



Ventura County Employees' Retirement Association

Investment Performance Analysis for the period ending September 30, 2015

November 16, 2015

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Market Environment Update and Outlook



3Q 2015 Economic Environment

- Third quarter 'advanced' estimate of GDP growth remains positive, but decreased to an annual rate of +1.5% after increasing by +3.9% in the second quarter.
 - Retail sales (ended September) grew at +1.7% on a year-over-year growth rate basis. The year-over-year growth rate at this time last year was +4.0%.
 - The inventory-to-sales ratio (ended August) remained flat at 1.4, and has remained relatively flat since early 2010.
 - Corporate profits as a percent of GDP remain elevated relative to historical levels.
 - The U.S. trade deficit widened in August.
- U.S. unemployment rate continues to steadily improve, falling to 5.1% at the end of the third quarter; U-6, a broader measure of unemployment, fell to 10.0% during the quarter.
- The Case-Shiller Home Price Index (ended August) increased slightly from second quarter levels (173.7) to 175.4, and is currently higher than pre-financial crisis levels.
- Rolling 12-month seasonally adjusted CPI decreased to -0.02% during the third quarter; Capacity Utilization remained flat during the quarter, ending September at 77.5%.
- Fed Funds rate remains at 0.25%, while the 10-year Treasury Yield finished Q3 at 2.2%, down approximately 20 basis points from Q2.
- The Fed balance sheet remained flat during the Q3, while the ECB and Japanese balance sheets increased in the same period as each is in the midst of a sizeable easing program.
- S&P valuations decreased in September, but remain above 10-year and long-term averages
 - Cyclically-adjusted Shiller PE ratio (24.6x) is above the long-term average of 16.4x and above the 10-year average of 22.9x.
- The U.S. Dollar continues its strength against a basket of major currencies as the Fed ends its
 quantitative easing program and the ECB and Japan continue easing.
 - Currency volatility has seen a sustained uptick since Q1.



3Q 2015 Market Environment Overview

		Qtr.	<u>1 Yr.</u>	3 Yr.	<u>5 Yr.</u>	10 Yr.						
World Equity Benchmarks							AACCI ACIAII			+ +	+ +	\dashv
MSCI ACWI	World	-9.4%	-6.7%	7.0%	6.8%	4.6%	MSCI ACWI					
		Qtr.	<u>1 Yr.</u>	<u>3 Yr.</u>	<u>5 Yr.</u>	<u> 10 Yr.</u>	S&P 500					
Domestic Equity Benchmarks							Russell 1000					
S&P 500	Large Core	-6.4%	-0.6%	12.4%	13.3%	6.8%	Russell 1000 Growth					
Russell 1000	Large Core	-6.8%	-0.6%	12.7%	13.4%	7.0%				-		
Russell 1000 Growth	Large Growth	-5.3%	3.2%	13.6%	14.5%	8.1%	Russell 1000 Value					
Russell 1000 Value	Large Value	-8.4%	-4.4%	11.6%	12.3%	5.7%	Russell 2000			_		
Russell 2000	Small Core	-11.9%	1.2%	11.0%	11.7%	6.5%	Russell 2000 Growth					
Russell 2000 Growth	Small Growth	-13.1%	4.0%	12.8%	13.3%	7.7%	Russell 2000 Value					
Russell 2000 Value	Small Value	-10.7%	-1.6%	9.2%	10.2%	5.3%				-		
		Qtr.	<u>1 Yr.</u>	<u>3 Yr.</u>	<u>5 Yr.</u>	<u>10 Yr.</u>	MSCI ACWI Ex USA					
International Equity Benchmarks							MSCI EAFE					
MSCI ACWI Ex USA	World ex-US	-12.2%	-12.2%	2.3%	1.8%	3.0%	S&P EPAC Small Cap					
MSCI EAFE	Int'l Developed	-10.2%	-8.7%	5.6%	4.0%	3.0%	MSCI EM					
S&P EPAC Small Cap	Small Cap Int'l	-6.9%	1.0%	10.7%	7.8%	5.8%			: : :	₹.		
MSCI EM	Emerging Equity	-17.9%	-19.3%	-5.3%	-3.6%	4.3%	Barclays Aggregate		_			
		Qtr.	<u>1 Yr.</u>	<u>3 Yr.</u>	<u>5 Yr.</u>	<u>10 Yr.</u>	Barclays US High Yield					
Domestic Fixed Income Benchmarks							BofA ML US HY BB/B					
Barclays Aggregate	Core Bonds	1.2%	2.9%	1.7%	3.1%	4.6%	CSFB Levered Loans		'			
Barclays US High Yield	High Yield	-4.9%	-3.4%	3.5%	6.1%	7.3%	4			-		
BofA ML US HY BB/B	High Yield	-4.3%	-2.1%	3.7%	6.0%	6.7%	BofA ML US 3-Month T-Bill			1		
CSFB Levered Loans	Bank Loans	-1.2%	1.2%	3.8%	4.8%	4.4%	Barclays US TIPS 1-10 Yr					
BofA ML US 3-Month T-Bill	Cash	0.0%	0.0%	0.1%	0.1%	1.3%	Citigroup WGBI		_			
Barclays US TIPS 1-10 Yr	Inflation	-0.9%	-0.8%	-1.4%	1.8%	3.6%	BC Global Credit					
Global Fixed Income Benchmarks		Qtr.	<u>1 Yr.</u>	<u>3 Yr.</u>	<u>5 Yr.</u>	<u>10 Yr.</u>				-		
Citigroup WGBI	World Gov. Bonds	1.7%	-3.8%	-2.9%	-0.2%	3.4%	JPM GBI-EM Glob. Diversified		!!!			
BC Global Credit	Global Bonds	-0.2%	-2.9%	0.6%	2.6%	4.3%	JPM EMBI+					
JPM GBI-EM Glob, Diversified	Em. Mkt. Bonds (Local)	-10.5%	-19.8%	-8.7%	-3.6%	4.5%	Bloomberg Commodity Index	1 1				
JPM EMBI+	Em. Mkt. Bonds	-0.9%	-0.9%	0.2%	4.2%	6.7%	Credit Suisse Hedge Fund Index			-	Quarter	1
		Qtr.	1 Yr.	3 Yr.	5 Yr.	10 Yr.	HFRI FoF Conservative			1	■1 Yr	
Alternative Benchmarks											1 1	1
Bloomberg Commodity Index	Commodity	-14.5%	-26.0%	-16.0%	-8.9%	-5.7%	Cambridge PE Lagged*					
Credit Suisse Hedge Fund Index	Hedge Fund	-2.5%	0.1%	5.0%	4.5%	5.2%	NCREIF ODCE Net Lagged*					
HFRI FoF Conservative	Fund of Funds	-1.8%	0.6%	4.2%	2.8%	2.1%	Wilshire REIT Index					
Cambridge PE Lagged*	Private Equity	4.2%	9.3%	16.0%	15.7%	13.2%	CPI + 2%					
NCREIF ODCE Net Lagged*	Real Estate	3.6%	13.4%	12.1%	13.3%	5.9%	CP1+ 270	<u> </u>			; ;	
Wilshire REIT Index	REIT	2.2%	10.9%	9.8%	12.4%	6.7%	-3	0% -25% -20% -1	5% -10% -5%	0% 5%	10% 15%	20%
CPI + 2%	Inflation/Real Assets	0.4%	2.0%	2.9%	3.7%	3.8%						

^{*} As of 6/30/2015



3Q 2015 Market Observations

A wave of volatility spread across global markets during the quarter

- Concerns of an economic slowdown in China sparked a rapid decline in global risk assets,
 with commodities and emerging markets suffering the most
- A severe global growth downturn remains a low probability tail-risk for capital markets

U.S. economy continues to expand, albeit at a slow pace

- Overall conditions are supportive for growth, but a strong U.S. dollar creates challenges
- Benefits of low oil prices slowly compound for U.S. consumers

Fed Funds rate increase...

- Timing is less relevant; of importance is the path of Fed policy tightening relative to expectations and long-term policy (LT policy rate of 2% or 4%)
- Current Fed willingness to tighten monetary policy balanced between disruptive effects of a stronger dollar and inflation conditions of U.S. economy

Accommodative global monetary policies flow through to markets

- QE continues to support improving economic conditions in Europe and Japan
- China policy responses broadly simulative with plenty of dry powder for further easing

Cyclical weak growth is not a financial crisis for the emerging markets

- Negative returns in emerging markets reflect the economic rebalances and adjustments necessary to generate sustainable growth and economic success
- Political and economic reform initiatives drive the outlook for improved economic and earnings growth for countries willing to reform



Global Equity

- U.S. equities posted sharp losses in the third quarter as global volatility ramped up.
- Small cap stocks underperformed large cap stocks during the quarter, with the Russell 2000 Index returning -11.9% and the Russell 100 Index returning 6.8%.
- International equities underperformed U.S. markets during the quarter, returning 12.2% as measured by the MSCI ACWI ex-U.S. Index.
 - Developed markets returned -10.2% as measured by the MSCI EAFE Index. The Pacific Region led returns down, posting a -13.1% return, with Singapore posted the largest losses (-19.5%). Europe posted losses of -8.7%.
 - Emerging markets returned -17.9% as measured by the MSCI Emerging Markets Index. Indonesia and China were the largest detractors, returning -24.2% and -22.7%, respectively.

Private Equity

- New private equity commitments totaled \$74.6 billion in Q3 2015.
 - Represents a 25% decline from the \$101.5 billion raised in Q2 2015, resulting from public equity market volatility and increased economic uncertainties.
- Buyout and growth equity funds raised \$45.3 billion during the quarter.
 - Annual pace is in line with the \$180-\$190 billion that was raised in each of the past two years.
- Venture capital funds raised \$10.0 billion during the quarter.
 - Venture capital fundraising as a percent of total new private equity funs is in line with historical post-dot com levels.
- Energy funds raised \$7.8 billion, representing 10% of the capital raised in Q3 2015.
 - Investors are opportunistically approaching the energy market dislocation.
- European commitments comprised 23% of all new private equity commitments during the quarter.
 - Fifteen pan-European buyout managers closed with more than \$1 billion in commitments, accounting for over half of the total to date.
- Asian private equity commitments slowed to a total of 7% of total assets raised, down from 11% in 2014.



Fixed Income

- The U.S. Treasury yield curve flattened significantly during the quarter, with long duration yields declining 20-30 basis points.
- The spread between two- and ten-year rates decreased to 142 basis points at the end of the third quarter from 176 basis points at the end of June.
- Treasury Inflation-Protected Securities, or TIPS, returned -0.9% during the quarter, as measured by the Barclays U.S. TIPS Index.
- The Barclays Long Duration Credit Index gained +0.5%, as the long end of the curve ended the quarter 24 basis points lower.
- Long Treasuries gained +5.1% and investment grade corporate debt gained +3.8% during the quarter.
- The Barclays 1-3 Year Gov/Credit Index returned +0.3%, and U.S. high yield bonds lost -4.9%.
- Emerging markets debt continued to slow in local and external currency terms.
 - U.S. dollar-denominated debt, as measured by the JP Morgan EMBI Index, fell 90 basis points.
 - Local currency debt fell 10.5%, according to the JP Morgan GBI-EM Index.

Real Assets/Inflation-Linked Assets

- Massive energy market dislocation
 - Oil prices trending lower.
 - Private equity and private debt opportunities attractive.
 - Potential for public stressed/distressed credit, equity and commodity plays.
- OPEC and Saudi Arabia have indicated a willingness to allow lower oil prices to persist in efforts to cement market share and reduce marginal supply.
- Select infrastructure opportunities are attractive.
 - Target opportunistic strategies in niche sub-sectors to take advantage of market dislocations.
- NEPC continues to believe in the long-term demand drivers in agriculture.
 - Long-term commodity prices driven by growing emerging market demand.
 - Softness in commodity prices may provide an attractive entry point.
- Timber opportunity set limited, but warrants further review.

Commodities

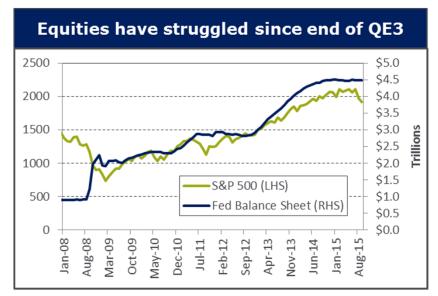
- Commodities retracted significantly, with the Bloomberg Commodity Index posting a -14.5% decline.
 - Energy led the way, losing -24% (WTI Oil), while industrial metals, precious metals and agriculture also experienced declines.

Real Estate

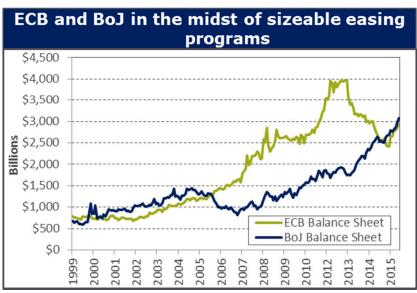
- NEPC continues to be neutral on core real estate in the U.S. and remains positive on non-core real estate, e.g. value-add and opportunistic strategies.
 - We are also neutral on real estate debt markets as competition among traditional lenders is keeping yields low.
- Within U.S. core real estate, strong fundamentals continue to be the story along with attractive income spreads relative to interest rates.
 - Real estate fundamentals and debt terms are attractive; however, valuations are high, with certain U.S. markets now trading above pre-recession peak values, and the possibility of rising interest rates and the impact on cap rates causes concern.
- U.S. REITs posted modest gains with a +2.2% return.
 - FFO multiples are high, at approximately 15x but are decreasing.
 - REITs are trading at a discount to NAV.
- Overall, the non-core real estate investment environment in the U.S. is normalizing; however, select areas remain attractive.
- Europe is viewed as the best place for a marginal dollar of non-core real estate investment.
 - Europe is emerging from multi-year recession, but recovery is slow and uneven with global markets experiencing large capital inflows.
 - Banks in EU are still overleveraged and have significant real estate exposure to jettison.



