



# **Vermont Pension Investment Committee**

# **First Quarter 2014 Investment Performance Analysis**

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### First Quarter 2014 Market Review

### **Positives**

### Continued slow and steady economic growth

- A bit slower in the first quarter due to weather (maybe offset in Q2?)
- Deleveraging continuing

### Early stages of Taper generally accepted by marketplace

 Though priced in "normalization" of rates appears optimistic

### Developed world inflation is low

- Allows Fed continued flexibility to work through Taper
- Emerging markets made some progress on adjustments
  - Finally experiencing positive flows and early signs of positive performance
- Volatility remains subdued and markets relatively stable

# **Negatives**

### Potential geopolitical instability

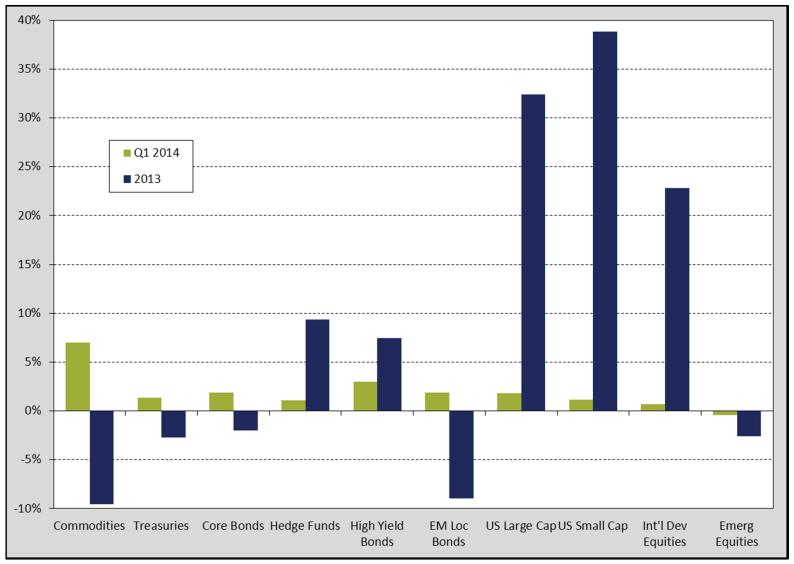
- Russian invasion of Crimea has minimal economic impact
- But tensions between Russia and West could have spillover effects
- Benign market environment in Europe obscures challenging underlying economic conditions

### Inflation is low...maybe too low

- Global monetary stimulation has offset deflationary pressures
- Continued slowing growth in China has global implications
  - Could bring Chinese credit issues to forefront
- Valuations beginning to stretch above long-term averages
  - Developed Equity P-Es above median
  - Credit spreads approaching 2006-07 levels



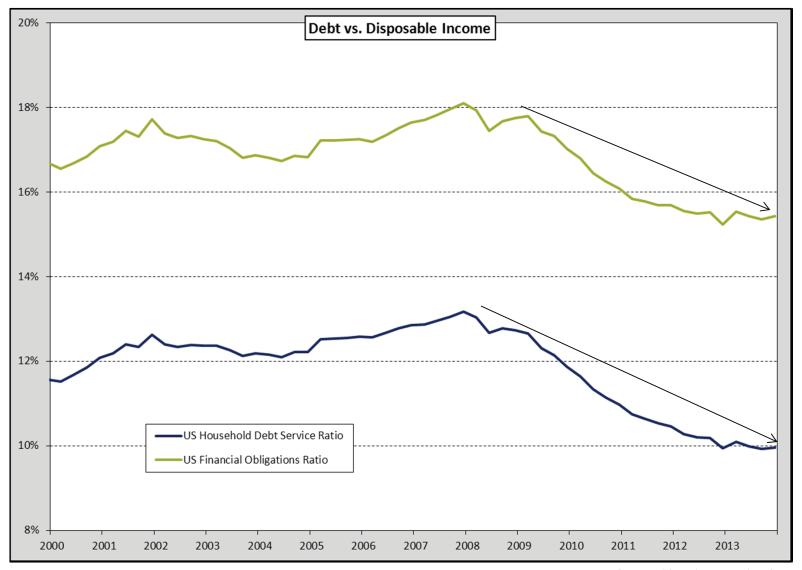
# Markets Were Mostly Up (A Little Bit) In the First Quarter



Source: Bloomberg, NEPC as of 3/31

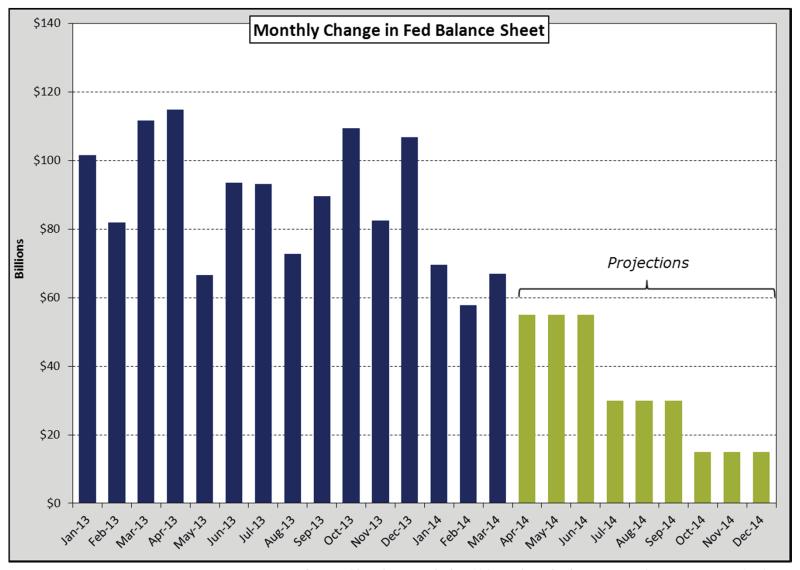


# Deleveraging Playing Out Slowly But Surely





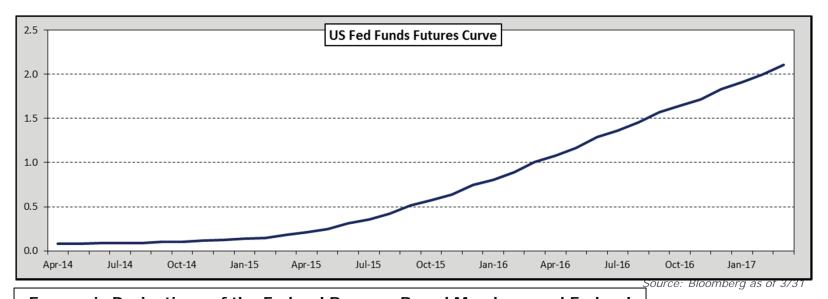
## So Far So Good for Taper

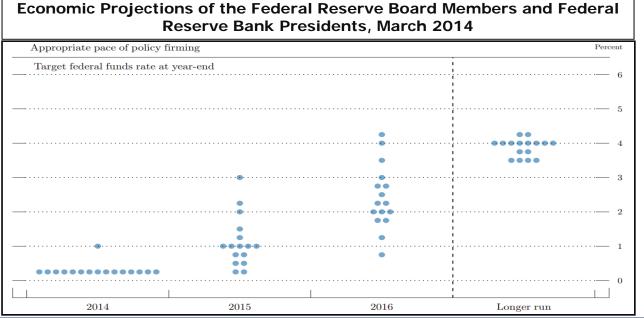


Source: Bloomberg as of 3/31, Values after 3/31/2014 are market consensus projections



### Market Expecting Smooth Sailing As Rates Normalize Over Next Two Years...





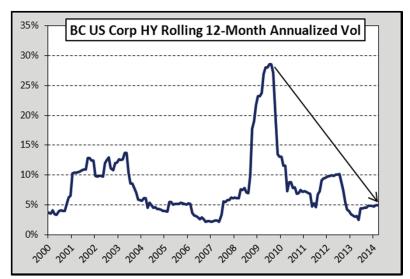
Each shaded circle represents the value (rounded to the nearest ¼ percentage point) of an individual participant's judgment of the appropriate level of target federal funds rate at the end of the specified year or over the long run

Source: Federal Reserve

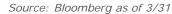


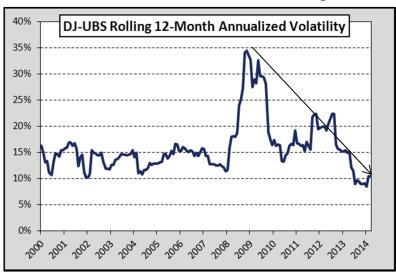
## Volatility Remains Subdued

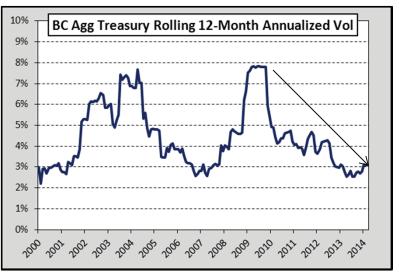




Source: Bloomberg as of 3/31





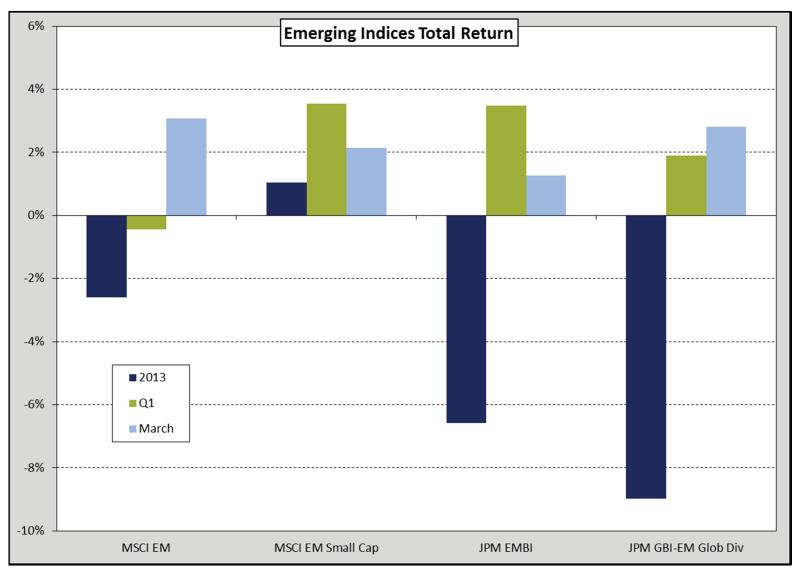


Source: Bloomberg as of 3/31

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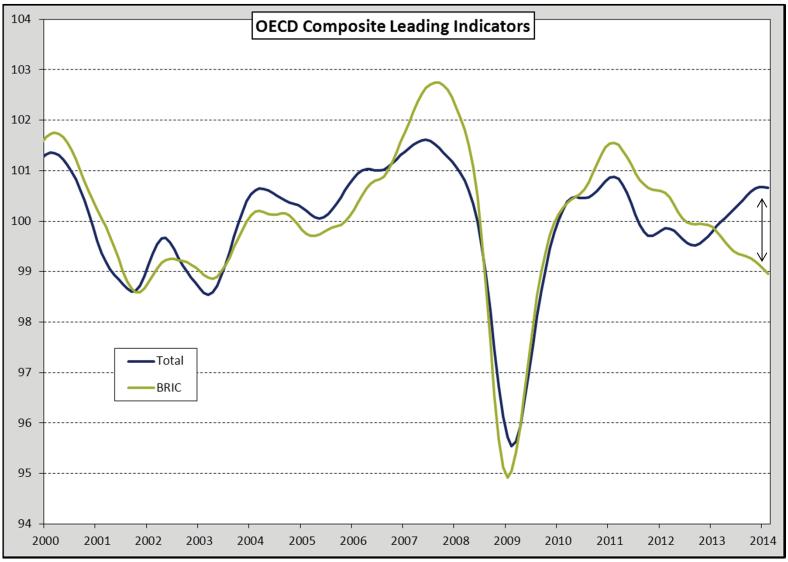


