorous, bottom-up credit analysis with an active, top-down management approach that ensures a strong overall credit profile and broad portfolio diversification. KDP employs a value-oriented approach to investing that leverages our strong fundamental research capabilities, and seeks to take advantage of market inefficiencies and anomalies on an opportunistic basis in order to capture excess credit spread. KDP places a strong emphasis on issuer, industry and sector diversification, and tends to focus on larger companies, as they tend to be more resilient in times of difficulty and their securities tend to be more liquid. KDP uses a proprietary "Default Risk Ranking (DRR)" System to screen securities eligible for purchase in its portfolios. By assigning default risk probabilities to companies covered, the DRR system is used to identify securities that are overvalued or undervalued relative to the market. The firm minimizes portfolio volatility in part by investing in securities of companies that exhibit greater resilience in times of financial distress. KDP focuses on companies with good management, stable to improving earnings, good balance sheet liquidity and a strong competitive position in industries with favorable underlying fundamentals.

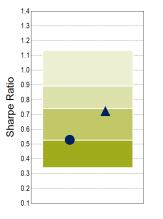


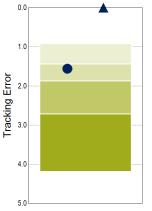
3 Year Risk Statistics

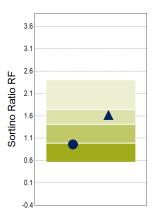




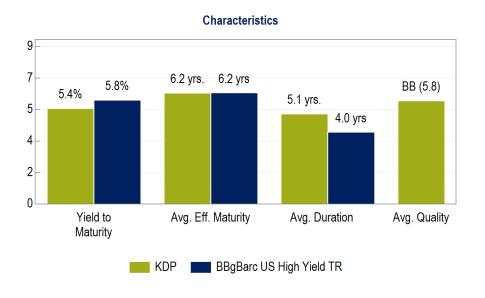


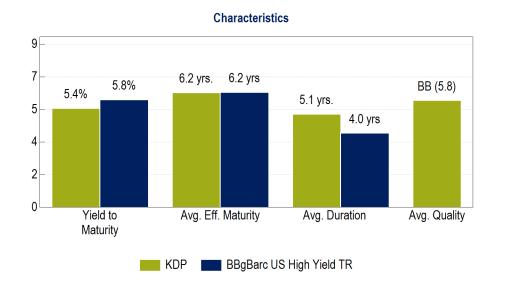


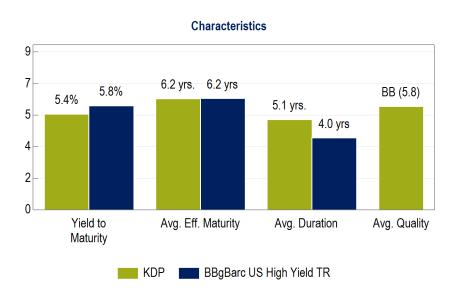








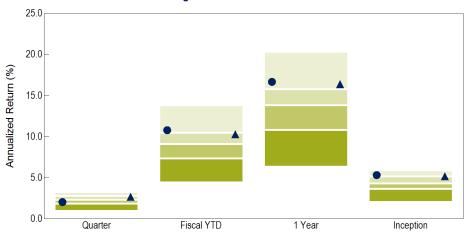






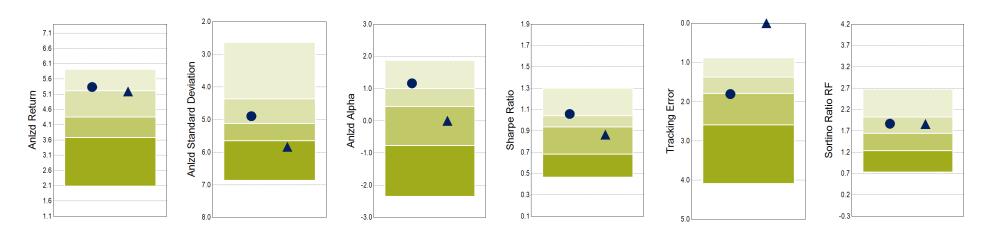
Guggenheim





● Guggenheim ▲ BBgBarc US High Yield TR

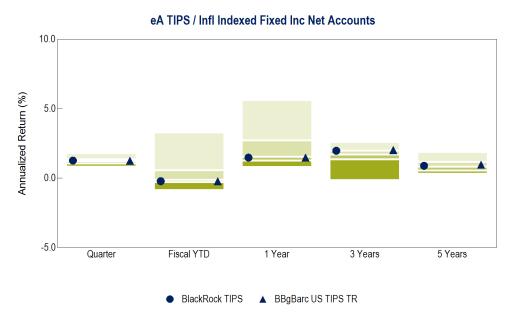
Since Inception Risk Statistics



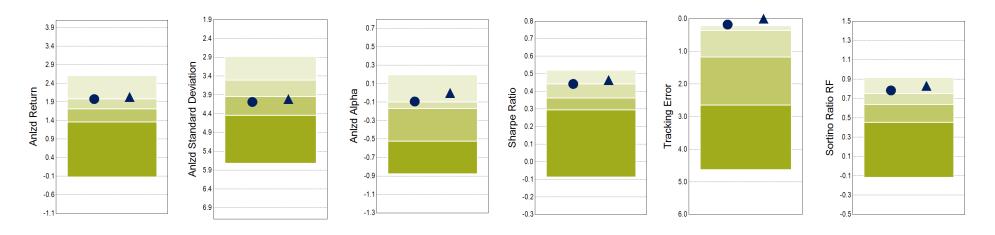


BlackRock TIPS

In the management of an inflation-linked bond portfolio, BlackRock will utilize multiple strategies to outperform the index. These include: duration and yield curve positioning, technical supply/demand anomalies related primarily to the ILB auction cycle, seasonal factors related to non-seasonally adjusted inflation-linked indices, break-even spread between ILBs and nominal securities, and, if applicable, sector and country allocation. The team compares nominal yields with real yields and factor in their views on inflation. If the yield spread is less than the inflation rate, then ILBs are considered to trade cheaply to nominal bonds and have greater relative value. The portfolio currently holds about 31 positions, out of 27-29 issues in the benchmark. Turnover is moderate, at around 100-150%.

