



Vermont Pension Investment Committee

Fourth Fiscal Quarter 2017 Preliminary Investment Performance Analysis

September 26, 2017

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Highlights of Second Quarter Happenings at NEPC

June 30, 2017

NEPC Insights

- 2017 First Quarter Market Thoughts (April 2017)
- The French Election A Sigh of Relief (May 2017)
- An Insight into a Goals-Based Asset Allocation Framework (May 2017)
- The Essential Guide to Third-Party Valuations for Hedge Fund Investors (May 2017)
- Market Chatter: What's Next for Puerto Rico Bondholders? (June 2017)
- Are US Equities Falling out of Favor? (June 2017)

Webinar Replays

NEPC's 7th Annual Investment Manager Webinar (May 2017)

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

Conference Recap

NEPC hosted its 22nd Annual Investment Conference in Boston in May. This year's agenda focused on the uncertainty and challenges facing investors today. Over 200 NEPC clients attended the panel discussions, keynote presentations and breakout sessions. Thank you to everyone who took time out of their schedules to make this conference our biggest and, according to our attendees, our best one yet! Check out some pictures from the event here: http://info.nepc.com/nepc-22nd-annual-investment-conference



Recent Updates

 Healthcare Financial Management Association (HFMA) has awarded NEPC's Healthcare practice with the "Peer Reviewed by HFMA ®" designation.*



NEPC Gives Back

- NEPC's Stacey Flier, CFA, Private Wealth Senior Consultant, hosted an educational day to discuss the importance of education and preparing for future careers to a group of 7th grade girls that attend St. Andrew Nativity School, a college-prep middle school in Portland, OR, that provides education for lowincome, primarily minority, students of all religious backgrounds.
- NEPC participated in the J.P. Morgan
 Corporate Challenge Series, a world-wide
 series of 3.5-mile running events open to
 groups from organizations within the business
 and public sectors in Boston. The Corporate
 Challenge is set up to be the world's greenest
 road race, and this year the race made a
 donation to the Boston Children's Hospital
 Trust.

*HFMA staff and volunteers determined that this business solution has met specific criteria developed under the HFMA Peer Review Process. HFMA does not endorse or guarantee the use of this business solution.











Market Environment



Key Market Themes

The US economy is experiencing an extended economic growth cycle

- US consumers and a tightening labor market are driving the US economy
- Growth recovery in Europe and the emerging markets reinforces US economic conditions
- Stable economic growth is a positive backdrop but expected risk asset returns are subdued

Federal Reserve monetary policy remains on a gradual normalization path

- Despite the June increase, markets continue to price in a slow pace for Fed rate hikes
- Market impact of the Fed's planned reduction of the \$4.5T balance sheet is untested
- Chair Yellen's uncertain tenure may stoke market unease has her term expires in Feb. 2018

China is modestly tightening financial conditions to slow credit growth and manage an orderly transition to a consumer led economy

- Markets have responded positively to the PBOC's management of a more stable yuan
- Capital outflow pressure persists and large scale currency devaluation remains a tail risk
- Continued credit expansion and real estate development risk inflating asset price bubbles

Globalization backlash is disrupting the political and economic orthodoxy

- Outcomes of the French and UK elections have eased market fears but conditions driving anti-establishment political sentiment have not subsided
- Capital market fundamentals may not be materially altered but risks stemming from globalization backlash likely lead to higher levels of currency volatility
- Potential changes to US trade policy under the current administration remain uncertain

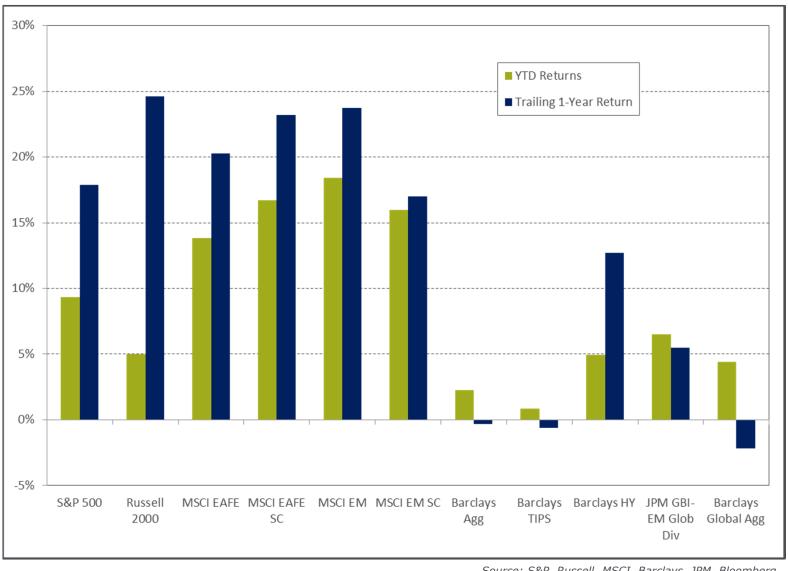


Current Opportunities

- Trim US equity gains as US equity markets continue to rally
 - Expanding valuations have driven recent gains and profit margins sit near all-time highs
- Maintain overweight exposure to non-US developed market equities
 - We believe a multi-year earnings recovery offers the potential for an elevated return
- Emerging market equities remain attractive and offer robust total returns
 - Fundamentals support an overweight relative to index weights (e.g. 15% to 20%)
- Allocate to TIPS as inflation expectations are priced attractively
 - Preserve US duration exposure with a bias to TIPS over core bonds
- Reduce high yield bonds with credit spreads below long-term medians
 - Credit markets continue to benefit from high demand in a low rate environment but current credit spread levels do not provide adequate compensation for the risks
- 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 06/30/2017



Extended US Economic Cycle

US recession concerns are muted

The US economy appears on a path of slow but steady growth as excess capacity is gradually absorbed by the economy

The labor market recovery has been strong but slack remains as many have yet to return to the workforce

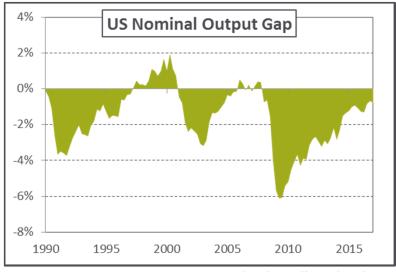
US household balance sheets have room to expand and support further consumer spending gains

Improvement of economic conditions in Europe and emerging markets reinforce US economic gains as global growth factors synchronize

US corporate profitability is near all time highs and may be a challenge for companies to boost economic growth rate



Source: FRED



Source: Congressional Budget Office, Bloomberg



Federal Reserve Gradualism

The Federal Reserve is expected to slowly increase interest rates

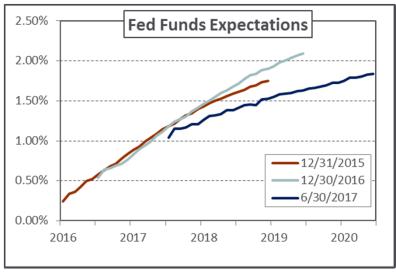
Expected path of Fed policy through 2019 matters more than timing of the next hike as the disconnect between market expectations and Fed signaling has grown

A relatively accommodative Fed is likely to continue, unless there is a dramatic acceleration in inflation

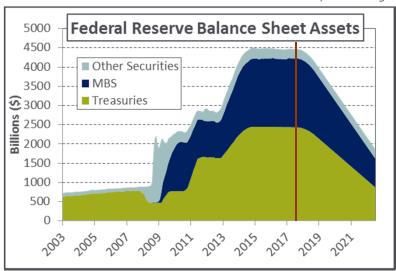
Reduction of the Fed balance sheet will likely be a gradual process

The market impact is untested but the Fed has announced a specific schedule to not reinvest a portion of the balance sheet securities that mature

Politics could intersect with Fed policy as Fed Chair Janet Yellen's term is set to expire in February 2018



Source: Fed, Bloomberg



Source: Fed, Bloomberg, NEPC

Forecast based on the June Fed Minutes: MBS assumes \$4B per month for 3-month intervals over 12 months with a \$20B cap; Treasuries assume \$6B per month for 3-month intervals over 12 months with a \$30B cap; Other Securities are assumed to stay constant



Despite Transparency, a Number of Outstanding Questions Remain...

What does this mean for the future path of rate hikes?

"The evolution of the economy will warrant <u>gradual increases</u> in the federal funds rate over time to achieve and maintain maximum employment and stable prices."

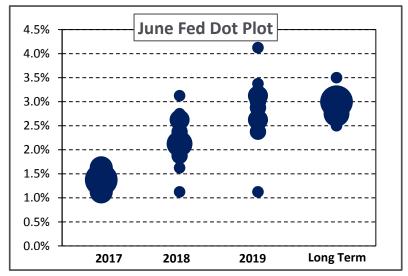
- Fed Chair Janet Yellen July 12th, 2017

What implications does this have for other central banks?

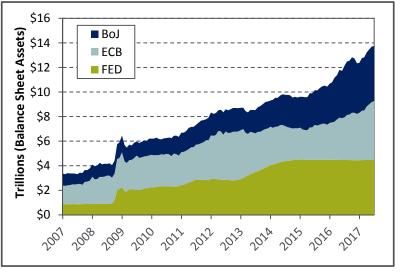
ECB: "A very substantial degree of monetary accommodation is still needed for underlying inflation pressures to gradually build..."

- ECB President Mario Draghi July 20th, 2017

BoJ: Though the monetary stimulus program remained unchanged in July, the 2% inflation target was postponed further – indicating ongoing stimulus measures will continue to be necessary



Source: Fed, NEPC



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



The Fed's Challenge

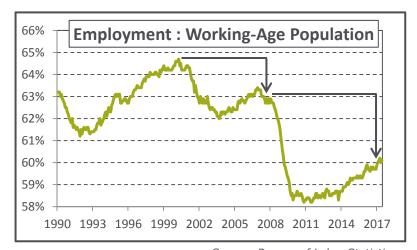
"With further gradual adjustments in the stance of monetary policy, the economy will continue to expand at a moderate pace over the next couple of years, with the job market strengthening somewhat further and inflation rising to 2%"

- Fed Chair Janet Yellen July 12th, 2017

- The ongoing challenge for the Fed will be to balance continued strength in the labor market with lagging inflation
 - Even with sustained improvements in unemployment, there has been significant difficulty reaching the 2% inflation target
- Despite historically low unemployment, structural changes in demographics and the labor pool have introduced uncertainty regarding the remaining slack in the labor force







Source: Bureau of Labor Statistics Represents employed persons as a percentage of age 16+ population



China Transitions

China is the global growth engine but faces fundamental transitions

China's economic transition is pivoting from a production to a service and consumption based economy

Fixed investment is required to sustain the production based economy and support labor force migration

Any disruption to these transitions will have global repercussions due to China's role in the global economy

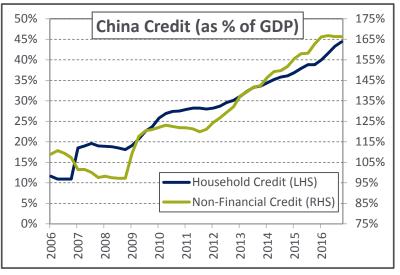
China's government is negotiating a balance between deleveraging and near term economic growth

Unrestrained growth in credit and real estate markets pose a systematic risk

Concerns of capital outflows have forced greater intervention from the central bank to limit currency movements



Source: China Foreign Exchange Trade System, Bloomberg



Source: Bank for International Settlements



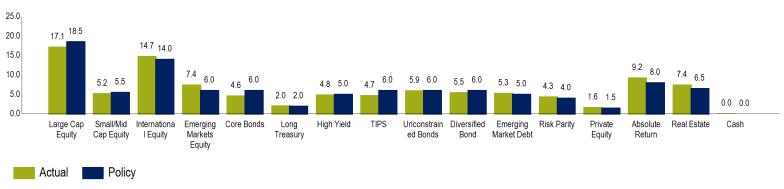
State Teachers' Retirement System



Total Fund Performance Summary - Net

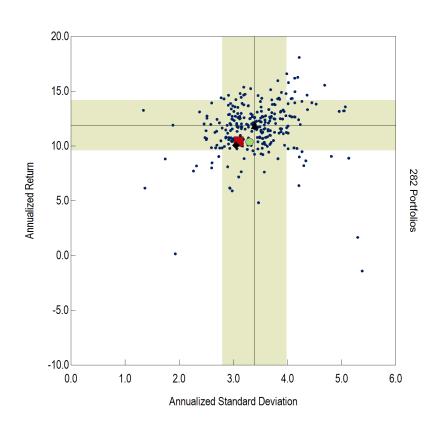
	Market Value	3 Mo	Rank	YTD	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	7 Yrs I	Rank	10 Yrs I	Rank
Teachers Composite	\$1,726,119,339	2.6%	74	6.7%	70	10.4%	79	10.4%	79	3.7%	82	6.5%	92	7.7%	79	3.9%	88
Policy Index		2.5%	77	6.3%	82	10.1%	84	10.1%	84	3.8%	81	6.5%	93	7.3%	90	3.9%	87
Allocation Index		2.6%	63	6.7%	70	10.4%	80	10.4%	80	3.7%	84	6.4%	94	7.1%	93	3.9%	88
InvestorForce Public DB Net Median		2.8%		7.3%		11.9%		11.9%		4.9%		8.2%		8.6%		5.0%	
				3 Yea	rs End	ing June	30, 201	7									
	Anlzd Ret		Rank	Αı	nlzd Sto	d Dev	Ra	nk	Sharp	e Ratio		Rank	Sort	ino Ratio	RF	Rank	
Teachers Composite	3.73%		82		5.529	%	2:	2	0	.63		74		1.12		53	
Policy Index	3.78%		81		5.249	%	1)	0	.68		65		1.18		47	
Allocation Index	3.66%		84		5.449	%	1	9	0	.63		75		1.06		63	
				5 Year	rs Endi	ing June	30, 201 [°]	7									
	Anlzd Ret		Rank	An	ılzd Sto	l Dev	Rai	nk	Sharp	e Ratio		Rank	Sort	no Ratio	RF	Rank	
Teachers Composite	6.54%		92		5.38%	6	27	•	1	.19		82		2.10		65	
Policy Index	6.48%		93		5.05%	6	13	3	1	.25		74		2.24		49	
Allocation Index	6.37%		94		5.10%	6	16	;	1	.22		78		2.10		65	

Actual vs Target Allocation (%)





1 Year Ending June 30, 2017

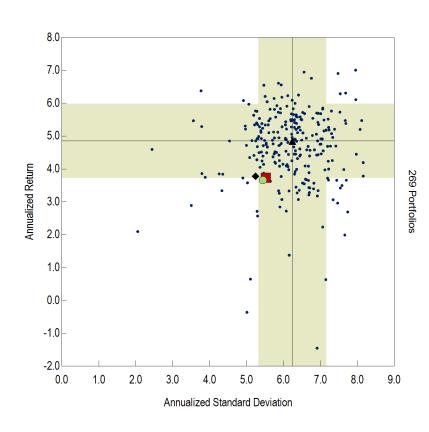


1 Year Ending June 30, 2017

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	10.43%	79	3.10%	32	3.19	63
Policy Index	10.07%	84	3.05%	27	3.13	66
S&P 500	17.90%	1	6.09%	99	2.85	80
Citi WGBI	-4.14%	99	6.58%	99	-0.71	99
MSCI ACWI	18.78%	1	5.34%	99	3.42	45
M2CI ACMI	10.70%	1	5.34%	99	3.42	40
MSCI ACWI ex USA	20.45%	1	7.16%	99	2.78	84
InvestorForce Public DB Net Median	11.88%		3.39%		3.34	

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

3 Years Ending June 30, 2017

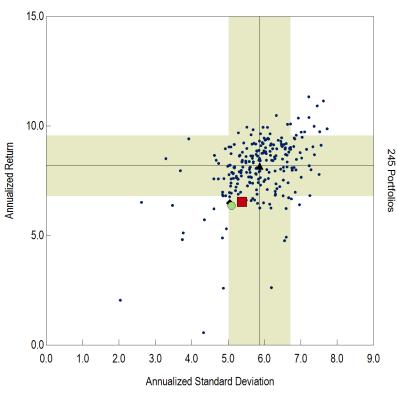


3 Years Ending June 30, 2017

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	3.73%	82	5.52%	22	0.63	74
Policy Index	3.78%	81	5.24%	10	0.68	65
S&P 500	9.61%	1	10.35%	99	0.91	18
Citi WGBI	-1.00%	99	5.98%	40	-0.21	99
MSCI ACWI	4.82%	51	10.78%	99	0.43	96
MSCI ACWI ex USA	0.80%	99	12.44%	99	0.05	99
InvestorForce Public DB Net Median	4.85%		6.24%		0.74	

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

5 Years Ending June 30, 2017

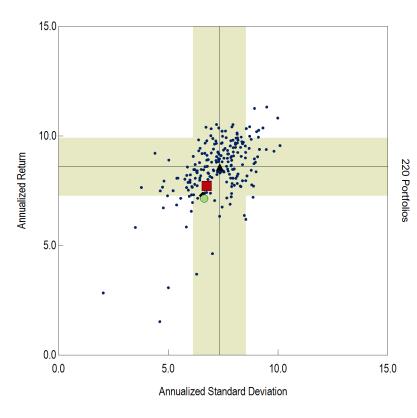


- Teachers Composite
- Policy Index
- Allocation Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB Net

5 Years Ending June 30, 2017

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	6.54%	92	5.38%	27	1.19	82
Policy Index	6.48%	93	5.05%	13	1.25	74
S&P 500	14.63%	1	9.56%	99	1.51	23
Citi WGBI	-0.20%	99	5.33%	25	-0.07	99
MSCI ACWI	10.54%	2	9.97%	99	1.04	93
MSCI ACWI ex USA	7.22%	80	11.56%	99	0.61	99
InvestorForce Public DB Net Median	8.19%		5.87%		1.37	

7 Years Ending June 30, 2017

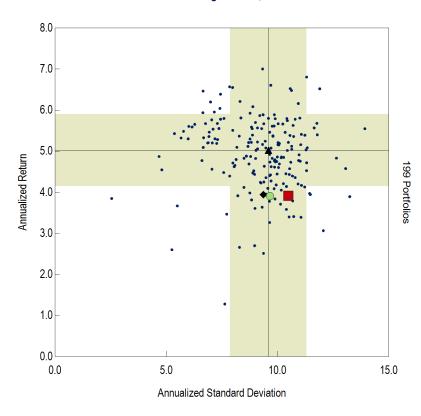


7 Years	Ending	June	30,	2017
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	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	7.72%	79	6.75%	30	1.12	62
Policy Index	7.28%	90	6.56%	25	1.09	73
S&P 500	15.41%	1	11.69%	99	1.31	22
Citi WGBI	1.68%	99	5.67%	8	0.27	99
MSCI ACWI	10.48%	3	13.05%	99	0.79	98
MSCI ACWI ex USA	6.66%	96	14.97%	99	0.44	99
InvestorForce Public DB Net Median	8.59%		7.34%		1.17	

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

10 Years Ending June 30, 2017



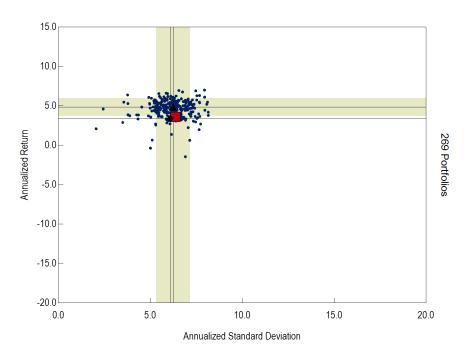
10 Years	Ending	June	30,	2017
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	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	3.91%	88	10.48%	77	0.33	91
Policy Index	3.94%	87	9.36%	46	0.37	82
S&P 500	7.18%	1	15.21%	99	0.44	59
Citi WGBI	3.49%	95	6.80%	9	0.45	57
MSCI ACWI	3.71%	93	16.95%	99	0.19	99
MSCI ACWI ex USA	1.13%	99	19.14%	99	0.04	99
InvestorForce Public DB Net Median	5.03%		9.59%		0.48	

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

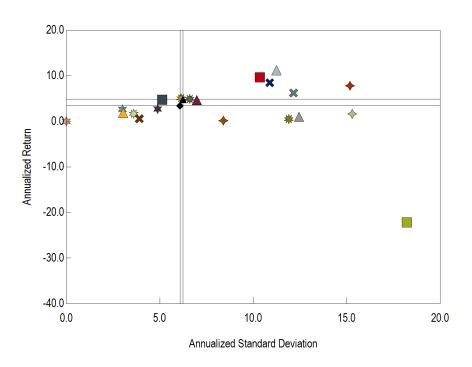
Total Marketable Assets - Net

Annualized Return vs. Annualized Standard Deviation 3 Years Ending June 30, 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 June 30, 2017

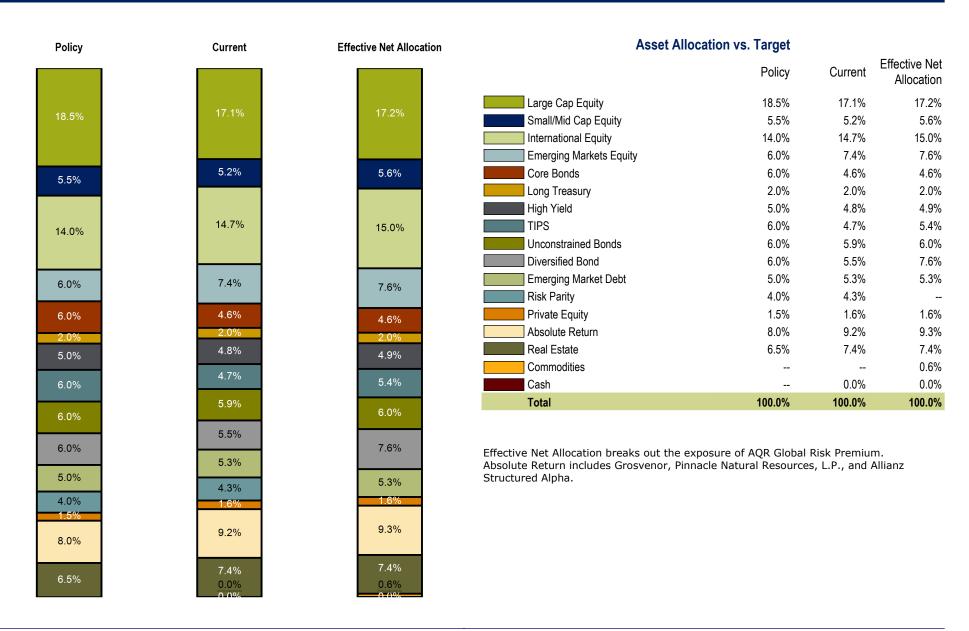


- SSgA S&P 500 Cap-Wgt
- ★ SSgA S&P 500 Equal-Wgt
- * T. Rowe
- ▲ Champlain
- Wellington
- Acadian
- Mondrian
- SSgA ACWI Ex US
- Aberdeen
- * PIMCO Core Plus
- Z Terminated Wellington DAS
- ▲ PIMCO Unconstrained