Global Risks are Diverse and Unique





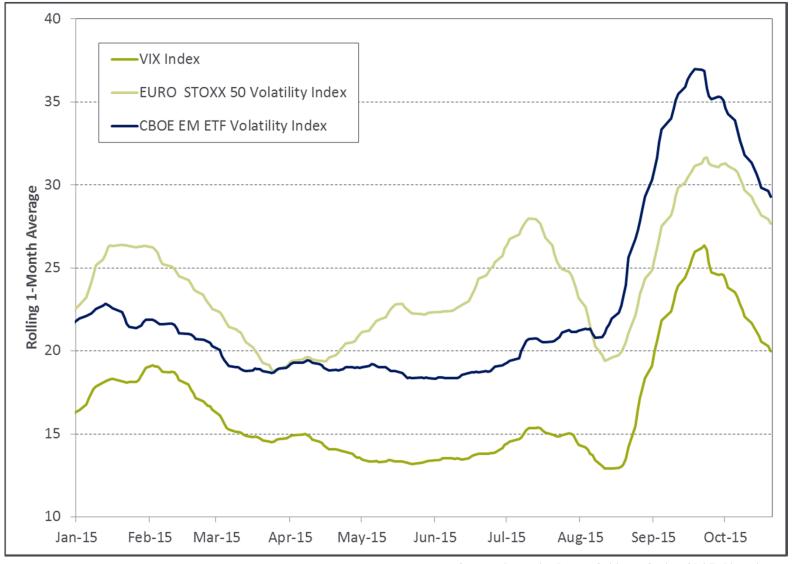




Sources: Standard & Poors, The Federal Reserve, ECB, BoJ, Bloomberg Energy, Bloomberg



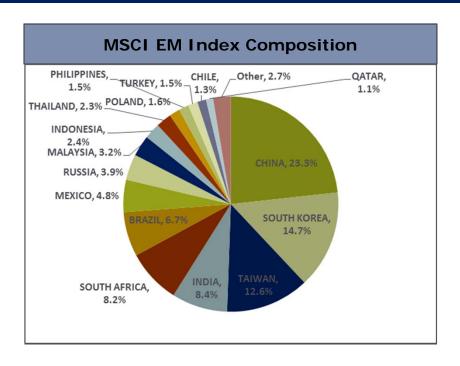
Increase in Global Volatility Finally Caught Up with Equities

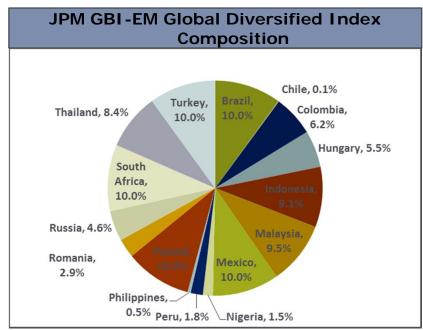






Currency Risks are Not Only Unique by Country but also Vary Across Indices





MSCI Emerging Markets Equity Index dominated by Asia

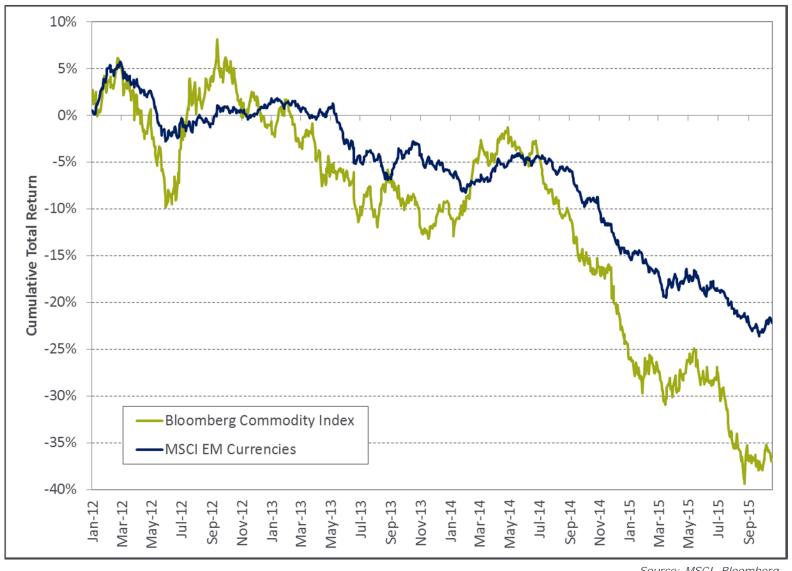
- Lots of countries with sensitivity to Chinese growth and competitiveness
- Despite possibility for further depreciation, most currencies appear cheap or reasonably valued

Debt indices more concentrated in Latin/South America with exposure to balance of payments challenged countries

- Currencies of major commodity exporters are sensitive to oil and other commodity price weakness – but also stand to benefit from a rebound
- Structural issues in Turkey and Brazil pose significant challenges, but with less contagion risk



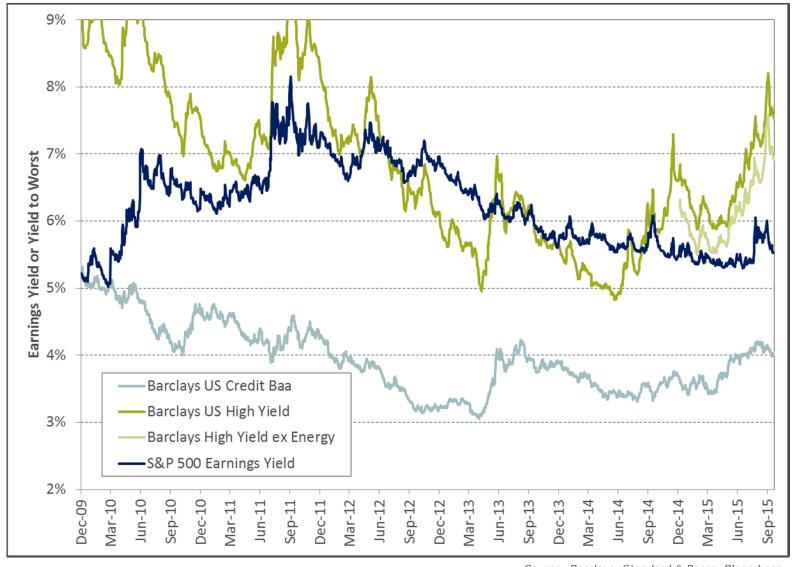
Commodity Price Weakness Has Been Challenging for EM Currencies







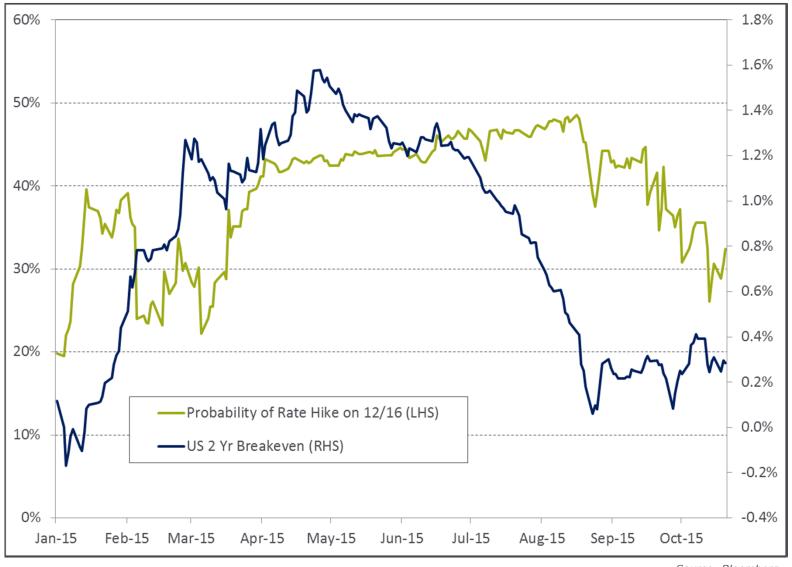
High Yield Issues Now Yielding >7% in Otherwise Low Yield World







Near Term Inflation Expectations Have Declined as a Rate Hike Has Been Pushed Further Out







3Q 2015 Market Actions

Risk-return profile of U.S. high yield is attractive relative to U.S. equities

- High yield credit spreads now exceed long-term averages with yields near 2012 levels
- Make use of dynamic credit strategies as disruptions in credit markets move rapidly
- Dollar strength is a headwind for equity earnings growth and profit margin expansion

Recommend an overweight exposure to developed market equities

- Suggest investors opportunistically exploit potential volatility to add to the overweight
- Long-term opportunity remains as earnings improve off cyclical lows in Europe/Japan
- Offers a more favorable return outlook with superior valuations relative to U.S. equities

Recommend, at minimum, market weight exposure to emerging markets equities

- Reasonable equity valuations, depressed currencies, and the attractiveness of long-term fundamentals represent a solid investment foundation
- Volatility likely to continue as falling commodity prices, trade linkages to China, and external debt levels pose idiosyncratic country risks
- Encourage the use of benchmark agnostic strategies with a bias towards small-cap and consumer focused strategies

Inflation expectations at historical lows, but value opportunities can be found in inflation-sensitive assets

- Encourage patience as volatility and opportunities evolve in commodity markets
- Private strategies are evolving, but provide compelling return opportunities



NEPC Updates

Highlights of Third Quarter Happenings at NEPC



NEPC Recognitions

Two of NEPC's Partners were named on the Chief Investment Officer magazine's (CIO) annual ranking of the world's most influential investment consultants. NEPC's Chief Investment Officer, Tim McCusker, was named the most influential general consultant on the 2015 list of Knowledge Brokers. KC Connors, Head of NEPC's Philanthropic Practice Team, ranked 10th on the 2015 Knowledge Brokers – Specialist list. The lists are CIO's annual rankings of the most influential investment consultants worldwide¹.



NEPC Client Recognitions

• Two of our clients were recognized for their work in the healthcare industry by *Institutional Investor* on October 7th. Mary O'Reilly, Director, Treasury and Investments at Rochester Health, received the II Investor Intelligence Award for Asset Allocation. Joshua Rabuck, Executive Director, Investments, at Indiana University Health, was accorded the II Investor Intelligence Award for Risk Management.

NEPC Research

Recent White Papers

- Best Practices: Managing Risk in Corporate VEBA and SERP Plans (October 2015) - Mike Valchine, CAIA, CIPM, Senior Consultant
- NEPC's 2015 Defined Contribution Plan & Fee Survey: What a Difference a Decade Makes (October 2015) – Ross Bremen, CFA, Partner
- Market Chatter Has the China Bubble Burst? (July 2015)
- Market Chatter China's Devaluation of the Yuan (August 2015)
- 2015 Third Quarter Market Thoughts

Upcoming/Recent Events

- Healthcare Defined Contribution Fee Survey Results - Tuesday, November 3, 2015, 3:00 to 4:00 p.m. (EST)
- NEPC's 2015 Defined Benefit Plan
 Trends Webinar Wednesday, October 21, 2015,
 2:00 3:00 p.m. (EST)
- NEPC, Newton Capital Management, and the Centre for Endowment Asset Management are hosting a special event that delves into the influence of British economist John Maynard Keynes on the U.S. Endowment Model on October 15, 2015 in Boston, MA.

¹CIO Magazine interviews pension and non-profit CIOs, asset managers and former consultants, to approximate what it calls "the hierarchy of today's institutional consultant industry." The results should not be considered a recommendation of any specific firm or individual consultant. For more information, please visit CIO Magazine's web site at http://www.ai-cio.com/2015-knowledge-brokers/. Past performance is no guarantee of future results



Total Fund Performance

Note: All of the data shown on the following pages is as of September 30, 2015 and reflects the deduction of investment manager fees, unless otherwise noted.

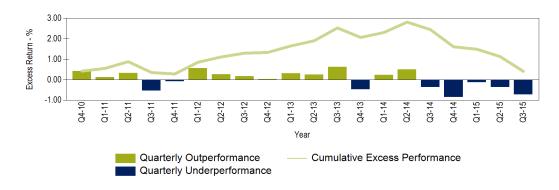


Total Fund Performance Summary (Net)

	Market Value	3 Mo	Rank	YTD	Rank	1 Yr	Rank	3 Yrs	Rank	5 Yrs	Rank	10 Yrs	Rank	Return	Since
Total Fund	\$4,208,123,068	-5.3%	49	-3.6%	71	-2.6%	72	7.2%	34	8.2%	17	5.6%	34	7.8%	Apr-94
Policy Index		-4.6%	25	-2.4%	33	-0.6%	30	7.5%	15	8.1%	19	5.8%	22	7.8%	Apr-94
Allocation Index		-5.6%	54	-3.7%	76	-2.2%	69	6.6%	49	7.5%	38	5.3%	49		Apr-94
InvestorForce Public DB > \$1B Net Median		-5.5%		-2.8%		-1.4%		6.5%		7.3%		5.3%		7.3%	Apr-94

- For the five-year period ending September 30, 2015, the Fund returned 8.2%, outperforming the policy index by 0.1% and ranking in the 17th percentile of its peers. The Fund's volatility, as measured by standard deviation, ranked in the 77th percentile of its peers, and the risk-adjusted return, or Sharpe Ratio, ranks in the 39th percentile. This means that the Fund has earned more return per unit of risk taken than 61% of its peers.
- For the three-year period ending September 30, 2015, the Fund returned 7.2%, underperforming the policy index by 0.3% and ranking in the 34th percentile of its peers. The Fund's volatility ranks in the bottom half of its peers over this period, with the Fund's Sharpe Ratio again ranking in the 39th percentile.
- For the one-year period ending September 30, 2015, the Fund returned -2.6%, trailing the policy index by 2.0% and ranking in the 72nd percentile of the InvestorForce Public Funds > \$1 Billion Universe (Net of Fees).
- For the one-year period ending September 30, 2015, the Fund produced a net investment loss of \$92 million, which includes a net investment loss of \$232 million in the quarter. Assets decreased from \$4.33 billion one year ago to \$4.21 billion on September 30, 2015.

Quarterly and Cumulative Excess Performance



3 Years Ending September 30, 2015

	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank
Total Fund	7.2%	34	6.4%	65	1.1	39	2.1	30
Policy Index	7.5%	15	6.1%	52	1.2	23	2.2	19
InvestorForce Public DB > \$1B Net Median	6.5%		6.0%		1.1		1.8	

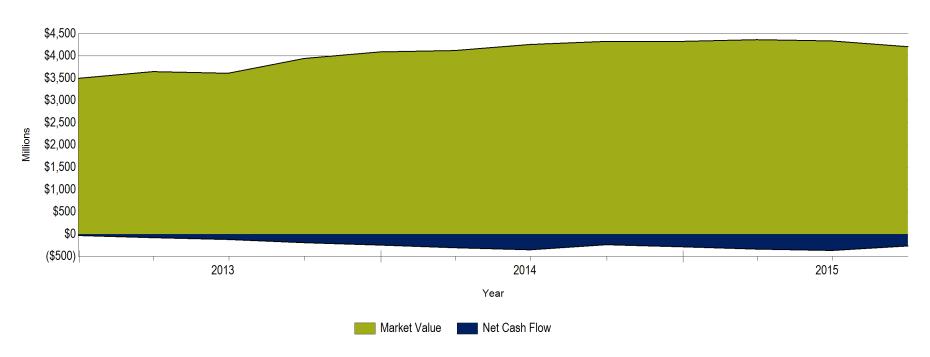
5 Years Ending September 30, 2015

	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Sharpe Ratio	Rank	Sortino Ratio RF	Rank
Total Fund	8.2%	17	8.1%	77	1.0	39	1.5	30
Policy Index	8.1%	19	8.0%	68	1.0	32	1.5	30
InvestorForce Public DB > \$1B Net Median	7.3%		7.4%		1.0		1.4	



Total Fund Asset Growth Summary

Market Value History
3 Years Ending September 30, 2015

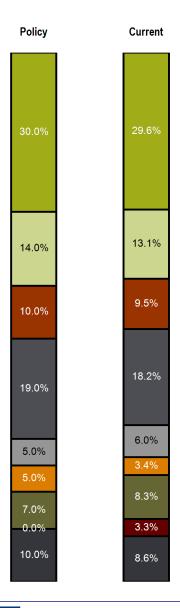


Summary of Cash Flows

Sources of Portfolio Growth	Third Quarter	One Year	Three Years
Beginning Market Value	\$4,338,136,581	\$4,328,104,648	\$3,483,762,393
Net Additions/Withdrawals	\$101,582,367	-\$27,557,883	-\$265,160,063
Investment Earnings	-\$231,595,881	-\$92,423,697	\$989,520,738
Ending Market Value	\$4,208,123,068	\$4,208,123,068	\$4,208,123,068