# Emerging Returns Have Been Lackluster But Have Seen Some Recent Reversals





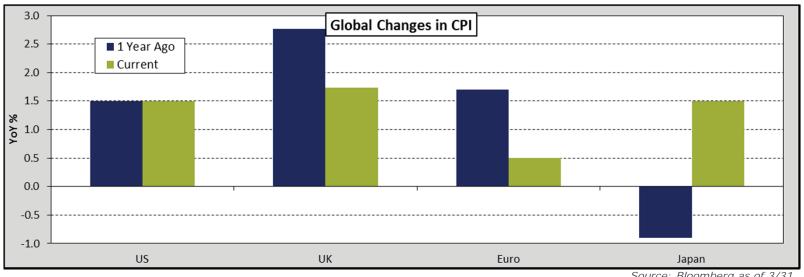
## Dislocation of Emerging Markets is a Unique Situation Given Recent History



Source: Bloomberg as of 2/28, Total is representative of world market, BRIC is an equally weighted average of indicators for each country



## Inflation and Near Term Inflation Expectations Remain Low

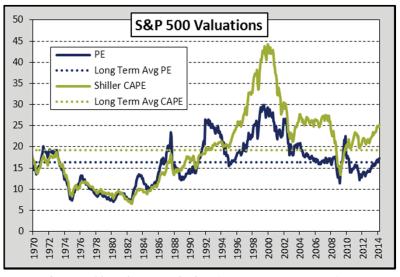


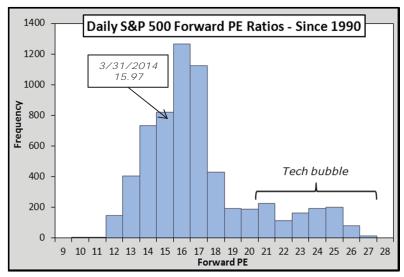
Source: Bloomberg as of 3/31





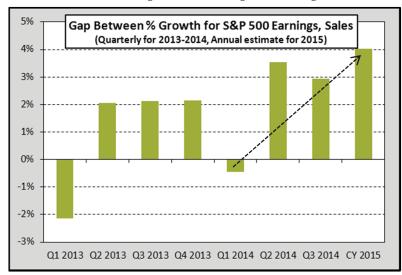
### US Equity Markets: Poised to Continue or Overly Optimistic

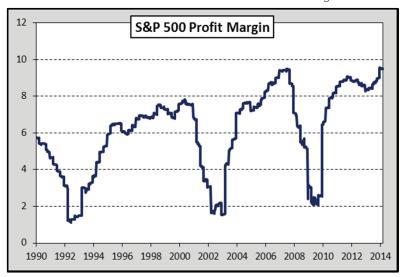




Source: Bloomberg as of 3/31, Long-term averages since 1954



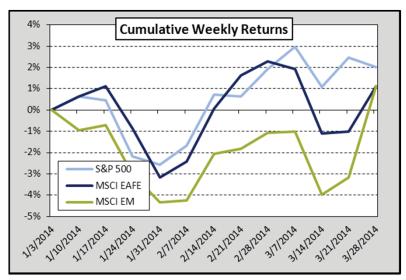


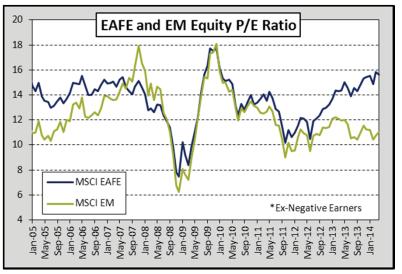


Source: Bloomberg as of 3/31

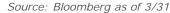


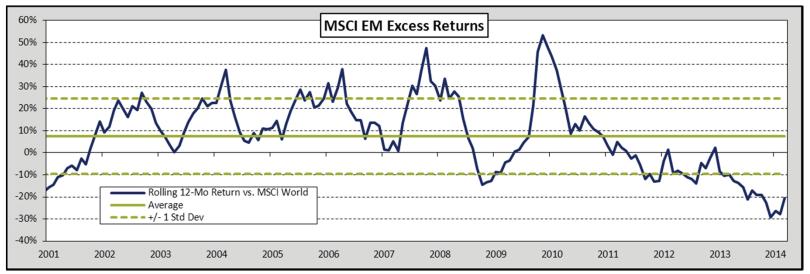
## Global Equity Markets: EM Still Lagging, But Weathering Macro Concerns





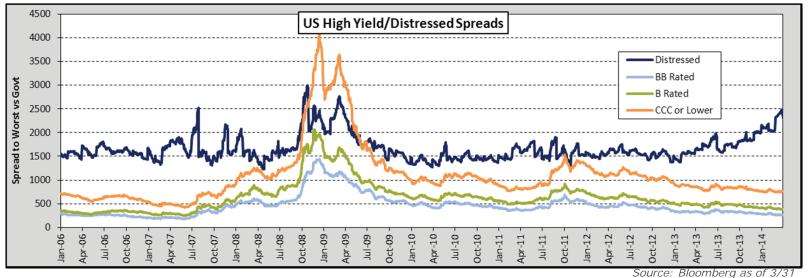
Source: Bloomberg as of 3/31

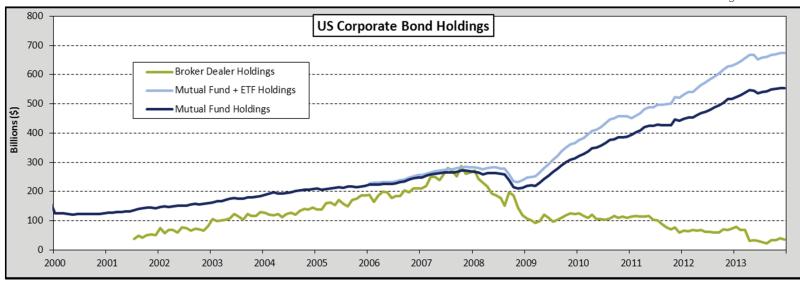






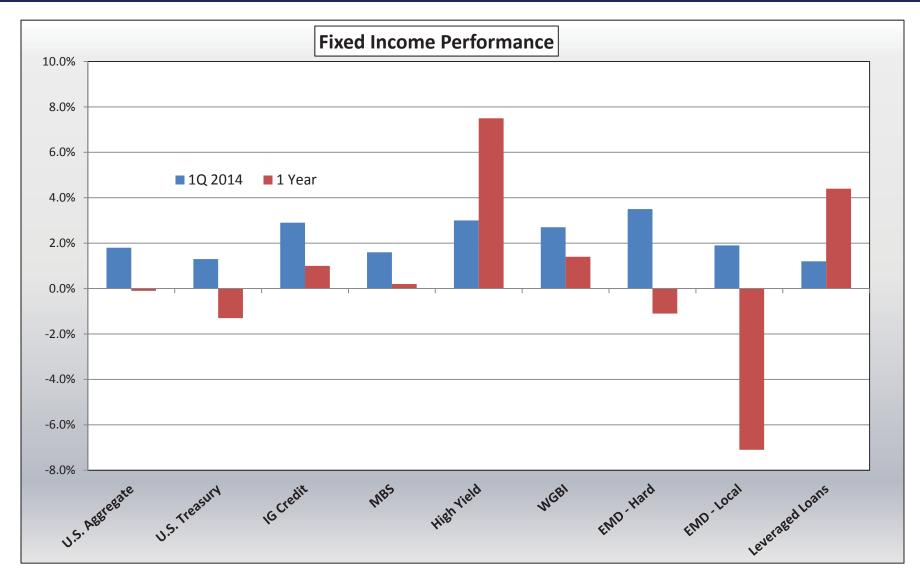
## Spreads Have Tightened as Retail Investors Flocked to Yield







## Fixed Income Performance





### Outlook

### Markets have generally shown resiliency so far in 2014

- Withstood adjustments in balance of payment challenged EM countries
- Limited market reaction to Russia/Ukraine issues

### US taper has generally been accepted by markets

- Already reduced from \$85 billion to \$55 billion in monthly purchases
- Rates remain low and accommodating

### Slow and steady economic growth continues

Inflation remains subdued

### Continued low volatility may obscure underlying economic challenges

- European peripheral countries continue to face high unemployment
- Many EM countries face further balance of payment adjustments
- China faces slowing growth and potential credit issues

### · Valuations beginning to move beyond fair value

- While not stretched, equity P-E ratios are now above long-term averages
- Credit spreads continue to move tighter
  - Ex: European peripheral debt

#### NEPC themes remain consistent

- Rebalance remain diversified and balanced
- Look for opportunities to be dynamic particularly in credit
- Allocate to emerging markets and private markets for higher returns in low return world



# Returns for Key Indices Ranked in Order of Performance

2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	QTD	3 year	5 Year	10 Year
RUSSELL 2000 VALUE 22.83	RUSSELL 2000 VALUE 14.03	BC AGGREGATE 10.25	MSCI EMERGING MARKETS 55.82	MSCI EMERGING MARKETS 25.55	MSCI EMERGING MARKETS 34.54	MSCI EMERGING MARKETS 32.17	MSCI EMERGING MARKETS 39.39	BC AGGREGATE 5.24	MSCI EMERGING MARKETS 78.51	RUSSELL 2000 GROWTH 29.09	BC AGGREGATE 7.84	MSCI EMERGING MARKETS 18.22	RUSSELL 2000 GROWTH 43.30	RUSSELL 1000 VALUE 3.02	RUSSELL 1000 VALUE 14.80	RUSSELL 2000 GROWTH 25.24	MSCI EMERGING MARKETS 10.11
BC AGGREGATE 11.63	BC AGGREGATE 8.44	MSCI EMERGING MARKETS -6.17	RUSSELL 2000 GROWTH 48.54	RUSSELL 2000 VALUE 22.25	MSCI EAFE 13.54	MSCI EAFE 26.34	RUSSELL 1000 GROWTH 11.81	RUSSELL 2000 VALUE -28.92	RUSSELL 1000 GROWTH 37.21	RUSSELL 2000 26.85	RUSSELL 1000 GROWTH 2.64	RUSSELL 2000 VALUE 18.05	RUSSELL 2000 38.82	RUSSELL 1000 2.05	RUSSELL 1000 14.74	RUSSELL 2000 24.32	RUSSELL 2000 GROWTH 8.87
RUSSELL 1000 VALUE 7.01	RUSSELL 2000 2.49	RUSSELL 2000 VALUE -11.43	RUSSELL 2000 47.25	MSCI EAFE 20.25	RUSSELL 1000 VALUE 7.05	RUSSELL 1000 VALUE 22.25	MSCI EAFE 11.17	RUSSELL 2000 -33.79	RUSSELL 2000 GROWTH 34.47	RUSSELL 2000 VALUE 24.5	S&P 500 2.11	RUSSELL 1000 VALUE 17.51	RUSSELL 2000 VALUE 34.52	BC AGGREGATE 1.84	S&P 500 14.65	RUSSELL 2000 VALUE 23.33	RUSSELL 2000 8.53
RUSSELL 2000 -3.02	MSCI EMERGING MARKETS -2.62	RUSSELL 1000 VALUE -15.52	RUSSELL 2000 VALUE 46.03	RUSSELL 2000 18.33	RUSSELL 1000 6.27	RUSSELL 2000 VALUE 23.48	RUSSELL 2000 GROWTH 7.06	RUSSELL 1000 VALUE -36.85	MSCI EAFE 31.78	MSCI EMERGING MARKETS 18.88	RUSSELL 1000 1.50	MSCI EAFE 17.32	RUSSELL 1000 GROWTH 33.48	S&P 500 1.81	RUSSELL 1000 GROWTH 14.62	RUSSELL 1000 VALUE 21.75	RUSSELL 2000 VALUE 8.07
RUSSELL 1000 -7.79	RUSSELL 1000 VALUE -5.59	MSCI EAFE -15.94	MSCI EAFE 38.59	RUSSELL 1000 VALUE 16.49	RUSSELL 1000 GROWTH 5.26	RUSSELL 2000 18.37	BC AGGREGATE 6.97	S&P 500 -37.0	RUSSELL 1000 28.43	RUSSELL 1000 GROWTH 16.71	RUSSELL 1000 VALUE 0.39	RUSSELL 1000 16.42	RUSSELL 1000 33.11	RUSSELL 2000 VALUE 1.78	RUSSELL 2000 GROWTH 13.61	RUSSELL 1000 21.73	RUSSELL 1000 GROWTH 7.86
S&P 500 -9.10	RUSSELL 2000 GROWTH -9.23	RUSSELL 2000 -20.48	RUSSELL 1000 VALUE 30.03	RUSSELL 2000 GROWTH 14.31	S&P 500 4.91	S&P 500 15.8	RUSSELL 1000 5.77	RUSSELL 1000 -37.6	RUSSELL 2000 27.16	RUSSELL 1000 16.10	RUSSELL 2000 GROWTH -2.91	RUSSELL 2000 16.35	RUSSELL 1000 VALUE 32.53	RUSSELL 1000 GROWTH 1.12	RUSSELL 2000 13.18	RUSSELL 1000 GROWTH 21.68	RUSSELL 1000 7.80
MSCI EAFE -14.17	S&P 500 -11.88	RUSSELL 1000 -21.65	RUSSELL 1000 29.89	RUSSELL 1000 11.40	RUSSELL 2000 VALUE 4.71	RUSSELL 1000 15.46	S&P 500 5.49	RUSSELL 1000 GROWTH -38.44	S&P 500 26.46	RUSSELL 1000 VALUE 15.51	RUSSELL 2000 -4.18	S&P 500 16.00	S&P 500 32.39	RUSSELL 2000 1.12	RUSSELL 2000 VALUE 12.73	S&P 500 21.16	RUSSELL 1000 VALUE 7.58
RUSSELL 1000 GROWTH -22.42	RUSSELL 1000 -12.45	S&P 500 -22.1	RUSSELL 1000 GROWTH 29.75	S&P 500 10.88	RUSSELL 2000 4.55	RUSSELL 2000 GROWTH 13.35	RUSSELL 1000 VALUE -0.17	RUSSELL 2000 GROWTH -38.54	RUSSELL 2000 VALUE 20.58	S&P 500 15.06	RUSSELL 2000 VALUE -5.50	RUSSELL 1000 GROWTH 15.26	MSCI EAFE 22.78	MSCI EAFE 0.66	MSCI EAFE 7.21	MSCI EAFE 16.02	S&P 500 7.42
RUSSELL 2000 GROWTH -22.43	RUSSELL 1000 GROWTH -20.42	RUSSELL 1000 GROWTH -27.89	S&P 500 28.69	RUSSELL 1000 GROWTH 6.30	RUSSELL 2000 GROWTH 4.15	RUSSELL 1000 GROWTH 9.07	RUSSELL 2000 -1.56	MSCI EAFE -43.38	RUSSELL 1000 VALUE 19.69	MSCI EAFE 7.75	MSCI EAFE -12.14	RUSSELL 2000 GROWTH 14.59	BC AGGREGATE -2.02	RUSSELL 2000 GROWTH 0.48	BC AGGREGATE 3.75	MSCI EMERGING MARKETS 14.48	MSCI EAFE 6.53
MSCI EMERGING MARKETS -30.83	MSCI EAFE -21.44	RUSSELL 2000 GROWTH -30.26	BC AGGREGATE 4.10	BC AGGREGATE 4.34	BC AGGREGATE 2.43	BC AGGREGATE 4.33	RUSSELL 2000 VALUE -9.78	MSCI EMERGING MARKETS -53.33	BC AGGREGATE 5.93	BC AGGREGATE 6.54	MSCI EMERGING MARKETS -18.42	BC AGGREGATE 4.21	MSCI EMERGING MARKETS -2.60	MSCI EMERGING MARKETS -0.43	MSCI EMERGING MARKETS -2.86	BC AGGREGATE 4.80	BC AGGREGATE 4.46