- * KDP
- Guggenheim
- BlackRock TIPS
- * Wellington Opportunistic EMD
- ▲ Mellon Dynamic Growth
- + AQR Global Risk Premium
- Vermont Cash
- Z Terminated Schroder
- Total Marketable Assets Custom Index
- Universe Median
- 68% Confidence Interval



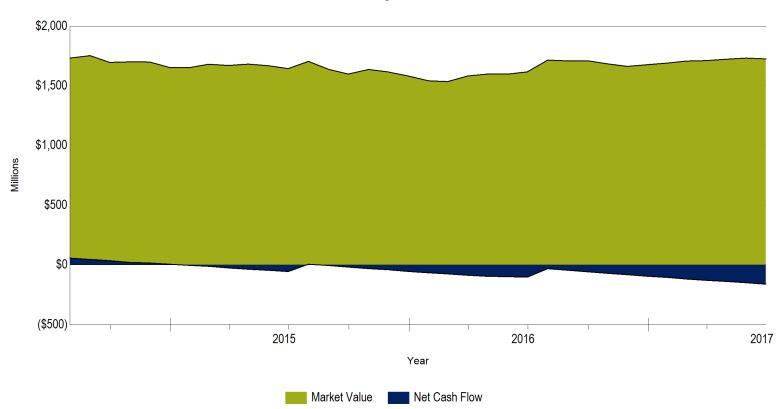
Total Fund Asset Allocation vs. Policy Targets





Total Fund Asset Growth Summary

3 Years Ending June 30, 2017



Last Three Months	Year-To-Date	Fiscal Year-To-Date	One Year	Three Years
\$1,711,935,122	\$1,677,902,518	\$1,617,794,214	\$1,617,794,214	\$1,699,754,628
\$195,409,960	\$205,073,221	\$318,275,369	\$318,275,369	\$1,065,189,518
-\$227,123,265	-\$271,129,291	-\$377,013,274	-\$377,013,274	-\$1,226,098,568
-\$31,713,304	-\$66,056,070	-\$58,737,905	-\$58,737,905	-\$160,909,051
\$45,897,521	\$114,272,891	\$167,063,030	\$167,063,030	\$187,273,761
\$1,726,119,339	\$1,726,119,339	\$1,726,119,339	\$1,726,119,339	\$1,726,119,339
	Months \$1,711,935,122 \$195,409,960 -\$227,123,265 -\$31,713,304 \$45,897,521	Months Year-To-Date \$1,711,935,122 \$1,677,902,518 \$195,409,960 \$205,073,221 -\$227,123,265 -\$271,129,291 -\$31,713,304 -\$66,056,070 \$45,897,521 \$114,272,891	Months Year-To-Date Fiscal Year-To-Date \$1,711,935,122 \$1,677,902,518 \$1,617,794,214 \$195,409,960 \$205,073,221 \$318,275,369 -\$227,123,265 -\$271,129,291 -\$377,013,274 -\$31,713,304 -\$66,056,070 -\$58,737,905 \$45,897,521 \$114,272,891 \$167,063,030	Months Year-To-Date Fiscal Year-To-Date One Year \$1,711,935,122 \$1,677,902,518 \$1,617,794,214 \$1,617,794,214 \$195,409,960 \$205,073,221 \$318,275,369 \$318,275,369 -\$227,123,265 -\$271,129,291 -\$377,013,274 -\$377,013,274 -\$31,713,304 -\$66,056,070 -\$58,737,905 -\$58,737,905 \$45,897,521 \$114,272,891 \$167,063,030 \$167,063,030



Total Fund Asset Growth Summary by Manager

Quarter Ending June 30, 2017

	Beginning Market Value	Contributions	Withdrawals	Net Cash Flow	Net Investment Change	Ending Market Value
Aberdeen	\$120,091,604	\$212,792	-\$212,792	\$0	\$7,903,122	\$127,994,726
Acadian	\$72,440,061	\$92,347	-\$6,092,347	-\$6,000,000	\$7,393,407	\$73,833,468
Allianz Structured Alpha	\$31,333,455	\$0	-\$107,458	-\$107,458	\$538,264	\$31,764,261
AQR Global Risk Premium	\$144,088,451	\$132,432	-\$71,420,055	-\$71,287,623	\$2,204,975	\$75,005,803
BlackRock TIPS	\$67,432,345	\$14,270,020	-\$12,495	\$14,257,525	-\$256,729	\$81,433,141
Champlain	\$36,914,242	\$10,503,056	-\$76,042	\$10,427,014	\$2,155,423	\$49,496,679
GAM	\$175,063	\$0	\$0	\$0	\$1,646	\$176,710
GAM Unconstrained Bond	\$59,455,449	\$0	-\$77,251	-\$77,251	\$1,229,456	\$60,607,654
Grosvenor	\$85,053,904	\$0	\$0	\$0	\$370,269	\$85,424,173
Guggenheim	\$63,986,285	\$82,936	-\$82,936	\$0	\$1,135,270	\$65,121,555
Harbourvest Dover Street Fund IX	\$1,392,184	\$630,087	\$0	\$630,087	\$0	\$2,022,270
Harbourvest Dover VIII Fund	\$7,916,201	\$0	-\$313,849	-\$313,849	\$0	\$7,602,352
Harbourvest Partners IX Buyout Fund	\$6,792,440	\$0	-\$69,058	-\$69,058	\$0	\$6,723,382
Harbourvest Partners IX Credit Opportunities	\$979,194	\$0	-\$18,682	-\$18,682	\$0	\$960,511
Harbourvest Partners IX Venture Fund	\$5,031,765	\$0	-\$20,088	-\$20,088	\$0	\$5,011,677
Harbourvest Partners X Buyout Fund	\$2,097,981	\$499,043	-\$173,647	\$325,396	\$0	\$2,423,377
Harbourvest Partners X Venture Fund	\$935,167	\$256,651	\$0	\$256,651	-\$24,147	\$1,167,671
HIPEP VII	\$2,082,798	\$238,145	\$0	\$238,145	\$0	\$2,320,943
KDP	\$18,168,257	\$28,699	-\$28,699	\$0	\$327,405	\$18,495,662
Mellon Dynamic Growth	\$33,953,507	\$0	-\$34,259,798	-\$34,259,798	\$357,688	\$51,397
Mondrian	\$67,602,561	\$70,453	-\$70,453	\$0	\$2,961,019	\$70,563,580
Morgan Stanley Prime Property	\$60,262,935	\$0	\$0	\$0	\$0	\$60,262,935
PIMCO Core Plus	\$92,713,114	\$67,814	-\$67,814	\$0	\$1,608,384	\$94,321,498
PIMCO Unconstrained	\$41,438,519	\$63,818	-\$63,818	\$0	\$448,225	\$41,886,744
Pinnacle Natural Resources, L.P.	\$22,113,567	\$20,503,513	\$0	\$20,503,513	-\$945,724	\$41,671,356



Total Fund Asset Growth Summary by Manager

Quarter Ending June 30, 2017

			4						
	Beginning Market Value	Contributions	Withdrawals	Net Cash Flow	Net Investment Change	Ending Market Value			
RREEF America REIT III	\$256,846	\$0	-\$1,100	-\$1,100	-\$6,323	\$249,423			
Siguler Guff DREOF II	\$13,207,491	\$0	-\$367,165	-\$367,165	\$495,793	\$13,336,119			
Siguler Guff DREOF II Co-Investment	\$3,948,206	\$0	\$0	\$0	\$90,052	\$4,038,258			
SSgA ACWI Ex US	\$77,618,394	\$26,775,990	-\$12,788	\$26,763,203	\$5,160,329	\$109,541,925			
SSgA Barclays Aggregate Index	\$53,633,156	\$44,559,151	-\$19,306,373	\$25,252,778	\$1,052,082	\$79,938,016			
SSgA S&P 500 Cap-Wgt	\$190,642,150	\$30,481,955	-\$15,970	\$30,465,985	\$6,445,765	\$227,553,900			
SSgA S&P 500 Equal-Wgt	\$72,357,585	\$7,675	-\$6,007,675	-\$6,000,000	\$1,738,189	\$68,095,774			
State Street Long U.S. Treasury Index		\$34,541,790	\$0	\$34,541,790	\$201,068	\$34,742,858			
T. Rowe	\$2,468	\$0	\$0	\$0	\$0	\$2,468			
Transwestern / Aslan III	\$128,447	\$0	\$0	\$0	\$0	\$128,447			
UBS Trumbull	\$49,571,639	\$109,260	-\$109,260	\$0	\$583,553	\$50,155,193			
Vermont Cash	\$1,653,303	\$3,112,492	-\$4,001,424	-\$888,931	\$0	\$764,372			
Wellington	\$32,306,692	\$8,166,291	-\$71,342	\$8,094,949	-\$535,487	\$39,866,154			
Wellington Opportunistic EMD	\$89,146,947	\$0	\$0	\$0	\$2,215,961	\$91,362,908			
Z Terminated - Schroder	\$21,035,499	\$0	-\$20,503,513	-\$20,503,513	-\$531,986	\$0			
Z Terminated - SSgA Russell 2000 Growth	\$7,954,626	\$1,753	-\$8,096,702	-\$8,094,949	\$140,323	\$0			
Z Terminated - SSgA S&P 400	\$9,864,884	\$1,798	-\$10,428,812	-\$10,427,014	\$562,130	\$0			
Z Terminated - Wellington DAS	\$44,155,742	\$0	-\$45,033,859	-\$45,033,859	\$878,117	\$0			
Total	\$1,711,935,122	\$195,409,960	-\$227,123,265	-\$31,713,304	\$45,897,521	\$1,726,119,339			



Total Fund Performance Detail - Net

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Teachers Composite	1,726,119,339	100.0	100.0	2.6	74	6.7	70	10.4	79	10.4	79	3.7	82	6.5	92	3.9	88
Policy Index				2.5	77	6.3	82	10.1	84	10.1	84	3.8	81	6.5	93	3.9	87
Allocation Index				2.6	63	6.7	70	10.4	80	10.4	80	3.7	84	6.4	94	3.9	88
InvestorForce Public DB Net Median				2.8		7.3		11.9		11.9		4.9		8.2		5.0	
Total Marketable Assets	1,410,680,281	81.7		3.1	29	8.0	20	11.5	58	11.5	58	3.6	87	6.4	94	-	
Total Marketable Assets Custom Index				2.9	44	7.1	55	10.6	74	10.6	74	3.4	90	6.6	91		
InvestorForce Public DB Net Median				2.8		7.3		11.9		11.9		4.9		8.2		5.0	
US Equity	385,014,975	22.3	24.0	2.7	52	7.8	49	17.9	60	17.9	60	9.3	24		-	-	
Russell 3000				3.0	46	8.9	39	18.5	55	18.5	55	9.1	27	14.6	34	7.3	46
eA All US Equity Net Median				2.8		7.6		19.1		19.1		7.6		13.8		7.1	
Large Cap Comp	295,652,142	17.1	18.5	2.9	52	8.9	48	17.7	51	17.7	51	9.3	27	14.9	23	7.7	32
S&P 500				3.1	48	9.3	45	17.9	50	17.9	50	9.6	22	14.6	28	7.2	45
eA US Large Cap Equity Net Median				3.0		8.7		17.8		17.8		7.8		13.7		7.0	
SSgA S&P 500 Cap-Wgt	227,553,900	13.2	14.0	3.1	48	9.3	45	17.9	49	17.9	49	9.6	22	14.6	28		
S&P 500				3.1	48	9.3	45	17.9	50	17.9	50	9.6	22	14.6	28	7.2	45
SSgA S&P 500 Equal-Wgt	68,095,774	3.9	4.5	2.5	61	7.9	59	17.2	56	17.2	56	8.5	39	15.5	14	8.0	26
S&P 500 Equal Weighted				2.5	61	8.1	58	17.3	56	17.3	56	8.5	37	15.5	13	8.3	19
T. Rowe	2,468	0.0	0.0														
Small/Mid Cap Comp	89,362,833	5.2	5.5	1.9	62	4.4	72	18.6	59	18.6	59	9.5	15	14.7	25	8.3	27
Russell 2000				2.5	51	5.0	69	24.6	15	24.6	15	7.4	38	13.7	44	6.9	62
eA US Small-Mid Cap Equity Net Median				2.5		6.6		19.7		19.7		6.6		13.4		7.4	
Champlain	49,496,679	2.9	2.8	4.8	24	10.6	33	21.3	19	21.3	19	11.2	4	15.9	12		
Russell 2500 eA US Mid Cap Equity Net				2.1	57	6.0	71	19.8	29	19.8	29	6.9	55	14.0	48	7.4	53
Median				2.5		8.1		17.2		17.2		7.2		14.0		7.6	
Wellington	39,866,154	2.3	2.8	-1.1	90	-2.5	93	14.6	94	14.6	94	7.8	33	13.0	65	8.1	16
Russell 2000 Value				0.7	56	0.5	64	24.9	30	24.9	30	7.0	46	13.4	60	5.9	76
eA US Small Cap Value Equity Net Median				0.9		1.7		22.3		22.3		6.7		14.0		6.9	



Total Fund Performance Detail - Net

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Int'l Equity Comp	253,938,973	14.7	14.0	6.9	42	15.9	34	22.4	34	22.4	34	2.6	46	10.0	43	1.5	65
MSCI EAFE				6.1	67	13.8	61	20.3	48	20.3	48	1.1	77	8.7	67	1.0	76
eA All EAFE Equity Net Median				6.6		14.6		20.1		20.1		2.3		9.6		2.3	
Acadian	73,833,468	4.3	4.0	10.7	4	21.8	4	31.0	3	31.0	3	6.2	12	13.1	14	1.7	61
Mondrian	70,563,580	4.1	4.0	4.3	95	12.1	84	16.0	79	16.0	79	0.5	86	8.4	72	1.6	64
MSCI EAFE				6.1	67	13.8	61	20.3	48	20.3	48	1.1	77	8.7	67	1.0	76
SSgA ACWI Ex US	109,541,925	6.3	6.0	5.9	77	14.3	74	20.7	45	20.7	45	1.0	72	7.4	81		
MSCI ACWI ex USA				5.8	79	14.1	76	20.5	45	20.5	45	0.8	74	7.2	82	1.1	75
eA ACWI ex-US All Cap Equity Net Median				6.9		15.8		20.0		20.0		2.4		9.2		2.5	
Emerging Market Comp	127,994,726	7.4	6.0	6.4	50	18.8	56	18.7	71	18.7	71	1.6	55	3.9	73		
Aberdeen	127,994,726	7.4	6.0	6.4	50	18.8	56	18.7	71	18.7	71	1.6	55	3.9	75		
MSCI Emerging Markets				6.3	53	18.4	62	23.7	42	23.7	42	1.1	68	4.0	73	1.9	66
eA Emg Mkts Equity Net Median				6.4		19.3		22.9		22.9		1.7		5.2		2.5	
US Fixed Income	476,547,127	27.6	31.0	1.3	55	3.1	37	3.5	27	3.5	27	3.4	30		-		
BBgBarc US Aggregate TR				1.4	50	2.3	56	-0.3	84	-0.3	84	2.5	52	2.2	61	4.5	52
eA All US Fixed Inc Net Median				1.4		2.5		0.9		0.9		2.5		2.8		4.5	
Diversified Fixed	311,496,769	18.0	20.0	1.7	38	3.5	31	2.2	34	2.2	34	3.5	28	2.9	47	4.0	63
BBgBarc US Aggregate TR				1.4	50	2.3	56	-0.3	84	-0.3	84	2.5	52	2.2	61	4.5	52
eA All US Fixed Inc Net Median				1.4		2.5		0.9		0.9		2.5		2.8		4.5	
PIMCO Core Plus	94,321,498	5.5	6.0	1.7	22	3.3	5	1.1	17	1.1	17	2.6	46	2.3	66		
BBgBarc US Aggregate TR				1.4	64	2.3	65	-0.3	72	-0.3	72	2.5	59	2.2	72	4.5	76
SSgA Barclays Aggregate Index	79,938,016	4.6	6.0	1.4	68	2.2	71	-0.4	74	-0.4	74						
BBgBarc US Aggregate TR				1.4	64	2.3	65	-0.3	72	-0.3	72	2.5	59	2.2	72	4.5	76
3-Month Libor Total Return USD				0.3	99	0.6	99	1.0	20	1.0	20	0.6	99	0.5	99	1.0	99
eA US Core Fixed Inc Net Median				1.5		2.4		0.2		0.2		2.6		2.5		4.7	
State Street Long U.S. Treasury Index	34,742,858	2.0			-					-							
BBgBarc US Treasury Long TR				4.0		5.4		-7.2		-7.2		5.6		2.8		7.3	



Total Fund Performance Detail - Net

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Unconstrained Fixed Income	102,494,398	5.9	6.0	1.5	62	4.2	48	7.9	30	7.9	30			-		-	
25% HY, 25% EMD, 50% BC Agg				1.8	48	3.9	59	4.3	76	4.3	76	3.6	16	4.2	43	6.1	26
BBgBarc Global Aggregate TR eA Global Unconstrained Fixed Inc Net Median				2.6 1.8	21	4.4 4.1	43	-2.2 7.0	99	-2.2 7.0	99	-0.4 2.5	97	0.8 4.0	98	3.7 5.5	91
PIMCO Unconstrained	41,886,744	2.4	2.5	0.9	94	3.0	76	7.0	51	7.0	51	1.8	75	1.4	97		
25% HY, 25% EMD, 50% BC Agg				1.8	48	3.9	59	4.3	76	4.3	76	3.6	16	4.2	43	6.1	26
3-Month Libor Total Return USD				0.3	95	0.6	99	1.0	98	1.0	98	0.6	90	0.5	99	1.0	99
GAM Unconstrained Bond	60,607,654	3.5	3.5	1.9	43	5.1	32	8.5	26	8.5	26			-		-	
3-Month LIBOR + 3%				1.1	90	2.1	93	4.1	80	4.1	80	3.6	15	3.5	64	4.0	89
eA Global Unconstrained Fixed Inc Net Median				1.8		4.1		7.0		7.0		2.5		4.0		5.5	
High Yield Comp	83,617,217	4.8	5.0	1.6	73	3.7	81	11.6	41	11.6	41	4.4	30	6.5	35	7.1	36
BBgBarc US High Yield TR				2.2	35	4.9	24	12.7	27	12.7	27	4.5	28	6.9	25	7.7	14
eA US High Yield Fixed Inc Net Median				2.0		4.4		11.3		11.3		3.8		6.3		6.8	
KDP	18,495,662	1.1	1.0	1.6	73	3.4	82	7.9	87	7.9	87	2.7	84	4.6	93		
BBgBarc US High Yield TR				2.2	35	4.9	24	12.7	27	12.7	27	4.5	28	6.9	25	7.7	14
BofA Merrill Lynch US High Yield BB-B Rated				2.2	29	4.6	44	11.2	52	11.2	52	4.5	26	6.7	31	7.1	36
Guggenheim	65,121,555	3.8	4.0	1.6	73	3.7	78	12.6	29	12.6	29	4.7	21				
BBgBarc US High Yield TR				2.2	35	4.9	24	12.7	27	12.7	27	4.5	28	6.9	25	7.7	14
eA US High Yield Fixed Inc Net Median				2.0		4.4		11.3		11.3		3.8		6.3		6.8	



Total Fund Performance Detail - Net

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
TIPS	81,433,141	4.7	6.0														
BlackRock TIPS	81,433,141	4.7	6.0	-0.4		0.8		-0.6		-0.6		0.6		0.2			
BBgBarc US TIPS TR				-0.4		0.9		-0.6		-0.6		0.6		0.3		4.3	
Emerging Market Debt	91,362,908	5.3	5.0														
Wellington Opportunistic EMD	91,362,908	5.3	5.0	2.5	48	6.8	62	9.0	27	9.0	27	5.1	9	5.9	14		
JP Morgan EMBI Global TR				2.2	61	6.2	74	5.5	86	5.5	86	4.6	18	5.2	29	7.3	22
eA All Emg Mkts Fixed Inc Net Median				2.4		7.8		7.3		7.3		2.4		3.7		6.3	
Risk Parity/GAA	75,057,200	4.3	4.0	1.1	83	5.4	58	5.1	76	5.1	76	0.4	79	4.3	59	4.0	66
Mellon Dynamic Growth	51,397	0.0	2.0	1.2	47	4.1	38	3.3	82	3.3	82	4.7	18	6.4	31	2.9	51
Mellon Dynamic Growth Benchmark				3.7	9	8.0	12	9.3	35	9.3	35	2.8	43	6.2	33	3.6	34
Risk Parity	75,005,803	4.3	4.0	1.2	81	5.8	53	5.6	71	5.6	71	0.1	82	4.2	62	-	
eA Global TAA Net Median				2.5		6.3		7.0		7.0		1.5		5.0		4.3	
AQR Global Risk Premium	75,005,803	4.3	4.0	1.2	81	5.8	53	5.6	71	5.6	71	0.1	82	4.2	62		
60% MSCI World (Net) / 40% CITI WGBI				3.6	26	8.2	34	8.8	40	8.8	40	2.9	32	6.7	24	4.1	64
Cash	764,372	0.0	0.0														
Vermont Cash	764,372	0.0	0.0	0.0		0.0	-	0.0		0.0		0.0		0.0		0.7	
91 Day T-Bills				0.2		0.4		0.5		0.5		0.2		0.2		0.4	

Risk Parity Composite formerly shown as Risk Parity/GAA.

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



Total Fund Performance Detail - Net

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Total Real Estate	128,170,374	7.4	6.5	0.8		2.2		6.4		6.4		10.3		11.4			
NCREIF Property Index				1.8		3.3		7.0		7.0		10.2		10.5		6.4	
NCREIF ODCE				1.7		3.5		7.9		7.9		11.3		11.8		5.2	
UBS Trumbull	50,155,193	2.9		1.0		1.9		4.6		4.6		9.1		9.0		4.7	
Siguler Guff DREOF II	13,336,119	0.8		3.9		4.2		12.5	-	12.5		11.3					-
Siguler Guff DREOF II Co- Investment	4,038,258	0.2		2.3		5.9		-									
RREEF America REIT III	249,423	0.0		-2.9		-3.6		-16.1		-16.1		-3.0		6.3		-5.7	
Morgan Stanley Prime Property	60,262,935	3.5		0.0		1.9		6.7		6.7		11.4		12.4		5.2	
Transwestern / Aslan III	128,447	0.0		0.0		0.0		0.0		0.0		-3.8		9.4		-23.6	
Absolute Return	159,036,500	9.2	8.0	-0.2	80	-0.2	91	4.2	74	4.2	74	0.0	80	4.5	64		
HFRI Fund of Funds Composite Index				0.7	62	3.1	54	6.4	57	6.4	57	1.5	59	3.9	70	0.9	91
eV Alt Fund of Funds - Multi- Strategy Median				1.0		3.2		7.2		7.2		2.0		5.2		2.9	
Grosvenor	85,424,173	4.9	3.0	0.4	70	2.2	65	7.5	49	7.5	49	1.7	54	5.6	42		
Allianz Structured Alpha	31,764,261	1.8	2.0	1.4	41	2.3	65	5.0	67	5.0	67	8.0	6	6.4	31		
91 Day T-Bills				0.2	73	0.4	88	0.5	91	0.5	91	0.2	78	0.2	98	0.4	94
eV Alt Fund of Funds - Multi- Strategy Median				1.0		3.2		7.2		7.2		2.0		5.2		2.9	
Pinnacle Natural Resources, L.P.	41,671,356	2.4	3.0	-3.0		-10.9		-9.4	_	-9.4							
Bloomberg Commodity Index				-3.0		-5.3		-6.5		-6.5		-14.8		-9.2		-6.5	
GAM	176,710	0.0	0.0														

Absolute Return composite formerly shown as Hedge Funds composite. As of 04/01/2016, Absolute Return includes Allianz Structured Alpha. Allianz Structured Alpha was included Diversified Fixed income composite prior to 04/01/2016.