Total Fund Asset Allocation vs. Policy Targets



Asset Allocation vs. Target

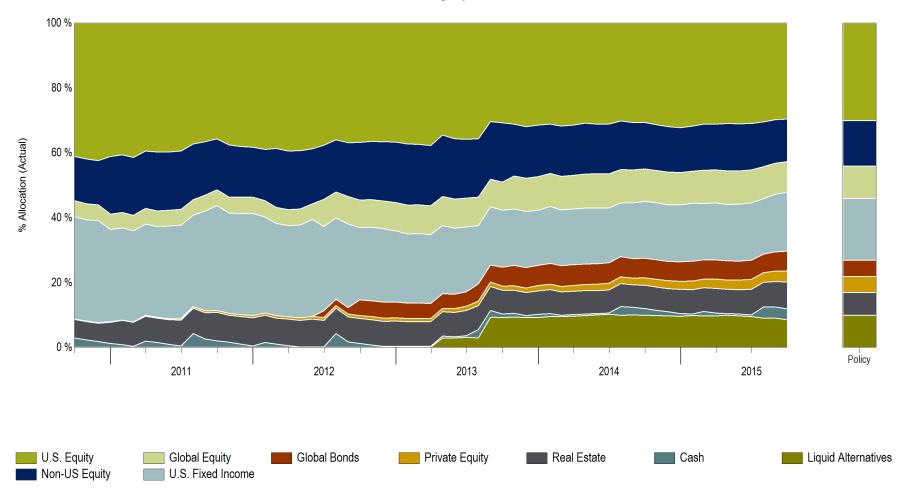
	Current	Current	Policy [Difference*	Policy Range	Within Range
U.S. Equity	\$1,245,732,873	29.6%	30.0%	-0.4%	26.0% - 34.0%	Yes
Non-US Equity	\$551,804,954	13.1%	14.0%	-0.9%	11.0% - 17.0%	Yes
Global Equity	\$397,821,094	9.5%	10.0%	-0.5%	7.0% - 13.0%	Yes
U.S. Fixed Income	\$765,965,707	18.2%	19.0%	-0.8%	15.0% - 23.0%	Yes
Global Bonds	\$254,196,806	6.0%	5.0%	1.0%	3.0% - 7.0%	Yes
Private Equity	\$144,302,186	3.4%	5.0%	-1.6%	3.0% - 7.0%	Yes
Real Estate	\$349,536,974	8.3%	7.0%	1.3%	4.0% - 10.0%	Yes
Cash	\$137,912,653	3.3%	0.0%	3.3%	0.0% - 3.0%	No
Liquid Alternatives	\$360,849,821	8.6%	10.0%	-1.4%	7.0% - 13.0%	Yes
Total	\$4,208,123,068	100.0%	100.0%			

*Difference between Policy and Current Allocation Cash represents assets in Parametric Overlay

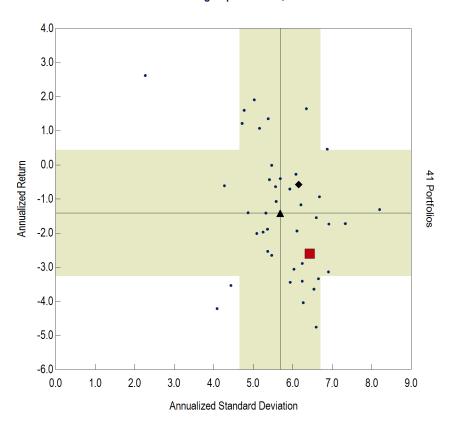


Total Fund Allocation History





1 Years Ending September 30, 2015



- Total Fund
- Policy Index
- Universe Median
- 68% Confidence Interval
- InvestorForce Public DB > \$1B Net

1 Years Ending September 30, 2015

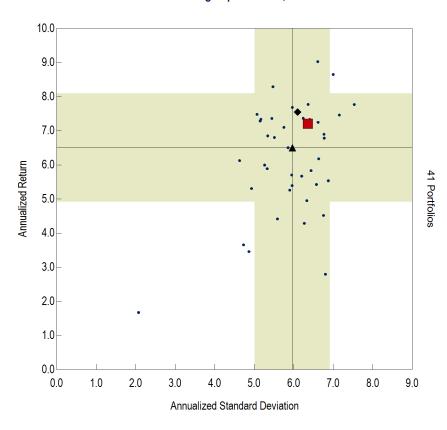
	Anlzd Ret	Rank	Anlzd Std Dev	Rank	
Total Fund	-2.6%	72	6.4%	77	
Policy Index	-0.6%	30	6.2%	64	
InvestorForce Public DB > \$1B Net Median	-1.4%		5.7%		

1 Years Ending September 30, 2015

	Sharpe Ratio	Rank	Sortino Ratio	Rank
Total Fund	-0.4	68	-0.6	72
Policy Index	-0.1	29	-0.1	30
InvestorForce Public DB > \$1B Net Median	-0.2		-0.3	



3 Years Ending September 30, 2015



3 Years			
	Anlzd Ret	Rank	Anlzd Std

	Anlzd Ret	Rank	Anlzd Std Dev	Rank
Total Fund	7.2%	34	6.4%	65
Policy Index	7.5%	15	6.1%	52
InvestorForce Public DB > \$1B Net Median	6.5%		6.0%	

3 Years Ending September 30, 2015

	Sharpe Ratio	Rank	Sortino Ratio	Rank
Total Fund	1.1	39	2.1	31
Policy Index	1.2	23	2.2	19
InvestorForce Public DB > \$1B Net Median	1.1		1.8	

Total Fund

Policy Index

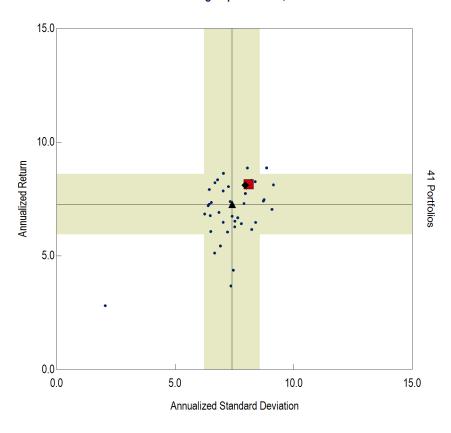
▲ Universe Median

68% Confidence Interval

• InvestorForce Public DB > \$1B Net



5 Years Ending September 30, 2015



- Total Fund
- Policy Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB > \$1B Net

5 Years Ending September 30, 2015

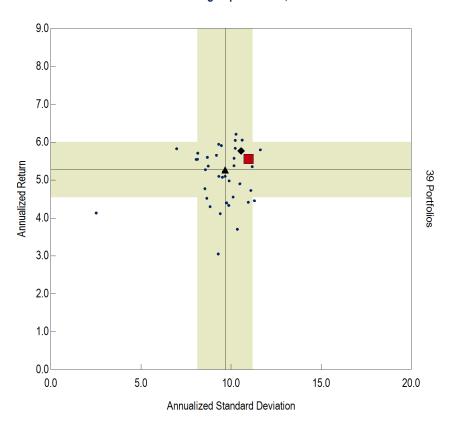
	Anlzd Ret	Rank	Anlzd Std Dev	Rank	
Total Fund	8.2%	17	8.1%	77	
Policy Index	8.1%	19	8.0%	68	
InvestorForce Public DB > \$1B Net Median	7.3%		7.4%		

5 Years Ending September 30, 2015

	Sharpe Ratio	Rank	Sortino Ratio	Rank	
Total Fund	1.0	39	1.5	30	
Policy Index	1.0	32	1.5	30	
InvestorForce Public DR > \$1B Net Median	1.0		1 4		



10 Years Ending September 30, 2015



- Total Fund
- Policy Index
- ▲ Universe Median
- 68% Confidence Interval
- InvestorForce Public DB > \$1B Net

10 Years Ending September 30, 2015

	Anlzd Ret	Rank	Anlzd Std Dev	Rank
Total Fund	5.6%	34	11.0%	90
Policy Index	5.8%	22	10.6%	81
InvestorForce Public DB > \$1B Net Median	5.3%		9.7%	

10 Years Ending September 30, 2015

	Sharpe Ratio	Rank	Sortino Ratio	Rank	
Total Fund	0.4	61	0.6	60	
Policy Index	0.4	41	0.6	40	
InvestorForce Public DR > \$1B Net Median	0.4		0.6		



Total Fund vs. InvestorForce Public DB > \$1B Net 1 Year

Anizd Return Anizd Standard Sharpe Ratio Sortino Ratio Deviation 3.0 3.3 0.9 1.0 8.0 2.0 3.8 0.7 0.6 4.3 0.5 1.0 0.4 4.8 0.3 0.2 0.0 5.3 0.1 0.0 -1.0 5.8 -0.2 -0.1 6.3 -0.4 -2.0 -0.3 -0.6 6.8 -0.5 -3.0 8.0-7.3 -0.7 -1.0 -4.0 7.8 -0.9 -1.2 -5.0 8.3 -1.4 -1.1 Total Fund Total Fund Total Fund Total Fund Value -2.6 -0.6 Value 6.4 Value Value -0.4 72 %tile %tile 72 %tile 77 %tile 68 ▲ Policy Index ▲ Policy Index ▲ Policy Index Policy Index Value -0.6 -0.1 Value Value 6.2 Value -0.1 %tile 30 %tile 30 %tile 64 %tile 29 Universe Universe Universe Universe 5th %tile 1.6 0.4 5th %tile 5th %tile 4.3 0.3 5th %tile 25th %tile -0.4 25th %tile -0.1 5.2 25th %tile 25th %tile -0.1 Median -1.4 -0.3 Median 5.7 Median Median -0.2 75th %tile -2.9 75th %tile -0.6 6.3 75th %tile 75th %tile -0.5 95th %tile -4.0 95th %tile -1.0

95th %tile

6.9

95th %tile

-0.7

Total Fund vs. InvestorForce Public DB > \$1B Net 3 Years

Anizd Return Sharpe Ratio Sortino Ratio **Anizd Standard** Deviation 9.0 1.7 3.1 3.7 1.6 2.9 4.2 8.0 1.5 2.7 4.7 2.5 1.4 7.0 5.2 1.3 2.3 1.2 2.1 5.7 1.1 6.0 1.9 6.2 1.0 1.7 6.7 5.0 0.9 1.5 7.2 0.8 1.3 4.0 0.7 1.1 7.7 0.6 0.9 8.2 3.0 0.5 0.7 Total Fund Total Fund Total Fund Total Fund Value 7.2 Value 2.1 Value 1.1 Value 6.4 34 %tile %tile 39 %tile 31 %tile 65 ▲ Policy Index ▲ Policy Index Policy Index Policy Index Value 7.5 Value 1.2 2.2 Value Value 6.1 %tile 15 %tile 23 %tile 19 52 %tile Universe Universe Universe Universe 5th %tile 8.3 5th %tile 1.4 5th %tile 2.5 5th %tile 4.7 25th %tile 7.3 25th %tile 1.2 25th %tile 2.1 25th %tile 5.3 Median 6.5 Median 1.1 Median 1.8 6.0 Median 75th %tile 5.4 75th %tile 0.9 75th %tile 1.4 75th %tile 6.6 95th %tile 3.5 95th %tile 0.7 95th %tile 1.1 7.0 95th %tile

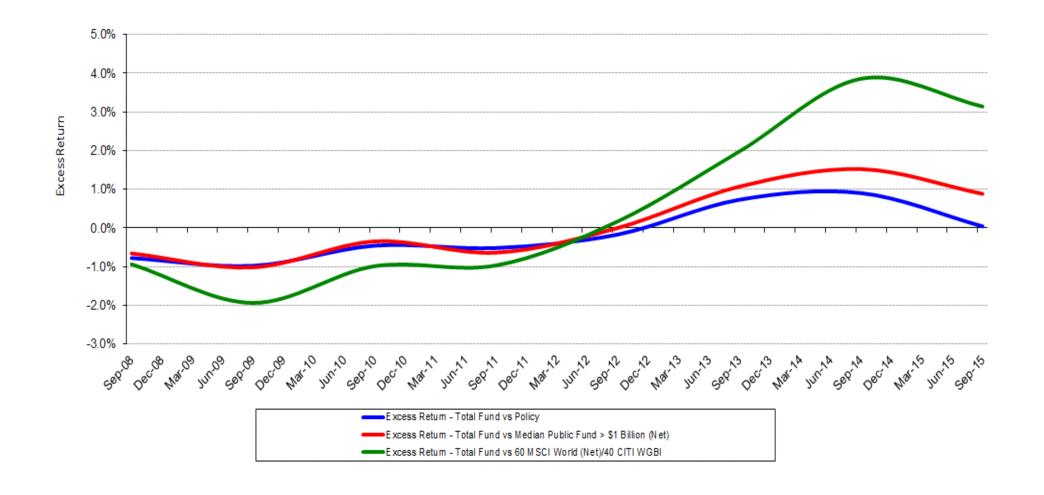
Total Fund vs. InvestorForce Public DB > \$1B Net 5 Years

Anizd Return Anizd Standard Sharpe Ratio Sortino Ratio Deviation 5.4 10.0 1.5 2.4 5.9 1.4 2.2 9.0 6.4 1.3 2.0 6.9 1.2 8.0 1.8 7.4 1.1 1.6 7.9 7.0 1.0 1.4 8.4 0.9 6.0 1.2 8.9 8.0 1.0 9.4 0.7 5.0 9.9 8.0 0.6 10.4 4.0 0.5 0.6 Total Fund Total Fund Total Fund Total Fund Value 8.1 Value 8.2 Value 1.0 Value 1.5 %tile 77 %tile 17 %tile 39 %tile 30 ▲ Policy Index ▲ Policy Index ▲ Policy Index Policy Index Value 8.0 Value 8.1 Value Value 1.5 1.0 68 %tile %tile 19 %tile 32 %tile 30 Universe Universe Universe Universe 6.4 5th %tile 8.6 5th %tile 5th %tile 1.2 5th %tile 1.8 6.8 25th %tile 25th %tile 8.0 25th %tile 1.1 25th %tile 1.6 7.4 Median Median 7.3 1.4 Median 1.0 Median 75th %tile 8.0 6.5 75th %tile 8.0 75th %tile 1.2 75th %tile 8.9 95th %tile 95th %tile 4.4 0.7 95th %tile 1.0 95th %tile

Total Fund vs. InvestorForce Public DB > \$1B Net 10 Years

Anizd Return **Anizd Standard Sharpe Ratio** Sortino Ratio Deviation 7.0 0.9 1.1 7.1 7.5 1.0 0.8 8.0 6.6 0.9 0.7 8.5 6.1 8.0 9.0 0.6 5.6 9.5 0.7 0.5 5.1 10.0 0.6 10.5 0.4 4.6 0.5 11.0 4.1 0.3 0.4 11.5 3.6 12.0 0.2 0.3 3.1 12.5 0.1 0.2 Total Fund Total Fund Total Fund Total Fund Value 5.6 Value 0.4 Value 0.6 Value 11.0 %tile 34 %tile 60 %tile 90 %tile 61 Policy Index ▲ Policy Index Policy Index Policy Index Value 5.8 Value 0.6 10.6 Value 0.4 Value %tile 22 %tile 40 81 %tile 41 %tile Universe Universe Universe Universe 5th %tile 6.0 5th %tile 0.6 5th %tile 8.0 8.0 5th %tile 25th %tile 5.7 25th %tile 0.5 25th %tile 0.7 25th %tile 8.8 Median 5.3 Median 0.6 Median 9.7 Median 0.4 75th %tile 4.5 0.4 75th %tile 0.6 75th %tile 10.3 75th %tile 95th %tile 95th %tile 0.4 95th %tile 0.3 95th %tile