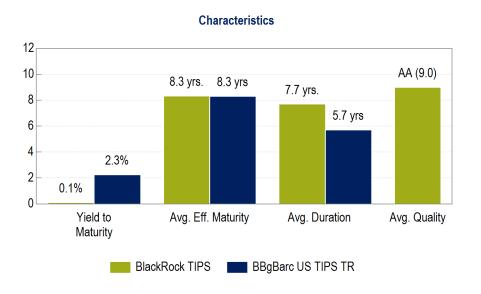


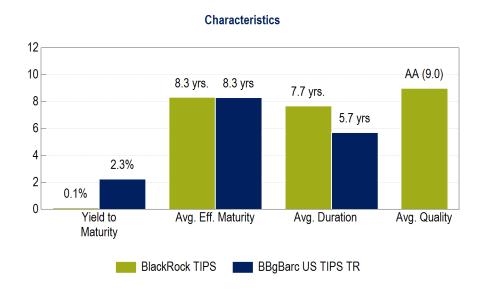
3 Year Risk Statistics

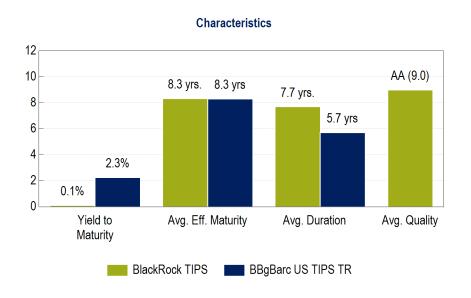




BlackRock TIPS





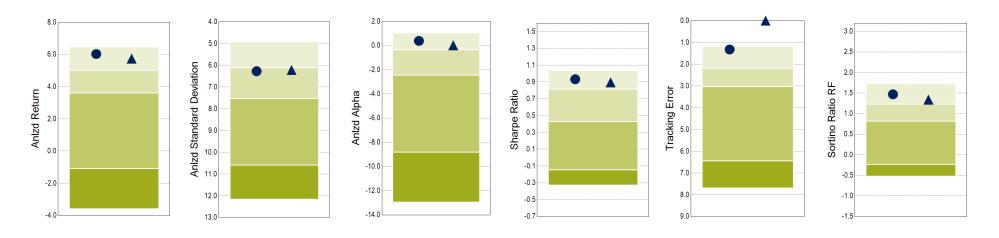




Wellington Opportunistic EMD



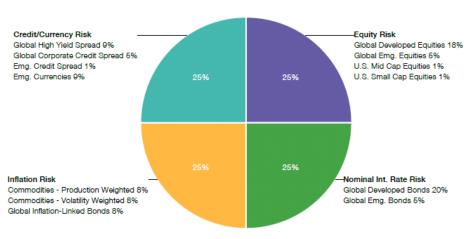
3 Year Risk Statistics





AQR Global Risk Premium Fund

Risk Allocation



Estimated Exposure Breakdown

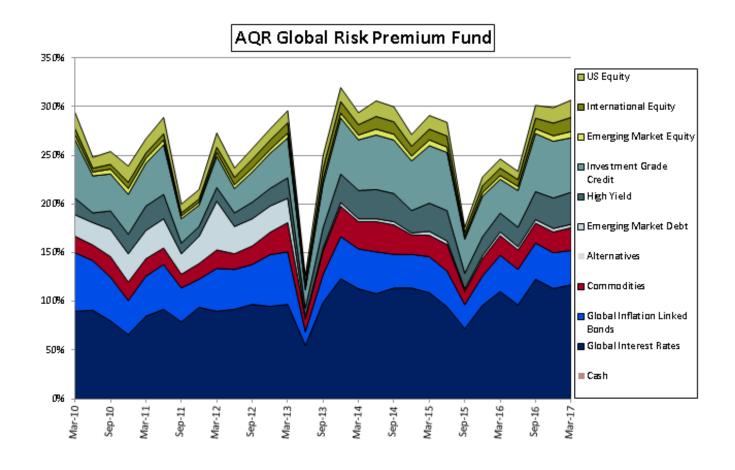
	Long Exposure (% of NAV)
Equity Risk	
Global Developed Equities	29%
Global Emerging Equities	6%
U.S. Mid Cap Equities	2%
U.S. Small Cap Equities	1%
Total Equity Risk	38%
Nominal Interest Rate Risk	
Global Developed Bonds	96%
Global Emerging Bonds	24%
Total Nominal Interest Rate Risk	119%
Inflation Risk	
Commodities - Production Weighted	9%
Commodities - Volatility Weighted	15%
Global Inflation-Linked Bonds	36%
Total Inflation Risk	59%
Credit/Currency Risk	
Global High Yield Spread	32%
Global Corporate Credit Spread	57%
Emerging Credit Spread	4%
Emerging Currencies	21%
Total Credit/Currency Risk	113%
Total Fund Exposures	330%

	Long Exposure (% of NAV
Equity Market Exposures	
Americas	23%
Europe	7%
Asia ex-Japan	6%
Japan	3%
Total Equity Market Exposures	38%
Bond Market Exposures - Nominal and Inflation	-Linked
Americas	63%
Europe	63%
Asia	29%
Total Bond Market Exposures	155%
Emerging Currency Exposures	
Asia	6%
Europe	9%
Latin America	6%
Dollar Block ex-U.S.	0%

Source: AQR

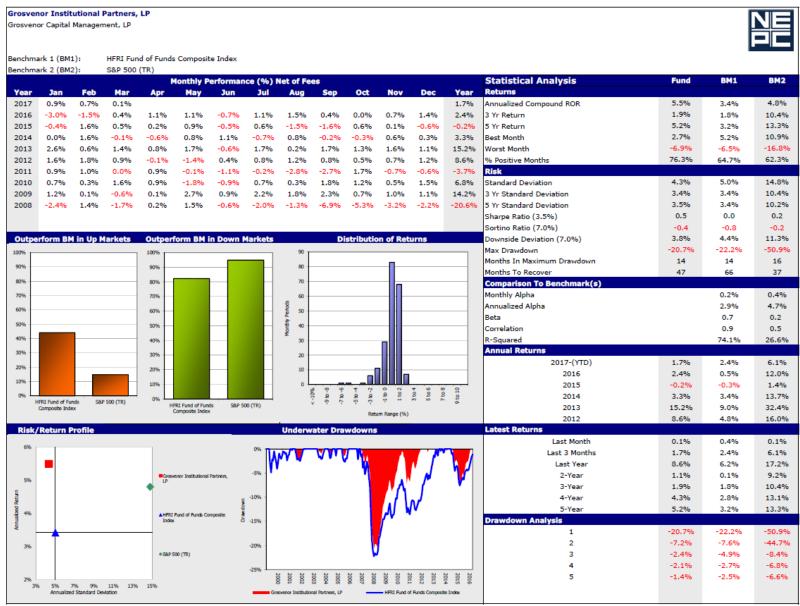


AQR Global Risk Premium Fund





Grosvenor



^{***}Past Performance is not indicative of future results. Ratios are calculated based on a risk-free rate of 3.6% Actual ratios may vary depending on the actual risk-free rate and life of the fund***



Mellon Dynamic Growth Fund

		Country	Current Month %
		Australia	7.5
		Canada	2.1
		Euro	0.0
		France	2.2
		Germany	3.7
		Hong Kong	-2.6
	Developed ex-U.S. Equity 39.5%	Italy	0.1
Growth 66.7%	33.370	Japan	12.0
		Netherlands	0.8
		Spain	2.0
		Switzerland	0.4
		United Kingdom	10.0
		Other	1.3
	U.S. Equity 22.1%	United States	22.1
	High Yield Bonds 5.1%		5.1
Defensive 34.1%	Developed ex U.S. Bonds -15.0%		-15.0
2010110110 041170	U.S. Bonds 49.1%		49.1
Real 10.9%	Commodity 6.0%		6.0
Real 10.3%	Inflation-Linked Bonds 4.9%		4.9

		Country	Current Month %
	U.S. 114.6%	United States	114.6
		Australia	5.6
		Canada	-1.6
		Denmark	0.0
Diversifying	Developed ex-U.S. -14.6%	Euro	-13.5
Strategies		Japan	1.2
Currency 100.0%		New Zealand	-2.6
		Norway	0.9
		Sweden	6.4
		Switzerland	2.4
		United Kingdom	-13.7
		Other	0.4

Source: Mellon Capital Management



^{1.} Any collective investment funds presented are maintained by The Bank of New York Mellon. Employees of Mellon Capital manage the assets of any collective investment funds in their capacity as dual officers of The Bank of New York Mellon. Not all investors may be eligible to invest in the fund(s) shown above.