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

Real Estate values are finalized as of 06/30/2017. Morgan Stanley will be liquidated, funding UBS and SSgA Long US Treasury Index.



Total Fund Performance Detail - Net

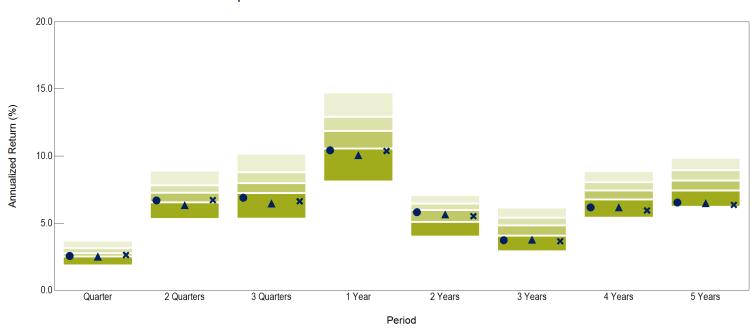
	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank
Private Equity	28,232,184	1.6	1.5	0.0		0.3		7.6		7.6		13.8			-		
Cambridge Associates US All PE				0.0		4.3		13.3		13.3		8.4		12.7		9.0	
Harbourvest Partners IX Credit Opportunities	960,511	0.1															
Harbourvest Partners IX Venture Fund	5,011,677	0.3															
Harbourvest Partners IX Buyout Fund	6,723,382	0.4															
Harbourvest Partners X Venture Fund	1,167,671	0.1															
Harbourvest Partners X Buyout Fund	2,423,377	0.1															
Harbourvest Dover VIII Fund	7,602,352	0.4															
Harbourvest Dover Street Fund IX	2,022,270	0.1															
HIPEP VII	2,320,943	0.1															

Harbourvest values based on final Capital Account Statements for Q1, and cash adjusted through Q2.



Total Fund Return Summary vs. Peer Universe - Net

Teachers Composite vs. InvestorForce Public DB Net

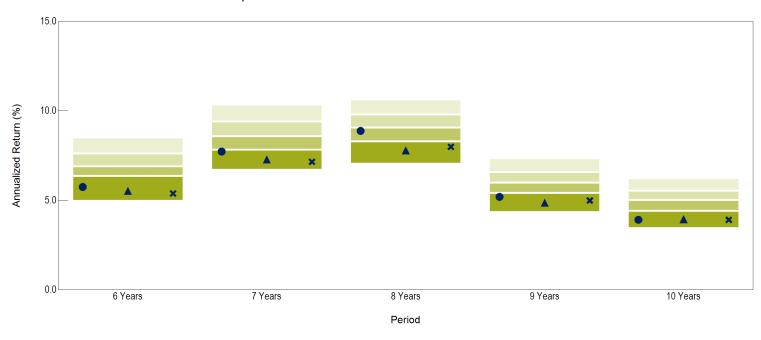


	Return (Rank)								
5th Percentile	3.7	8.9	10.2	14.7	7.1	6.2	8.9	9.9	
25th Percentile	3.2	7.8	8.8	12.9	6.5	5.4	8.1	9.0	
Median	2.8	7.3	8.0	11.9	6.0	4.9	7.4	8.2	
75th Percentile	2.5	6.6	7.3	10.6	5.1	4.1	6.8	7.4	
95th Percentile	1.9	5.3	5.4	8.1	4.0	2.9	5.4	6.2	
# of Portfolios	283	283	282	282	278	269	255	245	
Teachers Composite	2.6	(74) 6.7	(70) 6.9	(84) 10.4	(79) 5.8	(56) 3.7	(82) 6.2	(88) 6.5	(92)
▲ Policy Index	2.5	(77) 6.3	(82) 6.5	(90) 10.1	(84) 5.7	(59) 3.8	(81) 6.2	(88) 6.5	(93)
× Allocation Index	2.6	(63) 6.7	(70) 6.6	(89) 10.4	(80) 5.5	(61) 3.7	(84) 6.0	(91) 6.4	(94)



Total Fund Return Summary vs. Peer Universe - Net

Teachers Composite vs. InvestorForce Public DB Net



	Return (Rank)							
5th Percentile	8.5		10.3		10.6	7.3	6.2	
25th Percentile	7.6		9.4		9.8	6.6	5.5	
Median	6.9		8.6		9.1	6.0	5.0	
75th Percentile	6.4		7.8		8.3	5.4	4.4	
95th Percentile	5.0		6.7		7.0	4.4	3.5	
# of Portfolios	230		220		211	206	199	
 Teachers Composite 	5.7	(89)	7.7	(79)	8.9 (56)	5.2	(84) 3.9	(88)
Policy Index	5.5	(92)	7.3	(90)	7.8 (87)	4.9	(89) 3.9	(87)
× Allocation Index	5.4	(92)	7.1	(93)	8.0 (85)	5.0	(86) 3.9	(88)



Total Fund Return Summary vs. Peer Universe - Net

Teachers Composite vs. InvestorForce Public DB Net

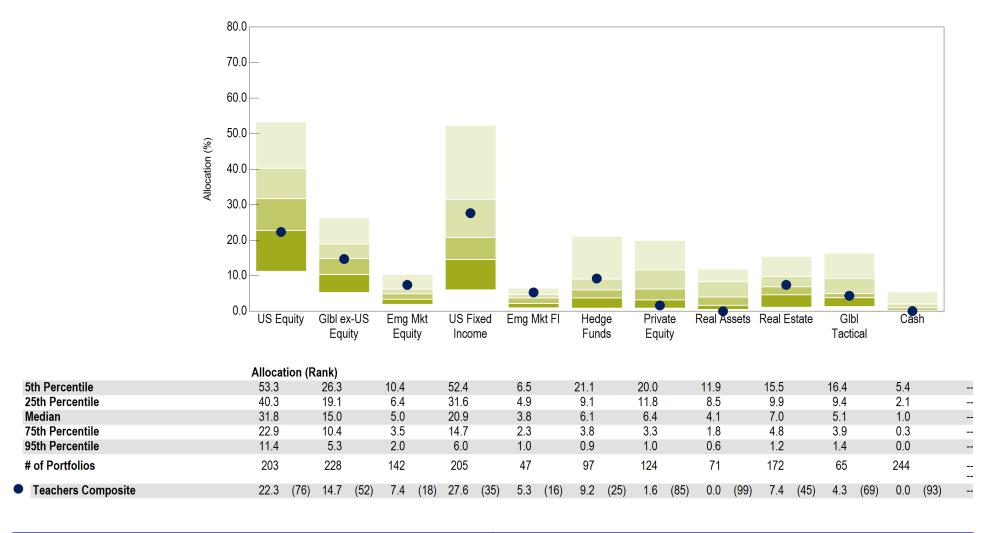


		Return (Rank)									
5th P	ercentile	14.7		2.8		4.4		18.6	15.0	4.4	
25th	Percentile	12.9		1.4		3.6		16.7	12.9	1.9	
Media	an	11.9		0.4		2.8		15.5	11.3	0.9	
75th	Percentile	10.6		-0.9		1.6		14.1	9.9	0.0	
95th	Percentile	8.1		-2.9		-0.1		11.9	7.4	-2.9	
# of F	Portfolios	282		258		231		173	192	147	
Tea	chers Composite	10.4	(79)	1.4	(25)	-0.3	(96)	13.9 (83)	8.0 ([94] 1.9	(26)
Pol	icy Index	10.1	(84)	1.4	(25)	0.1	(94)	13.7 (84)	7.7 ((94) 0.9	(51)
× Allo	ocation Index	10.4	(80)	0.9	(37)	0.0	(95)	13.1 (91)	8.0 ((94) 0.6	(59)



Total Fund Allocation vs. Peer Universe - Net

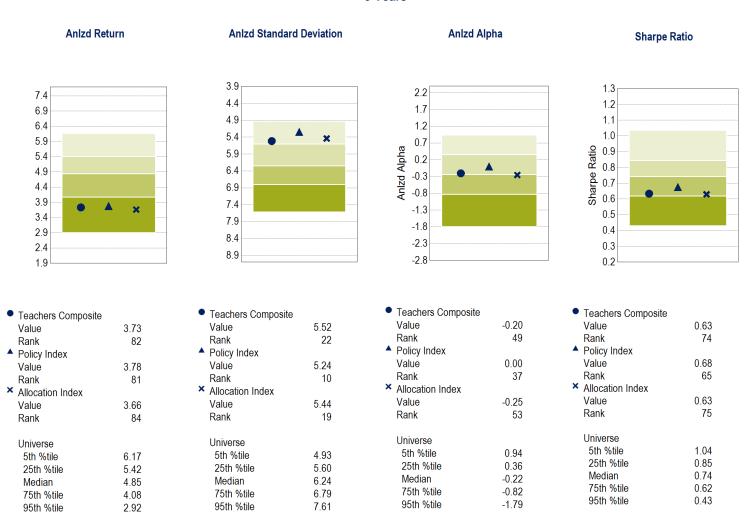
Total Plan Allocation vs. InvestorForce Public DB Net
As of June 30, 2017





Total Fund Risk Statistics vs. Peer Universe - Net

Teachers Composite vs. IFx Public DB Net 3 Years



Total Fund Risk Statistics vs. Peer Universe - Net

Teachers Composite vs. IFx Public DB Net 5 Years





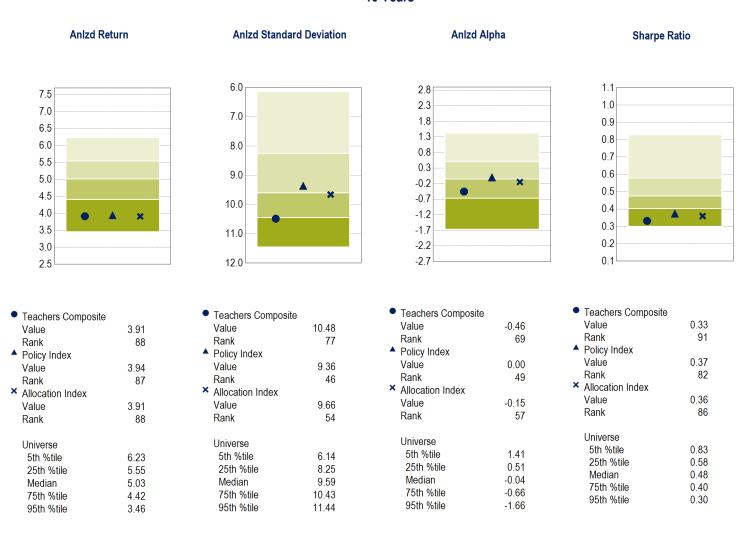
Total Fund Risk Statistics vs. Peer Universe - Net

Teachers Composite vs. IFx Public DB Net 7 Years



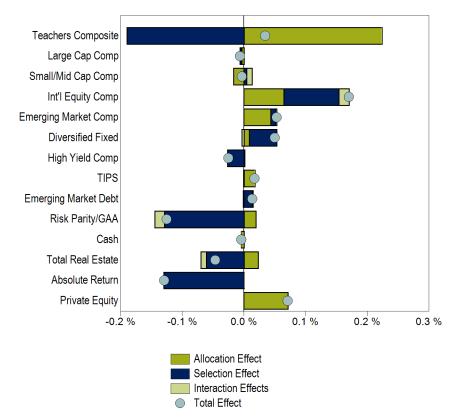
Total Fund Risk Statistics vs. Peer Universe - Net

Teachers Composite vs. IFx Public DB Net 10 Years



Total Fund Attribution Analysis - Net

Attribution Effects Relative to Policy Index 3 Months Ending June 30, 2017



Attribution Summary 3 Months Ending June 30, 2017

	Wtd. Notual Return	Vtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Large Cap Comp	2.9%	3.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Small/Mid Cap Comp	1.9%	1.6%	0.3%	0.0%	0.0%	0.0%	0.0%
Int'l Equity Comp	6.9%	6.0%	0.9%	0.1%	0.1%	0.0%	0.2%
Emerging Market Comp	6.4%	6.3%	0.1%	0.0%	0.0%	0.0%	0.1%
Diversified Fixed	1.7%	1.4%	0.2%	0.0%	0.0%	0.0%	0.0%
High Yield Comp	1.6%	2.2%	-0.5%	0.0%	0.0%	0.0%	0.0%
TIPS	-0.4%	-0.4%	0.0%	0.0%	0.0%	0.0%	0.0%
Emerging Market Debt	2.5%	2.2%	0.3%	0.0%	0.0%	0.0%	0.0%
Risk Parity/GAA	1.1%	3.6%	-2.5%	-0.1%	0.0%	0.0%	-0.1%
Cash	0.0%	0.2%	-0.2%	0.0%	0.0%	0.0%	0.0%
Total Real Estate	0.8%	1.8%	-0.9%	-0.1%	0.0%	0.0%	0.0%
Absolute Return	-0.2%	1.3%	-1.5%	-0.1%	0.0%	0.0%	-0.1%
Private Equity	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%
Total	2.6%	2.5%	0.1%	-0.2%	0.2%	0.0%	0.0%

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.

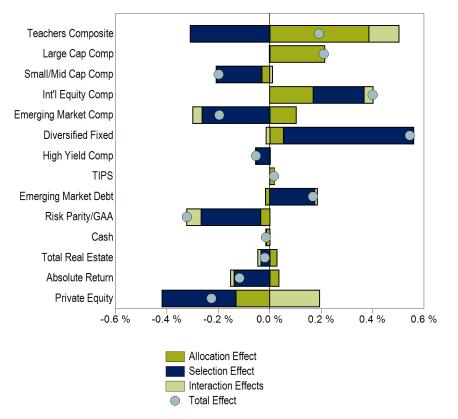
The allocation, selection, and interaction effects are calculated using the custom index described above alongwith the policy or target weight of each composite. May not add up due to rounding.

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 June 30, 2017



Attribution Summary 1 Year Ending June 30, 2017

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Large Cap Comp	17.7%	17.8%	0.0%	0.0%	0.2%	0.0%	0.2%
Small/Mid Cap Comp	18.6%	22.0%	-3.3%	-0.2%	0.0%	0.0%	-0.2%
Int'l Equity Comp	22.4%	20.3%	2.0%	0.2%	0.2%	0.0%	0.4%
Emerging Market Comp	18.7%	23.7%	-5.0%	-0.3%	0.1%	0.0%	-0.2%
Diversified Fixed	2.2%	-0.3%	2.6%	0.5%	0.1%	0.0%	0.5%
High Yield Comp	11.6%	12.7%	-1.1%	-0.1%	0.0%	0.0%	-0.1%
TIPS	-0.6%	-0.6%	0.0%	0.0%	0.0%	0.0%	0.0%
Emerging Market Debt	9.0%	5.5%	3.4%	0.2%	0.0%	0.0%	0.2%
Risk Parity/GAA	5.1%	8.8%	-3.7%	-0.2%	0.0%	-0.1%	-0.3%
Cash	0.0%	0.5%	-0.5%	0.0%	0.0%	0.0%	0.0%
Total Real Estate	6.4%	7.0%	-0.6%	0.0%	0.0%	0.0%	0.0%
Absolute Return	4.2%	5.7%	-1.5%	-0.1%	0.0%	0.0%	-0.1%
Private Equity	7.6%	13.3%	-5.7%	-0.3%	-0.1%	0.2%	-0.2%
Total	10.7%	10.2%	0.5%	-0.3%	0.4%	0.1%	0.2%

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.



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 June 30, 2017 - Net

Misk Statistics	J I Cui	3 Liluili	g June	5 50, 20	<i>)</i>	IVEL							
	% 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%	3.73%	82	5.52%	22	-0.19%	48	0.63	74	1.12	53	0.83%	28
Policy Index		3.78%	81	5.24%	10	0.00%	36	0.68	65	1.18	47	0.00%	1
US Equity	22.31%	9.29%	24	10.81%	28	0.11%	28	0.84	19	1.43	20	1.46%	2
Russell 3000		9.10%	27	10.63%	25	0.00%	29	0.83	19	1.37	24	0.00%	1
Large Cap Comp	17.13%	9.26%	27	10.44%	36	-0.41%	31	0.86	24	1.57	17	0.73%	1
S&P 500		9.61%	22	10.35%	34	0.00%	24	0.91	18	1.52	21	0.00%	1
Small/Mid Cap Comp	5.18%	9.53%	15	12.74%	43	3.55%	18	0.73	18	1.46	10	4.17%	3
Russell 2000		7.36%	38	15.38%	93	0.00%	61	0.46	57	0.77	53	0.00%	1
Int'l Equity Comp	14.71%	2.65%	46	11.78%	42	1.56%	45	0.20	45	0.36	43	2.06%	7
MSCI EAFE		1.15%	77	12.42%	76	0.00%	78	0.07	78	0.13	76	0.00%	1
Emerging Market Comp	7.42%	1.63%	55	15.29%	61	0.64%	55	0.09	56	0.18	49	5.16%	56
MSCI Emerging Markets		1.07%	68	16.06%	78	0.00%	67	0.05	67	0.10	66	0.00%	1
US Fixed Income	27.61%	3.43%	30	2.97%	61	1.27%	27	1.08	25	1.58	29	1.67%	35
BBgBarc US Aggregate TR		2.48%	52	2.90%	59	0.00%	76	0.77	61	1.07	66	0.00%	1
Diversified Fixed	18.05%	3.52%	28	3.02%	62	1.14%	28	1.09	24	1.38	40	1.21%	24
BBgBarc US Aggregate TR		2.48%	52	2.90%	59	0.00%	76	0.77	61	1.07	66	0.00%	1
Unconstrained Fixed Income	5.94%												
25% HY, 25% EMD, 50% BC Agg	-	3.56%	16	3.68%	51	0.00%	48	0.90	28	1.50	28	0.00%	1
High Yield Comp	4.84%	4.35%	30	5.03%	42	0.69%	38	0.82	41	1.48	48	1.61%	36
BBgBarc US High Yield TR		4.48%	28	6.09%	83	0.00%	57	0.70	55	1.56	40	0.00%	1
TIPS	4.72%	0.58%	29	3.91%	70	-0.06%	27	0.09	28	0.15	21	0.18%	4
BBgBarc US TIPS TR		0.63%	23	3.83%	59	0.00%	18	0.10	18	0.18	18	0.00%	1
Emerging Market Debt	5.29%	5.05%	9	6.14%	28	0.44%	15	0.78	13	1.21	16	1.32%	9
JP Morgan EMBI Global TR		4.64%	18	6.04%	27	0.00%	25	0.73	21	1.07	22	0.00%	1
Total Real Estate	7.43%	10.27%		4.49%		-0.05%		2.23		138.27		1.16%	
NCREIF Property Index		10.16%		4.28%		0.00%		2.32		136.87		0.00%	
Absolute Return	9.21%	0.03%	80	3.15%	21	-1.27%	75	-0.06	83	-0.08	83	1.64%	5
HFRI Fund of Funds Composite Index		1.53%	59	3.30%	27	0.00%	56	0.39	51	0.45	56	0.00%	1
Risk Parity/GAA	4.35%	0.44%	79	7.32%	62	-2.01%	80	0.03	79	0.05	78	4.44%	41
60% MSCI World (Net) / 40% CITI WGBI	-	2.86%	32	7.04%	55	0.00%	42	0.37	38	0.74	26	0.00%	1



Vermont State Teachers

Risk Statistics - 5 Years Ending June 30, 2017 - Net

	% 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%	6.54%	92	5.38%	27	-0.29%	64	1.19	82	2.10	65	0.81%	23
Policy Index		6.48%	93	5.05%	13	0.00%	46	1.25	74	2.24	49	0.00%	1
US Equity	22.31%												
Russell 3000		14.58%	34	9.80%	18	0.00%	29	1.47	12	2.53	17	0.00%	1
Large Cap Comp	17.13%	14.89%	23	9.66%	28	0.16%	21	1.53	10	2.90	7	0.75%	1
S&P 500		14.63%	28	9.56%	24	0.00%	26	1.51	11	2.61	18	0.00%	1
Small/Mid Cap Comp	5.18%	14.73%	25	11.88%	46	3.28%	37	1.23	28	2.55	9	3.57%	1
Russell 2000		13.70%	44	13.88%	87	0.00%	85	0.98	75	1.61	70	0.00%	1
Int'l Equity Comp	14.71%	9.99%	43	11.20%	38	1.81%	43	0.88	40	1.62	29	2.08%	7
MSCI EAFE		8.69%	67	11.74%	71	0.00%	79	0.73	72	1.28	67	0.00%	1
Emerging Market Comp	7.42%	3.94%	73	14.40%	70	0.19%	71	0.26	72	0.44	69	4.74%	51
MSCI Emerging Markets		3.96%	73	14.40%	70	0.00%	75	0.26	72	0.44	69	0.00%	1
US Fixed Income	27.61%												
BBgBarc US Aggregate TR		2.21%	61	2.86%	52	0.00%	83	0.72	77	0.98	74	0.00%	1
Diversified Fixed	18.05%	2.91%	47	3.18%	64	0.61%	53	0.86	62	1.10	64	1.12%	24
BBgBarc US Aggregate TR		2.21%	61	2.86%	52	0.00%	83	0.72	77	0.98	74	0.00%	1
Unconstrained Fixed Income	5.94%												
25% HY, 25% EMD, 50% BC Agg		4.15%	43	3.78%	57	0.00%	72	1.06	50	1.51	53	0.00%	1
High Yield Comp	4.84%	6.47%	35	4.39%	30	0.84%	33	1.44	34	2.27	46	1.36%	36
BBgBarc US High Yield TR		6.89%	25	5.28%	76	0.00%	64	1.27	58	2.37	41	0.00%	1
TIPS	4.72%	0.20%	57	4.56%	73	-0.07%	55	0.01	56	0.01	56	0.16%	1
BBgBarc US TIPS TR		0.27%	37	4.52%	59	0.00%	40	0.02	40	0.03	40	0.00%	1
Emerging Market Debt	5.29%	5.90%	14	6.65%	28	0.91%	16	0.86	16	1.20	15	1.27%	7
JP Morgan EMBI Global TR		5.20%	29	6.81%	31	0.00%	30	0.74	26	1.04	30	0.00%	1
Total Real Estate	7.43%	11.41%		4.87%		-0.02%		2.31		185.30		1.39%	
NCREIF Property Index		10.49%		4.30%		0.00%		2.40		170.08		0.00%	
Absolute Return	9.21%	4.52%	64	3.53%	33	0.80%	57	1.24	43	1.87	40	1.62%	6
HFRI Fund of Funds Composite Index		3.86%	70	3.25%	27	0.00%	67	1.14	49	1.51	53	0.00%	1
Risk Parity/GAA	4.35%	4.34%	59	7.23%	64	-1.76%	82	0.58	71	0.86	74	4.12%	44
60% MSCI World (Net) / 40% CITI WGBI	-	6.75%	24	6.63%	53	0.00%	47	0.99	17	2.07	5	0.00%	1