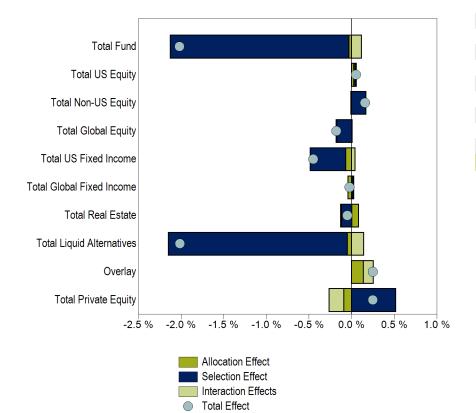
Rolling 5 Year Excess Returns- Net of Fees





Total Fund Attribution Analysis

Attribution Effects
1 Year Ending September 30, 2015



Attribution Summary 1 Year Ending September 30, 2015

	Wtd. Actual Return	Wtd. Index Return	Excess Return	Selection Effect	Allocation Effect	Interaction Effects	Total Effects
Total US Equity	-0.5%	-0.5%	0.1%	0.0%	0.0%	0.0%	0.0%
Total Non-US Equity	-11.0%	-12.2%	1.2%	0.2%	0.0%	0.0%	0.2%
Total Global Equity	-8.4%	-6.7%	-1.7%	-0.2%	0.0%	0.0%	-0.2%
Total US Fixed Income	0.7%	2.9%	-2.2%	-0.4%	-0.1%	0.0%	-0.5%
Total Global Fixed Income	-3.0%	-3.3%	0.3%	0.0%	0.0%	0.0%	0.0%
Total Real Estate	13.0%	14.9%	-1.9%	-0.1%	0.1%	0.0%	-0.1%
Total Liquid Alternatives	-16.3%	4.0%	-20.3%	-2.1%	-0.1%	0.1%	-2.0%
Overlay	9.2%	0.0%	9.2%	0.0%	0.1%	0.1%	0.2%
Total Private Equity	13.8%	2.4%	11.4%	0.5%	-0.1%	-0.2%	0.2%
Total	-2.6%	-0.6%	-2.0%	-2.1%	0.0%	0.1%	-2.0%

Total Fund Risk Statistics

1 Year Endi	ng September	30, 2015
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					i fear E	naing Septe	ember 30, 2	2010						
	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Sharpe Ratio	Rank	Tracking Error	Rank	Info Ratio	Rank	Anlzd AJ	Rank	Beta
Total Fund	100.0%	-2.6%	72	6.4%	77	-0.4	68	0.8%	15	-2.4		-2.0%	86	1.0
Policy Index		-0.6%	30	6.2%	64	-0.1	29	0.0%	1			0.0%	43	1.0
Total Equity	52.2%	-4.7%	58	10.7%	41	-0.4	58	1.4%	1	1.4	22	1.6%	56	0.9
MSCI ACWI	-	-6.7%	71	11.2%	55	-0.6	69	0.0%	1			0.0%	68	1.0
Total US Equity	29.6%	-0.5%	55	10.9%	34	0.0	55	0.1%	1	1.5	7	0.1%	55	1.0
Total U.S. Equity Benchmark	-	-0.5%	55	10.9%	35	-0.1	56	0.0%	1			0.0%	55	1.0
Total Non-US Equity	13.1%	-11.0%	93	11.9%	54	-0.9	94	1.2%	1	1.0	75	0.3%	95	0.9
Total Non-US Equity Benchmark		-12.2%	95	12.8%	84	-1.0	96	0.0%	1			0.0%	95	1.0
Total Global Equity	9.5%	-8.4%	77	11.6%	67	-0.7	76	1.5%	1	-1.2		-1.5%	77	1.0
MSCI ACWI	-	-6.7%	71	11.2%	55	-0.6	69	0.0%	1			0.0%	68	1.0
Total Fixed Income	24.2%	-0.2%	68	1.5%	5	-0.1	70	2.3%	85	1.3	7	0.7%	7	0.3
Barclays Global Aggregate	-	-3.3%	95	2.6%	62	-1.3	96	0.0%	1			0.0%	45	1.0
Total US Fixed Income	18.2%	0.7%	70	1.6%	27	0.5	67	2.5%	57	-0.9		-0.1%	56	0.3
Barclays Aggregate		2.9%	14	3.1%	67	1.0	48	0.0%	1			0.0%	52	1.0
Total Global Fixed Income	6.0%	-3.0%	47	2.1%	7	-1.4	80	1.4%	11	0.2	43	-0.8%	41	0.7
Barclays Global Aggregate		-3.3%	52	2.6%	22	-1.3	72	0.0%	1			0.0%	32	1.0
T.110 15.11	0.00/	10.00/		5.00/	00	0.4	40							
Total Real Estate	8.3%	13.0%	44	5.3%	66	2.4	49							
Total Real Estate Benchmark		14.9%	24	6.1%	73	2.5	48							
Total Liquid Alternatives	8.6%	-16.3%		9.7%		-1.7								
CPI + 4% (Unadjusted)		4.0%		1.4%		2.7								



Total Fund Risk Statistics

3 Years Ending September 30, 2015

					3 Years E	inding Sept	ember 30,	2015						
	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Sharpe Ratio	Rank	Tracking Error	Rank	Info Ratio	Rank	Anlzd AJ	Rank	Beta
Total Fund	100.0%	7.2%	34	6.4%	65	1.1	39	0.8%	16	-0.4		-0.6%	65	1.0
Policy Index		7.5%	15	6.1%	52	1.2	23	0.0%	1			0.0%	47	1.0
Total Equity	52.2%	8.7%	46	9.7%	19	0.9	39	1.4%	2	1.2	12	2.0%	50	1.0
MSCI ACWI		7.0%	69	10.0%	33	0.7	65	0.0%	1			0.0%	72	1.0
Total US Equity	29.6%	12.7%	44	10.0%	18	1.3	24	0.3%	1	0.8	7	0.2%	38	1.0
Total U.S. Equity Benchmark		12.4%	47	9.9%	17	1.2	26	0.0%	1			0.0%	42	1.0
Total Non-US Equity	13.1%	2.8%	96	10.9%	21	0.3	96	1.2%	1	0.4	88	0.6%	96	0.9
Total Non-US Equity Benchmark		2.3%	97	11.6%	69	0.2	97	0.0%	1			0.0%	97	1.0
Total Global Equity	9.5%	5.7%	78	10.3%	42	0.6	78	1.2%	1	-1.0		-1.3%	81	1.0
MSCI ACWI		7.0%	69	10.0%	33	0.7	65	0.0%	1			0.0%	72	1.0
Total Fixed Income	24.2%	1.0%	78	2.3%	22	0.4	72	2.5%	89	1.1	9	1.8%	9	0.5
Barclays Global Aggregate		-1.6%	99	3.8%	88	-0.4	99	0.0%	1			0.0%	66	1.0
Total US Fixed Income	18.2%	1.5%	63	2.1%	35	0.7	55	1.8%	43	-0.1		0.5%	43	0.6
Barclays Aggregate		1.7%	55	2.9%	56	0.6	67	0.0%	1			0.0%	74	1.0
Total Global Fixed Income	6.0%	-1.1%	75	3.7%	26	-0.3	78	1.2%	11	0.4	63	0.3%	72	0.9
Barclays Global Aggregate		-1.6%	80	3.8%	29	-0.4	83	0.0%	1			0.0%	79	1.0
Total Real Estate	8.3%	11.2%	61	4.6%	53	2.4	47							
Total Real Estate Benchmark		13.4%	16	5.4%	73	2.5	45							
Total Liquid Alternatives	8.6%													
CPI + 4% (Unadjusted)		5.0%		1.2%		4.2								



Total Fund Risk Statistics

5 Years Ending September	· 30	, 2015
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	% of Tot	Anlzd Ret	Rank	Anlzd Std Dev	Rank	Sharpe Ratio	Rank	Tracking Error	Rank	Info Ratio	Rank	Anlzd AJ	Rank	Beta
Total Fund	100.0%	8.2%	17	8.1%	77	1.0	39	0.8%	10	0.1	52	-0.1%	45	1.0
Policy Index		8.1%	19	8.0%	68	1.0	32	0.0%	1			0.0%	38	1.0
Total Equity	52.2%													
MSCI ACWI		6.8%	73	13.1%	43	0.5	69	0.0%	1			0.0%	72	1.0
Total US Equity	29.6%	13.5%	33	12.0%	22	1.1	19	0.3%	1	0.8	2	0.1%	30	1.0
Total U.S. Equity Benchmark		13.3%	37	12.0%	21	1.1	20	0.0%	1			0.0%	32	1.0
Total Non-US Equity	13.1%	2.6%	91	14.3%	22	0.2	91	1.4%	1	0.6	75	0.9%	91	0.9
Total Non-US Equity Benchmark		1.8%	94	15.1%	63	0.1	94	0.0%	1			0.0%	94	1.0
Total Global Equity	9.5%	6.4%	76	12.1%	20	0.5	68	2.2%	7	-0.2		0.1%	71	0.9
MSCI ACWI		6.8%	73	13.1%	43	0.5	69	0.0%	1			0.0%	72	1.0
Total Fixed Income	24.2%	3.6%	41	2.6%	22	1.4	18	3.0%	90	0.9	13	3.3%	6	0.4
Barclays Global Aggregate		0.8%	99	4.4%	95	0.2	99	0.0%	1			0.0%	93	1.0
Total US Fixed Income	18.2%	4.0%	42	2.5%	39	1.5	20	2.0%	42	0.4	39	1.9%	24	0.7
Barclays Aggregate		3.1%	57	2.8%	49	1.1	62	0.0%	1			0.0%	80	1.0
Total Global Fixed Income	6.0%													
Barclays Global Aggregate		0.8%	83	4.4%	28	0.2	78	0.0%	1			0.0%	80	1.0

Total Real Estate	8.3%	12.0%	67	5.0%	31	2.4	28
Total Real Estate Benchmark		14.0%	11	5.7%	48	2.5	25
Total Liquid Alternatives	8.6%						
CPI + 4% (Unadjusted)		5.8%	-	1.2%	-	4.8	



Ventura County Employees' Retirement Association

Total Fund Performance Detail (Net)

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Return (%)	Since
Total Fund	4,208,123,068	100.0	100.0	-5.3	49	-3.6	71	-2.6	72	7.2	34	8.2	17	5.6	34	7.8	Apr-94
Policy Index				<u>-4.6</u>	25	<u>-2.4</u>	33	<u>-0.6</u>	30	<u>7.5</u>	15	<u>8.1</u>	19	<u>5.8</u>	22	<u>7.8</u>	Apr-94
Over/Under				-0.7		-1.2		-2.0		-0.3		0.1		-0.2		0.0	
Allocation Index				-5.6	54	-3.7	76	-2.2	69	6.6	49	7.5	38	5.3	49		Apr-94
InvestorForce Public DB > \$1B Net Median		_		-5.5	_	-2.8		-1.4		6.5		7.3		5.3		7.3	Apr-94
Total Fund ex Parametric	4,059,742,319	96.5		-5.4		-3.6		-2.7	-	7.1	-	8.1		5.5		7.8	Apr-94
Total Fund ex Private Equity	4,063,820,882	96.6		-5.7	69	-4.0	91	-3.1	79	6.3	52			-		8.1	Jan-12
Policy Index				<u>-4.6</u>	25	<u>-2.4</u>	33	<u>-0.6</u>	30	<u>7.5</u>	15	<u>8.1</u>	19	<u>5.8</u>	22	<u>9.0</u>	Jan-12
Over/Under				-1.1		-1.6		-2.5		-1.2						-0.9	
InvestorForce Public DB > \$1B Net Median				-5.5		-2.8		-1.4		6.5		7.3		5.3		8.1	Jan-12
Total US Equity	1,245,732,873	29.6	30.0	-7.3	35	-5.4	50	-0.5	55	12.7	44	13.5	33	6.6	66	8.5	Dec-93
Total U.S. Equity Benchmark				<u>-7.3</u>	35	<u>-5.5</u>	51	<u>-0.5</u>	55	<u>12.4</u>	47	<u>13.3</u>	37	<u>7.0</u>	54	<u>8.9</u>	Dec-93
Over/Under				0.0		0.1		0.0		0.3		0.2		-0.4		-0.4	
eA All US Equity Net Median				-8.4		-5.5		0.0		12.3		12.6		7.1		9.9	Dec-93
BlackRock Equity Market Fund	1,070,309,612	25.4		-7.2	34	-5.4	49	-0.4	54	12.5	46	13.3	36			6.1	Dec-07
Dow Jones U.S. Total Stock Market				<u>-7.3</u>	35	<u>-5.5</u>	51	<u>-0.5</u>	56	<u>12.4</u>	47	<u>13.3</u>	37	<u>7.1</u>	52	<u>6.1</u>	Dec-07
Over/Under				0.1		0.1		0.1		0.1		0.0				0.0	
eA All US Equity Net Median				-8.4		-5.5		0.0		12.3		12.6		7.1		6.3	Dec-07
Western U.S. Index Plus	131,690,258	3.1		-6.7	28	-5.5	51	-1.0	60	12.8	42	14.3	21			2.5	May-07
S&P 500				<u>-6.4</u>	24	<u>-5.3</u>	48	<u>-0.6</u>	56	<u>12.4</u>	48	<u>13.3</u>	35	<u>6.8</u>	60	<u>5.0</u>	<i>May-07</i>
Over/Under				-0.3		-0.2		-0.4		0.4		1.0				-2.5	
eA All US Equity Net Median				-8.4		-5.5		0.0		12.3		12.6		7.1		5.4	May-07
BlackRock Extended Equity Index	43,733,003	1.0		-10.5	56	-6.2	62	-0.2	55	12.8	36	13.0	35	7.9	46	11.3	Oct-02
Dow Jones U.S. Completion Total Stock Market				<u>-10.6</u>	56	<u>-6.3</u>	63	<u>-0.2</u>	55	<u>12.7</u>	38	<u>12.8</u>	38	<u>7.8</u>	47	<u>11.2</u>	Oct-02
Over/Under				0.1		0.1		0.0		0.1		0.2		0.1		0.1	
eA US Small-Mid Cap Equity Net Median				-10.1		-5.2		0.3		12.2		12.3		7.6		10.8	Oct-02

Color Coding: PERFORMANCE: Green-Over performance, Red-Under performance / Color Coding: RANKS: 1 - 25 Green - Positive Result, 26 - 50 Yellow, 50 - 75 Orange, 76 - 100 Red - Negative Result

Policy Index: Currently, 30% Total U.S. Equity Benchmark, 19% Barclays Aggregate, 14% MSCI ACWI ex U.S., 10% MSCI ACWI, 5% Barclays Global Aggregate, 5% DJ U.S. Total Stock Market Index + 3%, 10% CPI+ 4% Index, and 7% NCREIF ODCE Real Estate Index

Total U.S. Equity Benchmark: The Benchmark is a dynamic hybrid using the respective managers' market value weights within the U.S. Equity component toward their benchmark. Prior to May 2013, the Dow Jones U.S. Total Stock Market Index. Prior to May 2007, the Russell 3000 Index