Mellon Dynamic Growth Fund

		Growth					Defensive			F	Diversifying Strategies	
	Fund Return %	Developed ex-U.S. Equity	U.S. Equity	EM Equity	High Yield Bonds	EM Debt	Government Bonds ex-U.S.	U.S. Bonds	IG Corporates	Commodity	Inflation - Linked Bonds	Currency
Month-to-Date	0.60	0.97	-0.04	0.00	-0.01	0.00	0.30	0.04	0.00	-0.16	0.01	-0.50
Quarter-to-Date	3.06	2.21	0.62	0.00	0.14	0.00	-0.46	0.72	0.00	-0.01	0.07	-0.23
Year-to-Date	3.06	2.21	0.62	0.00	0.14	0.00	-0.46	0.72	0.00	-0.01	0.07	-0.23
1 Year	5.61	5.16	1.18	0.00	1.10	0.00	-1.95	-2.18	0.00	-0.24	0.03	2.50
3 Year	6.45	2.94	0.50	-0.26	0.36	-0.03	-0.83	1.13	0.03	0.07	0.08	2.46
5 Year	6.26	2.90	2.11	-0.23	0.35	-0.04	-0.49	0.70	0.08	-0.03	0.13	0.78
7 Year	-	-	-	-	-	-	-	-	-	-	-	-
10 Year	-	-	-	-	-	-	-	-	-	-	-	-
Since Inception ²	6.85	1.96	2.36	-0.10	0.25	-0.03	0.31	0.60	0.15	0.04	0.33	0.99

Source: Mellon Capital Management





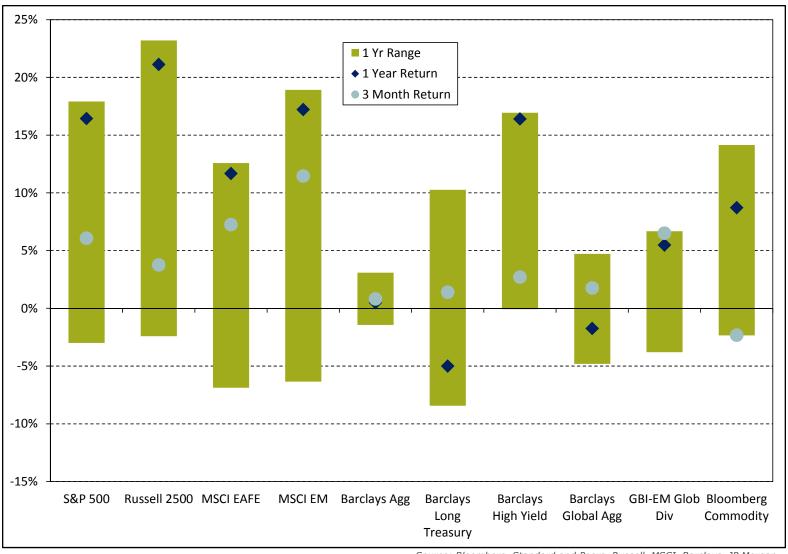
Index Performance Summary as of 03/31/2017

	2009	2010	2011	2012	2013	2014	2015	2016	Jan	Feb	Mar	YTD
MSCI EM	78.5%	18.9%	-18.4%	18.2%	-2.6%	-2.2%	-14.9%	11.2%	5.5%	3.1%	2.5%	11.4%
MSCI EAFE	31.8%	7.8%	-12.1%	17.3%	22.8%	-4.9%	-0.8%	1.0%	2.9%	1.4%	2.8%	7.2%
MSCI ACWI	34.6%	12.7%	-7.3%	16.1%	22.8%	4.2%	-2.4%	7.9%	2.7%	2.8%	1.2%	6.9%
JPM GBI-EM Global Div	22.0%	15.7%	-1.8%	16.8%	-9.0%	-5.7%	-14.9%	9.9%	2.3%	1.8%	2.3%	6.5%
S&P 500	26.5%	15.1%	2.1%	16.0%	32.4%	13.7%	1.4%	12.0%	1.9%	4.0%	0.1%	6.1%
Russell 1000	28.4%	16.1%	1.5%	16.4%	33.1%	13.2%	0.9%	12.1%	2.0%	3.9%	0.1%	6.0%
Alerian MLP	76.4%	35.9%	13.9%	4.8%	27.6%	4.8%	-32.6%	18.3%	4.9%	0.4%	-1.3%	3.9%
JPM EMBI Glob Div	29.8%	12.2%	7.3%	17.4%	-5.3%	7.4%	1.2%	10.2%	1.4%	2.0%	0.4%	3.9%
Russell 2500	34.4%	26.7%	-2.5%	17.9%	36.8%	7.1%	-2.9%	17.6%	1.4%	2.4%	-0.1%	3.8%
Barclays US Corporate HY	58.2%	15.1%	5.0%	15.8%	7.4%	2.5%	-4.5%	17.1%	1.5%	1.5%	-0.2%	2.7%
Russell 2000	27.2%	26.9%	-4.2%	16.3%	38.8%	4.9%	-4.4%	21.3%	0.4%	1.9%	0.1%	2.5%
BC US STRIPS 20+ Yr	-36.0%	10.9%	58.5%	3.0%	-21.0%	46.4%	-3.7%	1.4%	0.5%	2.3%	-1.0%	1.8%
BC Global Agg	-6.5%	-5.3%	-5.3%	-4.1%	2.7%	-0.6%	3.3%	2.1%	1.1%	0.5%	0.2%	1.8%
Credit Suisse Hedge Fund	18.6%	10.9%	-2.5%	7.7%	9.7%	4.1%	-0.7%	1.2%	0.7%	1.0%	-	1.7%
BC US Long Credit	16.8%	10.7%	17.1%	12.7%	-6.6%	16.4%	-4.6%	10.2%	0.2%	2.0%	-0.6%	1.7%
BC Municipal	12.9%	2.4%	10.7%	6.8%	-2.6%	9.1%	3.3%	0.2%	0.7%	0.7%	0.2%	1.6%
BC US Govt/Credit Long	1.9%	10.2%	22.5%	8.8%	-8.8%	19.3%	-3.3%	6.7%	0.3%	1.8%	-0.6%	1.6%
BC TIPS	11.4%	6.3%	13.6%	7.0%	-8.6%	3.6%	-1.4%	4.7%	0.8%	0.5%	-0.1%	1.3%
CS Leveraged Loan	44.9%	10.0%	1.8%	9.4%	6.2%	2.1%	-0.4%	9.9%	0.5%	0.6%	0.1%	1.2%
FTSE NAREIT Equity REITs	28.0%	28.0%	8.3%	18.1%	2.5%	30.1%	3.2%	8.5%	0.1%	3.4%	-2.3%	1.2%
BC US Agg Bond	5.9%	6.5%	7.8%	4.2%	-2.0%	6.0%	0.5%	2.6%	0.2%	0.7%	-0.1%	0.8%
BC US Agg Interm	6.5%	6.1%	6.0%	3.6%	-1.0%	4.1%	1.2%	2.0%	0.2%	0.5%	0.0%	0.7%
BC US Govt/Credit 1-3 Yr	3.8%	2.8%	1.6%	1.3%	0.6%	0.8%	0.7%	1.3%	0.2%	0.2%	0.1%	0.4%
Bloomberg Commodity	18.9%	16.8%	-13.3%	-1.1%	-9.5%	-17.0%	-24.7%	11.8%	0.1%	0.2%	-2.7%	-2.3%