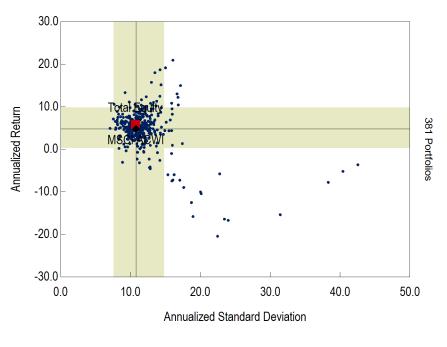


Manager Characteristics



Total Equity Composite

Annualized Return vs. Annualized Standard Deviation 3 Years Ending June 30, 2017



- Total Equity
- ◆ MSCI ACWI
- 68% Confidence Interval
- eA All Global Equity Net

U.S. Effective Style Map 3 Years Ending June 30, 2017



First Rolling Period

♦ Last Rolling Period

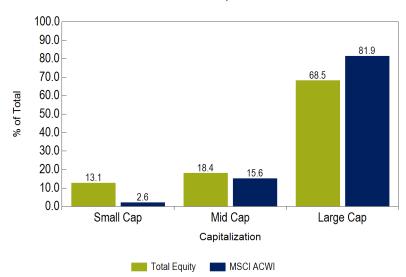


Total Equity Composite

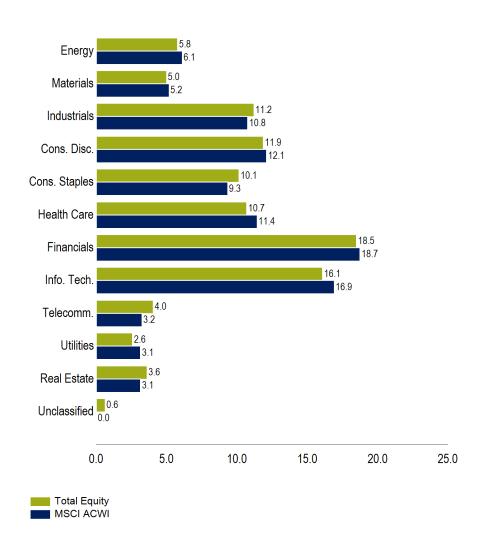
Characteristics

	Portfolio	MSCI ACWI
Number of Holdings	2,903	2,501
Weighted Avg. Market Cap. (\$B)	71.69	104.74
Median Market Cap. (\$B)	8.36	9.35
Price To Earnings	23.50	23.01
Price To Book	4.02	3.49
Price To Sales	2.97	2.87
Return on Equity (%)	17.38	15.98
Yield (%)	2.21	2.40
Beta	0.98	1.00
R-Squared	0.98	1.00

Market Capitalization As of June 30, 2017



Sector Allocation (%) vs MSCI ACWI





Total Equity Composite

Top Positive Contributors

Top Negative Contributors

Top Ten Holdings	
ASTRA INTERNATIONAL	1.4%
SAMSUNG ELECTRONICS	1.4%
TELEKOMUNIKASI INDONESIA	1.1%
APPLE	1.1%
BANK CENTRAL ASIA	1.0%
SAMSUNG ELTN.PREF.	1.0%
TAIWAN SEMICON.MNFG.	0.9%
BANK RAKYAT INDONESIA	0.8%
MICROSOFT	0.8%
HOUSING DEVELOPMENT FIN.	0.7%

	Relative	
	Contribution %	Return %
SAMSUNG ELTN.PREF.	0.1%	13.5%
ITC	0.1%	17.7%
YUM CHINA ORD	0.1%	45.0%
GPO FINANCE BANORTE	0.1%	15.5%
AIA GROUP	0.1%	17.2%
TAIWAN SEMICON.MNFG.	0.1%	13.6%
QANTAS AIRWAYS	0.1%	47.8%
GRUPO AEROPORTUARIO DEL SURESTE ADR 1:10	0.1%	23.5%
FOM.ECO.MEXNO.SAB DE CV SPN.ADR 1:10	0.1%	11.9%
AYALA LAND	0.1%	19.6%

	Relative	
	Contribution %	Return %
TENCENT HOLDINGS	-0.1%	25.0%
ALIBABA GROUP HLDG.SPN. ADR 1:1	-0.1%	30.7%
NESTLE 'R'	-0.1%	16.9%
HSBC HDG. (ORD \$0.50)	-0.1%	14.9%
BNC.BRADESCO PF.SPN.ADR 1:1	0.0%	-8.5%
MASSMART	0.0%	-20.7%
TRUWORTHS INTL.	0.0%	-15.5%
NOVO NORDISK 'B'	0.0%	24.2%
WW GRAINGER	0.0%	-21.9%
HON HAI PRECN.IND.	0.0%	28.2%

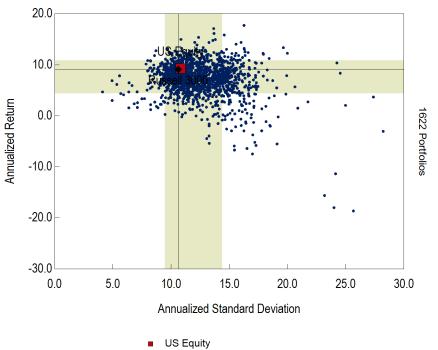
Equity Sector Attribution

			Attribution Effects		F	Returns		or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.0%	0.0%	0.0%	-4.8%	-4.7%	6.6%	6.7%
Materials	0.1%	0.1%	0.0%	0.0%	3.2%	2.1%	6.0%	5.3%
Industrials	0.0%	0.0%	0.0%	0.0%	5.5%	5.8%	11.3%	10.6%
Consumer Discretionary	-0.2%	-0.1%	0.0%	-0.1%	2.8%	4.2%	11.2%	12.1%
Consumer Staples	-0.1%	0.0%	0.0%	-0.1%	3.8%	4.5%	9.9%	9.5%
Health Care	0.4%	0.4%	0.0%	0.0%	10.3%	7.0%	11.2%	11.1%
Financials	0.0%	0.1%	0.0%	-0.1%	5.7%	5.2%	17.3%	18.5%
Information Technology	-0.1%	-0.1%	0.0%	0.0%	6.2%	6.7%	16.1%	16.4%
Telecommunication Services	0.0%	0.0%	0.0%	0.0%	-1.1%	-0.1%	3.1%	3.4%
Utilities	0.0%	0.0%	0.0%	0.0%	3.7%	3.7%	2.8%	3.1%
Real Estate	0.0%	0.0%	0.0%	0.0%	4.0%	4.3%	4.2%	3.1%
Cash	0.0%	0.0%	0.0%	0.0%	0.2%		0.4%	0.0%
Portfolio	0.1%	= 0.4%	+ 0.0%	+ -0.3%	4.5%	4.4%	100.0%	100.0%



Domestic Equity Composite

Annualized Return vs. Annualized Standard Deviation 3 Years Ending June 30, 2017



- Russell 3000
- 68% Confidence Interval
- eA All US Equity Net

U.S. Effective Style Map 3 Years Ending June 30, 2017



First Rolling Period

♦ Last Rolling Period

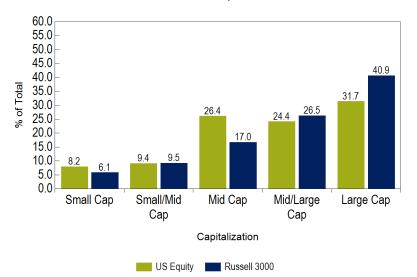


Domestic Equity Composite

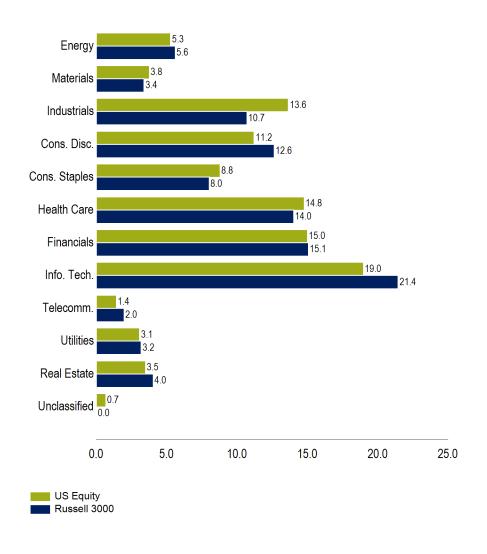
Characteristics

	Portfolio	Russell 3000
Number of Holdings	630	3,000
Weighted Avg. Market Cap. (\$B)	101.87	128.51
Median Market Cap. (\$B)	11.69	1.56
Price To Earnings	26.37	24.73
Price To Book	4.84	4.17
Price To Sales	3.46	3.48
Return on Equity (%)	18.08	16.72
Yield (%)	1.82	1.87
Beta	1.01	1.00
R-Squared	0.98	1.00

Market Capitalization As of June 30, 2017



Sector Allocation (%) vs Russell 3000



Domestic Equity Composite

Top Positive Contributors

Top Negative Contributors

Relative

Top Ten Holdings	
APPLE	2.2%
MICROSOFT	1.6%
AMAZON.COM	1.1%
JOHNSON & JOHNSON	1.1%
FACEBOOK CLASS A	1.1%
EXXON MOBIL	1.0%
JP MORGAN CHASE & CO.	1.0%
BERKSHIRE HATHAWAY 'B'	1.0%
ALPHABET 'A'	0.8%
ALPHABET 'C'	0.8%

	Relative	
	Contribution %	Return %
SAMSUNG ELTN.PREF.	0.1%	13.5%
TAIWAN SEMICON.MNFG.	0.1%	13.6%
AIA GROUP	0.1%	17.2%
ITC	0.1%	17.7%
GPO FINANCE BANORTE	0.1%	15.5%
GENERAL ELECTRIC	0.1%	-8.6%
YUM CHINA ORD	0.1%	45.0%
AT&T	0.1%	-8.1%
GRUPO AEROPORTUARIO DEL SURESTE ADR 1:10	0.1%	23.5%
FOM.ECO.MEXNO.SAB DE CV SPN.ADR 1:10	0.0%	11.9%

	Contribution %	Return %
AMAZON.COM	-0.1%	9.2%
MICROSOFT	-0.1%	5.2%
ORACLE	-0.1%	12.9%
ALPHABET 'A'	-0.1%	9.7%
JOHNSON & JOHNSON	-0.1%	6.9%
ALPHABET 'C'	-0.1%	9.5%
UNITEDHEALTH GROUP	-0.1%	13.5%
CITIGROUP	-0.1%	12.1%
MCDONALDS	-0.1%	18.9%
FACEBOOK CLASS A	-0.1%	6.3%

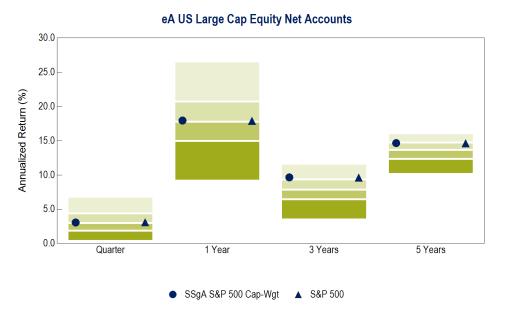
Equity Sector Attribution

			Attribution Effects		F	Sector Weights		
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.1%	0.1%	-0.1%	0.1%	-4.8%	-7.7%	6.6%	6.1%
Materials	0.0%	0.0%	0.0%	0.1%	3.2%	2.6%	6.0%	3.4%
Industrials	0.2%	0.0%	0.0%	0.1%	5.5%	4.2%	11.3%	10.7%
Consumer Discretionary	0.0%	-0.1%	0.0%	0.1%	2.8%	3.0%	11.2%	12.7%
Consumer Staples	0.2%	0.2%	0.0%	0.1%	3.8%	1.2%	9.9%	8.3%
Health Care	0.2%	0.2%	-0.1%	0.1%	10.3%	7.4%	11.2%	13.4%
Financials	0.3%	0.1%	0.0%	0.2%	5.7%	3.8%	17.3%	15.0%
Information Technology	0.2%	0.4%	-0.1%	-0.1%	6.2%	4.3%	16.1%	21.2%
Telecommunication Services	0.1%	0.1%	-0.1%	0.1%	-1.1%	-6.6%	3.1%	2.2%
Utilities	0.0%	0.0%	0.0%	0.0%	3.7%	2.2%	2.8%	3.2%
Real Estate	0.1%	0.1%	0.0%	0.0%	4.0%	2.3%	4.2%	4.0%
Cash	0.0%	0.0%	0.0%	0.0%	0.2%		0.5%	0.0%
Portfolio	1.5%	= 1.1%	+ -0.3%	+ 0.8%	4.5%	3.0%	100.0%	100.0%

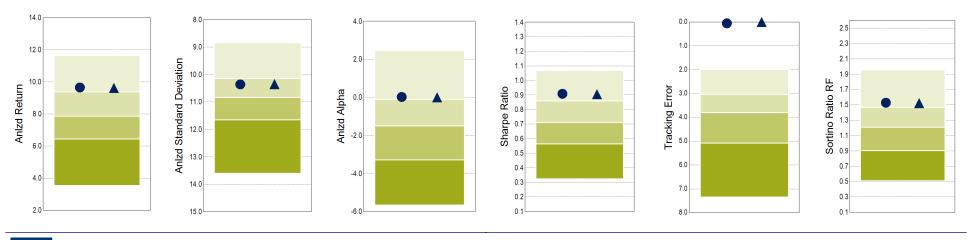


SSgA S&P 500 Cap-Wgt

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.



3 Year Risk Statistics





SSgA S&P 500 Cap-Wgt

Top Positive Contributors

Top Negative Contributors

				Relative			Relative	
Characteristics		S&P 500		Contribution %	Return %		Contribution %	Return %
Number of Holdings	505	505	CONSTELLATION BRANDS 'A'	0.0%	19.9%	O REILLY AUTOMOTIVE	0.0%	-18.9%
Weighted Avg. Market Cap. (\$B)	154.9	154.7	CSX	0.0%	17.6%	EQUINIX	0.0%	7.7%
Median Market Cap. (\$B)	20.6	20.6	INTUITIVE SURGICAL	0.0%	22.0%	H&R BLOCK (HRB)	0.0%	34.0%
Price To Earnings	25.1	24.7	THERMO FISHER SCIENTIFIC (TMO)	0.0%	13.7%	ALEXANDRIA RLST.EQTIES.	0.0%	9.8%
Price To Book	5.4	4.6	TRANSOCEAN	0.0%	-33.9%	REGENERON PHARMS. (REGN)	0.0%	26.7%
Price To Sales	3.6	3.4	ABBVIE (ABBV)	0.0%	12.4%	AUTOZONE (AZO)	0.0%	-21.1%
Return on Equity (%)	20.3	19.0	VISA 'A' (V)	0.0%	5.7%	EDWARDS LIFESCIENCES (EW)	0.0%	25.7%
Yield (%)	2.0	2.0	SOUTHWESTERN ENERGY (SWN)	0.0%	-25.6%	DISCOVER FINANCIAL SVS.	0.0%	-8.6%
Beta	1.0	1.0	ANADARKO PETROLEUM	0.0%	-26.8%	STATE STREET	0.0%	13.2%
R-Squared	1.0	1.0	NVIDIA (NVDA)	0.0%	32.8%	INTERNATIONAL BUS.MCHS.	0.0%	-10.8%

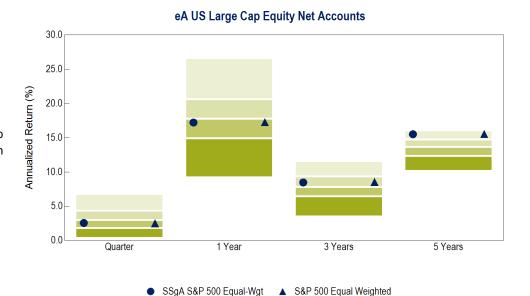
SSgA S&P 500 Cap-Wgt Performance Attribution vs. S&P 500

			Attribution Effects	i	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%	-6.4%	-6.4%	6.6%	6.6%
Materials	0.0%	0.0%	0.0%	0.0%	2.9%	2.8%	2.9%	2.9%
Industrials	0.0%	0.0%	0.0%	0.0%	4.9%	4.9%	10.1%	10.0%
Consumer Discretionary	0.0%	0.0%	0.0%	0.0%	2.4%	2.4%	12.3%	12.3%
Consumer Staples	0.0%	0.0%	0.0%	0.0%	1.6%	1.6%	9.3%	9.2%
Health Care	0.0%	0.0%	0.0%	0.0%	7.1%	7.1%	13.9%	13.9%
Financials	0.0%	0.0%	0.0%	0.0%	4.3%	4.3%	14.4%	14.4%
Information Technology	0.0%	0.0%	0.0%	0.0%	4.1%	4.1%	22.1%	22.1%
Telecommunication Services	0.0%	0.0%	0.0%	0.0%	-7.1%	-7.1%	2.4%	2.4%
Utilities	0.0%	0.0%	0.0%	0.0%	2.2%	2.2%	3.2%	3.2%
Real Estate	0.0%	0.0%	0.0%	0.0%	2.8%	2.8%	2.9%	2.9%
Cash	0.0%						0.0%	0.0%
Portfolio	0.0%	= 0.0%	+ 0.0%	+ 0.0%	3.1%	3.1%	100.0%	100.0%

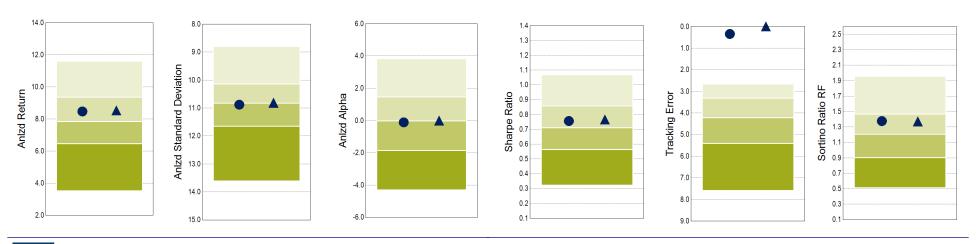


SSgA S&P 500 Equal-Wgt

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.



3 Year Risk Statistics





SSgA S&P 500 Equal-Wgt

Top Positive Contributors

Top Negative Contributors

				Relative			Relative	
Characteristics				Contribution	Return %		Contribution	Return %
	Portfolio	S&P 500		%	rtotaiii 70		%	NGIUIII 70
Number of Holdings	497	505	GENERAL ELECTRIC (GE)	0.1%	-8.6%	AMAZON.COM (AMZN)	-0.1%	9.2%
Weighted Avg. Market Cap. (\$B)	41.8	154.7	AT&T	0.1%	-8.1%	MICROSOFT (MSFT)	-0.1%	5.2%
Median Market Cap. (\$B)	20.3	20.6	WHOLE FOODS MARKET (WFM)	0.1%	43.0%	ALPHABET 'A'	-0.1%	9.7%
Price To Earnings	25.4	24.7	H&R BLOCK	0.1%	34.0%	ALPHABET 'C'	-0.1%	9.5%
Price To Book	4.5	4.6	INTERNATIONAL BUS.MCHS.	0.1%	-10.8%	JOHNSON & JOHNSON (JNJ)	-0.1%	6.9%
Price To Sales	3.1	3.4	VERIZON COMMUNICATIONS	0.1%	-7.3%	FACEBOOK CLASS A (FB)	-0.1%	6.3%
Return on Equity (%)	18.3	19.0	CISCO SYSTEMS	0.0%	-6.6%	UNITEDHEALTH GROUP (UNH)	-0.1%	13.5%
Yield (%)	1.9	2.0	WALT DISNEY (DIS)	0.0%	-6.3%	CITIGROUP	-0.1%	12.1%
Beta	1.0	1.0	INTEL (INTC)	0.0%	-5.8%	JP MORGAN CHASE & CO. (JPM)	-0.1%	4.6%
R-Squared	0.9	1.0	C R BARD	0.0%	27.3%	TRANSOCEAN	-0.1%	-33.9%

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

		_	Attribution Effects	;	R	Returns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	-0.3%	-0.3%	0.0%	0.0%	-10.5%	-6.4%	6.8%	6.6%
Materials	0.0%	0.0%	0.1%	0.0%	2.3%	2.8%	5.2%	2.9%
Industrials	0.0%	-0.1%	0.2%	0.0%	3.9%	4.9%	13.5%	10.0%
Consumer Discretionary	-0.2%	-0.2%	0.1%	-0.1%	0.5%	2.4%	16.4%	12.3%
Consumer Staples	-0.1%	-0.1%	0.0%	0.0%	0.7%	1.6%	6.6%	9.2%
Health Care	0.1%	0.2%	-0.1%	0.0%	8.8%	7.1%	12.3%	13.9%
Financials	0.0%	0.1%	-0.1%	0.0%	5.1%	4.3%	13.0%	14.4%
Information Technology	-0.4%	-0.1%	-0.4%	0.1%	3.4%	4.1%	13.4%	22.1%
Telecommunication Services	0.2%	0.1%	0.1%	-0.1%	-2.0%	-7.1%	0.8%	2.4%
Utilities	0.0%	0.0%	0.1%	0.0%	1.8%	2.2%	5.7%	3.2%
Real Estate	0.0%	0.0%	0.1%	0.0%	1.9%	2.8%	6.2%	2.9%
Cash	0.0%	0.0%	0.0%	0.0%	0.2%		0.1%	0.0%
Portfolio	-0.6%	= -0.5%	+ 0.0%	+ -0.2%	2.5%	3.1%	100.0%	100.0%

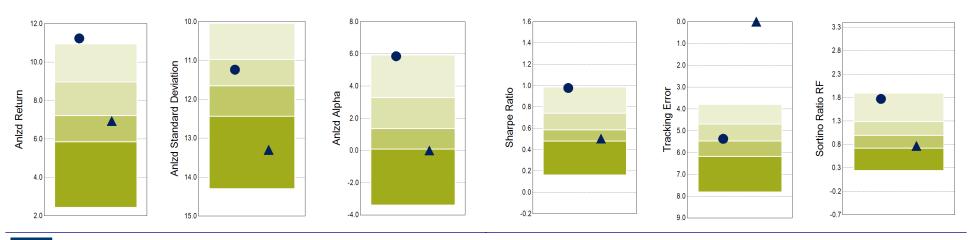


Champlain

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.