# Investment Market Update: As of April 30, 2014

#### PERFORMANCE THROUGH 4/30/2014

TERT CRIVITATOR III	RUUGH 4/30/2014									
<u>Sector</u>	<u>Index</u>	2008	2009	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>Q1</u>	APR	<u>2014</u>
Treasury STRIPS	Barclays US Strips 20+ Yr	59.5%	-36.0%	10.9%	58.5%	3.0%	-21.0%	12.7%	3.5%	16.7%
REITS	Wilshire US REIT	-39.2%	28.6%	28.6%	9.2%	17.6%	1.9%	10.1%	3.6%	14.0%
Commodities	DJ UBS Commodity	-35.7%	18.9%	16.8%	-13.3%	-1.1%	-9.5%	7.0%	2.4%	9.6%
Long Govt/Credit	Barclays US Govt/Credit Long	8.4%	1.9%	10.2%	22.5%	8.8%	-8.8%	6.6%	2.2%	8.9%
Long Credit	Barclays US Long Credit	-3.9%	16.8%	10.7%	17.1%	12.7%	-6.6%	6.3%	2.3%	8.7%
Muni Bonds	Barclays Municipal	-2.5%	12.9%	2.4%	10.7%	6.8%	-2.6%	3.3%	1.2%	4.6%
Large Cap Value	Russell 1000 Value	-36.9%	19.7%	15.5%	0.4%	17.5%	32.5%	3.0%	1.0%	4.0%
EMD USD	Barclays EM USD Agg	-14.8%	34.2%	12.8%	7.0%	18.0%	-4.1%	2.8%	1.1%	4.0%
Global Bonds	Citi WGBI	10.9%	2.6%	5.2%	6.4%	1.7%	-4.0%	2.7%	1.1%	3.8%
High Yield	Barclays US Corp High Yield	-26.2%	58.2%	15.1%	5.0%	15.8%	7.4%	3.0%	0.6%	3.6%
EMD Local	JPM GBI EM Glob Div	-5.2%	22.0%	15.7%	-1.8%	16.8%	-9.0%	1.9%	0.9%	2.8%
Core Bonds	Barclays US Agg Bond	5.2%	5.9%	6.5%	7.8%	4.2%	-2.0%	1.8%	0.8%	2.7%
Diversified	Diversified*	-24.5%	24.1%	13.5%	1.3%	12.7%	17.6%	2.1%	0.5%	2.6%
Large Cap	S&P 500	-37.0%	26.5%	15.1%	2.1%	16.0%	32.4%	1.8%	0.7%	2.6%
Large Cap	Russell 1000	-37.6%	28.4%	16.1%	1.5%	16.4%	33.1%	2.1%	0.5%	2.5%
Int'l Developed	MSCI EAFE	-43.4%	31.8%	7.8%	-12.1%	17.3%	22.8%	0.7%	1.5%	2.1%
Interm Core Bonds	Barclays US Agg Interm	4.9%	6.5%	6.2%	6.0%	3.6%	-1.0%	1.2%	0.7%	1.9%
Interm Govt/Credit	Barclays US Govt/Credit Interm	5.1%	5.2%	5.9%	5.8%	3.9%	-0.9%	1.0%	0.5%	1.5%
Large Cap Growth	Russell 1000 Growth	-38.4%	37.2%	16.7%	2.6%	15.3%	33.5%	1.1%	0.0%	1.1%
Govt/Credit	Barclays Govt/Credit 1-5 Yr	5.1%	4.6%	4.1%	3.1%	2.2%	0.3%	0.4%	0.3%	0.7%
Govt/Credit	Barclays US Govt/Credit 1-3 Yr	5.0%	3.8%	2.8%	1.6%	1.3%	0.6%	0.2%	0.2%	0.4%
SMID Cap	Russell 2500	-36.8%	34.4%	26.7%	-2.5%	17.9%	36.8%	2.3%	-2.3%	-0.1%
Emerging Equities	MSCI EM	-53.3%	78.5%	18.9%	-18.4%	18.2%	-2.6%	-0.4%	0.3%	-0.1%
Small Cap Value	Russell 2000 Value	-28.9%	20.6%	24.5%	-5.5%	18.1%	34.5%	1.8%	-2.6%	-0.8%
Small Cap	Russell 2000	-33.8%	27.2%	26.9%	-4.2%	16.4%	38.8%	1.1%	-3.9%	-2.8%
Small Cap Growth	Russell 2000 Growth	-38.5%	34.5%	29.1%	-2.9%	14.6%	43.3%	0.5%	-5.1%	-4.7%

 $^*~35\%~LC~,~10\%~SC~,~12\%~Intl~Equity,~3\%~Emerging~Equity,~25\%~Core~Bonds,~5\%~HY,~5\%~Global~Bonds,~5\%~REITS$ 

Source: Morningstar Direct



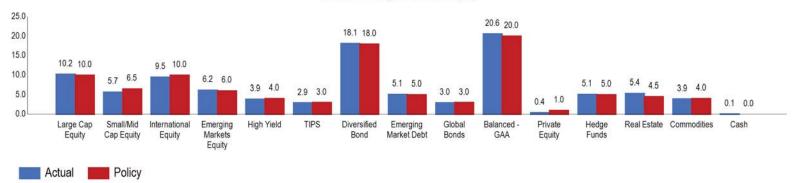
# **State Teachers' Retirement System**



# Total Fund Performance Summary

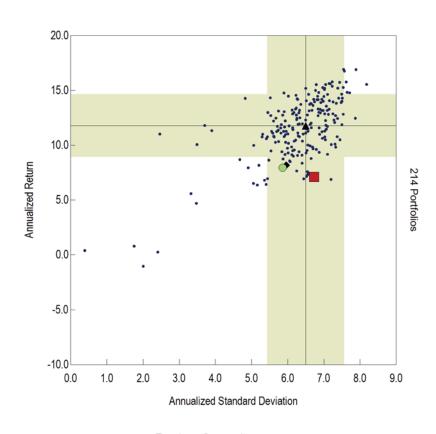
			Market Value	3 Mo	Rank	Fiscal YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank
Teachers Composite			\$1,665,080,215	2.6%	2	9.8%	89	7.1%	95	7.5%	83	15.0%	25
Policy Index				1.9%	26	9.8%	89	8.2%	92	6.6%	94	12.2%	76
Allocation Index				1.8%	30	9.5%	93	8.0%	92	6.4%	95	12.8%	68
InvestorForce Public DB Gross Median				1.6%		11.9%		11.8%		8.6%		13.7%	
			3 Years Ending M	arch 31	, 2014								
	Anlzd Ret	Rank	Anlzd Std Dev	1	Rank	Shai	rpe Ratio	R	ank	Sortino F	Ratio RF	Ran	k
Teachers Composite	7.46%	83	7.43%		36		1.00	-	73	1.4	46	61	
Policy Index	6.58%	94	7.18%		30		0.91		86	1.3	31	80	
Allocation Index	6.40%	95	7.30%		33		0.87	8	89	1.2	22	87	
			5 Years Ending Ma										
	Anlzd Ret	Rank	Anlzd Std Dev		Rank	Shar	pe Ratio	Ra	ank	Sortino R	Ratio RF	Rank	<
Teachers Composite	15.03%	25	9.17%		60		1.63	3	35	2.9	2	16	
Policy Index	12.23%	76	8.36%		44		1.45	8	33	2.5	51	55	
Allocation Index	12.78%	68	8.71%		49		1.46	8	33	2.5	2	54	

#### Actual vs Target Allocation (%)





1 Year Ending March 31, 2014

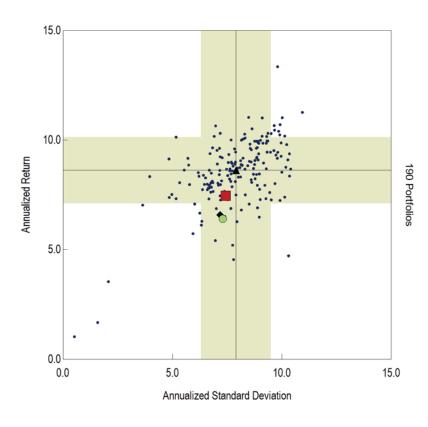


### 1 Year Ending March 31, 2014

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	7.11%	95	6.72%	64	1.05	98
Policy Index	8.18%	92	5.96%	27	1.37	90
S&P 500	21.86%	1	9.96%	99	2.19	11
60% MSCI ACWI (Net)/40% CITI WGBI	10.36%	73	7.75%	99	1.33	92
Citi WGBI	1.37%	99	5.31%	9	0.25	99
MSCI ACWI	16.55%	2	10.96%	99	1.51	81
MSCI ACWI ex USA	12.31%	44	12.98%	99	0.95	99
InvestorForce Public DB Gross Median	11.78%		6.50%		1.88	