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



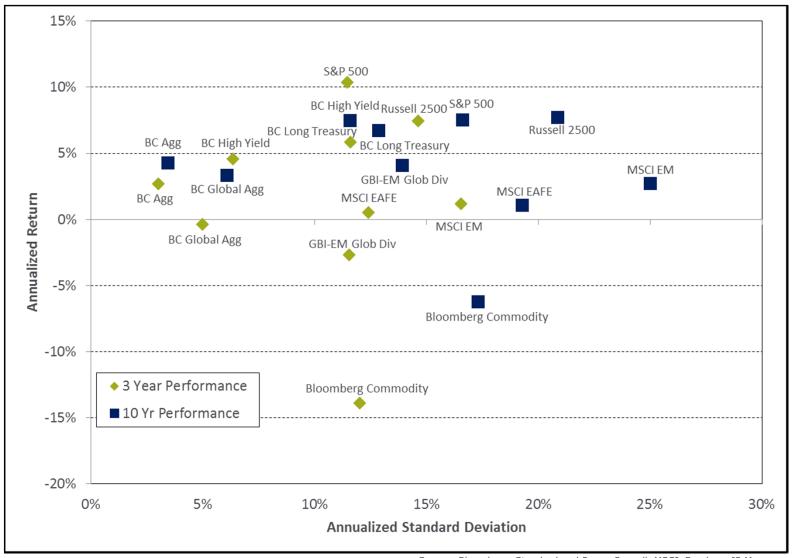
Near Term Broad Market Performance Summary as of 03/31/2017



Source: Bloomberg, Standard and Poors, Russell, MSCI, Barclays, JP Morgan *1 Yr Range: Represents range of cumulative high/low daily index returns for an investment made one year ago



Long Term Broad Market Performance Summary as of 03/31/2017



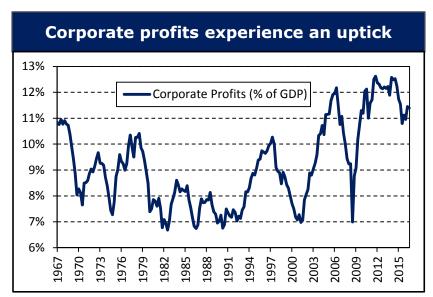
Source: Bloomberg, Standard and Poors, Russell, MSCI, Barclays, JP Morgan



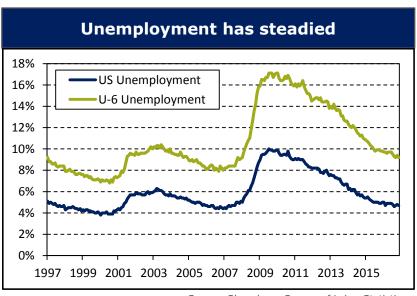
US Economic Indicators



Source: Bloomberg, Federal Reserve, Bureau of Labor Statistics



Source: Bloomberg, Bureau of Economic Analysis



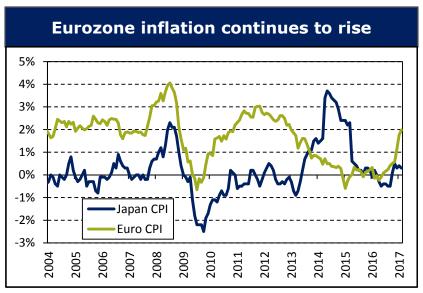
Source: Bloomberg, Bureau of Labor Statistics



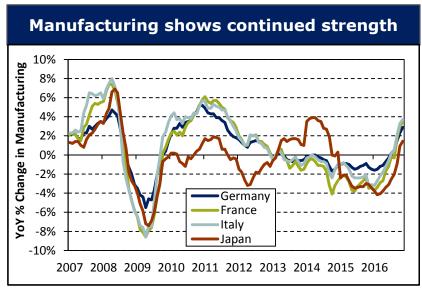
Source: Bloomberg, Institute for Supply Management



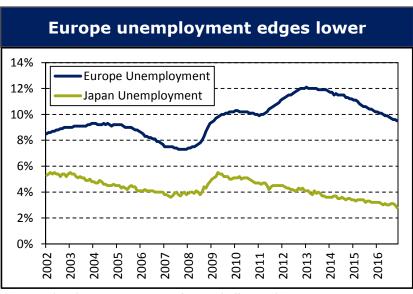
International Economic Indicators



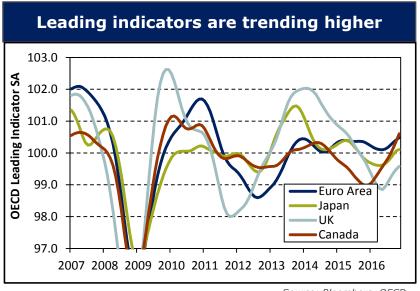
Source: Bloomberg, Japan Ministry of Internal Affairs and Communications, Eurostat



Source: Bloomberg, OECD, Eurostat



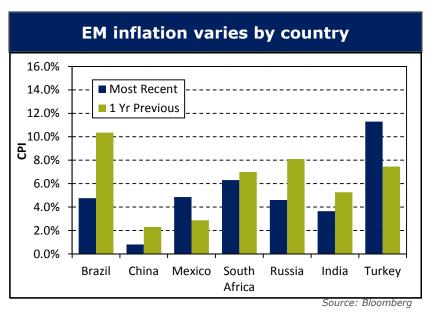
Source: Bloomberg, Japan Ministry of Internal Affairs and Communications, Eurostat