3 Year Risk Statistics





Champlain

Top Positive Contributors

Top Negative Contributors

Characteristics				Relative			Relative	
	Portfolio	Russell 2500		Contributio n %	Return %		Contribution %	Return %
Number of Holdings	61	2,509	WHOLE FOODS MARKET	0.8%	43.0%	WW GRAINGER	-0.5%	-21.9%
Weighted Avg. Market Cap. (\$B)	9.8	4.4	ALIGN TECHNOLOGY	0.5%	30.9%	ADV.AUTO PARTS (AAP)	-0.4%	-21.3%
Median Market Cap. (\$B)	8.6	1.1	INTEGRA LFSC.HDG. (IART)	0.5%	29.4%	FLOWERS FOODS	-0.2%	-10.0%
Price To Earnings	34.4	24.5	C R BARD	0.5%	27.3%	SNYDERS LANCE	-0.2%	-13.7%
Price To Book	5.8	3.3	COOPER COS. (COO)	0.5%	19.8%	AKAMAI TECHS. (AKAM)	-0.2%	-16.6%
Price To Sales	3.9	3.1	STERIS (STE)	0.4%	17.7%	J M SMUCKER (SJM)	-0.2%	-9.2%
Return on Equity (%)	14.1	12.1	TABLEAU SOFTWARE CL.A	0.3%	23.7%	CORE LABORATORIES	-0.2%	-11.9%
Yield (%)	1.0	1.3	PALO ALTO NETWORKS	0.3%	18.8%	FASTENAL	-0.1%	-14.9%
Beta	0.8	1.0	NORTHERN TRUST	0.3%	12.8%	MOLSON COORS BREWING 'B' (TAP)	-0.1%	-9.4%
R-Squared	0.8	1.0	IDEX	0.3%	21.3%	SPLUNK	-0.1%	-8.7%

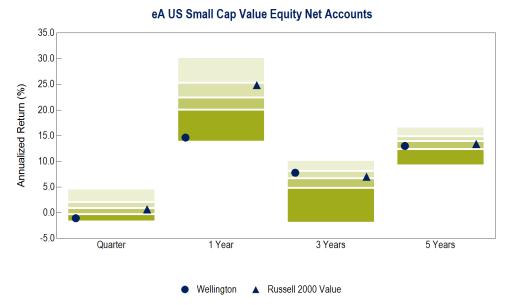
Champlain Performance Attribution vs. Russell 2500

			Attribution Effects	5	R	eturns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.6%	0.1%	0.5%	-0.1%	-17.3%	-20.1%	1.7%	4.4%
Materials	0.2%	0.5%	-0.1%	-0.3%	11.1%	2.3%	2.8%	6.0%
Industrials	-0.1%	-0.1%	0.0%	0.0%	0.7%	1.3%	17.2%	15.6%
Consumer Discretionary	-0.8%	-1.4%	-0.2%	0.8%	-8.9%	2.3%	5.6%	12.6%
Consumer Staples	0.0%	0.1%	-0.3%	0.3%	-0.7%	-3.0%	14.3%	3.1%
Health Care	2.6%	0.9%	0.9%	0.8%	17.4%	9.4%	21.3%	11.5%
Financials	0.0%	0.1%	-0.1%	0.0%	2.3%	1.8%	13.9%	17.4%
Information Technology	0.9%	0.5%	0.2%	0.1%	8.3%	5.1%	20.0%	15.3%
Telecommunication Services	0.0%		0.0%			3.1%	0.0%	0.6%
Utilities	-0.1%		-0.1%			1.8%	0.0%	3.8%
Real Estate	-0.1%		-0.1%			1.4%	0.0%	9.8%
Cash	0.0%	0.0%	0.0%	0.0%	0.2%		3.2%	0.0%
Portfolio	3.2%	= 0.7%	+ 0.9%	+ 1.6%	5.2%	2.1%	100.0%	100.0%

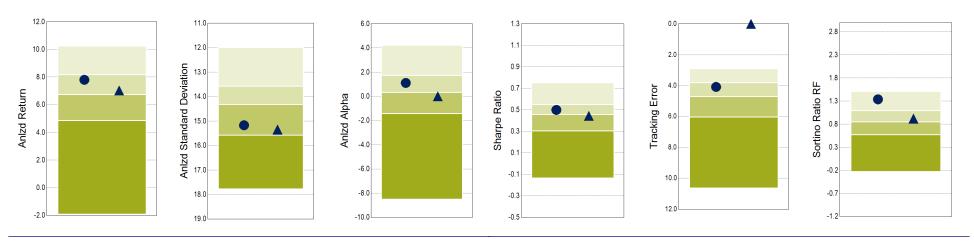


Wellington

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.



3 Year Risk Statistics





Wellington

	Characteristics		Top Positive Cont	Top Negative Contributors				
Characteristics	5	Russell		Relative			Relative	
	Portfolio	2000 Value		Contributio n %	Return %		Contribution %	Return %
Number of Holdings	74	1,399	WNS HDG.ADR 1:1 (WNS)	0.3%	20.1%	SMART & FINAL STORES	-0.4%	-24.8%
Weighted Avg. Market Cap. (\$B)	1.7	1.8	PHIBRO ANIMAL HLTH.CL.A (PAHC)	0.2%	32.2%	FRED'S 'A' (FRED)	-0.3%	-29.2%
Median Market Cap. (\$B)	1.2	0.7	SUMMIT HOTEL PROPERTIES (INN)	0.2%	17.9%	MUELLER INDUSTRIES	-0.3%	-10.7%
Price To Earnings	26.0	20.1	CHAS.RVR.LABS.INTL. (CRL)	0.2%	12.5%	CUBIC (CUB)	-0.3%	-12.3%
Price To Book	2.3	1.7	ICU MEDICAL	0.2%	13.0%	FTI CONSULTING (FCN)	-0.3%	-15.1%
Price To Sales	2.4	2.7	HANCOCK HOLDING (HBHC)	0.2%	8.1%	SEACOR HDG.	-0.2%	-16.7%
Return on Equity (%)	8.5	7.4	FORWARD AIR	0.1%	12.3%	SP PLUS (SP)	-0.2%	-9.5%
Yield (%)	1.6	1.7	BABCOCK & WILCOX ENTS. (BW)	0.1%	25.9%	RESOLUTE ENERGY (REN)	-0.2%	-26.3%
Beta	1.0	1.0	PRIMORIS SERVICES (PRIM)	0.1%	7.6%	MATTHEWS INTL.'A' (MATW)	-0.2%	-9.2%
R-Squared	0.9	1.0	GATX (GATX)	0.1%	6.1%	TESCO	-0.2%	-44.7%

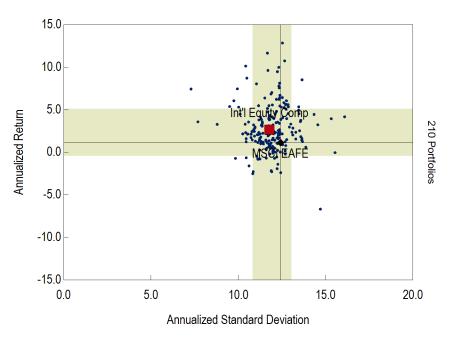
Wellington Performance Attribution vs. Russell 2000 Value

			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%	-21.3%	-20.8%	5.1%	5.2%
Materials	0.2%	0.1%	0.0%	0.1%	1.1%	-1.6%	7.0%	4.9%
Industrials	-1.7%	-1.0%	0.7%	-1.4%	-3.7%	4.3%	30.5%	12.9%
Consumer Discretionary	-0.9%	-1.8%	-0.2%	1.0%	-14.2%	3.4%	4.2%	10.0%
Consumer Staples	-0.3%	-0.2%	0.0%	0.0%	-15.9%	-7.5%	3.0%	2.8%
Health Care	0.4%	0.1%	0.3%	0.1%	7.2%	6.0%	9.1%	4.8%
Financials	-0.2%	-0.2%	-0.1%	0.1%	0.8%	1.2%	21.1%	32.3%
Information Technology	0.2%	0.3%	0.0%	-0.1%	2.4%	-0.2%	6.6%	10.2%
Telecommunication Services	0.0%		0.0%			2.3%	0.0%	0.6%
Utilities	-0.1%	0.0%	-0.1%	0.0%	2.3%	2.5%	3.4%	6.5%
Real Estate	0.1%	0.2%	0.0%	-0.1%	2.8%	0.8%	6.1%	9.7%
Cash	0.0%	0.0%	0.0%	0.0%	0.2%		3.9%	0.0%
Portfolio	-2.4%	= -2.6%	+ 0.5%	+ -0.4%	-2.0%	0.4%	100.0%	100.0%



Int'l Equity Composite

Annualized Return vs. Annualized Standard Deviation 3 Years Ending June 30, 2017



- Int'l Equity Comp
- ◆ MSCI EAFE
- 68% Confidence Interval
- eA All EAFE Equity Net

U.S. Effective Style Map 3 Years Ending June 30, 2017



First Rolling Period

♦ Last Rolling Period



Int'l Equity Composite

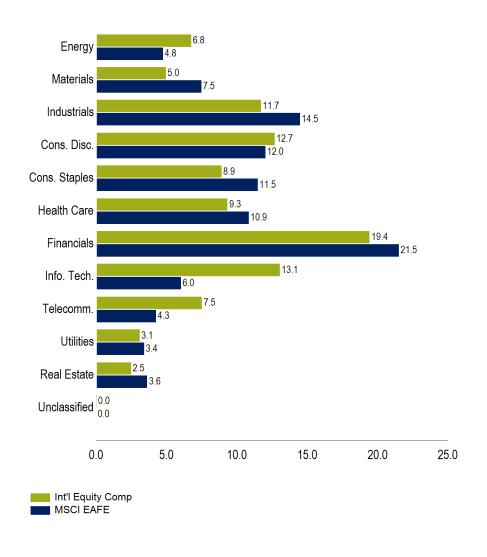
Characteristics

	Portfolio	MSCI EAFE
Number of Holdings	2,257	927
Weighted Avg. Market Cap. (\$B)	42.99	55.81
Median Market Cap. (\$B)	6.70	10.24
Price To Earnings	19.99	21.00
Price To Book	2.84	2.51
Price To Sales	2.04	2.08
Return on Equity (%)	15.60	13.13
Yield (%)	2.65	3.03
Beta	0.94	1.00
R-Squared	0.97	1.00

Market Capitalization As of June 30, 2017



Sector Allocation (%) vs MSCI EAFE



Int'l Equity Composite

Top Positive Contributors

Top Negative Contributors

			Relative			Relative	
Top Ten Holdings			Contribution	Return %		Contribution	Return %
SAMSUNG ELECTRONICS	4.1%		%			%	
TELEKOMUNIKASI INDONESIA	3.4%	QANTAS AIRWAYS	0.3%	47.8%	HSBC HDG. (ORD \$0.50)	-0.2%	14.9%
ASTRA INTERNATIONAL	2.7%	DEUTSCHE LUFTHANSA	0.3%	44.9%	NESTLE 'R'	-0.2%	16.9%
BANK CENTRAL ASIA	2.6%	IPSEN	0.2%	37.3%	NOVO NORDISK 'B'	-0.1%	24.2%
BANK RAKYAT INDONESIA	2.5%	ICON	0.2%	22.7%	AIA GROUP	-0.1%	17.2%
BANK MANDIRI	1.8%	ARISTOCRAT LEISURE	0.2%	27.1%	NINTENDO	-0.1%	44.6%
UNILEVER INDONESIA	1.1%	LONZA GROUP	0.2%	25.1%	HONDA MOTOR	-0.1%	-8.6%
SANOFI	1.0%	TELIASONERA	0.1%	12.3%	ING GROEP	-0.1%	16.8%
HONDA MOTOR	0.9%	ALLIANZ	0.1%	11.2%	VODAFONE GROUP	-0.1%	13.0%
TAKEDA PHARMACEUTICAL	0.9%	G4S	0.1%	13.5%	TESCO	-0.1%	-5.5%
		SAMSUNG ELECTRONICS	0.1%	12.8%	LVMH	-0.1%	14.5%

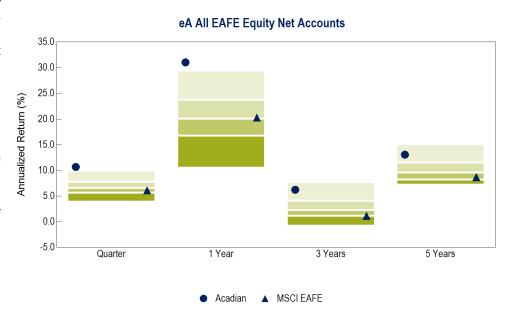
Equity Sector Attribution

			Attribution Effects		Returns			or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.0%	0.1%	-0.3%	0.3%	1.2%	-0.5%	9.4%	5.0%
Materials	0.1%	0.1%	0.0%	0.0%	4.4%	3.3%	7.9%	8.0%
Industrials	0.6%	0.5%	0.0%	0.1%	11.6%	7.2%	13.9%	14.3%
Consumer Discretionary	-0.1%	0.0%	0.0%	0.0%	4.4%	4.8%	10.5%	12.2%
Consumer Staples	-0.4%	-0.2%	-0.1%	-0.1%	5.8%	8.3%	7.3%	11.4%
Health Care	0.8%	0.6%	0.0%	0.2%	12.6%	7.2%	12.9%	10.7%
Financials	-0.5%	-0.3%	-0.1%	-0.1%	6.0%	7.4%	14.7%	21.2%
Information Technology	0.6%	0.1%	0.2%	0.2%	11.4%	9.5%	11.4%	5.7%
Telecommunication Services	-0.1%	-0.1%	0.0%	0.0%	2.6%	5.0%	5.7%	4.4%
Utilities	0.0%	0.0%	0.0%	0.1%	7.6%	7.2%	3.7%	3.3%
Real Estate	0.1%	0.2%	0.0%	-0.1%	10.8%	4.7%	2.5%	3.7%
Cash	0.0%					-	0.0%	0.0%
Portfolio	1.1%	= 0.9%	+ -0.2%	+ 0.4%	7.5%	6.3%	100.0%	100.0%

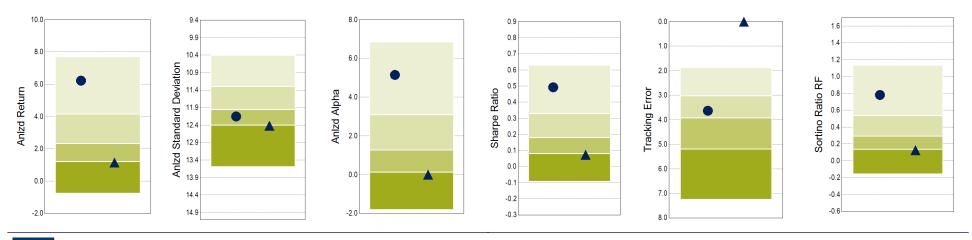


Acadian

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.



3 Year Risk Statistics





Acadian

Top Positive Contributors

Top Negative Contributors

Characteristic	Portfolio	MSCI EAFE		Relative Contribution %	Return %		Relative Contributio n %	Return %
Number of Holdings	439	927	QANTAS AIRWAYS (A:QANX)	0.7%	47.8%	FORTESCUE METALS GP. (A:FMGX)	-0.1%	-15.8%
Weighted Avg. Market Cap. (\$B)	24.8	55.8	DEUTSCHE LUFTHANSA (D:LHA)	0.5%	44.9%	STMICROELECTRONICS (PAR)	-0.1%	-6.1%
Median Market Cap. (\$B)	0.7	10.2	IPSEN (F:IPN)	0.4%	37.3%	(F:SGS)	-0.170	
Price To Earnings	20.3	21.0	LONZA GROUP	0.3%	25.1%	BOLIDEN (W:BOL)	-0.1%	-7.0%
Price To Book	2.8	2.5	ARISTOCRAT LEISURE	0.3%	27.1%	UNILEVER CERTS.	-0.1%	11.5%
Price To Sales	1.5	2.1	ICON (ICLR)	0.3%	22.7%	CANADIAN IMP.BK.COM.	-0.1%	-4.5%
Return on Equity (%)	17.9	13.1	FUJITSU	0.3%	20.6%	MYCRONIC (W:MYCR)	0.0%	-9.4%
Yield (%)	2.4	3.0	SAMSUNG ELECTRONICS (KO:SGL)	0.2%	12.8%	BML (J:BMLL)	0.0%	-11.6%
Beta	0.9	1.0	KONAMI HOLDINGS	0.2%	31.0%	NORSK HYDRO	0.0%	-2.3%
R-Squared	0.9	1.0	ACS ACTIV.CONSTR.Y SERV. (E:ACS)	0.2%	15.5%	VOLVO 'B' (W:VOBF)	0.0%	17.9%
			,			GLAXOSMITHKLINE (UKIR:GSK)	0.0%	3.6%

Acadian 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	0.4%	0.2%	-0.2%	0.4%	4.4%	-0.5%	9.4%	5.0%
Materials	0.2%	0.1%	0.0%	0.1%	4.1%	3.3%	12.4%	8.0%
Industrials	1.4%	1.0%	0.1%	0.3%	15.1%	7.2%	15.9%	14.3%
Consumer Discretionary	0.5%	0.6%	0.0%	-0.1%	10.1%	4.8%	10.8%	12.2%
Consumer Staples	-0.5%	0.4%	-0.3%	-0.6%	11.9%	8.3%	4.1%	11.4%
Health Care	1.5%	0.9%	0.1%	0.4%	16.7%	7.2%	13.5%	10.7%
Financials	-0.7%	-0.2%	-0.3%	-0.2%	6.0%	7.4%	13.7%	21.2%
Information Technology	1.3%	0.2%	0.6%	0.5%	12.5%	9.5%	14.6%	5.7%
Telecommunication Services	-0.2%	-0.1%	-0.1%	-0.1%	-0.9%	5.0%	1.4%	4.4%
Utilities	-0.3%	-0.3%	-0.1%	0.2%	-3.7%	7.2%	0.4%	3.3%
Real Estate	0.3%	0.3%	0.0%	0.0%	12.3%	4.7%	3.8%	3.7%
Cash	0.0%						0.0%	0.0%
Portfolio	3.9%	= 3.2%	+ -0.2%	+ 1.0%	10.2%	6.3%	100.0%	100.0%



Acadian

Country Allocation	Countr	v Al	location
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	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
Americas				
Brazil*	0.2%	0.0%	-7.3%	-6.6%
Canada	5.2%	0.0%	0.1%	0.9%
Mexico*	0.5%	0.0%	9.4%	7.4%
United States	0.4%	0.0%	21.0%	3.1%
Total-Americas	6.2%	0.0%	1.9%	
Europe				
Austria	1.7%	0.2%	13.9%	22.3%
Belgium	0.5%	1.2%	1.8%	4.9%
Denmark	1.4%	1.6%	17.9%	15.3%
Finland	3.0%	1.0%	11.1%	14.3%
France	7.3%	10.1%	11.2%	9.8%
Germany	8.4%	9.3%	15.5%	6.7%
Greece*	0.1%	0.0%	31.9%	34.2%
Ireland	1.5%	0.5%	22.7%	3.9%
Italy	3.3%	2.2%	8.9%	9.5%
Luxembourg	0.2%	0.0%	12.1%	6.3%
Netherlands	4.6%	3.4%	6.3%	8.1%
Norway	3.2%	0.6%	-1.3%	4.9%
Poland*	0.3%	0.0%	14.1%	14.1%
Portugal	0.4%	0.2%	12.7%	4.1%
Russia*	0.1%	0.0%	-16.0%	-9.9%
Spain	2.6%	3.3%	11.8%	8.3%
Sweden	5.2%	2.9%	5.8%	10.3%
Switzerland	4.7%	8.8%	14.4%	9.4%
United Kingdom	10.2%	17.9%	6.4%	4.7%
Total-Europe	58.9%	63.1%	10.1%	7.8%

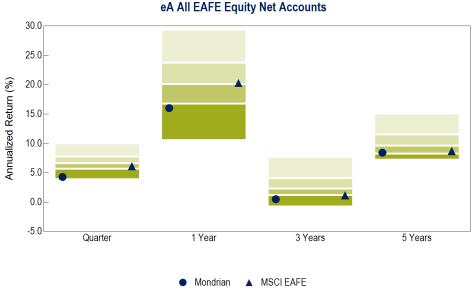
Country Allocation

Manager	Index	Manager	Index
Allocation (USD) Allo	cation (USD)	Return (USD)	Return (USD)
5.2%	7.7%	0.8%	-1.8%
0.0%	0.0%	-2.4%	2.7%
0.5%	3.5%	0.7%	7.2%
19.7%	23.5%	3.3%	5.1%
4.4%	0.0%	1.0%	1.0%
0.1%	0.0%	-3.7%	3.9%
0.1%	0.2%	1.2%	8.1%
0.0%	0.0%	4.6%	5.7%
1.2%	1.3%	0.1%	5.2%
0.2%	0.0%	1.4%	2.1%
0.1%	0.0%	2.9%	0.1%
31.7%	36.2%	2.3%	3.9%
0.5%	0.7%	3.6%	6.7%
2.0%	0.0%	4.1%	5.5%
0.0%	0.0%	7.4%	11.8%
2.6%	0.7%	4.0%	6.7%
91.9%	100.0%	4.0%	6.3%
8.1%	0.0%	2.0%	
	5.2% 0.0% 0.5% 19.7% 4.4% 0.1% 0.0% 1.2% 0.2% 0.1% 31.7%	Allocation (USD) 5.2% 7.7% 0.0% 0.0% 0.5% 3.5% 19.7% 23.5% 4.4% 0.0% 0.1% 0.2% 0.0% 0.0% 1.2% 1.3% 0.2% 0.0% 0.1% 0.0% 31.7% 36.2% 0.5% 0.7% 2.0% 0.0% 0.0% 0.0% 2.6% 0.7% 91.9% 100.0%	Allocation (USD) Allocation (USD) Return (USD) 5.2% 7.7% 0.8% 0.0% 0.0% -2.4% 0.5% 3.5% 0.7% 19.7% 23.5% 3.3% 4.4% 0.0% 1.0% 0.1% 0.0% -3.7% 0.1% 0.2% 1.2% 0.0% 0.0% 4.6% 1.2% 1.3% 0.1% 0.2% 0.0% 1.4% 0.1% 0.0% 2.9% 31.7% 36.2% 2.3% 0.5% 0.7% 3.6% 2.0% 0.0% 4.1% 0.0% 0.0% 7.4% 2.6% 0.7% 4.0%

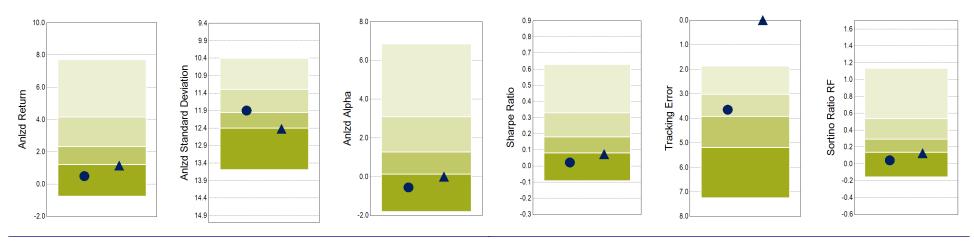


Mondrian

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.