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

3 Years Ending March 31, 2014

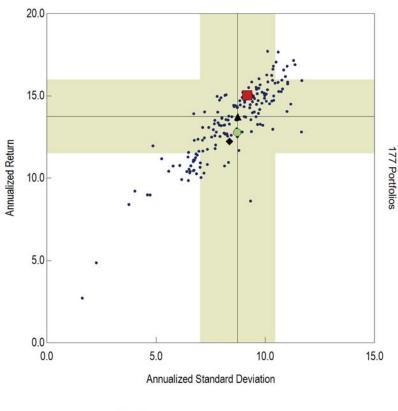


### 3 Years Ending March 31, 2014

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	7.46%	83	7.43%	36	1.00	73
Policy Index	6.58%	94	7.18%	30	0.91	86
S&P 500	14.66%	1	12.47%	99	1.17	28
60% MSCI ACWI (Net)/40% CITI WGBI	6.10%	96	9.38%	85	0.65	99
Citi WGBI	1.91%	99	4.77%	3	0.39	99
MSCI ACWI	8.55%	53	14.54%	99	0.58	99
MSCI ACWI ex USA	4.15%	99	16.88%	99	0.24	99
InvestorForce Public DB Gross Median	8.63%		7.91%		1.09	

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



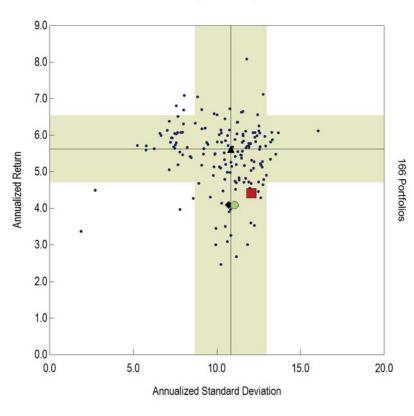


### 5 Years Ending March 31, 2014

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	15.03%	25	9.17%	60	1.63	35
Policy Index	12.23%	76	8.36%	44	1.45	83
S&P 500	21.16%	1	13.99%	99	1.51	72
60% MSCI ACWI (Net)/40% CITI WGBI	12.33%	75	10.79%	94	1.14	99
Citi WGBI	3.84%	99	6.01%	6	0.63	99
MSCI ACWI	17.80%	1	16.22%	99	1.09	99
MSCI ACWI ex USA	15.52%	14	18.68%	99	0.83	99
InvestorForce Public DB Gross Median	13.74%		8.74%		1.59	-

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





### 7 Years Ending March 31, 2014

	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	4.41%	87	12.06%	78	0.31	90
Policy Index	4.09%	92	10.69%	47	0.32	89
S&P 500	6.31%	12	17.02%	99	0.33	86
60% MSCI ACWI (Net)/40% CITI WGBI	4.52%	85	12.58%	90	0.30	92
Citi WGBI	4.90%	76	7.15%	7	0.59	23
MSCI ACWI	3.54%	95	19.12%	99	0.15	99
MSCI ACWI ex USA	1.70%	99	21.51%	99	0.05	99
InvestorForce Public DB Gross Median	5.62%		10.83%		0.43	

■ Teachers Composite

Policy Index

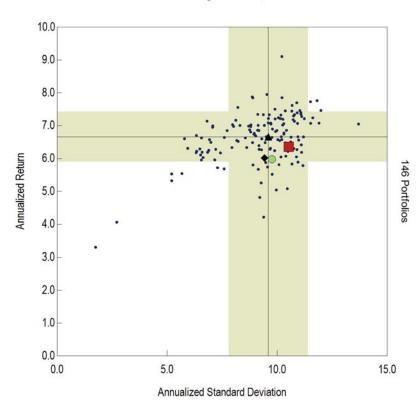
Allocation Index

▲ Universe Median

68% Confidence Interval

InvestorForce Public DB Gross





10	<b>Years</b>	<b>Ending</b>	March	31,	2014
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	Anlzd Return	Anlzd Return Rank	Anlzd Standard Deviation	Anlzd Standard Deviation Rank	Sharpe Ratio	Sharpe Ratio Rank
Teachers Composite	6.36%	67	10.53%	77	0.46	84
Policy Index	6.02%	85	9.42%	46	0.48	81
S&P 500	7.42%	11	14.71%	99	0.40	97
60% MSCI ACWI (Net)/40% CITI WGBI	6.21%	78	11.05%	90	0.42	92
Citi WGBI	4.23%	99	6.83%	12	0.39	97
MSCI ACWI	6.97%	37	16.63%	99	0.33	99
MSCI ACWI ex USA	7.12%	25	18.94%	99	0.29	99
InvestorForce Public DB Gross Median	6.66%		9.60%		0.56	

Teachers Composite

Policy Index

Allocation Index

▲ Universe Median

68% Confidence Interval

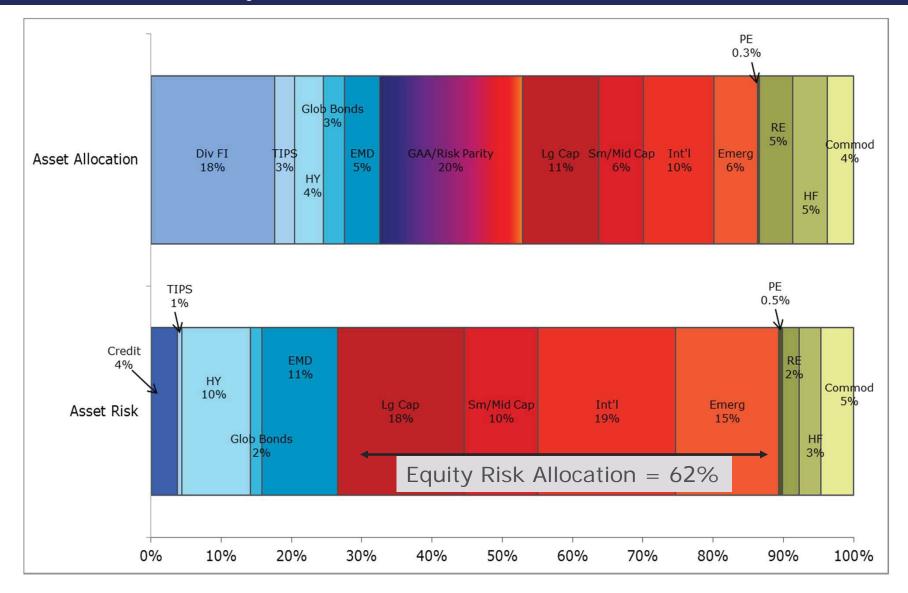
InvestorForce Public DB Gross

# Total Fund Asset Allocation vs. Policy Targets

Policy	Current	Actual		Asset Allocation vs. Target			
1 0110)	- Carrona	Aotau		Current	Policy	Current	Difference*
10.0%	10.00/		Large Cap Equity	\$170,352,689	10.0%	10.2%	0.2%
10,0%	10.2%	11.0%	Small/Mid Cap Equity	\$94,893,065	6.5%	5.7%	-0.8%
			International Equity	\$157,874,344	10.0%	9.5%	-0.5%
6.5%	5.7%	6.2%	Emerging Markets Equity	\$102,441,404	6.0%	6.2%	0.2%
		1	High Yield	\$64,661,817	4.0%	3.9%	-0.1%
10.0%	9.5%		TIPS	\$48,664,980	3.0%	2.9%	-0.1%
10.070	, 1500 A. (1500 A. (1	12.9%	Diversified Bond	\$301,495,192	18.0%	18.1%	0.1%
1004000000	6.2%		Emerging Market Debt	\$85,341,139	5.0%	5.1%	0.1%
6.0%	6.278		Global Bonds	\$49,122,623	3.0%	3.0%	0.0%
4.0%	3.9%	7.9%	Balanced - GAA	\$343,363,153	20.0%	20.6%	0.6%
3.0%	2.9%		Private Equity	\$6,629,834	1.0%	0.4%	-0.6%
**************************************		5.4%	Hedge Funds	\$84,619,948	5.0%	5.1%	0.1%
		4.500	Real Estate	\$89,108,152	4.5%	5.4%	0.9%
18.0%	18.1%	4.5%	Commodities	\$65,139,402	4.0%	3.9%	-0.1%
10.078			Cash	\$1,372,474		0.1%	0.1%
			Total	\$1,665,080,215	100.0%	100.0%	
5.0%	5.1%	22.0%	*Difference between Policy and Current Allocation				
3.0%	3.0%						
3.0%							
20.0%	20.6%	6.6%					
20.0%							
		6.4%					
	0.40	0.496					
5.0%	5.1%	5.9%					
		5.6%					
4.5%	5.4%	0.070					
4.0%	3.9% 0.1%	5.3% 0.0%					



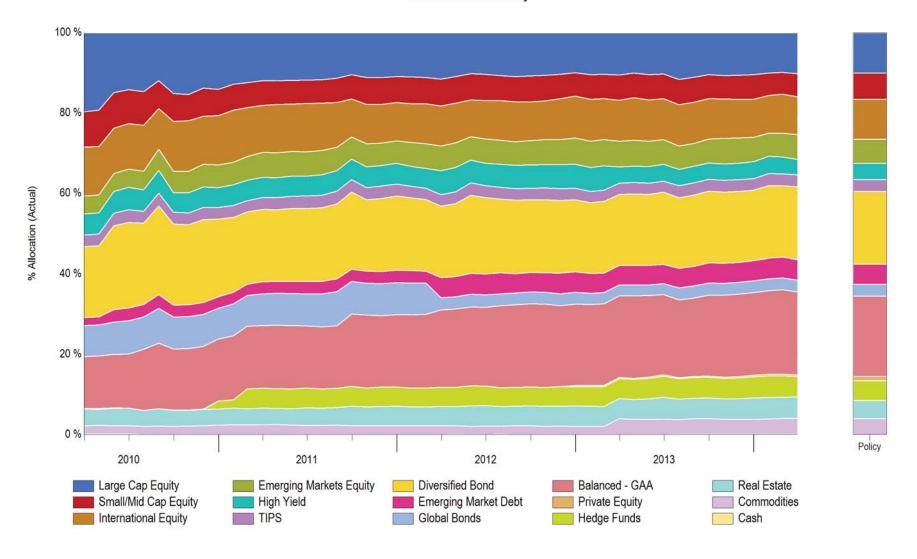
### Total Plan Performance Analysis





## Total Fund Asset Allocation History

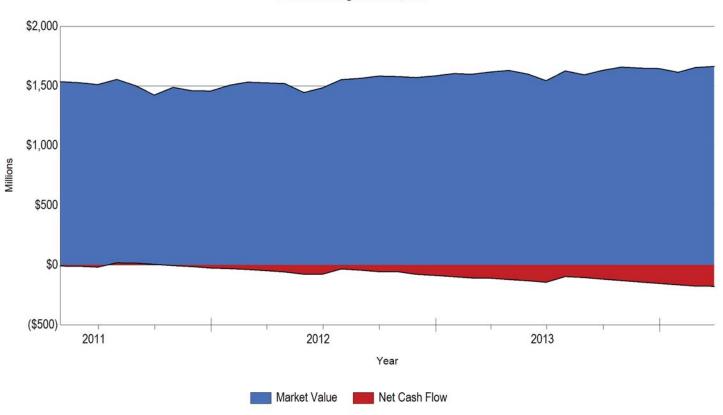
#### **Asset Allocation History**





# Total Fund Asset Growth Summary

3 Years Ending March 31, 2014



	Last Three Months	Year-To-Date	Fiscal Year-To-Date	One Year	Three Years
Beginning Market Value	\$1,646,698,342	\$1,646,698,342	\$1,544,981,481	\$1,617,830,201	\$1,501,589,608
- Withdrawals	-\$44,366,121	-\$44,366,121	-\$182,714,567	-\$217,098,924	-\$878,657,574
+ Contributions	\$20,116,596	\$20,116,596	\$148,804,531	\$149,238,199	\$701,344,685
= Net Cash Flow	-\$24,249,525	-\$24,249,525	-\$33,910,036	-\$67,860,725	-\$177,776,767
+ Net Investment Change	\$42,631,398	\$42,631,398	\$154,008,770	\$115,110,739	\$341,267,375
= Ending Market Value	\$1,665,080,215	\$1,665,080,215	\$1,665,080,215	\$1,665,080,215	\$1,665,080,215