Total Fund Performance Detail (Net)

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Return (%)	Since
Total Non-US Equity	551,804,954	13.1	14.0	-11.1	83	-8.0	92	-11.0	93	2.8	96	2.6	91	3.2	67	5.9	Mar-94
Total Non-US Equity Benchmark				<u>-12.2</u>	90	<u>-8.6</u>	95	<u>-12.2</u>	95	2.3	97	<u>1.8</u>	94	<u>3.0</u>	75	<u>4.6</u>	Mar-94
Over/Under				1.1		0.6		1.2		0.5		8.0		0.2		1.3	
eA All EAFE Equity Net Median				-9.0		-2.9		-5.7		6.4		5.4		3.8		6.1	Mar-94
BlackRock ACWI ex-U.S. Index	230,128,039	5.5		-11.9	75	-7.7	80	-11.3	83	2.9	79	2.3	84			0.3	Mar-07
MSCI ACWI ex USA				<u>-12.2</u>	82	<u>-8.6</u>	83	<u>-12.2</u>	87	<u>2.3</u>	81	<u>1.8</u>	87	<u>3.0</u>	74	<u>-0.2</u>	Mar-07
Over/Under				0.3		0.9		0.9		0.6		0.5				0.5	
eA ACWI ex-US All Cap Equity Net Median				-10.6		-5.1		-6.6		5.4		4.7		3.9		1.4	Mar-07
Sprucegrove	161,094,129	3.8		-12.2	90	-10.9	99	-13.4	99	2.2	98	2.9	84	3.5	53	6.6	Mar-02
MSCI EAFE				<u>-10.2</u>	72	<u>-5.3</u>	80	<u>-8.7</u>	80	<u>5.6</u>	65	<u>4.0</u>	76	<u>3.0</u>	68	<u>5.4</u>	Mar-02
Over/Under				-2.0		-5.6		-4.7		-3.4		-1.1		0.5		1.2	
MSCI ACWI ex USA				-12.2	90	-8.6	91	-12.2	97	2.3	98	1.8	93	3.0	66	5.8	Mar-02
eA EAFE All Cap Equity Net Median				-9.1		-2.9		-5.7		6.3		5.2		3.5		6.6	Mar-02
Hexavest	74,816,577	1.8		-7.1	12	-3.7	62	-7.6	70	4.2	85					2.8	Dec-10
MSCI EAFE				<u>-10.2</u>	72	<u>-5.3</u>	80	<u>-8.7</u>	80	<u>5.6</u>	65	<u>4.0</u>	76	<u>3.0</u>	68	<u>2.8</u>	Dec-10
Over/Under				3.1		1.6		1.1		-1.4						0.0	
eA EAFE All Cap Equity Net Median				-9.1		-2.9		-5.7		6.3		5.2		3.5		4.0	Dec-10
Walter Scott	85,766,209	2.0		-10.2	48	-6.6	70	-8.5	73	1.8	88					2.0	Dec-10
MSCI ACWI ex USA				<u>-12.2</u>	82	<u>-8.6</u>	83	<u>-12.2</u>	87	<u>2.3</u>	81	<u>1.8</u>	87	<u>3.0</u>	74	<u>0.4</u>	Dec-10
Over/Under				2.0		2.0		3.7		-0.5						1.6	
eA ACWI ex-US All Cap Equity Net Median				-10.6		-5.1		-6.6		5.4		4.7		3.9		2.9	Dec-10

Total Non-U.S. Equity Benchmark: MSCI ACWI ex US Free, prior to May 2002, the MSCI EAFE



Total Fund Performance Detail (Net)

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Return (%)	Since
Total Global Equity	397,821,094	9.5	10.0	-10.2	69	-7.6	73	-8.4	77	5.7	78	6.4	76	3.5	81	4.3	May-05
MSCI ACWI				<u>-9.4</u>	62	<u>-7.0</u>	71	<u>-6.7</u>	71	<u>7.0</u>	69	<u>6.8</u>	73	<u>4.6</u>	67	<u>5.4</u>	May-05
Over/Under				-0.8		-0.6		-1.7		-1.3		-0.4		-1.1		-1.1	
eA All Global Equity Net Median				-8.5		-5.1		-4.1		8.4		8.5		5.4		6.5	May-05
BlackRock MSCI ACWI Equity Index	207,477,250	4.9		-9.4	61	-6.7	68	-6.3	68	7.3	67					9.0	Jul-12
MSCI ACWI				<u>-9.4</u>	62	<u>-7.0</u>	71	<u>-6.7</u>	71	<u>7.0</u>	69	<u>6.8</u>	73	<u>4.6</u>	67	<u>8.6</u>	Jul-12
Over/Under				0.0		0.3		0.4		0.3						0.4	
eA All Global Equity Net Median				-8.5		-5.1		-4.1		8.4		8.5		5.4		9.8	Jul-12
GMO Global Equity	190,343,844	4.5		-11.1	79	-8.4	79	-10.5	84	4.1	86	5.8	79	4.4	72	5.3	Apr-05
MSCI ACWI				<u>-9.4</u>	62	<u>-7.0</u>	71	<u>-6.7</u>	71	<u>7.0</u>	69	<u>6.8</u>	73	<u>4.6</u>	67	<u>5.4</u>	Apr-05
Over/Under				-1.7		-1.4		-3.8		-2.9		-1.0		-0.2		-0.1	
eA All Global Equity Net Median				-8.5		-5.1		-4.1		8.4		8.5		5.4		6.5	Apr-05



Total Fund Performance Detail (Net)

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%) F	Rank	Return (%)	Since
Total Private Equity	144,302,186	3.4	5.0	6.1	3	12.1	13	13.8	23	17.4	6		-	-		15.8	Jan-12
DJ U.S. Total Stock Market Index + 3%				<u>-6.6</u>	99	<u>-3.4</u>	97	<u>2.4</u>	91	<u>15.8</u>	21	<u>16.6</u>	1			<u>17.7</u>	Jan-12
Over/Under				12.7		15.5		11.4		1.6						-1.9	
InvestorForce Public DB Private Eq Net Median			_	0.0		6.9		10.1		13.0		12.1		9.5		12.2	Jan-12
Adams Street Partners	87,461,015	2.1		2.9		7.4		10.3		15.2						14.2	Jan-12
DJ U.S. Total Stock Market Index + 3%				<u>-6.6</u>		<u>-3.4</u>		<u>2.4</u>		<u>15.8</u>		<u>16.6</u>				<u>17.7</u>	Jan-12
Over/Under				9.5		10.8		7.9		-0.6						-3.5	
Harbourvest	43,198,185	1.0		10.7		25.1		24.8								23.8	Jul-13
DJ U.S. Total Stock Market Index + 3%				<u>-6.6</u>		<u>-3.4</u>		<u>2.4</u>		<u>15.8</u>		<u>16.6</u>				<u>13.4</u>	Jul-13
Over/Under				17.3		28.5		22.4								10.4	
Pantheon Global Secondary Fund IV	13,642,986	0.3		13.1		7.9		5.3		14.8						10.6	Jan-12
DJ U.S. Total Stock Market Index + 3%				<u>-6.6</u>		<u>-3.4</u>		<u>2.4</u>		<u>15.8</u>		<u>16.6</u>				<u>17.7</u>	Jan-12
Over/Under				19.7		11.3		2.9		-1.0						-7.1	

Private Equity performance is shown on a time-weighted return basis. Values are cash adjusted with current quarter cash flows.



Private Equity Limited Partnership Performance

											_		Since Inception	l .
Fund Name	Vintage Year	Initial Investment Date	Commitment	Capital Called to Date ¹	Outstanding Commitment ¹	Call Ratio	Interest Paid/(Rec'd)	Distributions to Date	Valuation	Total Value	Net Benefit	IRR		Total Value to Paid In Multiple (TVPI)
Adams Street 2010 U.S. Fund	2010	5/21/2010	\$42,500,000	\$26,690,000	\$15,810,000	63%	\$15,213	\$8,147,483	\$30,489,272	\$38,636,755	\$11,931,542	15.7%	0.31x	1.45x
Adams Street 2010 Non-U.S. Dev. Mkts Fund	2010	5/21/2010	\$25,500,000	\$16,434,750	\$9,065,250	64%	\$1,589	\$4,669,887	\$14,278,525	\$18,948,412	\$2,512,073	6.9%	0.28x	1.15x
Adams Street 2010 Non-U.S. Emg Mkts Fund	2010	1/3/2011	\$8,500,000	\$5,729,000	\$2,771,000	67%	\$0	\$314,436	\$6,799,942	\$7,114,378	\$1,385,378	11.2%	0.05x	1.24x
Adams Street 2010 Direct Fund	2010	5/21/2010	\$8,500,000	\$7,837,000	\$663,000	92%	\$6,697	\$3,071,561	\$8,404,458	\$11,476,019	\$3,632,322	13.5%	0.39x	1.46x
Total Adams Street 2010	2010	5/21/2010	\$85,000,000	\$56,690,750	\$28,309,250	67%	\$23,499	\$16,203,367	\$59,972,197	\$76, 175, 564	\$19,461,315	12.9%	0.29x	1.34x
Adams Street 2013 Global Fund	2013	6/27/2013	\$75,000,000	\$27,337,500	\$47,662,500	36%	\$10,728	\$222,166	\$27,488,824	\$27,710,990	\$362,762	1.3%	0.01x	1.01x
HarbourVest - Dover Street VIII	2013	5/30/2013	\$67,500,000	\$40,500,000	\$27,000,000	60%	\$84,954	\$13,605,665	\$43,380,457	\$56,986,122	\$16,401,168	38.0%	0.34x	1.4x
Pantheon Global Secondary Fund IV	2010	8/20/2010	\$15,000,000	\$9,960,000	\$5,040,000	66%	\$0	\$7,830,001	\$6,920,072	\$14,750,073	\$4,790,073	17.1%	0.79x	1.48x
Pantheon Global Secondary Fund V	2015	2/26/2015	\$50,000,000	\$6,201,371	\$43,798,629	12%	\$29,922	\$75,205	\$6,726,156	\$6,801,361	\$570,069	8.2%	0.01x	1.09x
Total VCERA Private Equity Program	_	5/21/2010	\$292,500,000	\$140,689,621	\$151,810,379	48%	\$149,103	\$37,936,404	\$144,487,706	\$182,424,110	\$41,585,387	16.0%	0.27x	1.3x

^{1.} Includes recycled/recallable distributions received to date.

Distributions to Date shown for Pantheon Global Secondary Fund V includes management fee rebates paid to VCERA.

Performance shown is based on cash-adjusted market values as of 9/30/2015.



Note: Private equity performance data is reported net of fees.

Total Fund Performance Detail (Net)

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Return (%)	Since
Total US Fixed Income	765,965,707	18.2	19.0	0.0	71	0.7	55	0.7	70	1.5	63	4.0	42	5.7	25	6.1	Feb-94
Barclays Aggregate				<u>1.2</u>	18	<u>1.1</u>	35	<u>2.9</u>	14	<u>1.7</u>	55	<u>3.1</u>	57	<u>4.6</u>	50	<u>5.7</u>	Feb-94
Over/Under				-1.2		-0.4		-2.2		-0.2		0.9		1.1		0.4	
eA All US Fixed Inc Net Median				0.5		0.8		1.6		1.8		3.4		4.6		5.5	Feb-94
BlackRock U.S. Debt Fund	140,941,338	3.3		1.3	17	1.2	33	3.0	13	1.8	51	3.2	55	4.7	47	5.5	Nov-95
Barclays Aggregate				<u>1.2</u>	18	<u>1.1</u>	35	<u>2.9</u>	14	<u>1.7</u>	55	<u>3.1</u>	57	<u>4.6</u>	50	<u>5.5</u>	Nov-95
Over/Under				0.1		0.1		0.1		0.1		0.1		0.1		0.0	
eA All US Fixed Inc Net Median				0.5	_	0.8	_	1.6		1.8		3.4		4.6		5.4	Nov-95
Western	269,528,505	6.4		0.7	43	1.0	40	2.5	27	2.7	27	4.7	31	5.4	31	6.4	Dec-96
Barclays Aggregate				<u>1.2</u>	18	<u>1.1</u>	35	<u>2.9</u>	14	<u>1.7</u>	55	<u>3.1</u>	57	<u>4.6</u>	50	<u>5.5</u>	Dec-96
Over/Under				-0.5		-0.1		-0.4		1.0		1.6		0.8		0.9	
eA All US Fixed Inc Net Median				0.5		0.8		1.6		1.8		3.4		4.6		5.5	Dec-96
Reams	284,432,025	6.8		-0.5	79	0.6	57	-1.4	89	0.2	94	3.3	52	5.9	22	5.7	Sep-01
Reams Custom Index				<u>0.1</u>	68	<u>0.2</u>	68	<u>0.3</u>	78	<u>0.1</u>	96	<u>2.1</u>	79	<u>4.1</u>	64	<u>4.4</u>	Sep-01
Over/Under				-0.6		0.4		-1.7		0.1		1.2		1.8		1.3	
Barclays Aggregate				1.2	18	1.1	35	2.9	14	1.7	55	3.1	57	4.6	50	4.8	Sep-01
eA All US Fixed Inc Net Median				0.5		0.8		1.6		1.8		3.4		4.6		4.9	Sep-01
Loomis Sayles Multi Strategy	71,063,839	1.7		-2.7	89	-1.3	82	-1.3	89	3.4	15	5.6	21	6.6	13	6.5	Jul-05
Loomis Custom Index				<u>-0.9</u>	82	<u>-0.1</u>	73	<u>0.7</u>	71	<u>2.1</u>	40	<u>3.9</u>	43	<u>5.4</u>	31	<u>5.3</u>	Jul-05
Over/Under				-1.8		-1.2		-2.0		1.3		1.7		1.2		1.2	
Barclays Govt/Credit				1.2	19	0.9	47	2.7	20	1.6	61	3.1	57	4.6	51	4.5	Jul-05
eA All US Fixed Inc Net Median				0.5		0.8		1.6		1.8		3.4		4.6		4.6	Jul-05

Reams Custom Index: Merrill Lynch 3 Month Libor Constant Maturity Index, prior to February 2013 the Barclays Aggregate

Loomis Custom Index: 65% Barclays Aggregate, 30% Citigroup High Yield Market Index and 5% JPM Non-US Hedged Bond Index



Total Fund Performance Detail (Net)