3 Year Risk Statistics





Mondrian

Top Positive Contributors

Top Negative Contributors

Characteristics	Portfolio	MSCI EAFE		Relative Contribution %	Return %		Relative Contributio n %	Return %
Number of Holdings	56	927	TELIASONERA	0.3%	12.3%	HONDA MOTOR	-0.2%	-8.6%
Weighted Avg. Market Cap. (\$B)	63.2	55.8	ALLIANZ (D:ALV)	0.3%	11.2%	ENI	-0.2%	-6.1%
Median Market Cap. (\$B)	42.9	10.2	G4S	0.3%	13.5%	TESCO	-0.2%	-5.5%
Price To Earnings	19.5	21.0	ENEL	0.3%	13.4%	AHOLD KON.	-0.1%	-8.3%
Price To Book	1.9	2.5	KIRIN HOLDINGS (J:KB@N)	0.3%	9.0%	TELEFONICA (E:TEF)	-0.1%	-6.5%
Price To Sales	1.5	2.1	IBERDROLA	0.2%	10.3%	QBE INSURANCE GROUP (A:QBEX)	-0.1%	-7.9%
Return on Equity (%)	12.0	13.1	ABB LTD N (S:ABB)	0.2%	9.2%	AMEC FOSTER WHEELER	-0.1%	-8.7%
Yield (%)	3.8	3.0	SANOFI	0.2%	9.0%	(UKIR:AMFW)	-0.176	-0.7 /0
Beta	0.9	1.0	TAIWAN SEMICON.MNFG. (TW:TSM)	0.2%	13.6%	KINGFISHER (UKIR:KGF)	0.0%	-2.1%
R-Squared	0.9	1.0	TAKEDA PHARMACEUTICAL (J:TA@N)	0.2%	8.3%	DAIMLER	0.0%	-2.1%
						TOKIO MARINE HOLDINGS (J:MIHO)	0.0%	-1.8%

Mondrian Performance Attribution vs. MSCI EAFE

			Attribution Effects		R	leturns	Sector Weights		
	Total	Selection	Allocation	Interaction					
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark	
Energy	-0.2%	-0.1%	-0.2%	0.1%	-2.2%	-0.5%	9.4%	5.0%	
Materials	-0.1%	0.1%	0.0%	-0.2%	6.1%	3.3%	3.1%	8.0%	
Industrials	-0.2%	-0.1%	-0.1%	0.0%	6.7%	7.2%	12.0%	14.3%	
Consumer Discretionary	-0.8%	-0.8%	0.0%	0.0%	-1.9%	4.8%	10.3%	12.2%	
Consumer Staples	-0.6%	-0.5%	0.0%	-0.1%	3.3%	8.3%	10.7%	11.4%	
Health Care	0.2%	0.1%	0.1%	0.0%	8.0%	7.2%	12.3%	10.7%	
Financials	-0.6%	-0.3%	-0.2%	-0.1%	6.0%	7.4%	15.9%	21.2%	
Information Technology	0.2%	0.0%	0.2%	0.1%	9.3%	9.5%	8.1%	5.7%	
Telecommunication Services	0.1%	-0.1%	0.1%	0.1%	3.1%	5.0%	10.4%	4.4%	
Utilities	0.3%	0.0%	0.1%	0.3%	8.4%	7.2%	6.9%	3.3%	
Real Estate	-0.1%	0.0%	-0.1%	0.0%	5.9%	4.7%	1.2%	3.7%	
Cash	0.0%						0.0%	0.0%	
Portfolio	-1.7%	= -1.7%	+ -0.2%	+ 0.2%	4.6%	6.3%	100.0%	100.0%	



Mondrian

Country Allocation

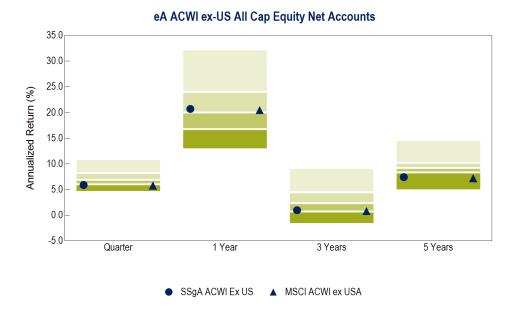
	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
Europe				
Denmark	1.1%	1.6%	3.4%	15.3%
France	7.3%	10.1%	8.5%	9.8%
Germany	9.7%	9.3%	6.4%	6.7%
Italy	5.1%	2.2%	2.6%	9.5%
Netherlands	2.1%	3.4%	-8.0%	8.1%
Spain	5.7%	3.3%	3.3%	8.3%
Sweden	4.1%	2.9%	10.4%	10.3%
Switzerland	12.3%	8.8%	10.0%	9.4%
United Kingdom	24.0%	17.9%	2.2%	4.7%
Total-Europe	71.3%	63.1%	5.1%	7.8%

Country Allocation

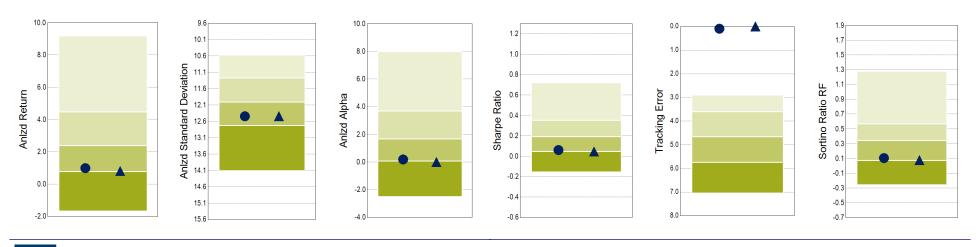
	•			
	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
AsiaPacific				
Australia	1.5%	7.6%	-7.9%	-1.9%
Hong Kong	1.4%	3.5%	-1.6%	7.2%
Japan	17.4%	23.5%	3.3%	5.1%
Singapore	6.6%	1.3%	4.3%	5.2%
Taiwan*	1.7%	0.0%	13.6%	9.1%
Total-AsiaPacific	28.7%	36.2%	3.4%	3.9%
Totals				
Developed	98.3%	100.0%	4.4%	6.3%
Emerging*	1.7%	0.0%	13.6%	

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.



3 Year Risk Statistics





SSgA ACWI Ex US

Characteristics			Top Positive Cont	tributors		Top Negative Contributors			
Ondradicination		MSCI		Relative			Relative		
	Portfolio	ACWI ex USA		Contribution %	Return %		Contribution %	Return %	
Number of Holdings	1,895	1,866	INTERCONEXION ELECTRICA (CB:ISA)	2.5%	8.9%	CORPORACION FINANCIERA COLOMBIANA	-1.4%	-8.8%	
Weighted Avg. Market Cap. (\$B)	42.1	57.8	ALIBABA GROUP HLDG.SPN. ADR 1:1	0.1%	30.7%	(CB:VAL)	-1.470	-0.070	
Median Market Cap. (\$B)	7.7	7.6	WESTPAC BANKING	0.0%	-9.9%	INVERSIONES ARGOS	-0.9%	-2.6%	
Price To Earnings	20.1	21.0	SIEMENS (IN:SIM)	0.0%	6.9%	TENCENT HOLDINGS	-0.2%	25.0%	
· ·			BHARAT FORGE	0.0%	5.3%	NESTLE 'R'	-0.2%	16.9%	
Price To Book	3.2	2.6	NATIONAL AUS.BANK	0.0%	-8.0%	DAIWA HOUSE RESIDENTIAL	-0.2%	-8.5%	
Price To Sales	2.7	2.2	AUS.AND NZ.BANKING GP.	0.0%	-6.8%	COLBUN MACHICURA	-0.1%	-1.6%	
Return on Equity (%)	16.4	14.0	TOYOTA MOTOR	0.0%	-3.3%	HSBC HDG. (ORD \$0.50)	-0.1%	14.9%	
Yield (%)	2.0	2.9	CAPITEC BANK	0.0%	12.7%	SAMSUNG ELECTRONICS	-0.1%	12.8%	
Beta	1.0	1.0	CHENG SHIN RUB.INDS. (TW:CSI)	0.0%	2.9%	TAIWAN SEMICON.MNFG.	-0.1%	13.6%	
R-Squared	1.0	1.0	- (/			NOVARTIS 'R'	-0.1%	12.2%	

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

		•						
			Attribution Effects	S	R	leturns	Secto	or Weights
	Total	Selection	Allocation	Interaction				
	Effects	Effect	Effect	Effects	Portfolio	Benchmark	Portfolio	Benchmark
Energy	0.2%	0.0%	0.3%	-0.1%	-4.3%	-2.6%	0.1%	6.8%
Materials	-1.1%	0.3%	-0.3%	-1.1%	-2.6%	1.7%	37.0%	8.0%
Industrials	-0.8%	0.3%	-0.5%	-0.6%	7.1%	7.0%	1.0%	11.9%
Consumer Discretionary	-0.5%	0.3%	-0.3%	-0.5%	5.8%	5.7%	2.5%	11.3%
Consumer Staples	-0.8%	-0.5%	-0.4%	0.2%	6.2%	7.6%	0.0%	9.9%
Health Care	-0.7%	-0.7%	-0.2%	0.2%	-4.6%	7.2%	1.6%	8.1%
Financials	-2.7%	-1.6%	-0.3%	-0.8%	-8.4%	5.9%	15.7%	23.3%
Information Technology	-1.0%	0.5%	-1.0%	-0.5%	18.0%	13.0%	1.7%	9.9%
Telecommunication Services	-0.2%	-1.2%	-0.1%	1.1%	-24.0%	4.2%	0.0%	4.5%
Utilities	2.2%	0.3%	0.8%	1.1%	6.1%	5.3%	38.0%	3.1%
Real Estate	-0.4%	-0.4%	0.0%	0.0%	-8.5%	5.9%	2.5%	3.2%
Cash	0.0%						0.0%	0.0%
Portfolio	-5.7%	= -2.7%	+ -1.9%	+ -1.1%	0.3%	6.0%	100.0%	100.0%

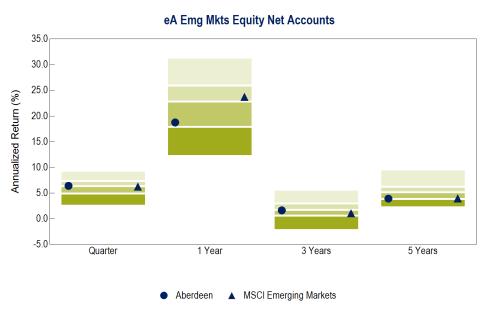


SSgA ACWI Ex US

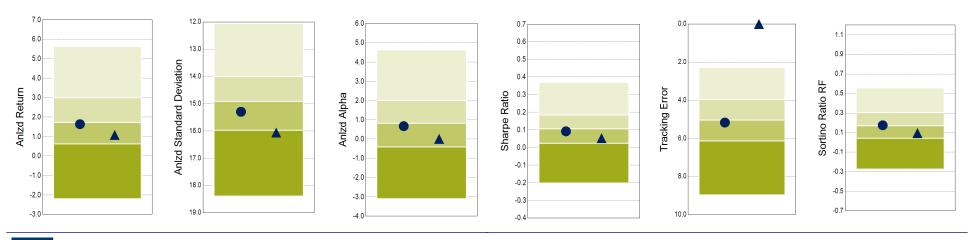
	Country Allocation				Country Allocation				
	Manager	Index	Manager	Index		Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)		Allocation (USD) Allo	cation (USD)	Return (USD)	Return (USD)
Americas					AsiaPacific				
Canada	0.1%	6.9%	-3.9%	0.9%	China*	1.8%	6.3%	19.0%	10.7%
Chile*	7.9%	0.3%	-1.6%	-1.5%	India*	4.6%	2.1%	-1.5%	3.0%
Colombia*	80.6%	0.1%	0.3%	2.0%	Japan	2.5%	16.4%	-8.5%	5.1%
Peru*	0.1%	0.1%	9.7%	7.4%	Malaysia*	0.0%	0.6%	12.5%	5.1%
United States	0.5%	0.0%	11.5%	3.1%	Taiwan*	1.5%	2.9%	2.2%	9.1%
Total-Americas	89.1%	10.0%	0.2%	0.1%	Total-AsiaPacific	10.4%	41.9%	0.9%	5.8%
Europe					Other				
Ireland	0.0%	0.3%	29.7%	3.9%	Israel	0.2%	0.5%	4.3%	6.6%
Netherlands	0.0%	2.4%	1.0%	8.1%	South Africa*	0.2%	1.6%	12.7%	3.6%
Poland*	0.0%	0.3%	6.2%	14.1%	Total-Other	0.4%	2.7%	8.5%	4.4%
Russia*	0.0%	0.9%	-24.0%	-9.9%	Totals				
Total-Europe	0.1%	45.3%	-3.8%	7.5%	Developed	3.3%	76.4%	-4.4%	5.8%
					Emerging*	96.7%	23.6%	0.4%	6.4%

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.



3 Year Risk Statistics





June 30, 2017

Aberdeen

Characteristics						
	Portfolio	MSCI Emerging Markets				
Number of Holdings	65	845				
Weighted Avg. Market Cap. (\$B)	37.0	68.1				
Median Market Cap. (\$B)	16.0	5.4				
Price To Earnings	22.3	20.5				
Price To Book	3.6	2.8				
Price To Sales	3.1	2.2				
Return on Equity (%)	19.0	16.8				
Yield (%)	2.5	2.4				
Beta	0.9	1.0				
R-Squared	0.9	1.0				

Top Positive Contributors						
	Relative					
	Contribution %	Return %				
SAMSUNG ELTN.PREF.	0.6%	13.5%				
AIA GROUP	0.6%	17.2%				
ITC (IN:IT)	0.5%	17.7%				
YUM CHINA ORD	0.4%	45.0%				
GPO FINANCE BANORTE	0.4%	15.5%				
GRUPO AEROPORTUARIO DEL SURESTE ADR 1:10 (ASR)	0.4%	23.5%				
FOM.ECO.MEXNO.SAB DE CV SPN.ADR 1:10	0.3%	11.9%				
AYALA LAND (PH:ALI)	0.3%	19.6%				
BIM BIRLESIK MAGAZALAR	0.3%	22.4%				
HINDUSTAN UNILEVER	0.3%	20.0%				

Top Negative Contributors						
	Relative					
	Contribution %	Return %				
BNC.BRADESCO PF.SPN.ADR 1:1	-0.2%	-8.5%				
MASSMART	-0.2%	-20.7%				
TRUWORTHS INTL.	-0.2%	-15.5%				
LUKOIL OAO ADR. (LON)	-0.2%	-8.0%				
MAGNIT (RS:MGN)	-0.1%	-5.1%				
TENARIS ADS. 1:2 (TS)	-0.1%	-7.2%				
SIAM CEMENT FB	-0.1%	-4.1%				
NAVER (KO:NHN)	-0.1%	-4.2%				
MULTIPLAN EMPE. IMOBS.ON (BR:MUL)	-0.1%	-4.8%				
VALE PREFERRED ADR 1:1 (VALE.P)	-0.1%	-6.2%				

Aberdeen Performance Attribution vs. MSCI Emerging Markets

		Attribution Effects			R	Returns		Sector Weights	
	Total Effects	Selection Effect	Allocation Effect	Interaction Effects	Portfolio	Benchmark	Portfolio	Benchmark	
Energy	0.2%	0.1%	0.0%	0.0%	-3.1%	-4.6%	5.8%	7.3%	
Materials	0.3%	0.1%	0.0%	0.1%	2.4%	-0.4%	9.7%	7.4%	
Industrials	0.2%	1.1%	-0.2%	-0.8%	23.5%	3.6%	1.6%	5.9%	
Consumer Discretionary	-0.1%	0.0%	0.0%	-0.1%	7.7%	8.5%	10.3%	10.4%	
Consumer Staples	1.0%	0.2%	0.5%	0.3%	7.8%	5.2%	17.2%	7.0%	
Health Care	0.1%	0.1%	-0.1%	0.0%	16.4%	4.5%	1.1%	2.4%	
Financials	1.4%	0.6%	0.2%	0.6%	8.6%	4.1%	28.4%	24.2%	
Information Technology	-2.7%	-1.8%	-1.8%	0.8%	7.9%	15.6%	13.7%	24.4%	
Telecommunication Services	-0.2%	-0.2%	0.0%	0.0%	-1.4%	2.1%	4.8%	5.7%	
Utilities	0.0%		0.0%			-1.5%	0.0%	2.8%	
Real Estate	0.0%	-0.2%	0.5%	-0.4%	3.7%	11.4%	7.3%	2.6%	
Cash	0.0%						0.0%	0.0%	
Portfolio	0.1%	= 0.3%	+ -0.7%	+ 0.5%	6.5%	6.4%	100.0%	100.0%	



Aberdeen

^ 1	
Country A	MACATIAN
COUILIN	anocanon

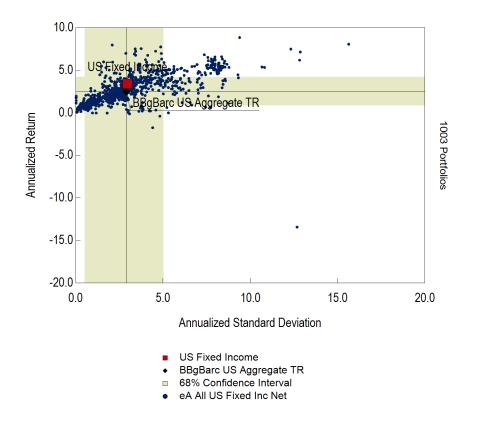
	Manager Allocation (USD)	Index Allocation (USD)	Manager Return (USD)	Index Return (USD)
Americas				
Brazil*	12.8%	7.7%	-2.5%	-6.6%
Chile*	2.2%	1.2%	2.8%	-1.5%
Mexico*	8.0%	3.7%	14.9%	7.4%
United States	1.2%	0.0%	45.0%	3.1%
Total-Americas	24.2%	13.5%	6.1%	-1.6%
Europe				
Hungary*	1.1%	0.3%	16.4%	19.6%
Luxembourg	1.5%	0.0%	-7.2%	6.4%
Poland*	1.2%	1.2%	8.2%	14.1%
Portugal	1.4%	0.0%	12.7%	4.1%
Russia*	4.2%	3.8%	-6.5%	-9.9%
United Kingdom	1.7%	0.0%	2.8%	4.7%
Total-Europe	11.1%	5.8%	1.1%	-0.4%

Country Allocation

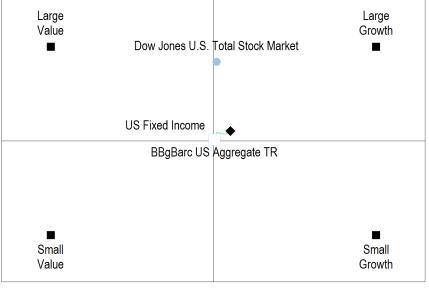
	Manager	Index	Manager	Index
	Allocation (USD)	Allocation (USD)	Return (USD)	Return (USD)
AsiaPacific				
Hong Kong	11.3%	0.0%	5.2%	7.2%
India*	17.5%	8.7%	10.7%	3.0%
Indonesia*	4.8%	2.5%	8.2%	8.8%
Korea*	8.2%	15.0%	8.1%	9.9%
Malaysia*	1.0%	2.4%	5.3%	5.1%
Philippines*	3.7%	1.2%	9.9%	7.4%
Taiwan*	5.0%	12.2%	11.5%	9.1%
Thailand*	5.2%	2.2%	0.1%	2.6%
Total-AsiaPacific	56.7%	71.0%	8.0%	8.8%
Other				
South Africa*	3.7%	7.0%	-14.1%	3.6%
Turkey*	4.3%	1.0%	19.6%	20.0%
Total-Other	8.0%	9.7%	4.2%	3.9%
Totals				
Developed	17.1%	0.0%	7.3%	-
Emerging*	82.9%	100.0%	6.3%	6.4%

Fixed Income Composite

Annualized Return vs. Annualized Standard Deviation 3 Years Ending June 30, 2017

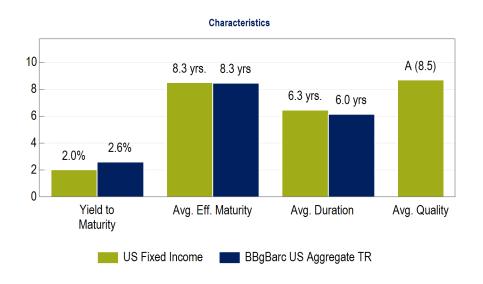


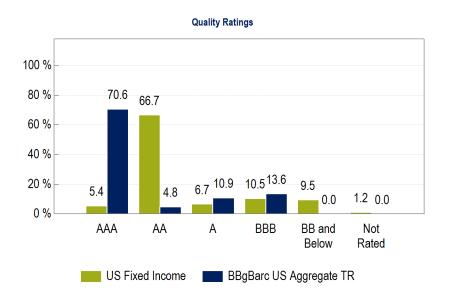
U.S. Effective Style Map 3 Years Ending June 30, 2017

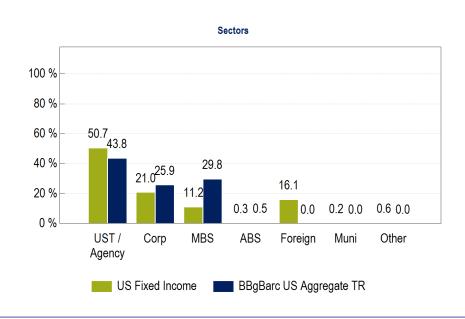


♦ Last Rolling Period

Fixed Income Composite



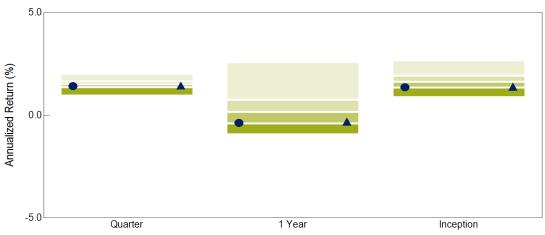






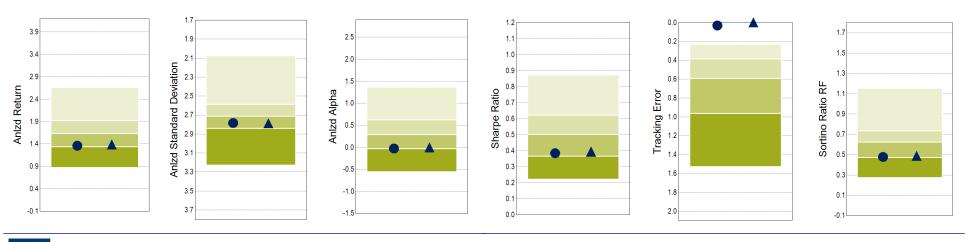
SSgA Barclays Aggregate Index





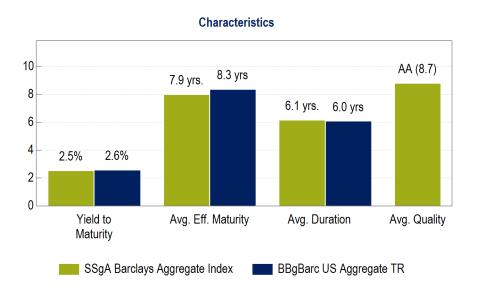
● SSgA Barclays Aggregate Index ▲ BBgBarc US Aggregate TR

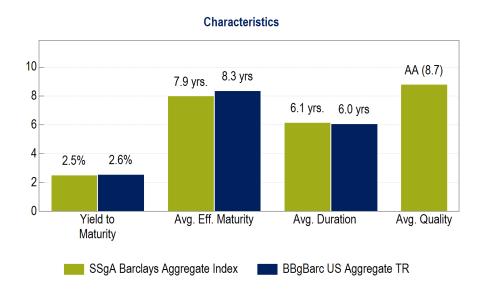
Since Inception Risk Statistics

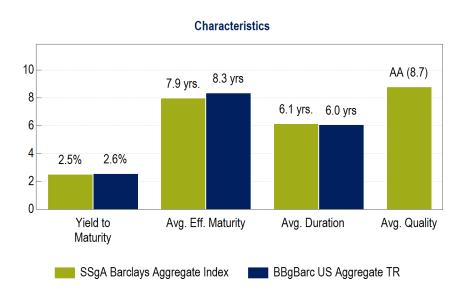




SSgA Barclays Aggregate Index



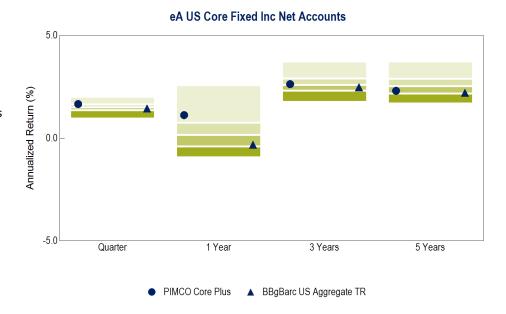




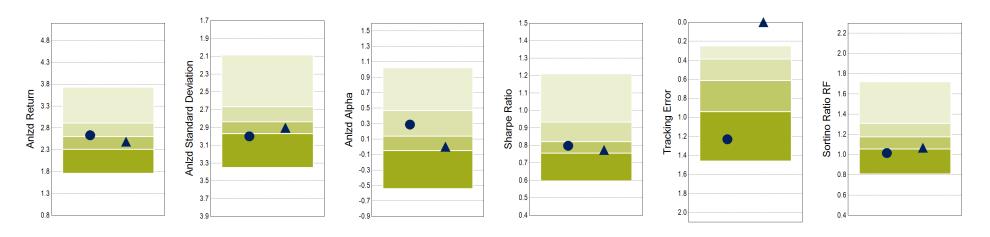


PIMCO Core Plus

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.