# Total Fund Asset Growth Summary by Manager

#### Quarter Ending March 31, 2014

			Quarter Enamy	March 01, 2014		
	Beginning Market Value	Withdrawals	Contributions	Net Cash Flow	Net Investment Change	Ending Market Value
Aberdeen	\$100,882,727	\$0	\$0	\$0	\$1,558,677	\$102,441,404
Acadian	\$64,510,960	-\$3,000,000	\$0	-\$3,000,000	\$2,914,846	\$64,425,806
Allianz Structured Alpha	\$40,045,071	\$0	\$0	\$0	\$1,624,700	\$41,669,771
AQR Global Risk Premium	\$132,034,524	\$0	\$0	\$0	\$7,452,059	\$139,486,583
BlackRock TIPS	\$47,753,234	\$0	\$0	\$0	\$911,747	\$48,664,980
Champlain	\$34,397,706	-\$2,000,000	\$0	-\$2,000,000	-\$471,020	\$31,926,687
GAM	\$17,629,991	-\$1,000,000	\$0	-\$1,000,000	\$45,244	\$16,675,235
Grosvenor	\$34,965,656	-\$1,500,000	\$0	-\$1,500,000	\$539,979	\$34,005,635
Guggenheim	\$51,186,469	-\$4,000,000	\$0	-\$4,000,000	\$1,909,436	\$49,095,906
Harbourvest Dover VIII Fund	\$2,820,446	-\$106,939	\$0	-\$106,939	\$0	\$2,713,506
Harbourvest Partners IX Buyout Fund	\$1,940,026	\$0	\$0	\$0	\$0	\$1,940,026
Harbourvest Partners IX Credit Opportunities	\$359,170	\$0	\$0	\$0	\$0	\$359,170
Harbourvest Partners IX Venture Fund	\$1,617,132	\$0	\$0	\$0	\$0	\$1,617,132
KDP	\$17,130,753	-\$2,026,801	\$0	-\$2,026,801	\$461,959	\$15,565,911
Liquidating Post Advisory	\$342,509	\$0	\$0	\$0	-\$342,508	\$1
Mellon Global Expanded Alpha	\$35,597,551	-\$2,500,000	\$0	-\$2,500,000	-\$1,634,689	\$31,462,861
Mondrian	\$66,628,271	-\$3,500,000	\$0	-\$3,500,000	\$5,080,869	\$68,209,140
Mondrian GFI	\$48,193,763	\$0	\$0	\$0	\$928,859	\$49,122,623
Morgan Stanley Prime Property	\$39,689,567	-\$108,680	\$0	-\$108,680	\$1,168,892	\$40,749,779
Permal	\$34,827,465	-\$1,500,000	\$0	-\$1,500,000	\$611,614	\$33,939,079
PIMCO All Asset	\$99,295,505	-\$2,720,957	\$0	-\$2,720,957	\$2,672,446	\$99,246,994
PIMCO Core Plus	\$104,024,931	\$0	\$2,000,000	\$2,000,000	\$1,807,590	\$107,832,521
PIMCO Unconstrained	\$103,449,828	\$0	\$5,500,000	\$5,500,000	\$1,044,773	\$109,994,601
RREEF America REIT III	\$12,146,938	-\$408,163	\$0	-\$408,163	\$491,025	\$12,229,800
Schroder	\$61,527,086	\$0	\$0	\$0	\$3,612,315	\$65,139,402



# Total Fund Asset Growth Summary by Manager

#### Quarter Ending March 31, 2014

	Beginning Market Value	Withdrawals	Contributions	Net Cash Flow	Net Investment Change	Ending Market Value
SSgA ACWI Ex US	\$25,098,039	\$0	\$0	\$0	\$141,358	\$25,239,397
SSgA Russell 2000 Growth	\$20,610,135	\$0	\$0	\$0	\$67,565	\$20,677,699
SSgA S&P 400	\$8,054,457	\$0	\$0	\$0	\$245,337	\$8,299,794
SSgA S&P 500 Cap-Wgt	\$75,387,595	\$0	\$1,500,000	\$1,500,000	\$1,358,941	\$78,246,536
SSgA S&P 500 Equal-Wgt	\$45,313,770	-\$4,000,000	\$1,500,000	-\$2,500,000	\$1,220,132	\$44,033,902
T. Rowe	\$52,208,666	-\$6,700,000	\$3,000,000	-\$3,700,000	-\$436,416	\$48,072,250
Transwestern / Aslan III	\$458,710	-\$1,221	\$0	-\$1,221	\$1,649	\$459,138
UBS Trumbull	\$34,754,531	-\$93,360	\$93,360	\$0	\$914,904	\$35,669,435
Vermont Cash	\$849,238	\$0	\$523,236	\$523,236	\$0	\$1,372,474
Wellington	\$36,879,705	-\$9,200,000	\$6,000,000	-\$3,200,000	\$309,179	\$33,988,885
Wellington DAS	\$40,299,243	\$0	\$0	\$0	\$1,699,056	\$41,998,298
Wellington OIF	\$71,457,682	\$0	\$0	\$0	\$1,709,033	\$73,166,715
Wellington Opportunistic EMD	\$82,329,292	\$0	\$0	\$0	\$3,011,847	\$85,341,139
Total	\$1,646,698,342	-\$44,366,121	\$20,116,596	-\$24,249,525	\$42,631,398	\$1,665,080,215



### Vermont State Teachers

# Total Fund Performance Detail

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank
Teachers Composite	1,665,080,215	100.0	100.0	2.6	2	9.8	89	7.1	95	7.5	83	15.0	25
Policy Index				1.9	26	9.8	89	8.2	92	6.6	94	12.2	76
Allocation Index				1.8	30	9.5	93	8.0	92	6.4	95	12.8	68
InvestorForce Public DB Gross Median				1.6		11.9		11.8		8.6		13.7	
US Equity	265,245,753	15.9		1.8	55	19.8	61						
Russell 3000				2.0	50	19.4	65	22.6	65	14.6	48	21.9	62
eA All US Equity Gross Median				1.9		20.7		24.3		14.5		23.0	
Large Cap Comp	170,352,689	10.2	10.0	2.0	50	19.2	58	22.9	54	14.9	45	24.0	9
S&P 500				1.8	56	18.4	66	21.9	66	14.7	48	21.2	47
eA US Large Cap Equity Gross Median				2.0		19.8		23.3		14.5		21.0	
T. Rowe	48,072,250	2.9	3.0	1.5	65	19.1	59	22.8	55	15.1	41	21.4	42
SSgA S&P 500 Cap-Wgt	78,246,536	4.7	4.0	1.8	56	18.4	66	21.9	66	14.7	48		
S&P 500				1.8	56	18.4	66	21.9	66	14.7	48	21.2	47
SSgA S&P 500 Equal-Wgt	44,033,902	2.6	3.0	3.0	21	20.7	38	24.8	36	15.4	36	26.7	2
S&P 500 Equal Weighted				3.0	22	20.7	40	24.6	37	15.4	35	26.6	2
Small/Mid Cap Comp	94,893,065	5.7	6.5	1.3	61	20.7	64	23.5	65	14.6	38	25.7	49
Russell 2000				1.1	62	21.2	60	24.9	51	13.2	61	24.3	65
eA US Small-Mid Cap Equity Gross Median				1.9		22.0		25.0		13.9		25.6	
SSgA S&P 400	8,299,794	0.5	0.5	3.0	35	20.1	68	21.4	78				
S&P 400 MidCap				3.0	35	20.0	69	21.2	79	13.4	61	24.9	43
eA US Mid Cap Equity Gross Median				2.4		21.9		24.5		13.8		24.4	
Champlain	31,926,687	1.9	2.0	1.4	69	20.8	62	23.1	61	14.9	36		
Russell 2500				2.3	52	21.3	58	24.0	54	13.9	50	25.3	34
eA US Mid Cap Equity Gross Median				2.4		21.9		24.5		13.8		24.4	
Wellington	33,988,885	2.0	2.0	1.5	66	19.6	77	22.1	80	15.5	35	26.5	45
Russell 2000 Value				1.8	56	19.7	75	22.6	75	12.7	74	23.3	81
eA US Small Cap Value Equity Gross Median				2.0		21.9		25.2		14.3		26.1	
SSgA Russell 2000 Growth	20,677,699	1.2	2.0	0.4	54	22.5	62	27.1	71	13.6	69	25.2	69
Russell 2000 Growth				0.5	54	22.6	60	27.2	71	13.6	69	25.2	69
eA US Small Cap Growth Equity Gross Median				0.7		23.8		29.5		15.0		26.7	

Fiscal Year End is 6/30



### Vermont State Teachers

# Total Fund Performance Detail

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank
Int'l Equity Comp	157,874,344	9.5	10.0	3.6	15	22.0	34	21.4	39	8.5	59	16.4	75
MSCI EAFE				0.7	59	18.7	61	17.6	66	7.2	74	16.0	80
eA All EAFE Equity Gross Median				1.1		19.9		19.9		9.0		18.1	
Acadian	64,425,806	3.9	4.0	4.6	7	24.9	17	23.5	26	9.4	45	18.2	49
Mondrian	68,209,140	4.1	4.0	3.7	14	21.3	39	23.1	29	9.3	47	15.8	82
MSCI EAFE				0.7	59	18.7	61	17.6	66	7.2	74	16.0	80
SSgA ACWI Ex US	25,239,397	1.5	2.0	0.6	51	16.1	71	12.6	75	4.4	88		
MSCI ACWI ex USA				0.5	52	15.9	72	12.3	79	4.1	89	15.5	84
eA ACWI ex-US All Cap Equity Gross Median				0.6		17.4		15.2		7.5		18.2	
Emerging Market Comp	102,441,404	6.2	6.0	1.5	13	3.4	90	-4.9	90				
Aberdeen	102,441,404	6.2	6.0	1.5	13	3.4	90	-4.9	90	2.7	17	21.2	8
MSCI Emerging Markets				-0.4	47	7.2	60	-1.4	64	-2.9	79	14.5	79
eA Emg Mkts Equity Gross Median				-0.6		8.0		-0.4		-0.8		16.8	
US Fixed Income	414,821,989	24.9		2.2	35	2.8	49						
Barclays Aggregate				1.8	51	2.3	62	-0.1	83	3.7	63	4.8	66
eA All US Fixed Inc Gross Median				1.8		2.8		0.7		4.4		5.9	
Diversified Fixed	301,495,192	18.1	18.0	2.1	38	2.0	71	-0.9	94	4.6	47	8.8	30
Barclays Aggregate				1.8	51	2.3	62	-0.1	83	3.7	63	4.8	66
eA All US Fixed Inc Gross Median				1.8		2.8		0.7		4.4		5.9	
Allianz Structured Alpha	41,669,771	2.5	2.0	4.1	2	3.7	11	0.1	67	5.5	8	10.1	2
Citigroup 10 Year Treasury				3.4	3	0.2	99	-4.4	99	5.3	13	3.1	99
PIMCO Core Plus	107,832,521	6.5	6.5	1.7	77	1.7	95	-1.4	99	4.3	55		
Barclays Aggregate				1.8	67	2.3	75	-0.1	75	3.7	85	4.8	85
PIMCO Unconstrained	109,994,601	6.6	6.5	1.0	98	8.0	99	-1.1	98				
25% HY, 25% EMD, 50% BC Agg				2.5	7	4.7	2	1.6	8	6.0	5	9.8	2
3-Month Libor Total Return USD				0.1	99	0.2	99	0.3	59	0.3	99	0.4	99
Wellington DAS	41,998,298	2.5	3.0	4.2	1	4.1	8	-0.5	90	8.3	1	8.2	9
Wellington Custom Benchmark				6.5	1	1.4	98	-3.8	99	6.8	2	6.7	33