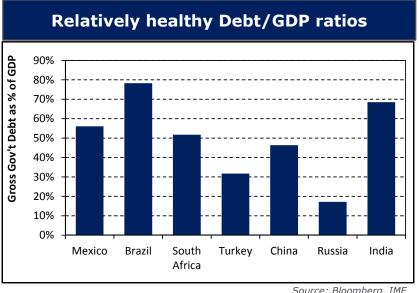


Source: Bloomberg, OECD

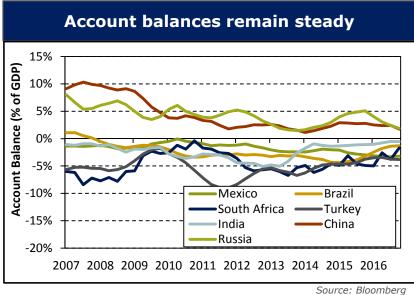


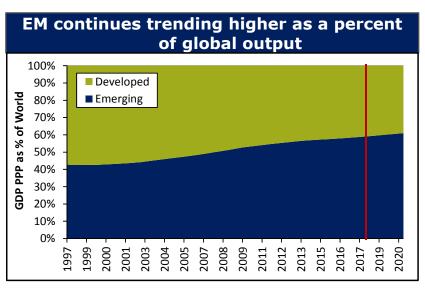
Emerging Market Economic Indicators





Source: Bloomberg, IMF

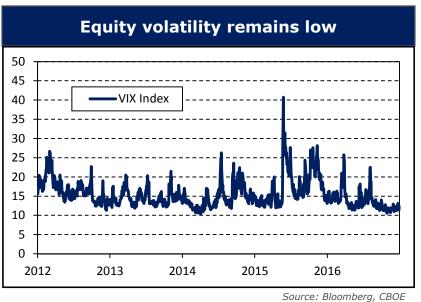


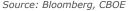


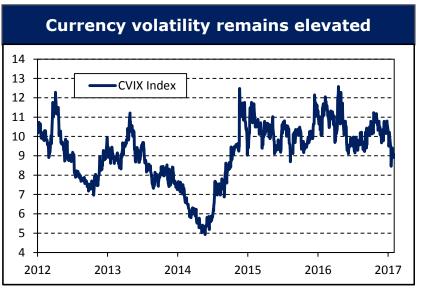
Source: Bloomberg, IMF



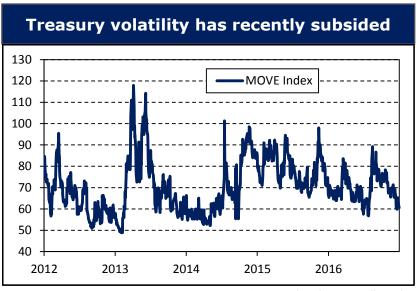
Volatility





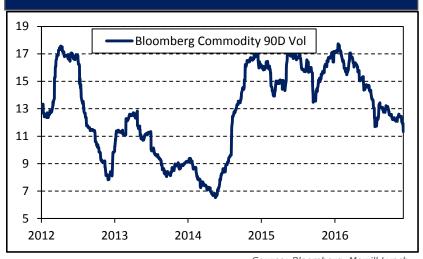


Source: Bloomberg, Deutsche Bank



Source: Bloomberg, Merrill Lynch

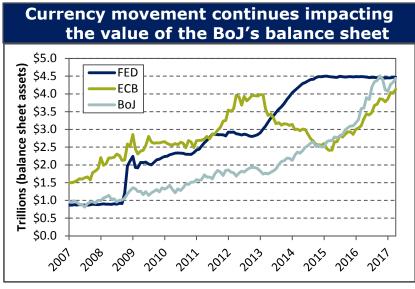
Commodity volatility continues to decline



Source: Bloomberg, Merrill Lynch



Central Banks

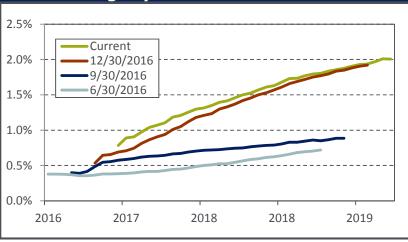


Source: Bloomberg, Federal Reserve, Bank of Japan, ECB, NEPC

Ex- US developed market interest rates are lower than the previous year Australia Canada **ECB** Japan **New Zealand** Norway ■ 1 Year Previous Singapore Current Switzerland UK US -1.0%-0.5% 0.0% 0.5% 1.0% 1.5% 2.0% 2.5% 3.0% 3.5% 4.0% Target Central Bank Rate

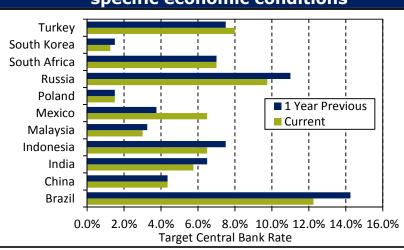
Source: Bloomberg

Post-election yield curve has increased slightly with the Fed rate hike



Source: Bloomberg, Federal Reserve

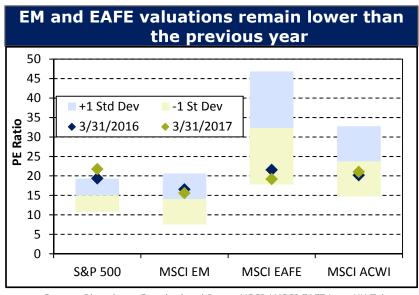
EM central bank policies vary by countryspecific economic conditions



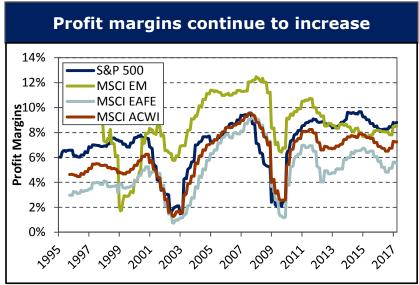
Source: Bloomberg



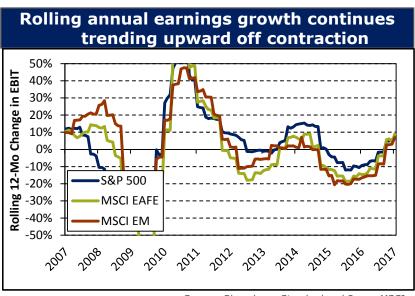
Global Equity



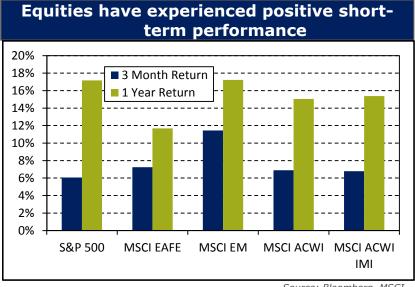
Source: Bloomberg, Standard and Poors, MSCI *MSCI EAFE is ex UK Telecom *Standard deviation calculations on 20 years of data except S&P 500 (30 years)



Source: Bloomberg, MSCI

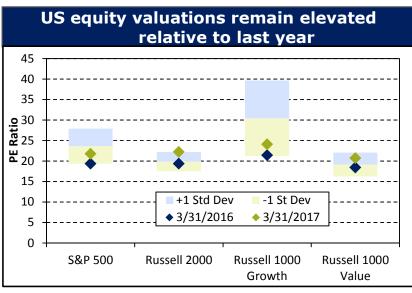


Source: Bloomberg, Standard and Poors, MSCI

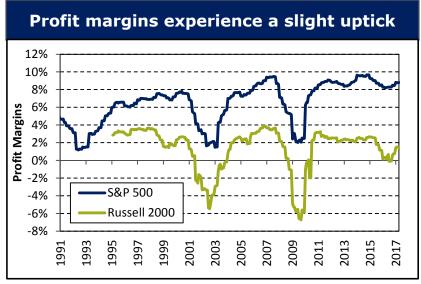




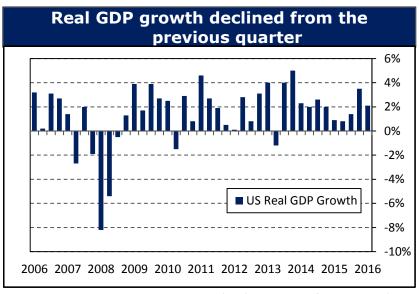
US Equity



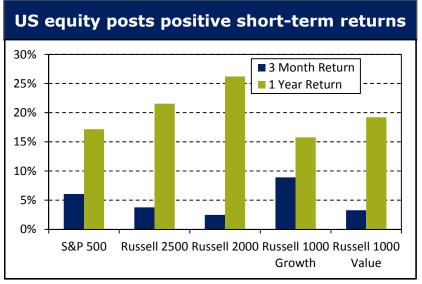
Source: Bloomberg, Standard and Poors, Russell *Russell 2000 PE is index adjusted positive* Standard deviation calculations based on 20 years of data



Source: Bloomberg, Standard and Poors, Russell



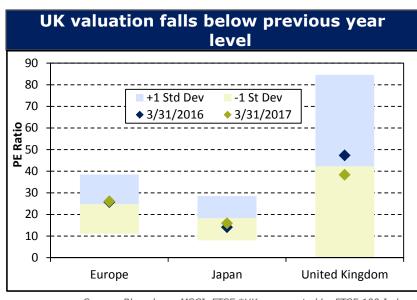
Source: Bloomberg, Bureau of Economic Analysis



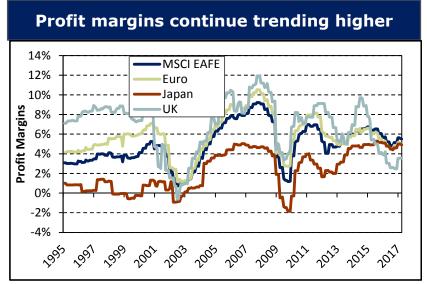
Source: Bloomberg, Standard and Poors, Russell