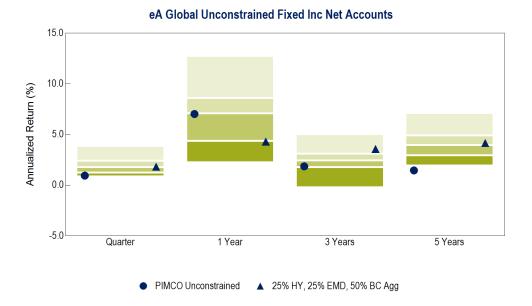
3 Year Risk Statistics



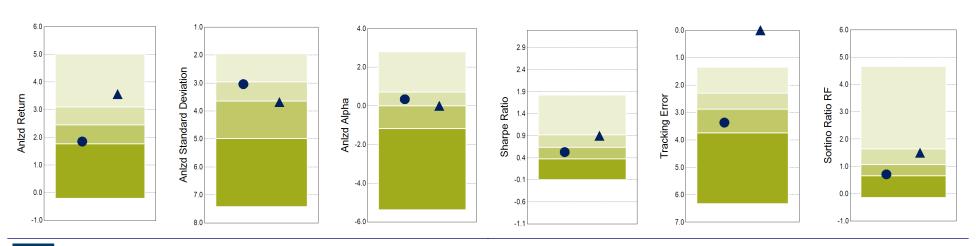


PIMCO Unconstrained

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.



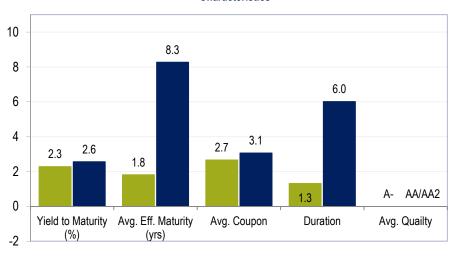
3 Year Risk Statistics





PIMCO Unconstrained

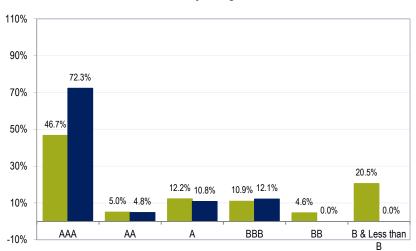
Characteristics



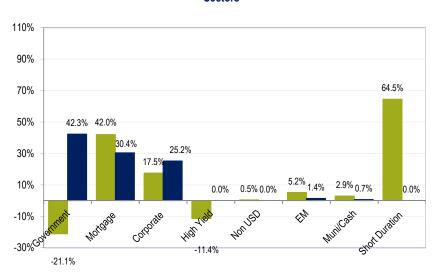
■ PIMCO Unconstrained

■ Barclays U.S. Agg Index

Quality Rating



Sectors



Source: PIMCO



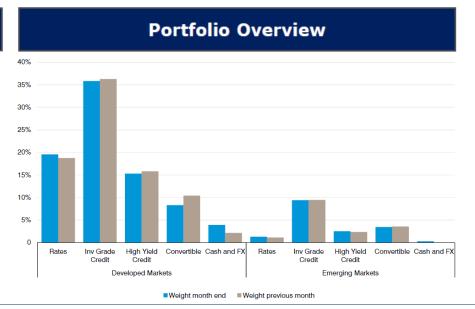
GAM Unconstrained Bond - USD GIPS Composite

Portfolio Sensitivity

	Month end										
Investment strategy	Bond Weight (%)	Bonds Duration Contribution	Derivatives Duration Contribution	Total Duration Contribution							
Developed Markets	86.0	3.23	-4.37	-1.14							
Rates	16.9	1.34	-4.35	-3.01							
Inv Grade Credit	43.1	1.26	-0.01	1.25							
High Yield Credit	14.9	0.41	0.00	0.41							
Convertible	11.2	0.21	-0.01	0.20							
Cash and FX	0.0	0.00	0.00	0.00							
Emerging Markets	1.2	0.04	0.75	0.79							
Rates	0.8	0.03	0.75	0.78							
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	87.2	3.26	-3.61	-0.35							

Characteristics

	Month end
	GAM Unconstrained Bond Strategy*
Value at Risk % (97.5%, 22 days)	0.94
Coupon %	2.66
Yield to Maturity %	2.22
Current Yield %	2.61
Effective Duration	-0.35
Spread Duration	1.59
Equity Delta**	3.08
Currency Delta	-6.75
Credit Quality***	A-

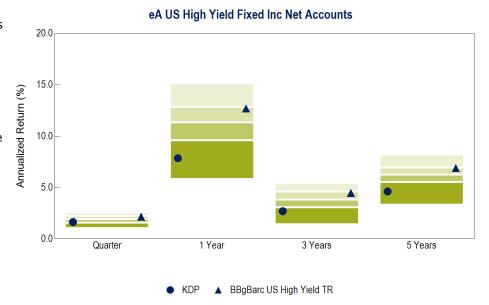




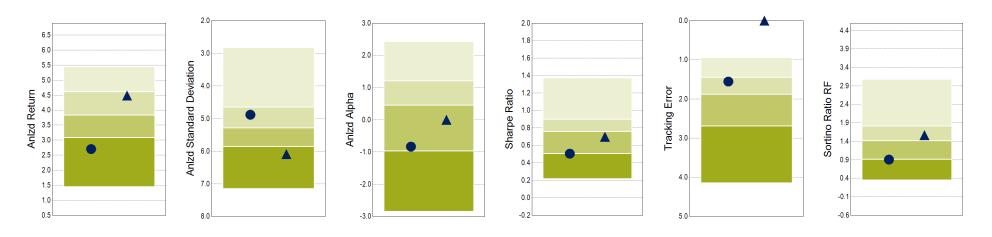
Source: GAM

KDP

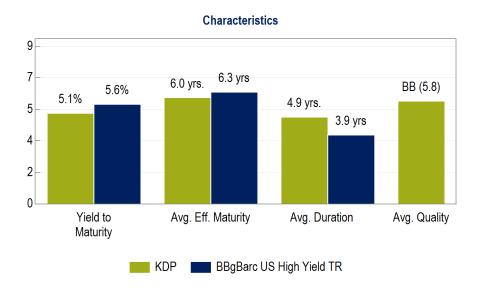
KDP believes that the key to delivering superior risk-adjusted returns lies in controlling credit risk. To do this the firm combines rigorous, bottom-up credit analysis with an active, top-down management approach that ensures a strong overall credit profile and broad portfolio diversification. KDP employs 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.

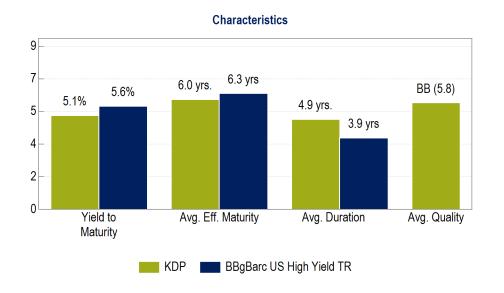


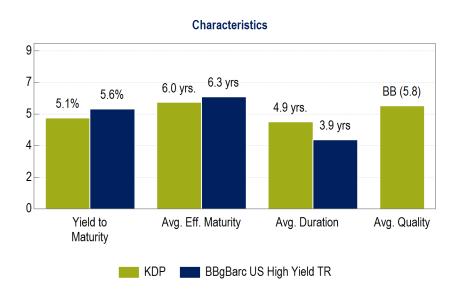
3 Year Risk Statistics





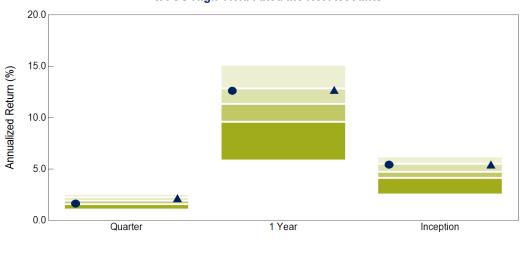






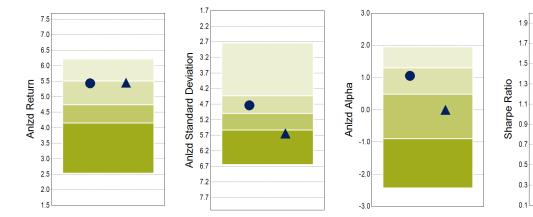
Guggenheim

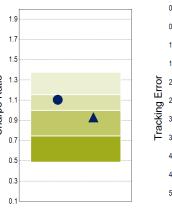


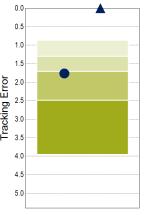


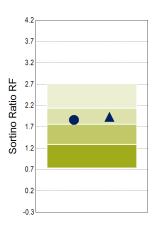
● Guggenheim ▲ BBgBarc US High Yield TR

Since Inception Risk Statistics



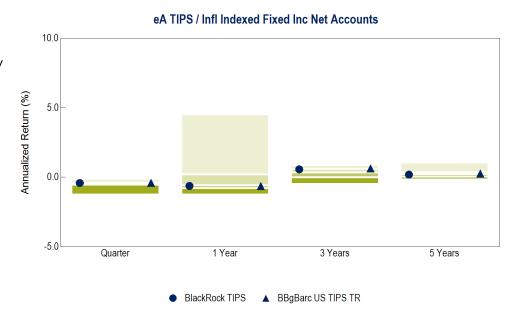




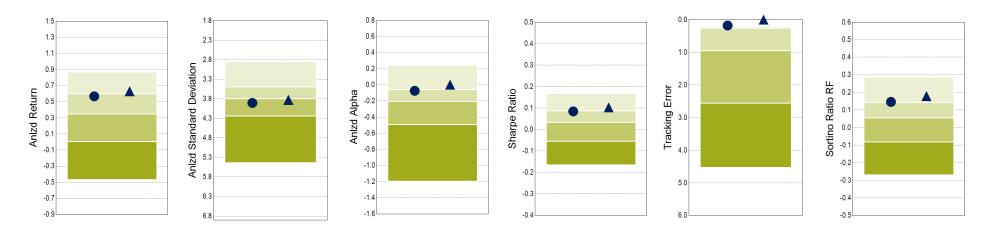


BlackRock TIPS

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%.

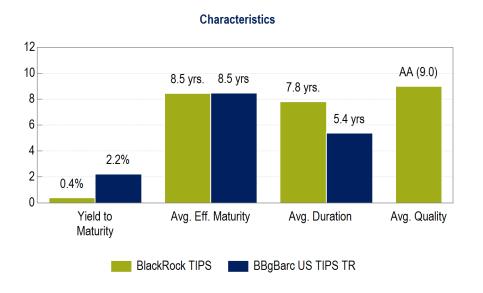


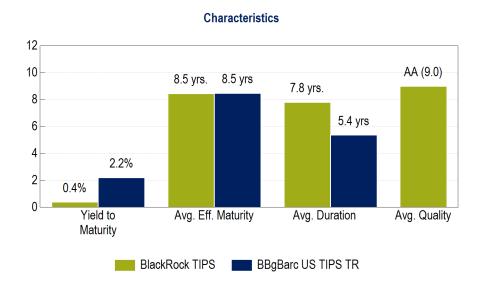
3 Year Risk Statistics

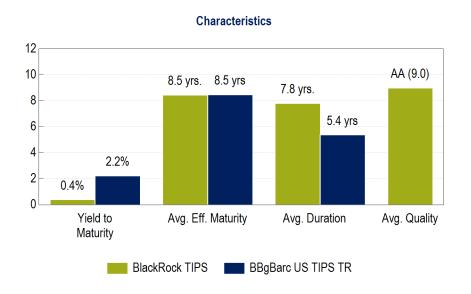




BlackRock TIPS





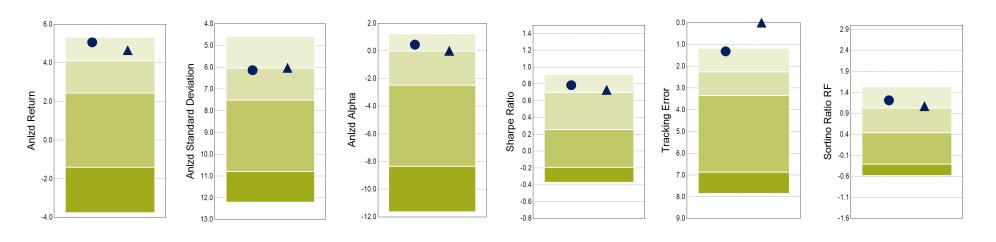




Wellington Opportunistic EMD

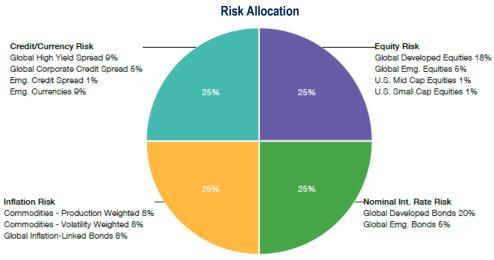


3 Year Risk Statistics





AQR Global Risk Premium Fund



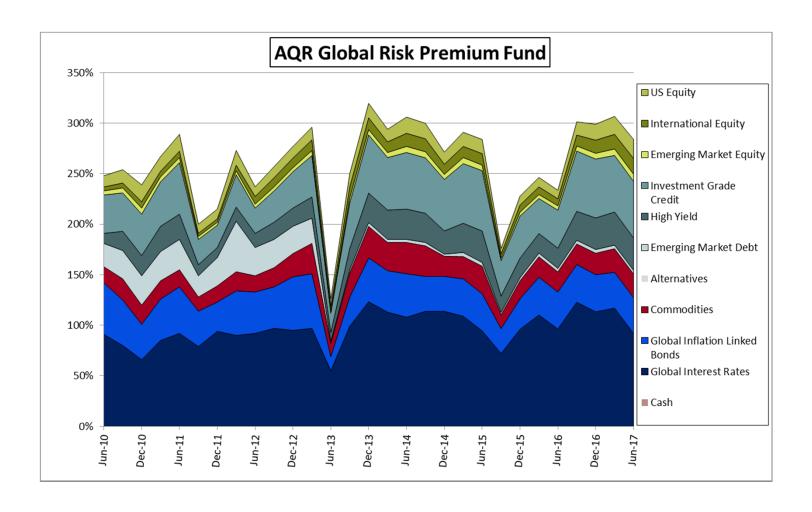
Estimated Exposure Breakdown

	Long Exposure (% of NAV)	Lor	ng Exposure (% of NAV)
Equity Risk		Equity Market Exposures	
Global Developed Equities	31%	Americas	24%
Global Emerging Equities	7%	Europe	7%
U.S. Mid Cap Equities	2%	Asia ex-Japan	7%
U.S. Small Cap Equities	1%	Japan	3%
Total Equity Risk	41%	Total Equity Market Exposures	41%
Nominal Interest Rate Risk		Bond Market Exposures - Nominal and Inflation-Linked	
Global Developed Bonds	93%	Americas	64%
Global Emerging Bonds	23%	Europe	58%
Total Nominal Interest Rate Risk	116%	Asia	29%
Inflation Risk		Total Bond Market Exposures	151%
Commodities - Production Weighted	9%	Emerging Currency Exposures	
Commodities - Volatility Weighted	15%	Asia	7%
Global Inflation-Linked Bonds	35%	Europe	11%
Total Inflation Risk	59%	Latin America	7%
Credit/Currency Risk		Dollar Block ex-U.S.	0%
Global High Yield Spread	32%	Total Emerging Currency Exposures	25%
Global Corporate Credit Spread	55%		
Emerging Credit Spread	3%		
Emerging Currencies	25%		
Total Credit/Currency Risk	115%		
Total Fund Exposures	331%		

Source: AQR



AQR Global Risk Premium Fund



Mellon Dynamic Growth Fund

		Country	Current Month %
		Australia	5.6
		Canada	3.0
		France	1.8
		Germany	6.8
		Hong Kong	-1.9
	Developed ex-U.S. Equity	Italy	1.6
Growth 69.9%	43.6%	Japan	10.6
		Netherlands	3.3
		Spain	1.1
		Switzerland	1.1
		United Kingdom	9.1
		Other	1.4
	U.S. Equity 21.0%	United States	21.0
	High Yield Bonds 5.3%		5.3
Defensive 30.9%	Developed ex U.S. Bonds -15.2%		-15.2
	U.S. Bonds 46.1%		46.1
Real 10.7%	Commodity 5.7%		5.7
Near 10.776	Inflation-Linked Bonds 5.0%		5.0

		Country	Current Month %
	U.S. 114.8%	United States	114.8
		Australia	-3.0
		Canada	0.0
		Denmark	0.0
Diversifying		Euro	10.0
Strategies	Developed ex-U.S. -14.8%	Japan	0.4
400 000		New Zealand	-4.1
Currency 100.0%		Norway	0.3
		Sweden	2.4
		Switzerland	-7.3
		United Kingdom	-13.9
		Other	0.4

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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	Real				
	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	-1.09	-0.49	0.13	0.00	0.01	0.00	0.19	-0.32	0.00	-0.16	-0.05	-0.40
Quarter-to-Date	1.09	0.85	0.52	0.00	0.11	0.00	0.75	0.79	0.00	-0.31	0.09	-1.71
Year-to-Date	4.18	3.06	1.15	0.00	0.25	0.00	0.30	1.51	0.00	-0.32	0.16	-1.92
1 Year	3.83	6.71	1.47	0.00	0.74	0.00	-0.61	-2.93	0.00	-0.98	0.05	-0.61
3 Year	5.32	2.53	0.27	-0.37	0.36	-0.09	-0.40	1.34	0.00	-0.17	0.00	1.85
5 Year	7.13	3.37	2.39	-0.11	0.37	-0.04	-0.25	0.84	0.07	-0.06	0.14	0.40
7 Year	8.29	2.78	2.99	0.01	0.26	-0.03	0.27	0.71	0.13	0.07	0.33	0.77
10 Year	-	-	-	-	-	-	-		-	-	-	-
Since Inception ²	6.76	2.00	2.35	-0.10	0.26	-0.03	0.40	0.68	0.14	0.00	0.33	0.73

Source: Mellon Capital Management





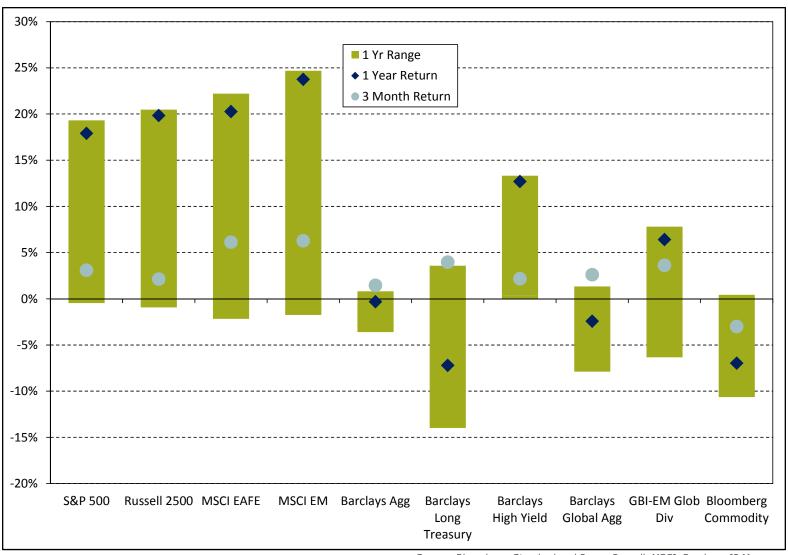
Index Performance Summary as of 06/30/2017