#### Vermont State Teachers

# Total Fund Performance Detail

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank
High Yield Comp	64,661,817	3.9	4.0	2.9	63	8.4	63	7.5	53	8.9	50	14.8	77
Barclays High Yield eA US High Yield Fixed Inc Gross Median				3.0 3.0	52	9.1 8.9	44	7.5 7.6	51	9.0 8.9	46	18.2 16.7	27
KDP	15,565,911	0.9	1.0	2.5	80	7.3	86	5.8	88	8.0	82		
Barclays High Yield BofA Merrill Lynch US High Yield BB-B Rated				3.0 3.0	52 52	9.1 8.6	44 60	7.5 6.9	51 67	9.0 8.5	46 67	18.2 15.8	27 63
Guggenheim	49,095,906	2.9	3.0	3.0	52								
eA US High Yield Fixed Inc Gross Median				3.0		8.9		7.6		8.9		16.7	
TIPS	48,664,980	2.9	3.0										
BlackRock TIPS	48,664,980	2.9	3.0	1.9		0.6		-6.6		3.5			
Barclays US TIPS				1.9		0.6		-6.5		3.5		4.9	
Global Fixed Income Comp	49,122,623	3.0	3.0	2.0	76	3.4	83	-0.4	87	1.6	94	7.2	58
Citi WGBI				2.7	50	4.5	66	1.4	66	1.9	93	3.8	98
eA All Global Fixed Inc Gross Median				2.7		5.6		2.5		4.9		7.6	
Mondrian GFI	49,122,623	3.0	3.0	2.0	76	3.4	83	-0.4	87	0.9	99	5.0	89
Citi WGBI				2.7	50	4.5	66	1.4	66	1.9	93	3.8	98
Emerging Market Debt	85,341,139	5.1	5.0										
Wellington Opportunistic EMD	85,341,139	5.1	5.0	3.7	16	5.5	33	-0.9	43	7.9	11		
JP Morgan EMBI Global TR				3.5	19	5.3	37	-1.1	45	7.2	28	11.5	71
eA All Emg Mkts Fixed Inc Gross Median				2.7		4.7		-2.0		6.0		12.8	
Total Real Estate	89,108,152	5.4	4.5	2.9		9.9		15.1					
Morgan Stanley Prime Property	40,749,779	2.4	2.0	2.9		11.2		17.6		15.2		7.3	
UBS Trumbull	35,669,435	2.1	2.0	2.5		7.8		11.4		10.9		7.4	
RREEF America REIT III	12,229,800	0.7	0.5	4.2		12.5		18.3		29.8		5.9	
Transwestern / Aslan III	459,138	0.0	0.0	0.3		4.7		11.4		14.9		-9.9	
NCREIF Property Index				2.7		8.1		11.2		11.7		7.9	
NCREIF ODCE				2.5		9.5		13.7		13.0		7.3	



#### **Vermont State Teachers**

## Total Fund Performance Detail

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	Fiscal YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank
Hedge Fund Comp	84,619,948	5.1	5.0	1.4	35	8.4	29	10.4	22	6.0	28	-	
eA HFN FOF - Multi-Strategy Net Median				0.9		7.2		7.8		3.9		6.8	
Grosvenor	34,005,635	2.0	2.0	1.6	31	9.6	20	11.7	15	6.3	26		
GAM	16,675,235	1.0	1.0	0.4	70	5.9	64	9.5	30	5.8	31		
Permal	33,939,079	2.0	2.0	1.8	26	8.6	28	9.6	30	5.8	31		
HFRI Fund of Funds Composite Index				0.5	66	5.9	64	5.9	68	2.3	71	4.9	74
GAA Comp	343,363,153	20.6	20.0	3.0	12	9.8	51	3.2	65	6.3	39	14.7	18
eA Global TAA Gross Median				1.8		9.8		5.4		5.5		11.3	
Mellon Global Expanded Alpha	31,462,861	1.9	2.5	-4.6	99	4.4	85	2.4	66	5.2	56	14.3	20
Mellon GA GEA Index				2.0	34	10.5	44	8.3	36	6.7	36	11.5	48
AQR Global Risk Premium	139,486,583	8.4	8.0	5.7	7	10.0	48	-1.0	87	7.6	26	-	
60% MSCI World / 40% CITI WGBI				1.9	39	12.9	21	12.2	18	7.4	27	13.0	35
PIMCO All Asset	99,246,994	6.0	5.0	2.5	18	7.4	61	3.1	65	6.6	36	12.8	37
PIMCO All Asset Index				1.9	43	4.3	86	1.1	76	5.2	55	8.1	77
CPI + 5% (Seasonally Adjusted)				1.7	63	5.0	84	6.6	40	6.9	33	7.2	84
Wellington OIF	73,166,715	4.4	4.5	2.4	26	15.4	5	12.5	17	3.6	68	13.6	24
65% MSCI ACWI (Net) / 35% BC Agg				1.4	71	11.8	30	10.6	23	7.1	30	13.4	26
Commodities	65,139,402	3.9	4.0										
Schroder	65,139,402	3.9	4.0	5.9		7.6		-1.0		-6.0			
Dow Jones-UBS Commodity Index TR				7.0		8.1		-2.1		-7.4		4.2	
Cash	1,372,474	0.1	0.0										
Vermont Cash	1,372,474	0.1	0.0	0.0		0.0		0.0		0.1		0.2	
91 Day T-Bills				0.0		0.0		0.0		0.1		0.1	
Private Equity	6,629,834	0.4	1.0										
Harbourvest Partners IX Credit Opportunities	359,170	0.0											
Harbourvest Partners IX Venture Fund	1,617,132	0.1											
Harbourvest Partners IX Buyout Fund	1,940,026	0.1											
Harbourvest Dover VIII Fund	2,713,506	0.2											

PIMCO All Asset Index: 40% BC Agg / 30% TIPS / 10% S&P500 / 10% BC HY / 10% JPM EMBI+

Mellon CF GEA Index: 50% MSCI ACWI / 25% CITI WGBI H/H / 10% BC Global Inflation Linked H/H /5% BC US Interm. Credit / 5% DJ-UBS Commodity / 5% R2000.

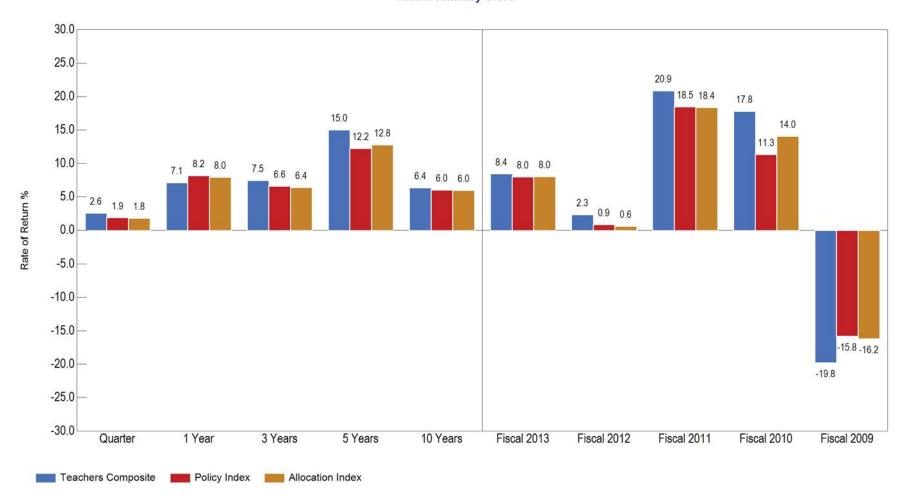
Harbourvest is based on final Capital Account Statements for Q4 2013, and cash adjusted through March for any Capital Calls or Distributions

Schroder is net of fee

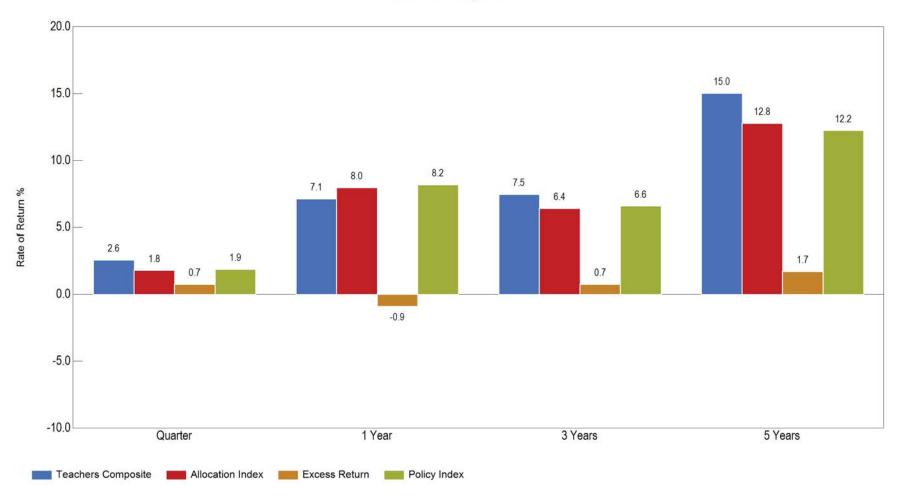


## Teachers Composite

#### **Return Summary Gross**

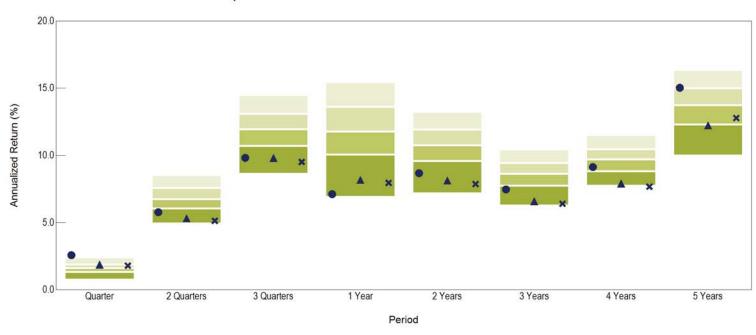


#### **Return Summary Gross**



# Total Fund Return Summary vs. Peer Universe

#### Teachers Composite vs. InvestorForce Public DB Gross

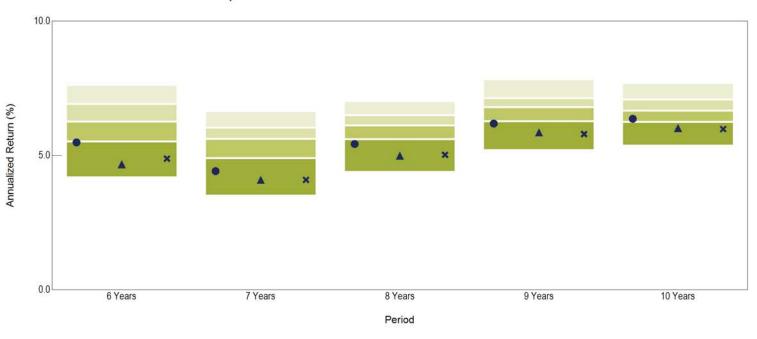


	Return (Rani	k)														
5th Percentile	2.4		8.5		14.5		15.4		13.2		10.4		11.5		16.3	
25th Percentile	1.9		7.6		13.1		13.6		11.9		9.5		10.5		15.0	
Median	1.6		6.8		11.9		11.8		10.8		8.6		9.7		13.7	
75th Percentile	1.3		6.1		10.7		10.1		9.6		7.8		8.8		12.3	
95th Percentile	0.8		5.0		8.6		6.9		7.2		6.3		7.8		10.0	
# of Portfolios	216		214		214		214		207		190		182		177	
Teachers Composite	2.6	(2)	5.8	(82)	9.8	(89)	7.1	(95)	8.7	(90)	7.5	(83)	9.1	(64)	15.0	(25)
Policy Index	1.9	(26)	5.3	(92)	9.8	(89)	8.2	(92)	8.1	(92)	6.6	(94)	7.9	(93)	12.2	(76)
Allocation Index	1.8	(30)	5.1	(94)	9.5	(93)	8.0	(92)	7.9	(94)	6.4	(95)	7.7	(96)	12.8	(68)