International Equity



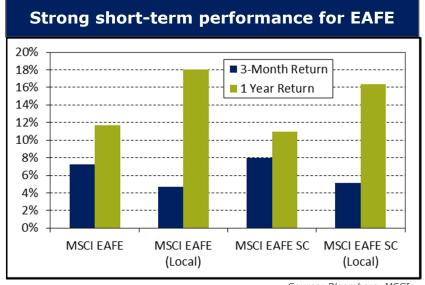
Source: Bloomberg, MSCI, FTSE *UK represented by FTSE 100 Index *Standard deviation calculations based on 20 years of data, with Europe since 12/1998



Source: Bloomberg, MSCI



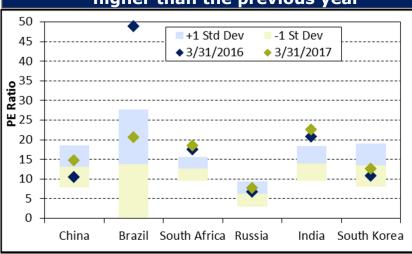
Source: Bloomberg





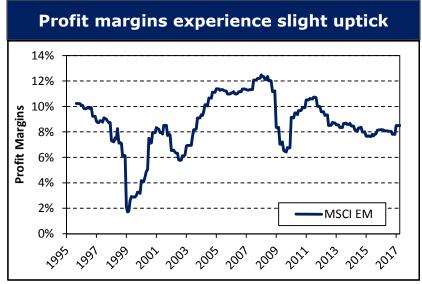
Emerging Markets Equity

Ex-Brazil, current year valuations remain higher than the previous year



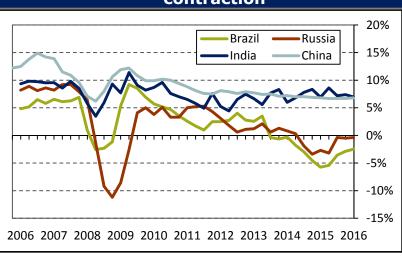
Source: Bloomberg, MSCI

*Standard deviation calculations based on 20 years of data, with Russia since 01/1998



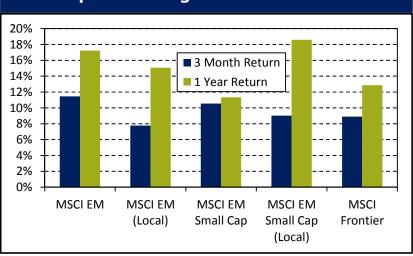
Source: Bloomberg, MSCI

Brazil continues to rebound off earnings contraction



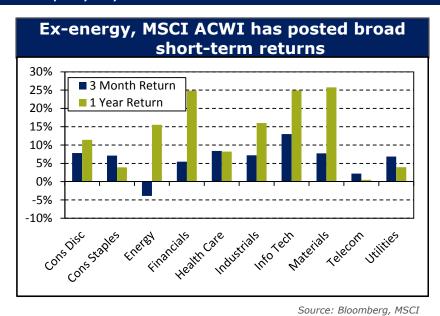
Source: Bloomberg

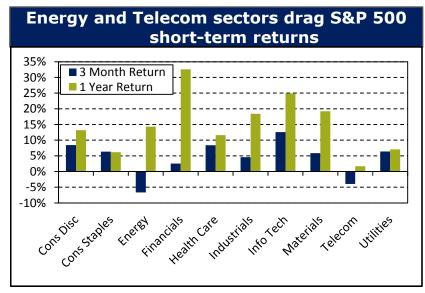
EM posts strong short-term returns





Global Equity by Sector



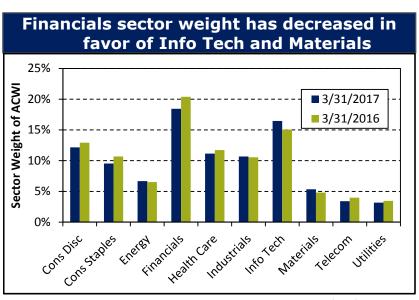


Source: Bloomberg, Standard and Poors



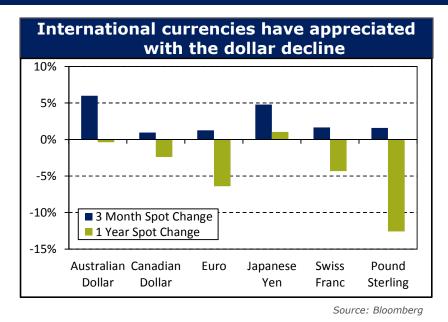


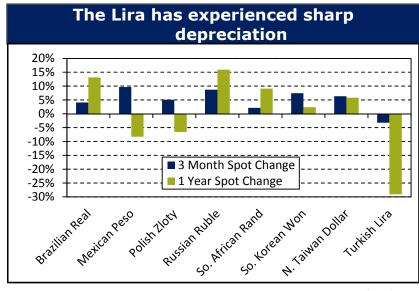
Source: Bloomberg, MSCI



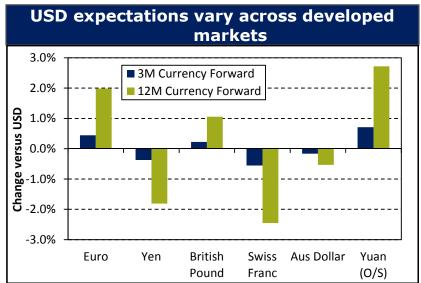


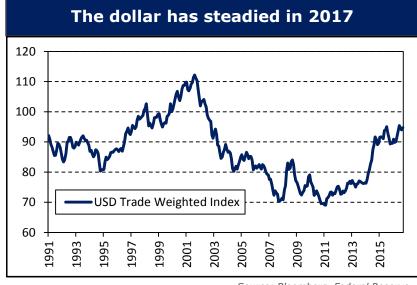
Currencies





Source: Bloomberg



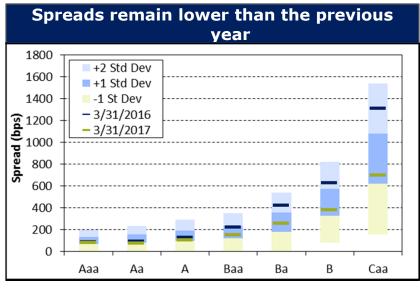


Source: Bloomberg, Federal Reserve

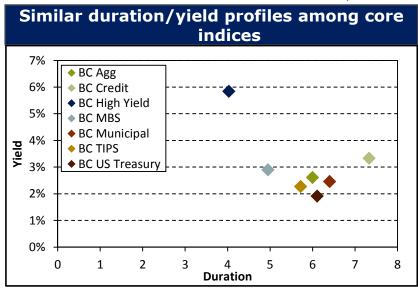
Source: Bloomberg



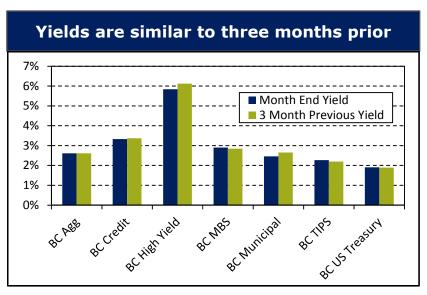
US Fixed Income



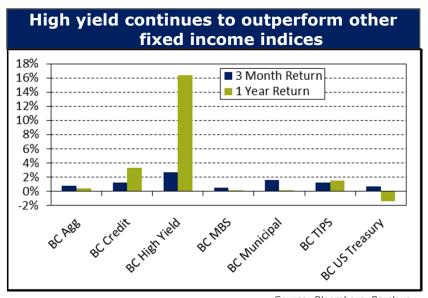
Source: Bloomberg, Barclays *Standard deviation calculations based on 20 years of data