	2009	2010	2011	2012	2013	2014	2015	2016	Q1	April	May	June	Q2	YTD
MSCI EM	78.5%	18.9%	-18.4%	18.2%	-2.6%	-2.2%	-14.9%	11.2%	11.4%	2.2%	3.0%	1.0%	6.3%	18.4%
MSCI EAFE	31.8%	7.8%	-12.1%	17.3%	22.8%	-4.9%	-0.8%	1.0%	7.2%	2.5%	3.7%	-0.2%	6.1%	13.8%
MSCI ACWI	34.6%	12.7%	-7.3%	16.1%	22.8%	4.2%	-2.4%	7.9%	6.9%	1.6%	2.2%	0.5%	4.3%	11.5%
JPM GBI-EM Global Div	22.0%	15.7%	-1.8%	16.8%	-9.0%	-5.7%	-14.9%	9.9%	6.5%	1.2%	2.0%	0.5%	3.6%	10.4%
S&P 500	26.5%	15.1%	2.1%	16.0%	32.4%	13.7%	1.4%	12.0%	6.1%	1.0%	1.4%	0.6%	3.1%	9.3%
Russell 1000	28.4%	16.1%	1.5%	16.4%	33.1%	13.2%	0.9%	12.1%	6.0%	1.1%	1.3%	0.7%	3.1%	9.3%
BC US STRIPS 20+ Yr	-36.0%	10.9%	58.5%	3.0%	-21.0%	46.4%	-3.7%	1.4%	1.8%	1.8%	3.1%	1.1%	6.1%	8.0%
BC US Long Credit	16.8%	10.7%	17.1%	12.7%	-6.6%	16.4%	-4.6%	10.2%	1.7%	1.6%	2.1%	1.0%	4.7%	6.4%
JPM EMBI Glob Div	29.8%	12.2%	7.3%	17.4%	-5.3%	7.4%	1.2%	10.2%	3.9%	1.6%	0.9%	-0.1%	2.2%	6.2%
BC US Govt/Cred Long	1.9%	10.2%	22.5%	8.8%	-8.8%	19.3%	-3.3%	6.7%	1.6%	1.6%	2.0%	0.8%	4.4%	6.0%
Russell 2500	34.4%	26.7%	-2.5%	17.9%	36.8%	7.1%	-2.9%	17.6%	3.8%	0.8%	-1.1%	2.5%	2.1%	6.0%
Russell 2000	27.2%	26.9%	-4.2%	16.3%	38.8%	4.9%	-4.4%	21.3%	2.5%	1.1%	-2.0%	3.5%	2.5%	5.0%
BC US Corporate HY	58.2%	15.1%	5.0%	15.8%	7.4%	2.5%	-4.5%	17.1%	2.7%	1.2%	0.9%	0.1%	2.2%	4.9%
BC Global Agg	-6.5%	-5.3%	-5.3%	-4.1%	2.7%	-0.6%	3.3%	2.1%	1.8%	1.1%	1.5%	-0.1%	2.6%	4.4%
BC Municipal	12.9%	2.4%	10.7%	6.8%	-2.6%	9.1%	3.3%	0.2%	1.6%	0.7%	1.6%	-0.4%	2.0%	3.6%
CS Hedge Fund	18.6%	10.9%	-2.5%	7.7%	9.7%	4.1%	-0.7%	1.2%	2.1%	0.4%	0.8%	-	1.3%	3.4%
FTSE NAREIT Eqy REITs	28.0%	28.0%	8.3%	18.1%	2.5%	30.1%	3.2%	8.5%	1.2%	0.1%	-0.8%	2.2%	1.5%	2.7%
BC US Agg Bond	5.9%	6.5%	7.8%	4.2%	-2.0%	6.0%	0.5%	2.6%	0.8%	0.8%	0.8%	-0.1%	1.4%	2.3%
CS Leveraged Loan	44.9%	10.0%	1.8%	9.4%	6.2%	2.1%	-0.4%	9.9%	1.2%	0.4%	0.4%	-0.1%	0.8%	2.0%
BC US Agg Interm	6.5%	6.1%	6.0%	3.6%	-1.0%	4.1%	1.2%	2.0%	0.7%	0.6%	0.5%	-0.3%	0.9%	1.6%
BC TIPS	11.4%	6.3%	13.6%	7.0%	-8.6%	3.6%	-1.4%	4.7%	1.3%	0.6%	0.0%	-0.9%	-0.4%	0.9%
BC US Govt/Cred 1-3 Yr	3.8%	2.8%	1.6%	1.3%	0.6%	0.8%	0.7%	1.3%	0.4%	0.2%	0.2%	0.0%	0.3%	0.7%
Alerian MLP	76.4%	35.9%	13.9%	4.8%	27.6%	4.8%	-32.6%	18.3%	3.9%	-1.3%	-4.5%	-0.6%	-6.4%	-2.7%
BBG Commodity	18.9%	16.8%	-13.3%	-1.1%	-9.5%	-17.0%	-24.7%	11.8%	-2.3%	-1.5%	-1.4%	-0.3%	-3.2%	-5.6%

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



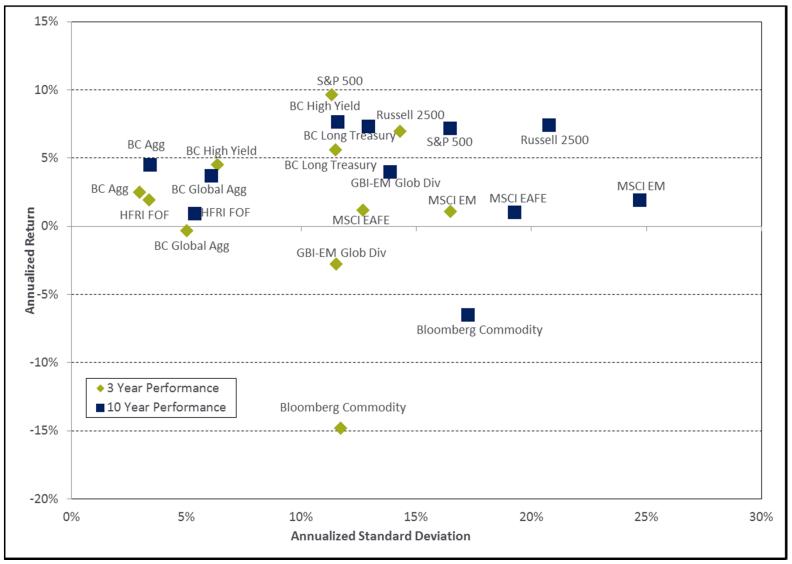
Near Term Broad Market Performance Summary as of 06/30/2017



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



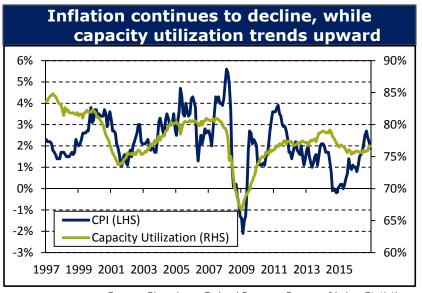
Long Term Broad Market Performance Summary as of 06/30/2017



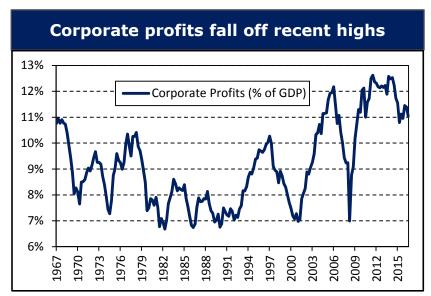
Source: Bloomberg, Standard and Poors, Russell, MSCI, Barclays, JP Morgan



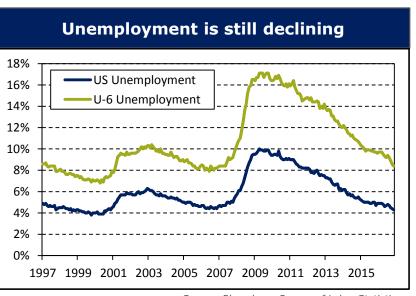
US Economic Indicators



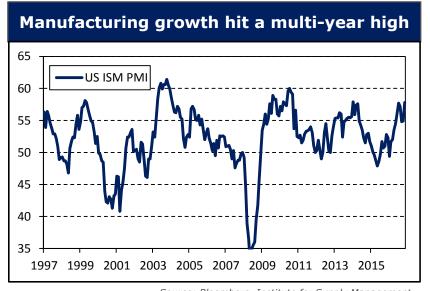
Source: Bloomberg, Federal Reserve, Bureau of Labor Statistics



Source: Bloomberg, Bureau of Economic Analysis



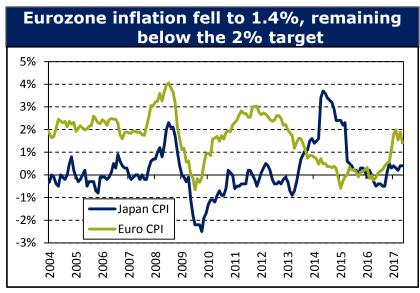
Source: Bloomberg, Bureau of Labor Statistics



Source: Bloomberg, Institute for Supply Management



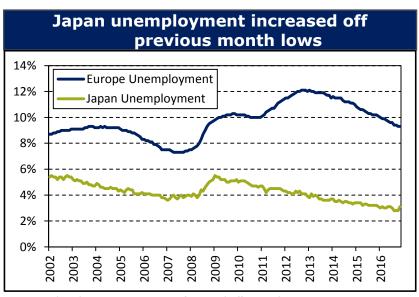
International Economic Indicators



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



Source: Bloomberg, OECD, Eurostat



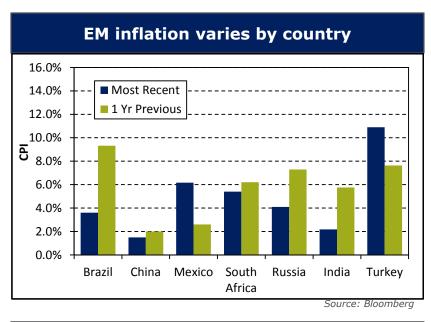
Source: Bloomberg, Japan Ministry of Internal Affairs and Communications, Eurostat

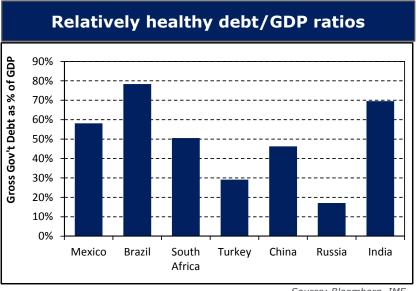


Source: Bloomberg, OECD

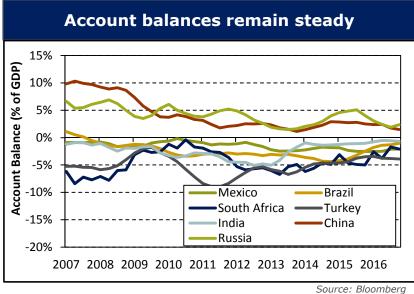


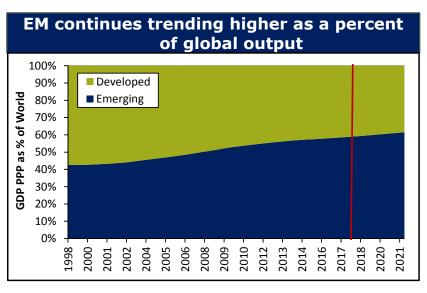
Emerging Market Economic Indicators





Source: Bloomberg, IMF

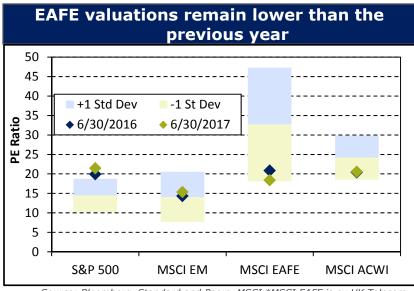




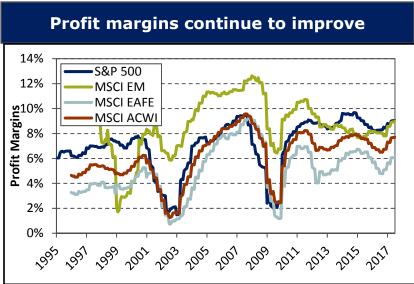
Source: Bloomberg, IMF



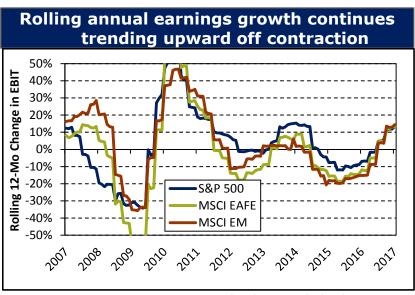
Global Equity



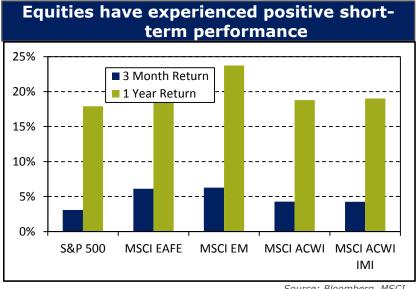
Source: Bloomberg, Standard and Poors, MSCI *MSCI EAFE is ex UK Telecom *Standard deviation calculations on 20 years of data except S&P 500 (30 years)



Source: Bloomberg, MSCI

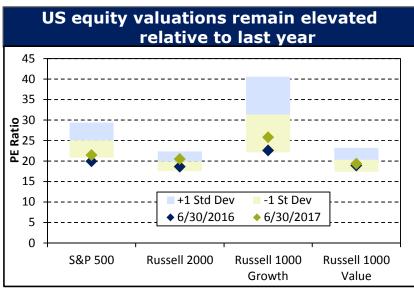


Source: Bloomberg, Standard and Poors, MSCI

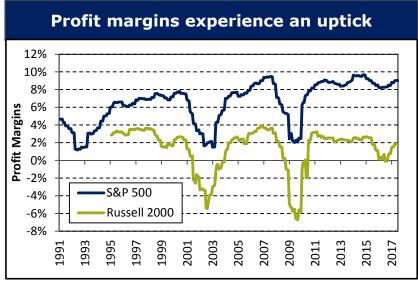




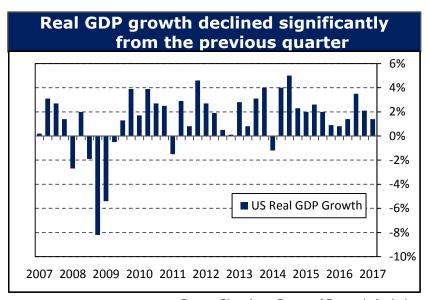
US Equity



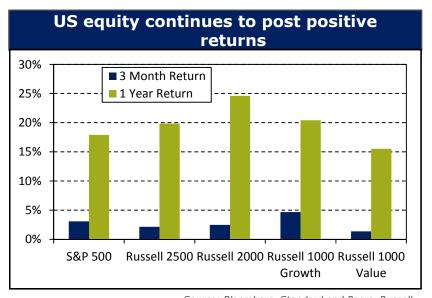
Source: Bloomberg, Standard and Poors, Russell *Russell 2000 PE is index adjusted positive* Standard deviation calculations based on 20 years of data



Source: Bloomberg, Standard and Poors, Russell



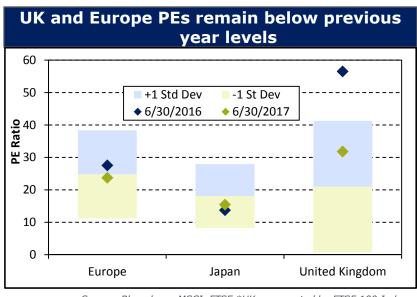
Source: Bloomberg, Bureau of Economic Analysis



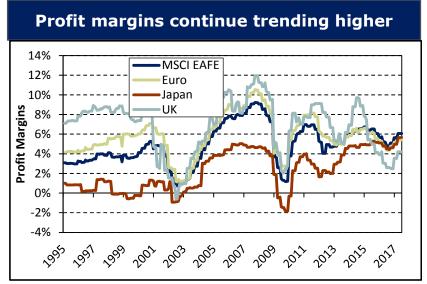
Source: Bloomberg, Standard and Poors, Russell



International Equity



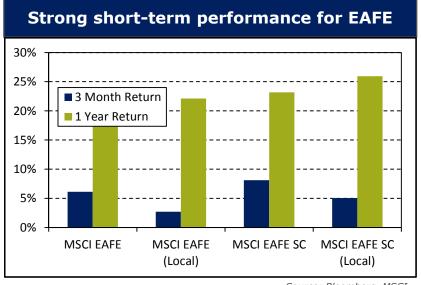
Source: Bloomberg, MSCI, FTSE *UK represented by FTSE 100 Index *Standard deviation calculations based on 20 years of data, with Europe since 12/1998



Source: Bloomberg, MSCI



Source: Bloomberg





Emerging Markets Equity

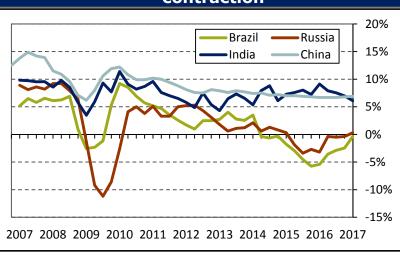
India's valuation fell below the previous year, though still remains elevated 50 +1 Std Dev -1 St Dev Brazil 06/30 45 **PE:** 75.0 ♦ 6/30/2016 6/30/2017 40 **Ratio** 30 **교** 25 20 15 10 5 India South Korea China Brazil South Africa Russia

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

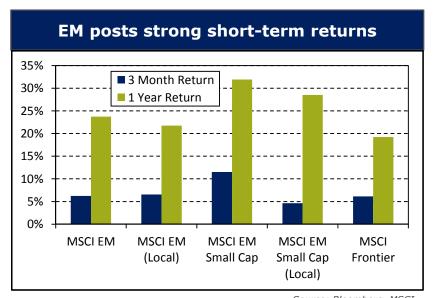


Source: Bloomberg, MSCI

Brazil continues to rebound off earnings contraction

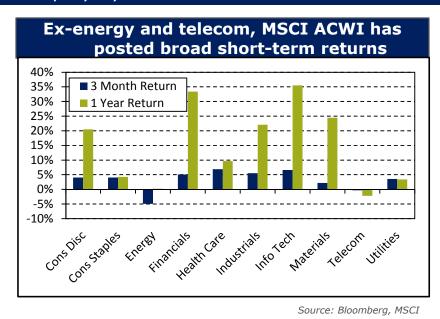


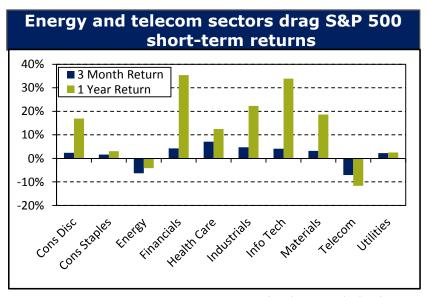
Source: Bloomberg



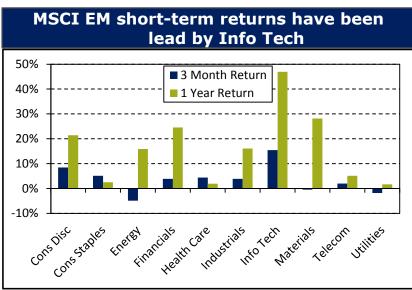


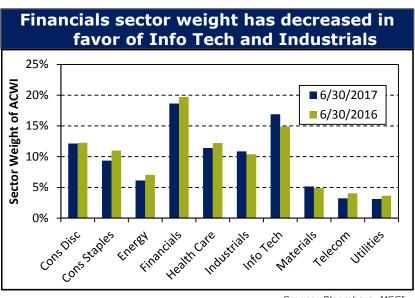
Global Equity by Sector





Source: Bloomberg, Standard and Poors

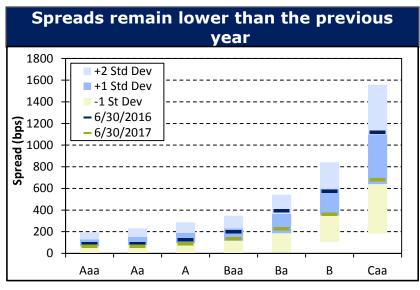




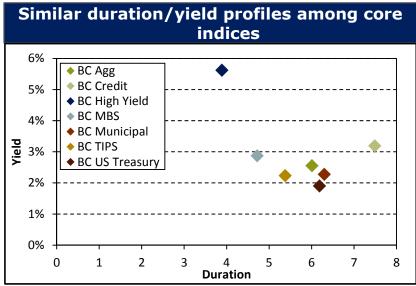
Source: Bloomberg, MSCI



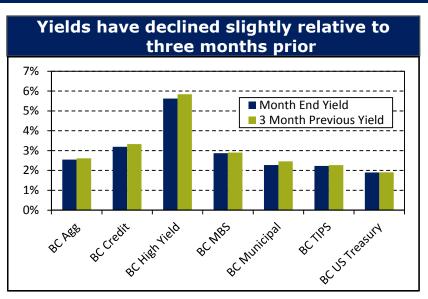
US Fixed Income



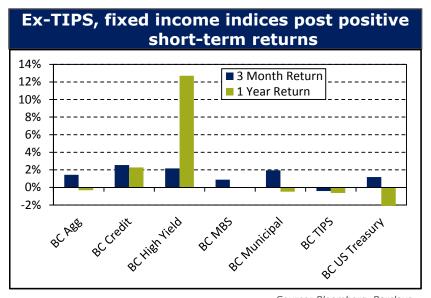
Source: Bloomberg, Barclays *Standard deviation calculations based on 20 years of data



Source: Bloomberg, Barclays



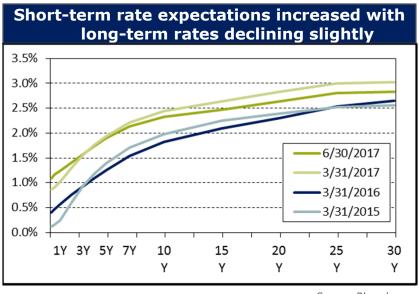
Source: Bloomberg, Barclays



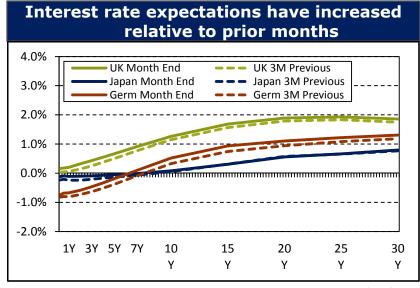
Source: Bloomberg, Barclays



Rates



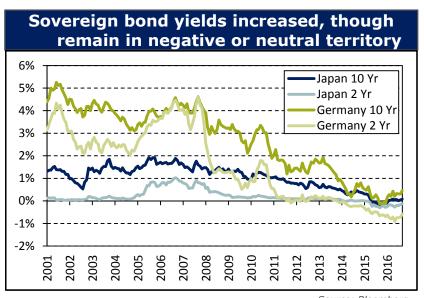
Source: Bloomberg



Source: Bloomberg



Source: Bloomberg



Source: Bloomberg