# Total Fund Return Summary vs. Peer Universe

#### Teachers Composite vs. InvestorForce Public DB Gross

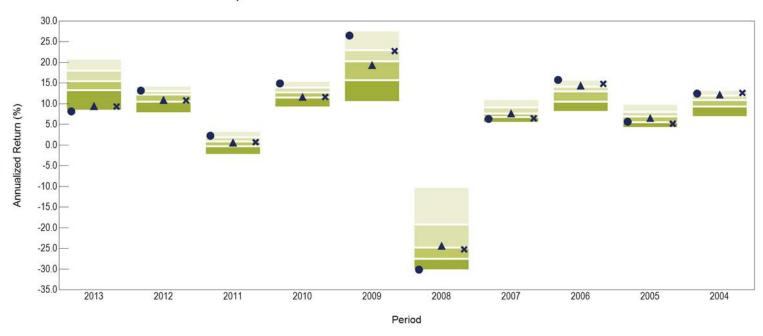


	Return (Rank)									
5th Percentile	7.6		6.6		7.0		7.8		7.7	
25th Percentile	6.9		6.0		6.5		7.1		7.1	
Median	6.3		5.6		6.1		6.8		6.7	
75th Percentile	5.5		4.9		5.6		6.3		6.3	
95th Percentile	4.2		3.5		4.4		5.2		5.4	
# of Portfolios	174		166		160		153		146	
Teachers Composite	5.5	(78)	4.4	(87)	5.4	(79)	6.2	(81)	6.4	(67)
Policy Index	4.7	(92)	4.1	(92)	5.0	(91)	5.9	(89)	6.0	(85)
Allocation Index	4.9	(91)	4.1	(92)	5.0	(90)	5.8	(90)	6.0	(85)



# Total Fund Return Summary vs. Peer Universe

#### Teachers Composite vs. InvestorForce Public DB Gross

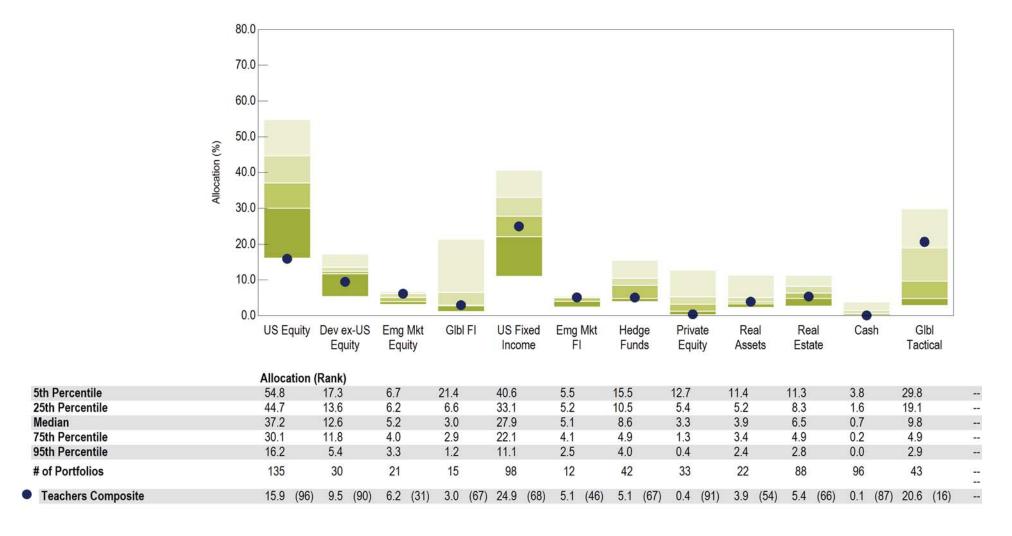


	Return (Ra	ank)																		
5th Percentile	20.8		14.3		3.4		15.5		27.6		-10.2		11.1		15.8		9.9		13.2	
25th Percentile	18.0		13.1		1.9		13.9		23.0		-19.2		9.1		14.2		8.1		12.0	
Median	15.5		12.2		0.9		12.8		20.3		-24.7		7.7		13.0		6.9		10.9	
75th Percentile	13.3		10.5		-0.3		11.5		15.7		-27.4		6.8		10.5		5.5		9.4	
95th Percentile	8.4		7.7		-2.4		9.2		10.4		-30.2		5.4		8.0		4.2		6.8	
# of Portfolios	212		192		162		154		152		149		146		136		131		125	
Teachers Composite	8.1	(96)	13.2	(24)	2.2	(17)	14.9	(12)	26.5	(9)	-30.1	(94)	6.3	(83)	15.7	(6)	5.6	(73)	12.4	(14)
Policy Index	9.5	(92)	10.9	(71)	0.6	(62)	11.7	(72)	19.3	(55)	-24.3	(49)	7.6	(52)	14.4	(20)	6.6	(57)	12.2	(21)
Allocation Index	9.3	(93)	10.8	(72)	0.7	(62)	11.6	(74)	22.7	(26)	-25.2	(57)	6.5	(80)	14.8	(17)	5.1	(81)	12.6	(11)



## Total Plan Allocation vs. Peer Universe

Total Plan Allocation vs. InvestorForce Public DB Gross As of March 31, 2014

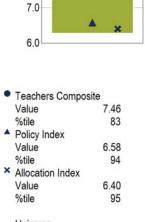


### Total Fund Risk Statistics vs. Peer Universe

#### Teachers Composite vs. IFx Public DB Gross 3 Years

# 11.0 10.0 9.0 8.0 7.0 6.0

Anizd Return



10.43

9.45

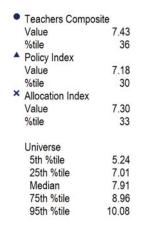
8.63

7.77

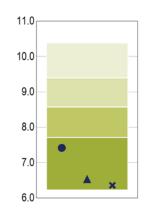
6.28

# 5.0 6.0 7.0 8.0 9.0 10.0 11.0

**Anizd Standard Deviation** 



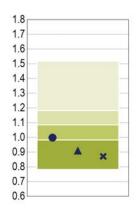
# Ann Excess RF Return

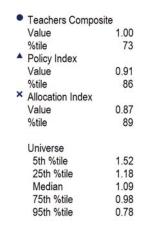


Value	7.41
%tile	83
Policy Index	
Value	6.53
%tile	94
Allocation Index	
Value	6.35
%tile	95
Universe	
5th %tile	10.38
25th %tile	9.40
Median	8.58
75th %tile	7.72
95th %tile	6.23

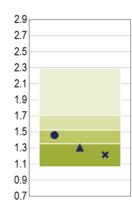
Teachers Composite

#### **Sharpe Ratio**





#### Sortino Ratio RF



Teachers Composite	
Value	1.46
%tile	61
Policy Index	
Value	1.31
%tile	80
Allocation Index	
Value	1.22
%tile	87
Universe	
5th %tile	2.29
25th %tile	1.71
Median	1.53
75th %tile	1.36
95th %tile	1.07

Value

%tile

Value

%tile

Value

%tile

Universe

5th %tile

Median

25th %tile

75th %tile

95th %tile

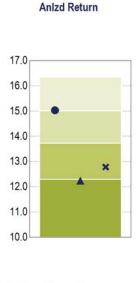
Policy Index

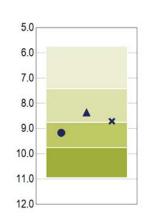
× Allocation Index

### Total Fund Risk Statistics vs. Peer Universe

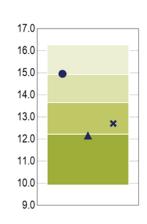
# Teachers Composite vs. IFx Public DB Gross 5 Years

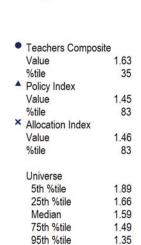
Ann Excess RF Return





**Anizd Standard Deviation** 





#### Sharpe Ratio

2.2

2.1

2.0

1.9

1.8

1.7

1.6

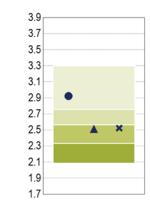
1.5

1.4

1.3

1.2

1.1



Sortino Ratio RF

osite
15.03
25
12.23
76
12.78
68
16.33
15.02
13.74
12.30
10.01

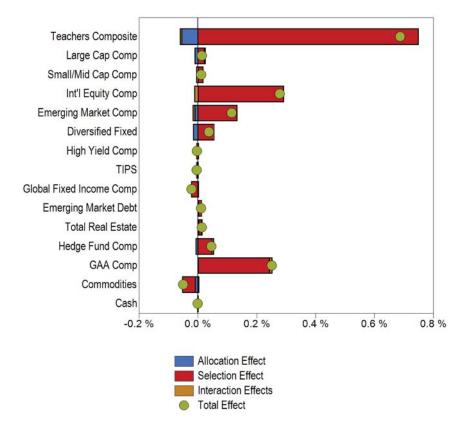
_	Teachers Compo	site
	Value	9.17
	%tile	60
•	Policy Index	
	Value	8.36
	%tile	44
×	Allocation Index	
	Value	8.71
	%tile	49
	Universe	
	5th %tile	5.74
	25th %tile	7.41
	Median	8.74
	75th %tile	9.75
	95th %tile	10.94

<ul> <li>Teachers Compo</li> </ul>	site
Value	14.95
%tile	25
Policy Index	
Value	12.16
%tile	76
Allocation Index	
Value	12.70
%tile	68
Universe	
5th %tile	16.25
25th %tile	14.94
Median	13.66
75th %tile	12.22
95th %tile	9.93

<ul> <li>Teachers Composite</li> </ul>	•
Value	2.92
%tile	16
Policy Index	
Value	2.51
%tile	55
Allocation Index	
Value	2.52
%tile	54
Universe	
5th %tile	3.30
25th %tile	2.76
Median	2.57
75th %tile	2.34
95th %tile	2.09

### Total Fund Attribution Analysis

Attribution Effects Relative to Policy Index 3 Months Ending March 31, 2014



# Attribution Summary 3 Months Ending March 31, 2014

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Large Cap Comp	2.0%	1.8%	0.2%	0.0%	0.0%	0.0%	0.0%
Small/Mid Cap Comp	1.3%	1.1%	0.2%	0.0%	0.0%	0.0%	0.0%
Int'l Equity Comp	3.6%	0.7%	2.9%	0.3%	0.0%	0.0%	0.3%
<b>Emerging Market Comp</b>	1.5%	-0.4%	2.0%	0.1%	0.0%	0.0%	0.1%
Diversified Fixed	2.1%	1.8%	0.3%	0.1%	0.0%	0.0%	0.0%
High Yield Comp	2.9%	3.0%	-0.1%	0.0%	0.0%	0.0%	0.0%
TIPS	1.9%	1.9%	0.0%	0.0%	0.0%	0.0%	0.0%
Global Fixed Income Comp	2.0%	2.7%	-0.7%	0.0%	0.0%	0.0%	0.0%
Emerging Market Debt	3.7%	3.5%	0.2%	0.0%	0.0%	0.0%	0.0%
Total Real Estate	2.9%	2.7%	0.2%	0.0%	0.0%	0.0%	0.0%
Hedge Fund Comp	1.4%	0.5%	0.9%	0.0%	0.0%	0.0%	0.0%
GAA Comp	3.0%	1.8%	1.2%	0.2%	0.0%	0.0%	0.3%
Commodities	5.9%	7.0%	-1.1%	0.0%	0.0%	0.0%	-0.1%
Cash	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	2.6%	1.9%	0.7%	0.7%	-0.1%	0.0%	0.7%

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.

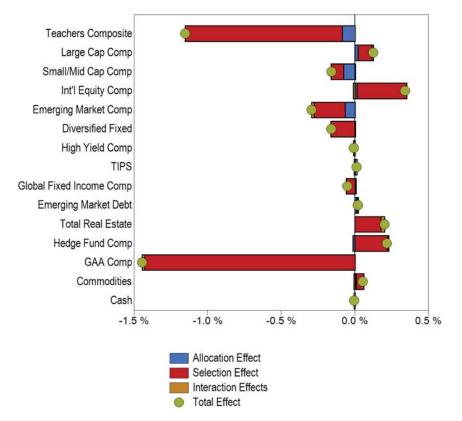
The target return shown for each composite is a custom index, based on aggregated policy indices. This policyindex asset weights the underlying policy indices of each option in the plan and the respective benchmark.

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.