Source: Bloomberg, Barclays



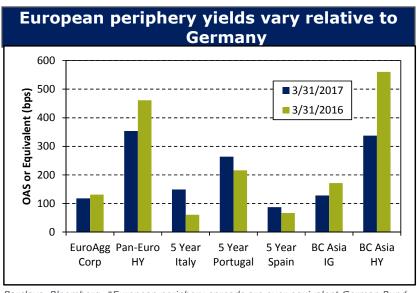
Source: Bloomberg, Barclays



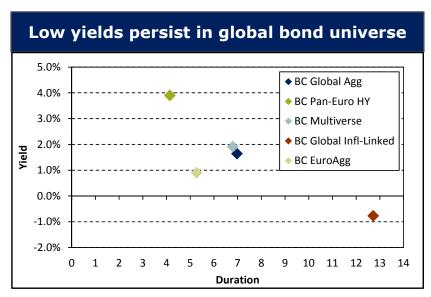
Source: Bloomberg, Barclays



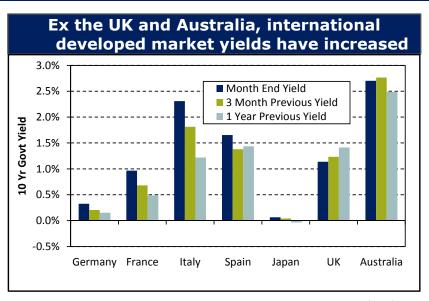
International Developed Fixed Income



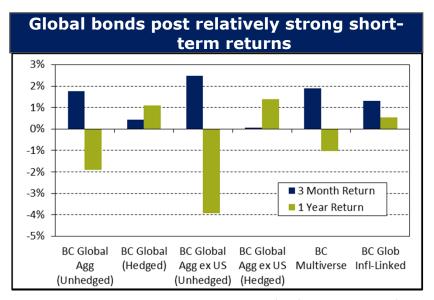
Source: Barclays, Bloomberg, *European periphery spreads are over equivalent German Bund



Source: Bloomberg, Citigroup, Barclays



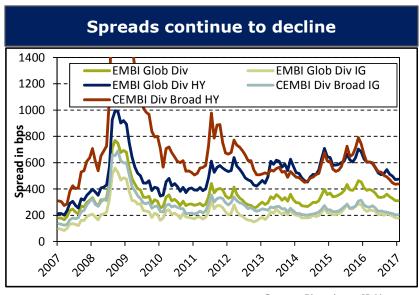
Source: Bloomberg



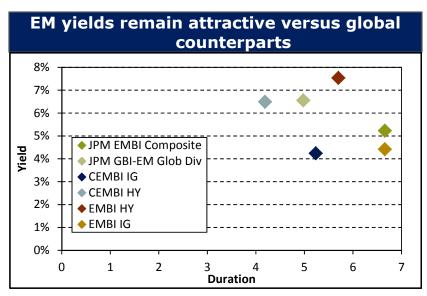
Source: Bloomberg, Citigroup, Barclays



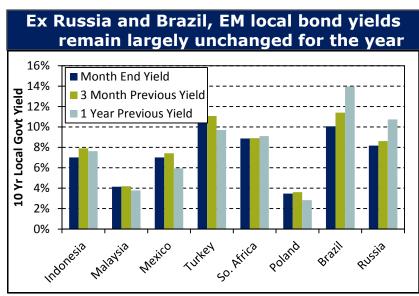
Emerging Markets Fixed Income



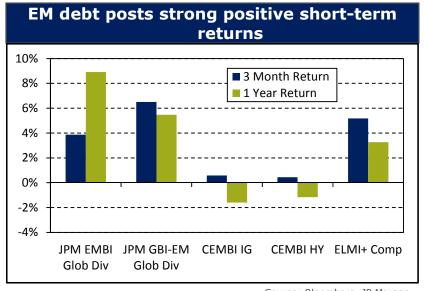
Source: Bloomberg, JP Morgan



Source: Bloomberg, JP Morgan



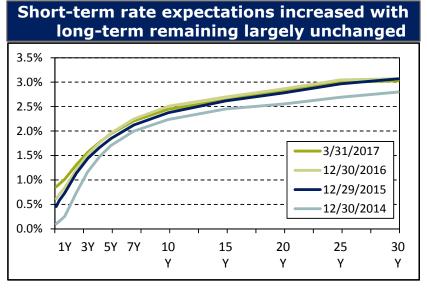
Source: Bloomberg



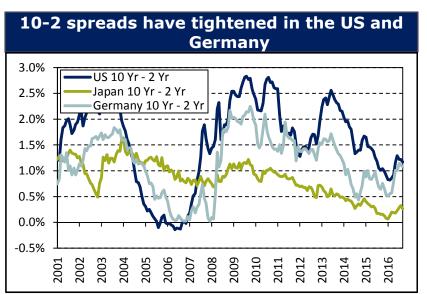
Source: Bloomberg, JP Morgan



Rates



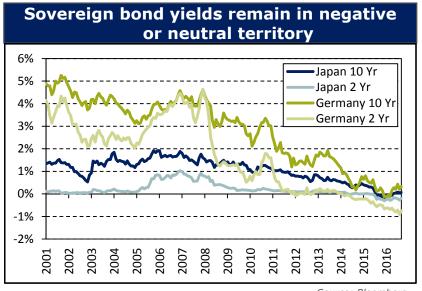
Source: Bloomberg



Source: Bloomberg

Interest rate expectations remain similar to previous months 4.0% UK Month End UK 3M Previous Japan Month End Japan 3M Previous 3.0% Germ Month End Germ 3M Previous 2.0% 1.0% 0.0% -1.0% -2.0% 1Y 3Y 5Y 7Y 10 15 20 25 30 Υ Υ Υ Υ Υ

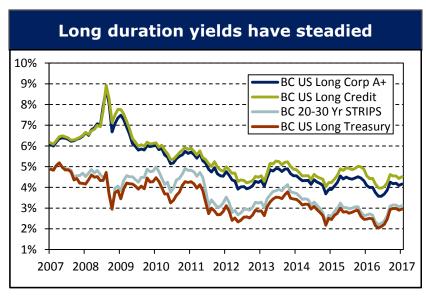
Source: Bloomberg



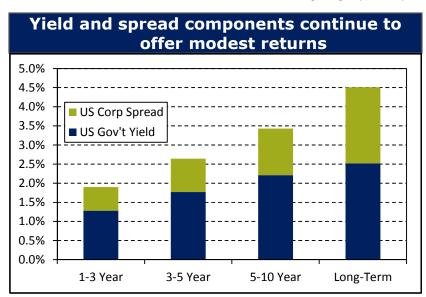
Source: Bloomberg



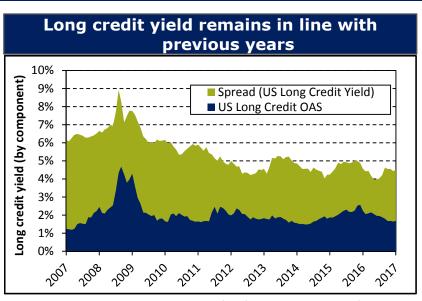
Long Rates and Liability



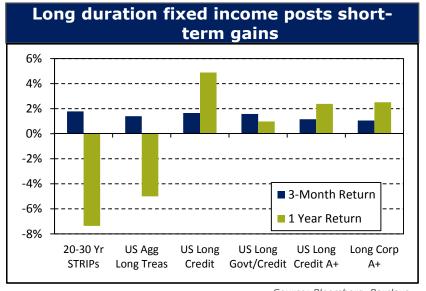
Source: Bloomberg, Citigroup, Barclays



Source: Bloomberg, Barclays



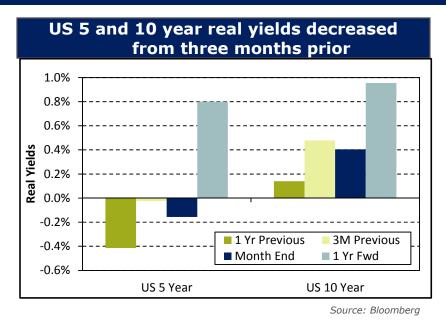
Source: Bloomberg, US Treasury, Barclays, NEPC