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Return (%)	Since
Total Global Fixed Income	254,196,806	6.0	5.0	-0.3	34	-2.5	58	-3.0	47	-1.1	75	-	-	-		0.0	Jun-12
Barclays Global Aggregate				<u>0.9</u>	15	<u>-2.3</u>	51	<u>-3.3</u>	52	<u>-1.6</u>	80	<u>0.8</u>	83	<u>3.7</u>	80	<u>-0.5</u>	Jun-12
Over/Under				-1.2		-0.2		0.3		0.5						0.5	
eA All Global Fixed Inc Net Median				-1.5		-2.2		-3.2		1.1		2.8		4.4	_	2.2	Jun-12
Loomis Sayles Global Fixed Income	89,092,585	2.1		-0.4	41	-3.5	81	-4.9	75	-1.8	75		-			-0.6	Jun-12
Barclays Global Aggregate				<u>0.9</u>	16	<u>-2.3</u>	44	<u>-3.3</u>	49	<u>-1.6</u>	73	<u>0.8</u>	77	<u>3.7</u>	70	<u>-0.5</u>	Jun-12
Over/Under				-1.3		-1.2		-1.6		-0.2						-0.1	
eA Global Fixed Inc Unhedged Net Median				-1.0		-2.4		-3.3		-0.2		2.3		4.1		1.1	Jun-12
PIMCO Global Fixed Income	123,090,088	2.9		0.2	27	-2.4	53	-2.5	34	-1.4	69		-			-1.4	Sep-12
Barclays Global Aggregate				<u>0.9</u>	16	<u>-2.3</u>	44	<u>-3.3</u>	49	<u>-1.6</u>	73	<u>0.8</u>	77	<u>3.7</u>	70	<u>-1.6</u>	Sep-12
Over/Under				-0.7		-0.1		0.8		0.2						0.2	
eA Global Fixed Inc Unhedged Net Median				-1.0		-2.4		-3.3		-0.2		2.3		4.1		-0.2	Sep-12
Loomis Strategic Alpha	42,014,133	1.0		-1.5	53	-0.2	16	-0.2	12				-			1.6	Jul-13
Barclays Global Aggregate				<u>0.9</u>	16	<u>-2.3</u>	44	<u>-3.3</u>	49	<u>-1.6</u>	73	<u>0.8</u>	77	<u>3.7</u>	70	<u>-0.3</u>	Jul-13
Over/Under				-2.4		2.1		3.1								1.9	
eA Global Fixed Inc Unhedged Net Median				-1.0		-2.4		-3.3		-0.2		2.3		4.1		0.4	Jul-13



Total Fund Performance Detail (Net)

	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Return (%)	Since
Total Real Estate	349,536,974	8.3	7.0	3.6	21	9.7	30	13.0	44	11.2	61	12.0	67	4.9	50	7.9	Mar-94
Total Real Estate Benchmark				<u>3.7</u>	17	<u>11.3</u>	3	<u>14.9</u>	24	<u>13.4</u>	16	<u>14.0</u>	11	<u>6.7</u>	23	<u>9.0</u>	Mar-94
Over/Under				-0.1		-1.6		-1.9		-2.2		-2.0		-1.8		-1.1	
InvestorForce Public DB Real Estate Pub+Priv Net Median				2.6		6.1		11.7		11.7		12.8		4.8		6.2	Mar-94
Prudential Real Estate	120,621,253	2.9		4.7		11.2		15.2		13.1		14.2		5.5		5.8	Jun-04
NCREIF ODCE				<u>3.7</u>		<u>11.3</u>		<u>14.9</u>		<u>13.4</u>		<u>14.0</u>		<u>6.7</u>		<u>8.0</u>	Jun-04
Over/Under			_	1.0		-0.1		0.3		-0.3		0.2		-1.2		-2.2	
UBS Real Estate	226,635,760	5.4		3.2		8.8		11.9		10.2		10.7		6.0		7.6	Mar-03
NCREIF ODCE				<u>3.7</u>		<u>11.3</u>		<u>14.9</u>		<u>13.4</u>		<u>14.0</u>		<u>6.7</u>		<u>8.2</u>	Mar-03
Over/Under			_	-0.5		-2.5		-3.0		-3.2		-3.3		-0.7		-0.6	
RREEF	2,279,961	0.1		-5.3		8.5		10.5		17.1		24.3				-5.0	Sep-07
NCREIF ODCE				<u>3.7</u>		<u>11.3</u>		<u>14.9</u>		<u>13.4</u>		<u>14.0</u>		<u>6.7</u>		<u>4.1</u>	Sep-07
Over/Under				-9.0		-2.8		-4.4		3.7		10.3				-9.1	

Total Real Estate Benchmark: NCREIF ODCE; prior to January 2006, the NCREIF Property Index



Total Fund Performance Detail (Net)

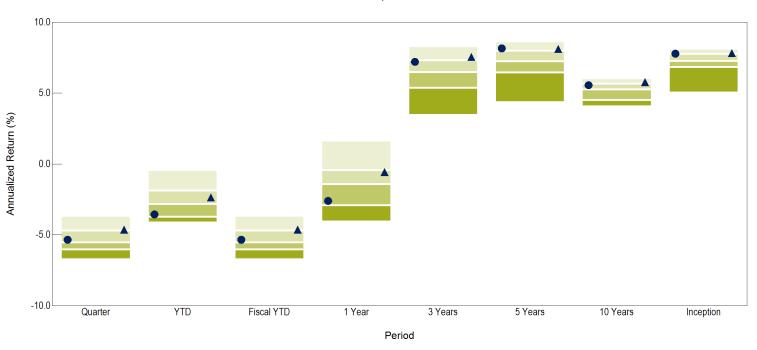
	Market Value (\$)	% of Portfolio	Policy %	3 Mo (%)	Rank	YTD (%)	Rank	1 Yr (%)	Rank	3 Yrs (%)	Rank	5 Yrs (%)	Rank	10 Yrs (%)	Rank	Return (%)	Since
Total Liquid Alternatives	360,849,821	8.6	10.0	-12.4	-	-13.7		-16.3		-		-		-		2.2	Apr-13
CPI + 4% (Unadjusted)				<u>0.7</u>		<u>4.4</u>		<u>4.0</u>		<u>5.0</u>		<u>5.8</u>		<u>5.9</u>		<u>5.0</u>	Apr-13
Over/Under				-13.1		-18.1		-20.3								-2.8	
Bridgewater All Weather Fund	258,151,446	6.1		-6.4		-5.9		-5.8								2.2	Aug-13
CPI + 5% (Unadjusted)				<u>1.1</u>		<u>5.3</u>		<u>5.1</u>								<u>5.9</u>	Aug-13
Over/Under				-7.5		-11.2		-10.9								-3.7	
Tortoise Energy Infrastructure	102,698,375	2.4		-24.5		-28.7		-34.6								-3.1	Apr-13
Wells Fargo MLP Index				<u>-24.8</u>		<u>-29.9</u>		<u>-37.9</u>		<u>-2.4</u>						<u>-9.0</u>	Apr-13
Over/Under				0.3		1.2		3.3								5.9	
Overlay	137,912,653	3.3	0.0														
Parametric	137,912,653	3.3															

Overlay performance is not applicable on an individual account level



Total Fund Return Summary vs. Peer Universe

Total Fund vs. InvestorForce Public DB > \$1B Net



	Return (Rank)							
5th Percentile	-3.7	-0.4	-3.7	1.6	8.3	8.6	6.0	8.1
25th Percentile	-4.7	-1.8	-4.7	-0.4	7.3	8.0	5.7	7.8
Median	-5.5	-2.8	-5.5	-1.4	6.5	7.3	5.3	7.3
75th Percentile	-6.0	-3.7	-6.0	-2.9	5.4	6.5	4.5	6.9
95th Percentile	-6.7	-4.1	-6.7	-4.0	3.5	4.4	4.1	5.0
# of Portfolios	41	41	41	41	41	41	39	23
Total Fund	-5.3 (49)	-3.6 (71)	-5.3 (49)	-2.6 (72)	7.2 (34)	8.2 (17)	5.6 (34)	7.8 (25)
Policy Index	-4.6 (25)	-2.4 (33)	-4.6 (25)	-0.6 (30)	7.5 (15)	8.1 (19)	5.8 (22)	7.8 (22)



Total Fund Return Summary vs. Peer Universe

Total Fund vs. InvestorForce Public DB > \$1B Net

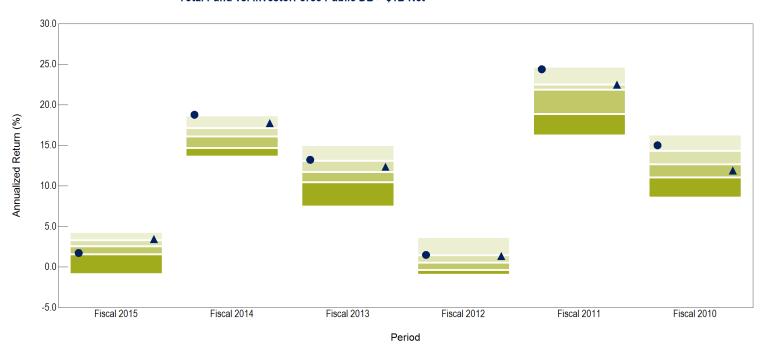


	Return (Rank)									
5th Percentile	7.6	19.5	14.3	4.2	15.1	27.5	-20.9	10.7	15.8	10.2
25th Percentile	6.1	16.0	13.4	1.5	13.8	21.7	-25.7	9.2	14.6	9.1
Median	5.1	14.3	12.7	0.6	12.8	20.0	-26.9	8.5	14.0	8.0
75th Percentile	4.4	11.0	11.8	-0.3	11.8	17.7	-28.3	7.1	12.5	7.2
95th Percentile	2.6	8.5	9.0	-1.2	9.3	13.4	-30.5	5.9	10.9	5.4
# of Portfolios	55	48	44	42	41	40	39	39	38	37
Total Fund	6.4 (19	9) 18.0 (1	0) 14.0 (15)	0.3 (61)) 15.1 (6)	24.2 (16) -30.9 (98)	7.0 (77)	14.2 (41)	7.8 (56)
Policy Index	6.9 (1	1) 17.2 (1	4) 12.9 (41)	0.5 (55) 13.2 (44)	21.0 (33) -27.1 (54)	8.5 (50)	14.0 (50)	7.6 (67)



Total Fund Return Summary vs. Peer Universe

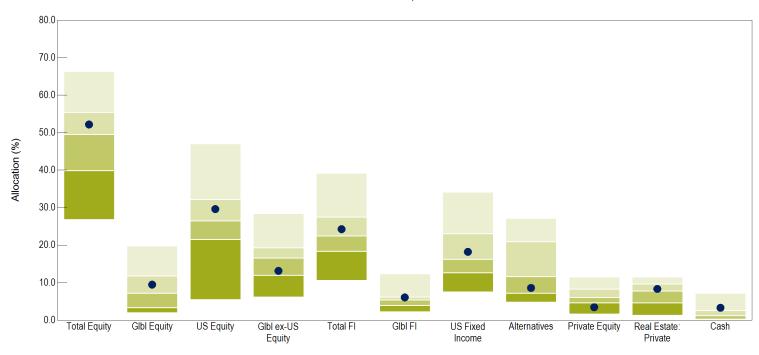
Total Fund vs. InvestorForce Public DB > \$1B Net



	Return (Rank)										
5th Percentile	4.3		18.7		15.0		3.7	24.7		16.3	
25th Percentile	3.3		17.2		13.1		1.5	22.5		14.4	
Median	2.6		16.1		11.8		0.5	21.9		12.7	
75th Percentile	1.6		14.7		10.5		-0.3	18.9		11.1	
95th Percentile	-0.9		13.6		7.5		-0.9	16.3		8.6	
# of Portfolios	53		43		56		41	42		41	
Total Fund	1.7	(70)	18.8	(5)	13.2	(22)	1.5 (2	5) 24.4	(10)	15.0	(15)
Policy Index	3.4	(24)	17.7	(19)	12.4	(39)	1.4 (2	7) 22.5	(30)	11.9	(64)

Total Fund Allocations vs. Peer Universe

Total Plan Allocation vs. InvestorForce Public DB > \$1B Net



5th Percentile 25th Percentile Median 75th Percentile 95th Percentile # of Portfolios

Total Fund

Allocatio	n (Rank)																					
66.3		19.7		47.1		28.4		39.1		12.4		34.1		27.1		11.5		11.5		7.1		
55.5		11.8		32.3		19.4		27.6		6.3		23.2		21.0		8.4		9.7		2.6		
49.6		7.2		26.6		16.6		22.5		5.5		16.3		11.7		6.2		7.8		1.3		
39.9		3.4		21.6		12.0		18.4		4.0		12.7		7.3		4.7		4.6		0.3		
26.8		2.0		5.5		6.2		10.7		2.3		7.6		4.8		1.7		1.3		0.1		
37		18		35		35		39		18		32		34		32		29		34		
52.2	(48)	9.5	(36)	29.6	(34)	13.1	(68)	24.2	(45)	6.0	(42)	18.2	(43)	8.6	(70)	3.4	(85)	8.3	(39)	3.3	(18)	



Manager Due Diligence

Due Diligence Monitor

The items below summarize the recent quarter's performance and any changes or announcements from the Plan's managers/products. A "-" indicates there were no material announcements. A "Yes" indicates there was an announcement and a brief summary is provided on the following pages. NEPC's Due Diligence Committee meets every two weeks to review events as they relate to investment managers and determine if any action should be taken (by NEPC and/or by our clients). Events are rated: No Action, Watch, Hold, Client Review or Terminate. NEPC's recommendation in view of the recent quarter's developments (performance, manager events, and any of the longer-term trending data) is refreshed quarterly.

Investment Options	Performance (Recent Quarter)	Changes/ Announcements (Recent Quarter)	NEPC DD Committee Rec.	Plan Rec.	Comments
BlackRock Equity Market Index	-	-	-	-	
Western U.S. Index Plus	-	-	-	-	
BlackRock Extended Equity Index	-	-	-	-	İ
BlackRock MSCI ACWI ex-U.S. Index	Bottom Quartile	-	-	-	
Sprucegrove	Bottom Decile	No	Hold	No Action	3Q 2014 Departure
Hexavest	Top Quartile	-	-	-	
Walter Scott	-	-	-	-	
BlackRock MSCI ACWI Index	-	-	-	-	
GMO	Bottom Quartile	-	-	-	
Adams Street	N/A	-	-	-	
HarbourVest	N/A	-	-	-	
Pantheon	N/A	-	-	-	
BlackRock U.S. Debt Fund	Top Quartile	-	-	-	
Western	-	-	-	-	
Reams	Bottom Quartile	-	-	-	
Loomis Sayles Multi-Sector Full Discretion	Bottom Quartile	-	-	-	
Loomis Sayles Global Fixed Income	-	-	-	-	
PIMCO Global Fixed Income	-	Yes	Watch	No Action	Bill Gross Lawsuit



Due Diligence Monitor Continued

Investment Options	Performance (Recent Quarter)	Changes/ Announcements (Recent Quarter)	NEPC DD Committee Rec.	Plan Rec.	Comments
Loomis Sayles Strategic Alpha	-	-	-	-	
Prudential	N/A	-	-	-	
RREEF	N/A	-	-	-	
UBS	N/A	-	-	-	
Bridgewater	N/A	-	-	-	
Tortoise	N/A	-	-	-	
Parametric/Clifton	N/A	-	-	-	

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



Due Diligence Commentary

Below is a summary of manager changes, announcements and due diligence events since the issuance of our last quarterly report.

Manager Changes/Announcements

PIMCO

On October 8th, Bill Gross filed a lawsuit against PIMCO claiming wrongful termination. The lawsuit has a number of claims but the general basis of Gross's case is that the managing directors at PIMCO plotted against him in order to gain greater access to PIMCO's bonus pool. The lawsuit also makes a number of claims against certain individuals but Andrew Balls, Dan Ivascyn and Mohamed El-Erian seem to be Gross's main targets. PIMCO believes that these claims have no merit and announced that their legal team and executive committee will be taking the matter to court.