### Total Fund Attribution Analysis

Attribution Effects Relative to Policy Index 1 Year Ending March 31, 2014



# Attribution Summary 1 Year Ending March 31, 2014

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Large Cap Comp	22.9%	21.9%	1.0%	0.1%	0.0%	0.0%	0.1%
Small/Mid Cap Comp	23.5%	24.9%	-1.4%	-0.1%	-0.1%	0.0%	-0.2%
Int'l Equity Comp	21.4%	17.6%	3.8%	0.3%	0.0%	0.0%	0.3%
Emerging Market Comp	-4.9%	-1.4%	-3.5%	-0.2%	-0.1%	0.0%	-0.3%
Diversified Fixed	-0.9%	-0.1%	-0.8%	-0.2%	0.0%	0.0%	-0.2%
High Yield Comp	7.5%	7.5%	-0.1%	0.0%	0.0%	0.0%	0.0%
TIPS	-6.6%	-6.5%	-0.1%	0.0%	0.0%	0.0%	0.0%
Global Fixed Income Comp	-0.4%	1.4%	-1.8%	-0.1%	0.0%	0.0%	-0.1%
Emerging Market Debt	-0.9%	-1.1%	0.2%	0.0%	0.0%	0.0%	0.0%
Total Real Estate	15.1%	11.2%	4.0%	0.2%	0.0%	0.0%	0.2%
Hedge Fund Comp	10.4%	5.9%	4.4%	0.2%	0.0%	0.0%	0.2%
GAA Comp	3.2%	10.4%	-7.1%	-1.4%	0.0%	0.0%	-1.4%
Commodities	-1.0%	-2.1%	1.1%	0.0%	0.0%	0.0%	0.1%
Cash	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	7.1%	8.2%	-1.1%	-1.1%	-0.1%	0.0%	-1.2%

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.

# Total Fund Risk Statistics

#### 3 Years Ending March 31, 2014

5 feats Ending March 51, 2014													
	% 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%	7.46%	83	7.43%	36	0.69%	21	1.00	73	1.46	61	0.86%	16
Policy Index		6.58%	94	7.18%	30	0.00%	41	0.91	86	1.31	80	0.00%	1
US Equity	15.93%	14.78%	46	13.91%	41	-0.73%	46	1.06	41	1.58	42	1.49%	3
Russell 3000		14.61%	48	13.04%	28	0.00%	39	1.12	34	1.73	30	0.00%	1
Large Cap Comp	10.23%	14.87%	45	13.20%	49	-0.60%	52	1.12	48	1.74	44	1.14%	1
S&P 500		14.66%	48	12.47%	30	0.00%	44	1.17	40	1.89	32	0.00%	1
Small/Mid Cap Comp	5.70%	14.61%	38	15.42%	33	2.61%	41	0.94	35	1.40	31	2.58%	1
Russell 2000		13.18%	61	16.78%	66	0.00%	70	0.78	67	1.18	60	0.00%	1
Int'l Equity Comp	9.48%	8.51%	59	15.56%	24	1.87%	52	0.54	50	0.74	51	2.40%	9
MSCI EAFE		7.21%	74	16.79%	61	0.00%	76	0.43	74	0.60	69	0.00%	1
Emerging Market Comp	6.15%	2.67%	17	18.02%	25	5.22%	16	0.15	19	0.21	18	5.10%	68
MSCI Emerging Markets		-2.86%	79	19.48%	65	0.00%	79	-0.15	79	-0.21	80	0.00%	1
US Fixed Income	24.91%	5.31%	36	3.47%	66	1.65%	35	1.52	56	1.94	71	2.09%	46
Barclays Aggregate		3.75%	63	2.84%	49	0.00%	87	1.30	78	1.91	73	0.00%	1
Diversified Fixed	18.11%	4.62%	47	3.41%	65	0.69%	65	1.34	75	1.90	74	1.65%	38
Barclays Aggregate		3.75%	63	2.84%	49	0.00%	87	1.30	78	1.91	73	0.00%	1
High Yield Comp	3.88%	8.90%	50	5.49%	25	1.34%	28	1.61	29	2.19	45	1.30%	48
Barclays High Yield		9.00%	46	6.48%	71	0.00%	72	1.38	72	1.93	71	0.00%	1
TIPS	2.92%	3.48%	70	5.51%	81	-0.02%	79	0.62	79	0.76	67	0.11%	1
Barclays US TIPS		3.50%	68	5.52%	82	0.00%	78	0.63	78	0.78	54	0.00%	1
Global Fixed Income Comp	2.95%	1.61%	94	5.56%	53	-0.49%	97	0.28	94	0.50	90	1.93%	10
Citi WGBI		1.91%	93	4.77%	34	0.00%	93	0.39	89	0.68	82	0.00%	1
Emerging Market Debt	5.13%	7.88%	11	7.86%	17	0.92%	14	1.00	10	1.32	13	1.22%	7
JP Morgan EMBI Global TR		7.15%	28	7.99%	21	0.00%	29	0.89	25	1.27	17	0.00%	1
Total Real Estate	5.35%	15.56%		6.75%		-0.35%		2.30		1,884.76		2.66%	
NCREIF Property Index		11.69%		4.72%		0.00%		2.47		1,414.58		0.00%	
Hedge Fund Comp	5.08%	5.98%	28	4.56%	49	3.53%	32	1.30	23	1.81	28	1.16%	1
HFRI Fund of Funds Composite Index		2.34%	71	4.22%	33	0.00%	70	0.54	65	0.81	63	0.00%	1
GAA Comp	20.62%	6.29%	39	8.95%	49	0.81%	55	0.70	52	0.95	52	3.20%	25
60% MSCI ACWI (Net)/40% CITI WGBI		6.10%	42	9.38%	58	0.00%	58	0.65	53	0.90	53	0.00%	1



# Vermont State Teachers

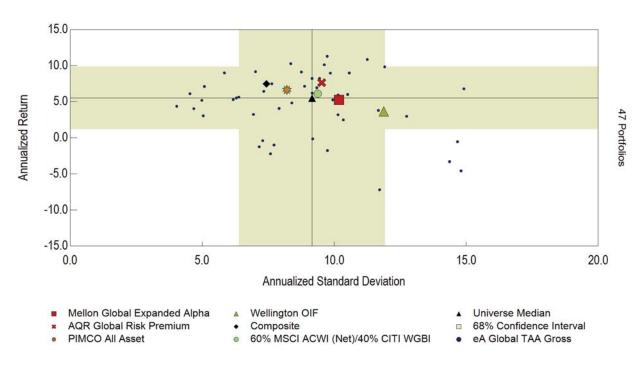
5	Years	<b>Ending</b>	March	31,	2014
---	-------	---------------	-------	-----	------

5 fears Ending warch 31, 2014													
	% 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%	15.03%	25	9.17%	60	1.74%	11	1.63	35	2.92	16	1.45%	55
Policy Index		12.23%	76	8.36%	44	0.00%	60	1.45	83	2.51	55	0.00%	1
US Equity	15.93%												
Russell 3000		21.93%	62	14.58%	30	0.00%	55	1.50	39	2.58	34	0.00%	1
Large Cap Comp	10.23%	24.03%	9	15.10%	64	1.32%	24	1.59	21	2.72	19	1.84%	2
S&P 500		21.16%	47	13.99%	33	0.00%	46	1.51	37	2.61	27	0.00%	1
Small/Mid Cap Comp	5.70%	25.67%	49	17.15%	41	3.89%	44	1.49	34	2.64	28	2.86%	1
Russell 2000		24.31%	65	19.00%	76	0.00%	93	1.28	84	2.13	81	0.00%	1
Int'l Equity Comp	9.48%	16.44%	75	17.03%	19	1.76%	65	0.96	58	1.49	62	2.43%	9
MSCI EAFE		16.02%	80	18.48%	60	0.00%	88	0.86	85	1.38	78	0.00%	1
Emerging Market Comp	6.15%												
MSCI Emerging Markets		14.48%	79	21.62%	47	0.00%	77	0.67	77	1.15	67	0.00%	1
US Fixed Income	24.91%												
Barclays Aggregate		4.80%	66	2.82%	42	0.00%	86	1.67	77	2.40	79	0.00%	1
Diversified Fixed	18.11%	8.83%	30	4.27%	70	3.05%	32	2.05	55	4.01	28	2.64%	61
Barclays Aggregate		4.80%	66	2.82%	42	0.00%	86	1.67	77	2.40	79	0.00%	1
High Yield Comp	3.88%	14.83%	77	6.13%	18	2.36%	29	2.41	25	3.86	46	3.11%	59
Barclays High Yield		18.25%	27	8.76%	83	0.00%	88	2.07	79	3.91	42	0.00%	1
TIPS	2.92%												
Barclays US TIPS		4.91%	72	5.30%	81	0.00%	86	0.91	90	1.24	72	0.00%	1
Global Fixed Income Comp	2.95%	7.21%	58	6.61%	57	3.43%	69	1.08	66	1.87	53	2.97%	24
Citi WGBI		3.84%	98	6.01%	43	0.00%	99	0.63	98	0.81	99	0.00%	1
Emerging Market Debt	5.13%												
JP Morgan EMBI Global TR		11.54%	71	7.62%	10	0.00%	55	1.50	51	2.15	43	0.00%	1
Total Real Estate	5.35%												
NCREIF Property Index		7.89%		5.93%		0.00%		1.32		2.31		0.00%	
Hedge Fund Comp	5.08%												
HFRI Fund of Funds Composite Index		4.89%	74	4.25%	30	0.00%	69	1.13	59	1.60	60	0.00%	1
GAA Comp	20.62%	14.73%	18	9.42%	53	4.57%	19	1.55	25	2.42	34	3.69%	22
60% MSCI ACWI (Net)/40% CITI WGBI		12.33%	41	10.79%	72	0.00%	75	1.14	66	1.87	61	0.00%	1
Commodities	3.91%												



## Total Global Asset Allocation/Better Beta

#### Annualized Return vs. Annualized Standard Deviation 3 Years Ending March 31, 2014



#### **Statistics Summary**

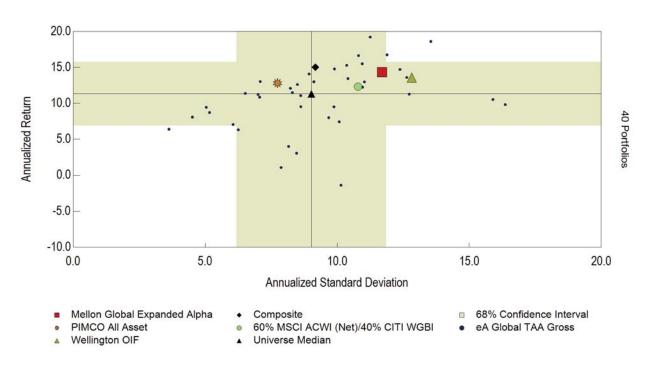
#### 3 Years Ending March 31, 2014

	Anizd Return	Anizd Standard Deviation
GAA Comp	6.29%	8.95%
Mellon Global Expanded Alpha	5.22%	10.18%
AQR Global Risk Premium	7.64%	9.53%
PIMCO All Asset	6.63%	8.21%
Wellington OIF	3.64%	11.88%
Composite	7.46%	7.43%



## Total Global Asset Allocation/Better Beta

Annualized Return vs. Annualized Standard Deviation 5 Years Ending March 31, 2014



# Statistics Summary 5 Years Ending March 31, 2014

	Anlzd Return	Anlzd Standard Deviation
GAA Comp	14.73%	9.42%
Mellon Global Expanded Alpha	14.34%	11.70%
AQR Global Risk Premium		
PIMCO All Asset	12.82%	7.74%
Wellington OIF	13.59%	12.82%
Composite	15.03%	9.17%



#### Reporting Methodology

- The client's custodian bank is NEPC's preferred data source unless otherwise directed.
   NEPC reconciles custodian data to manager data. If the custodian cannot provide accurate data, manager data may be used.
- Trailing time period returns are determined by geometrically linking the holding period returns, from the first full month after inception to the report date. Rates of Return are annualized when the time period is longer than a year. Performance is presented gross and/or net of fees as indicated on each page.
- For managers funded in the middle of a month, the "since inception" return will start with the first full month, although actual inception dates and cash flows are taken into account in all Composite calculations.
- This report may contain forward-looking statements that are based on NEPC's estimates, opinions and beliefs, but NEPC cannot guarantee that any plan will achieve its targeted return or meet other goals.



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- Past performance is no guarantee of future results.
- All investments carry some level of risk. Diversification and other asset allocation techniques are not guaranteed to ensure profit or protect against losses.
- Some index returns displayed in this report or used in calculation of a policy, allocation or custom benchmark may not be available from the source or may be preliminary and subject to change.
- NEPC's source for portfolio pricing, calculation of accruals, and transaction information is
  the plans custodial bank. Information on market indices and security characteristics is
  received from other sources external to NEPC. While NEPC has exercised reasonable
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