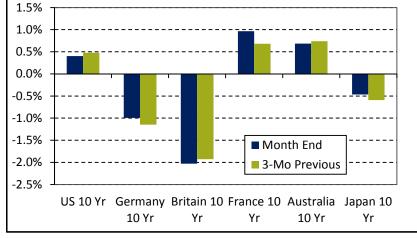


Source: Bloomberg, Barclays



Inflation and Real Rates

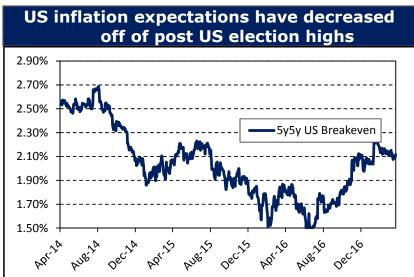


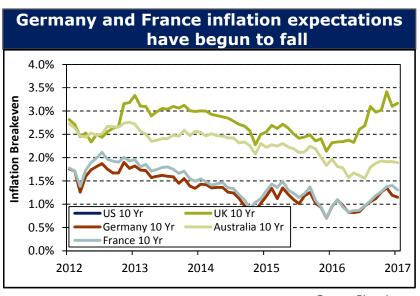


France's yield has increased with election

uncertainty

Source: Bloomberg



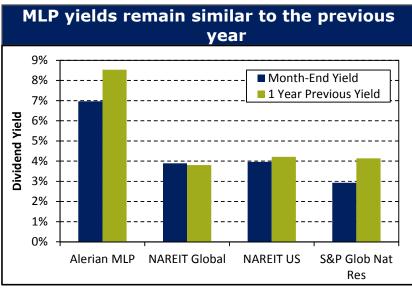


Source: Bloomberg

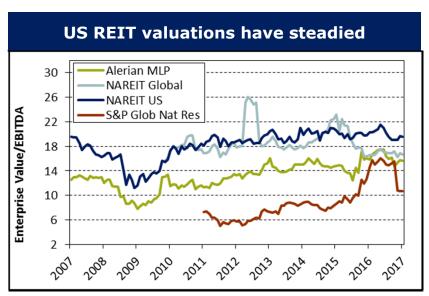
Source: Bloomberg



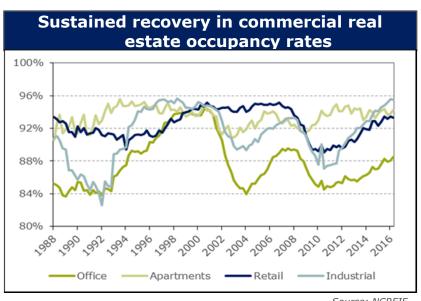
Inflation-Sensitive Growth Assets



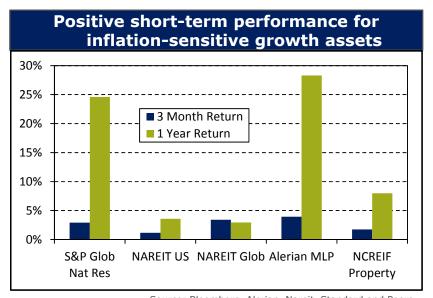
Source: Bloomberg, Alerian, Nareit, Standard and Poors



Source: Bloomberg, US Census Bureau



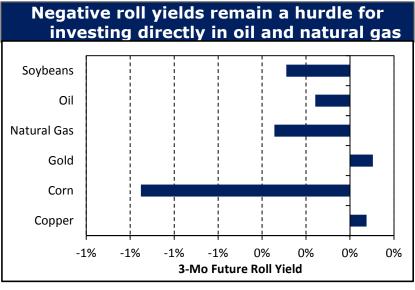
Source: NCREIF



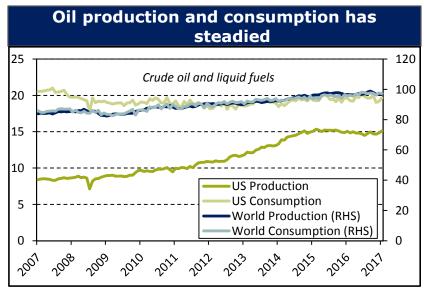
Source: Bloomberg, Alerian, Nareit, Standard and Poors



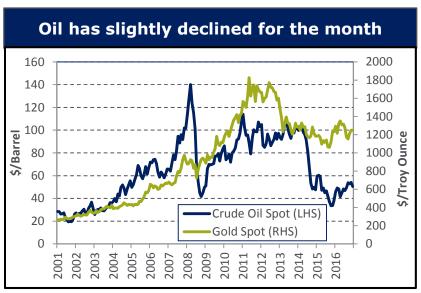
Commodities



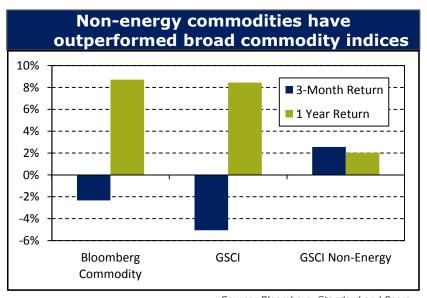




Source: Bloomberg, US Department of Energy *Crude oil and liquid fuels



Source: Bloomberg



Source: Bloomberg, Standard and Poors



Glossary of Investment Terminology

The calculation methodology for each measure of performance is outlined below.

Measurement	Description	Equation
Policy Target	Measures policy allocation decisions.	= Target Asset Weights x Index Returns
Allocation Index	Measures actual allocation decisions. Deviations from the policy target can be derived. (Allocation Index – Policy Index)	= ACTUAL ASSET WEIGHTS X INDEX RETURNS
Composite (Total Return)	Measures actual performance and can derive active management decisions. (Composite – Allocation Index)	= ACTUAL ASSET WEIGHTS X ACTUAL RETURNS

The calculation methodology for each measure of attribution is outlined below.

Measurement	Description	Equation
Allocation Effect	Measure the effects of overweighting or underweighting managers and asset classes.	= (Actual Manager Weight - Policy Target Weight) X Policy Index Return
Selection Effect	Measures the managers' ability to add excess return relative to the policy index.	= (ACTUAL MANAGER RETURN -INDEX RETURN) X POLICY TARGET WEIGHT
Interaction Effect	Measures the cross correlation of both selection and allocation affects and is often referred to as an "error term".	= (Actual Manager Return x (Actual Manager Weight - Policy Target Weight)) - ((Manager Weight - Policy Target Weight) X Index Return)

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.
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