NEPC research was onsite the day that this lawsuit was announced and had a conversation with a member of their executive committee to discuss the filing. Given the timing of the suit and this conversation, there really wasn't much to be shared but this conversation was helpful to gauge any initial reactions from PIMCO. NEPC research is not concerned with this lawsuit and believe it is more of a publicity driven event than anything that will impact PIMCO's business operations. PIMCO was surprised by this lawsuit. Part of this surprise is due to the fact that the press broke this story before the court systems were even open, indicating that they were most likely tipped off about the story prior to it actually being filed with the courts. This speaks to Bill's incentives of the case which is centered on pride and vindication rather than monetary compensation. Gross has even stated that if he does win the case, he will be donating all the proceeds to charity. Another reason for PIMCO's surprise stems from the fact that the records support that Gross had resigned and was not actually fired. All in all, Bill's story has continually changed over the past year, it started off as one of him leaving to get a fresh start at a small firm and now it is a story of wrongful termination. In a hypothetical situation where Gross does win the case, PIMCO has insurance for these types of situations and would not payout from their reserves; thereby limiting any impact on the business. PIMCO really just wants to move past this, having tried and will continue to try to take the high road and avoid media confrontation throughout this case.

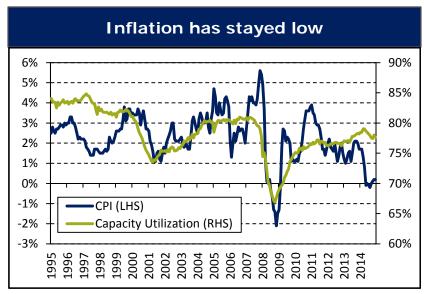
NEPC recommends maintaining the current due diligence status of WATCH for PIMCO as a firm and for the Global Fixed Income portfolio in which VCERA currently invests.



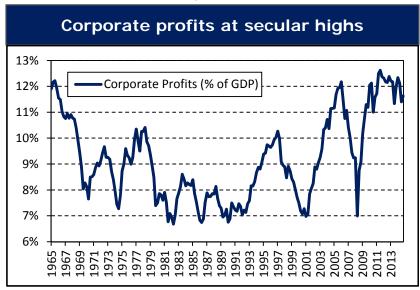
Appendix: Market Environment



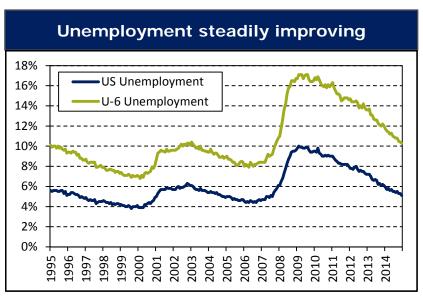
US Economic Indicators



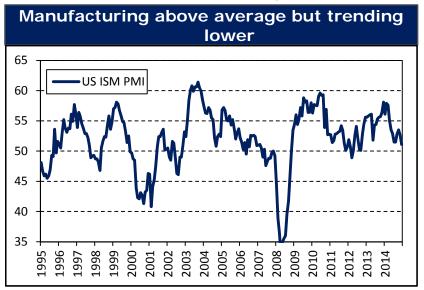
Source: Bloomberg, Federal Reserve, Bureau of Labor Statistics



Source: Bloomberg, Bureau of Economic Analysis



Source: Bloomberg, Bureau of Labor Statistics



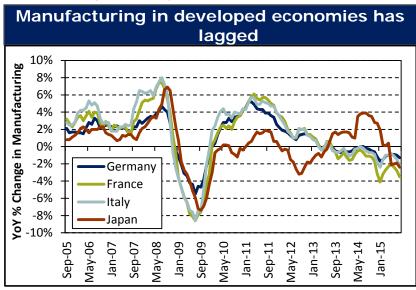
Source: Bloomberg, Institute for Supply Management



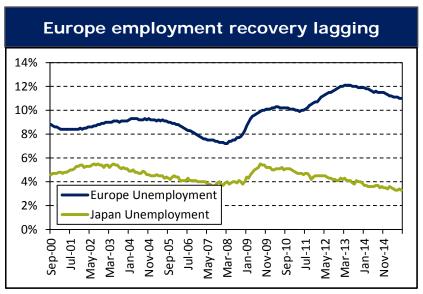
International Economic Indicators



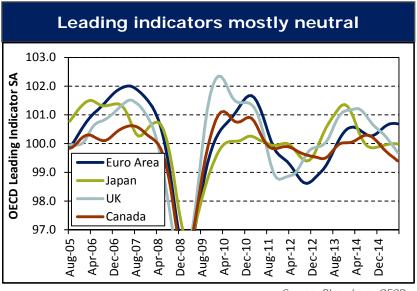
Source: Bloomberg, Japan Ministry of Internal Affairs and Communications, Eurostat



Source: Bloomberg, OECD, Eurostat



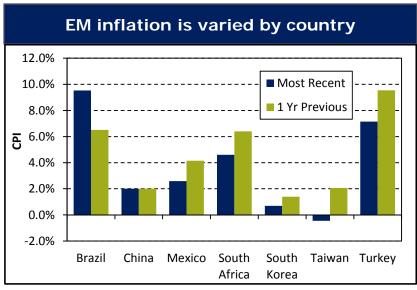
Source: Bloomberg, Japan Ministry of Internal Affairs and Communications, Eurostat



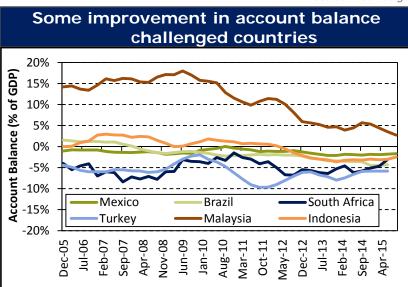
Source: Bloomberg, OECD



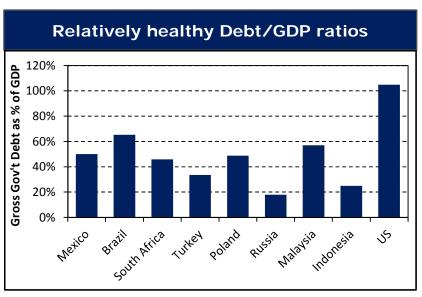
Emerging Market Economic Indicators



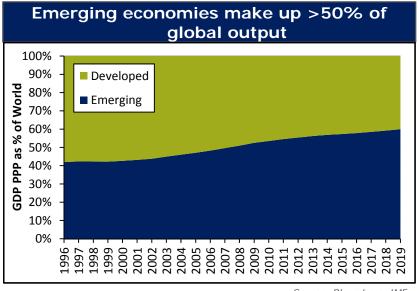
Source: Bloomberg



Source: Bloomberg



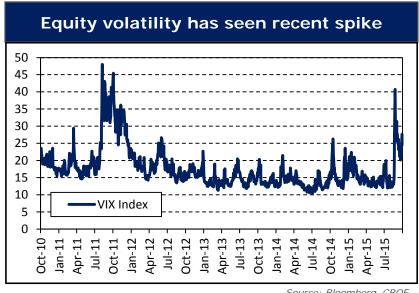
Source: Bloomberg, IMF



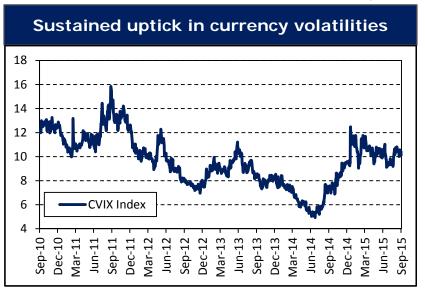
Source: Bloomberg, IMF



Volatility



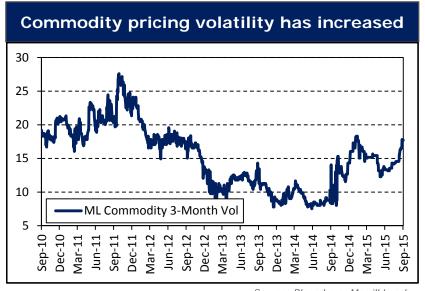
Source: Bloomberg, CBOE



Source: Bloomberg, Deutsche Bank



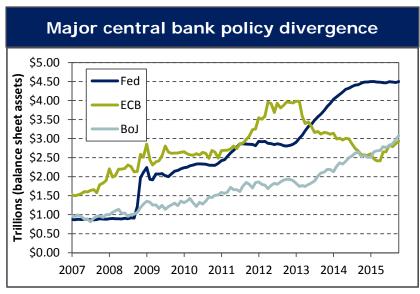
Source: Bloomberg, Merrill Lynch



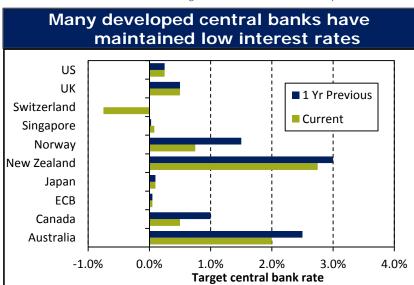
Source: Bloomberg, Merrill Lynch



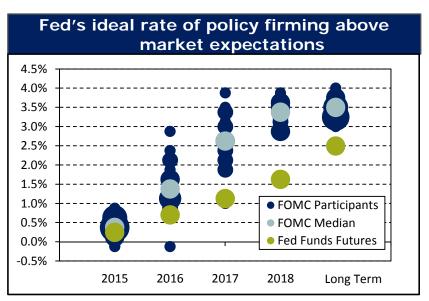
Central Banks



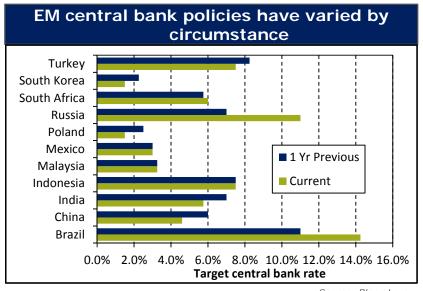
Source: Bloomberg, Federal Reserve, Bank of Japan, ECB, NEPC



Source: Bloomberg



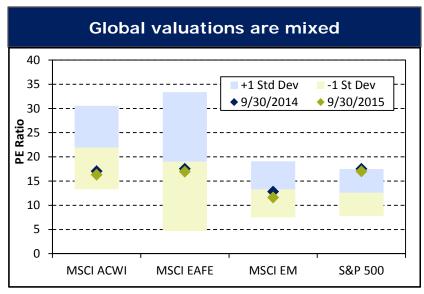
Source: Bloomberg, Federal Reserve, NEPC



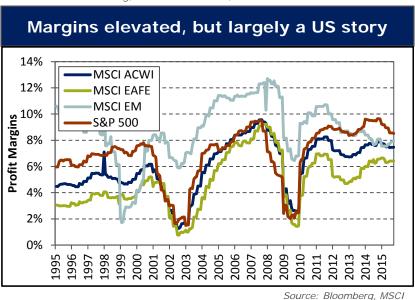
Source: Bloomberg



Global Equity

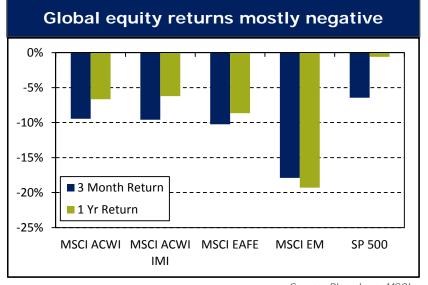


Source: Bloomberg, Standard and Poors, MSCI *MSCI EAFE is ex UK Telecom



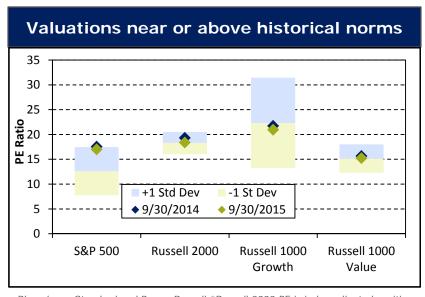
Earnings growth trending lower 50% Rolling 12-Mo Change in EBIT 40% 30% 20% 10% 0% -10% -20% S&P 500 -30% MSCI EAFE -40% MSCI EM -50% Feb-07 Jun-08 Feb-09 Oct-09 Jun-10 Oct-11 Feb-13 Oct-13 Feb-15 Oct-07 Feb-11

Source: Bloomberg, Standard and Poors, MSCI

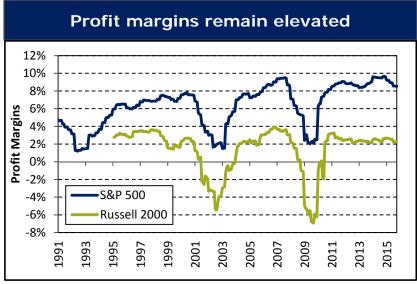




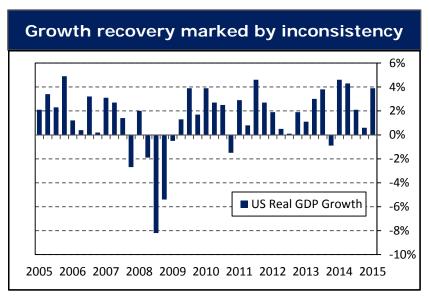
US Equity



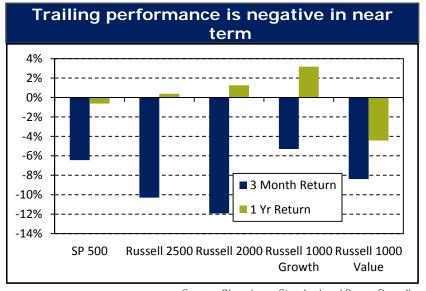
Source: Bloomberg, Standard and Poors, Russell *Russell 2000 PE is index adjusted positive



Source: Bloomberg, Standard and Poors, Russell



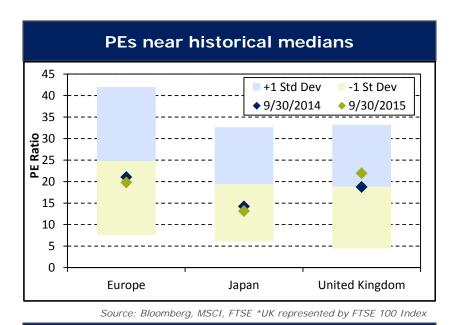
Source: Bloomberg, Bureau of Economic Analysis

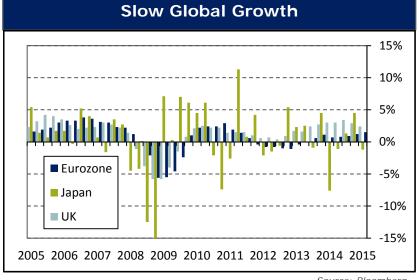


Source: Bloomberg, Standard and Poors, Russell

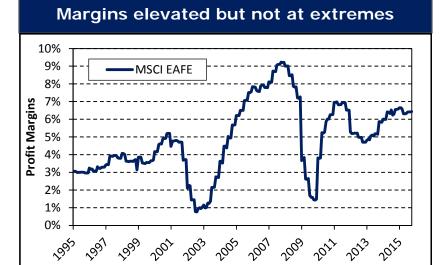


International Equity





Source: Bloomberg

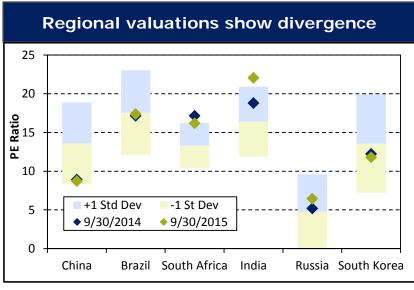


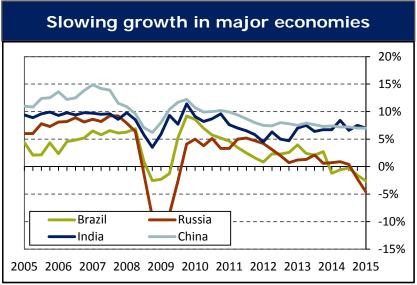
Returns pulled lower by dollar strength 15% 10% ■ 3 Month Return ■ 1 Yr Return 5% 0% -5% -10% -15% EAFE (Local) EAFE Small Cap EAFE SC (Local) MSCI EAFE

Source: Bloomberg, MSCI



Emerging Markets Equity

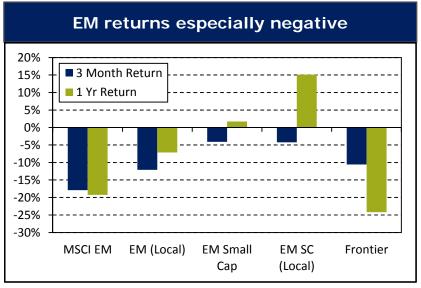




Source: Bloomberg, MSCI

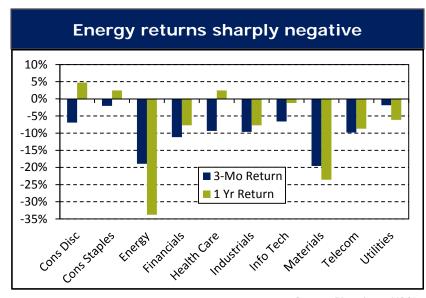




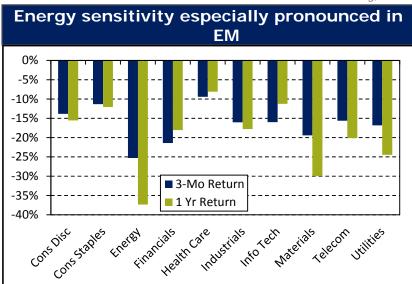




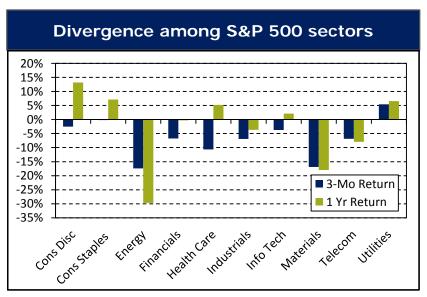
Global Equity by Sector



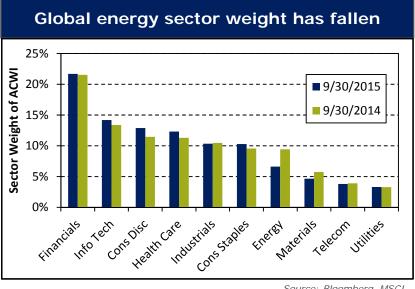
Source: Bloomberg, MSCI



Source: Bloomberg, MSCI

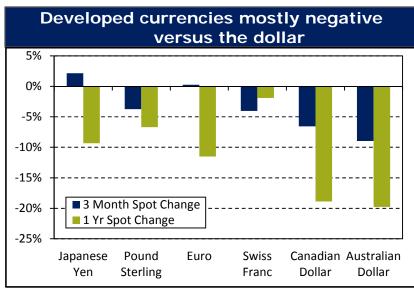


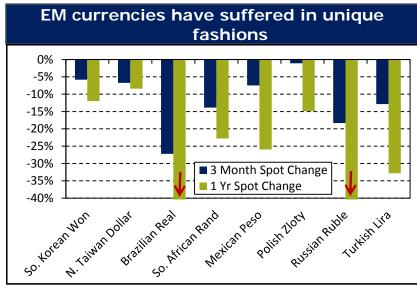
Source: Bloomberg, Standard and Poors





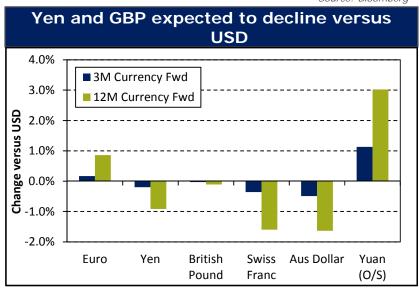
Currencies





Source: Bloomberg



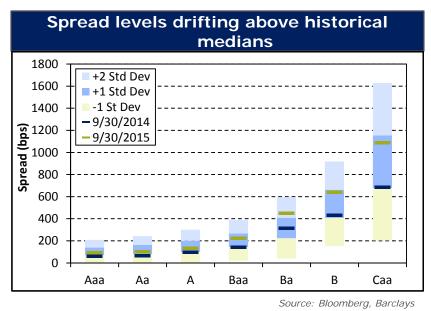


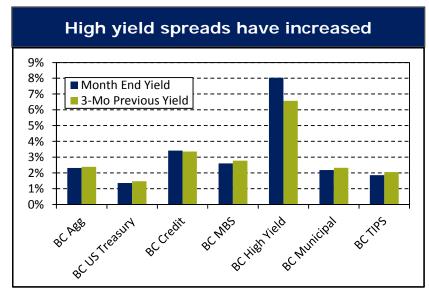
Source: Bloomberg

Source: Bloomberg, Federal Reserve



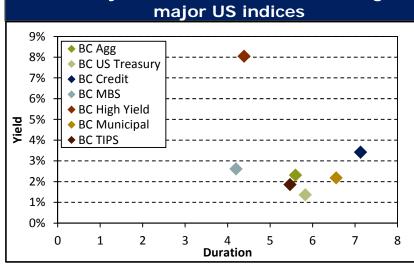
US Fixed Income





Source: Bloomberg, Barclays





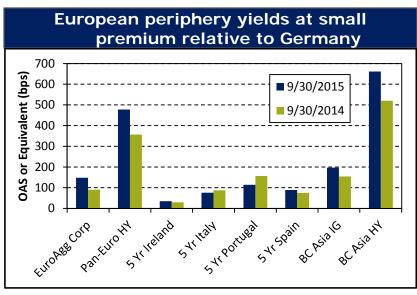
Negative high yield returns driven by energy distress 5.0% 3.0% 1.0% -1.0% -3.0% ■ 3 Month Return -5.0% 1 Yr Return -7.0% & Ches BC II Treasury & Cledit & Who BC High rield BC Municipal

Source: Bloomberg, Barclays

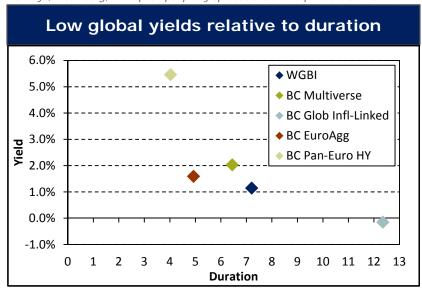




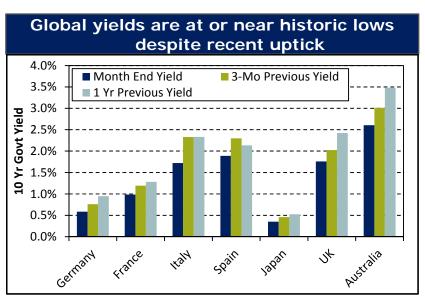
International Developed Fixed Income



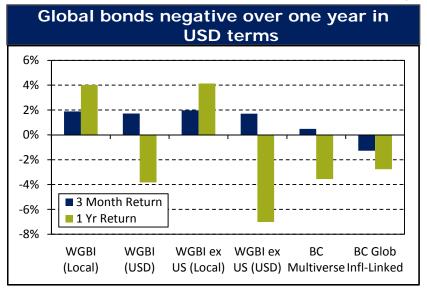
Source: Barclays, Bloomberg, *European periphery spreads are over equivalent German Bund



Source: Bloomberg, Citigroup, Barclays



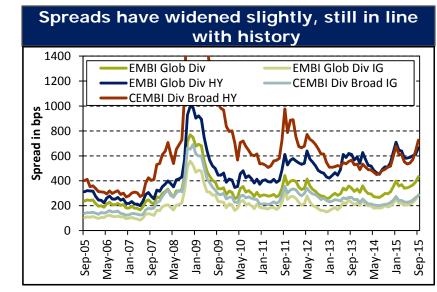
Source: Bloomberg



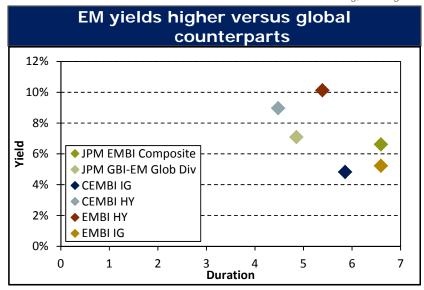
Source: Bloomberg, Citigroup, Barclays



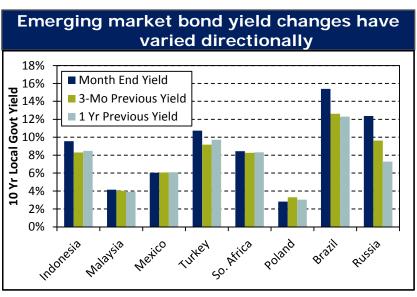
Emerging Markets Fixed Income



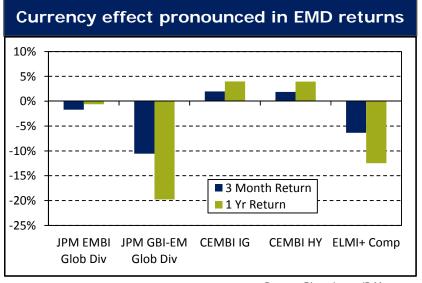
Source: Bloomberg, JP Morgan



Source: Bloomberg, JP Morgan

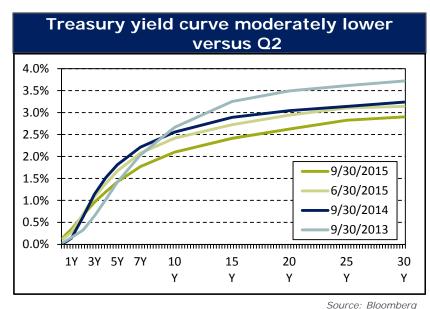


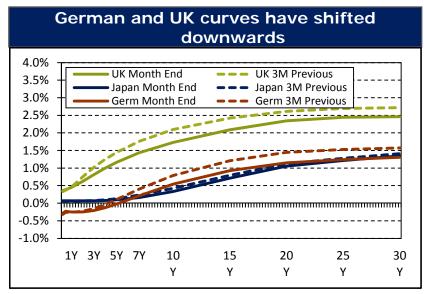
Source: Bloomberg



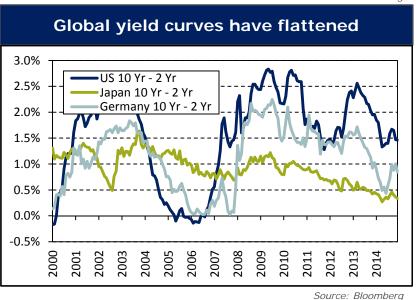
Source: Bloomberg, JP Morgan







Source: Bloomberg

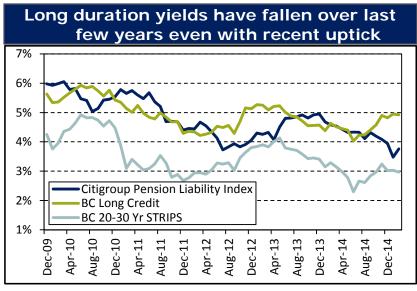




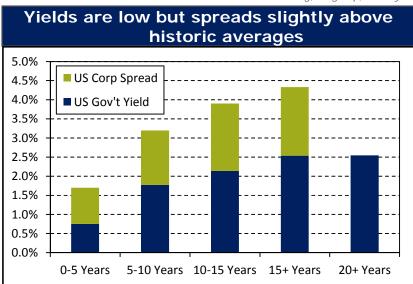
Source: Bloomberg



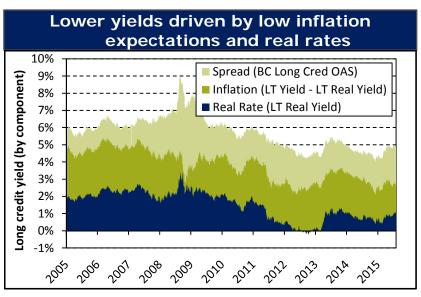
Long Rates and Liability



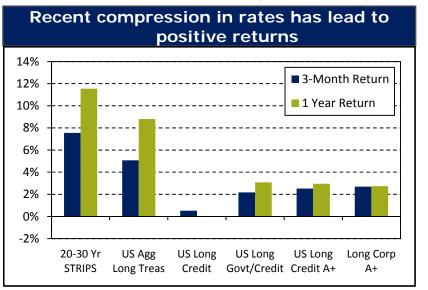
Source: Bloomberg, Citigroup, Barclays



Source: Bloomberg, BofA Merrill Lynch, Barclays *No index for 20+ year corporate



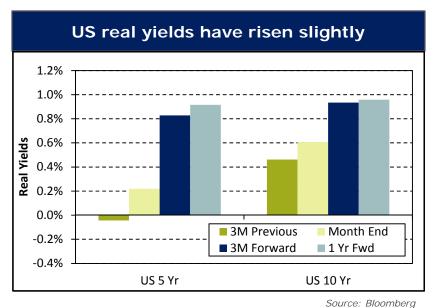
Source: Bloomberg, US Treasury, Barclays, NEPC

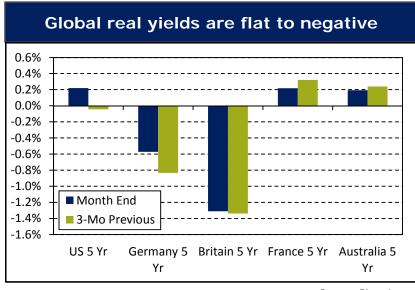


Source: Bloomberg, Barclays

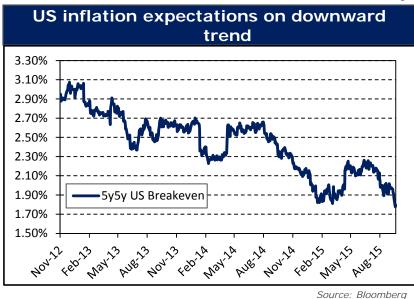


Inflation and Real Rates





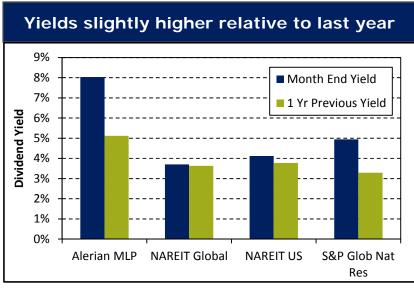
Source: Bloombera



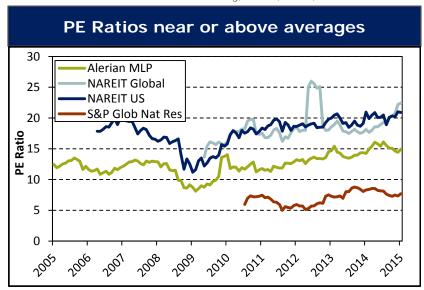




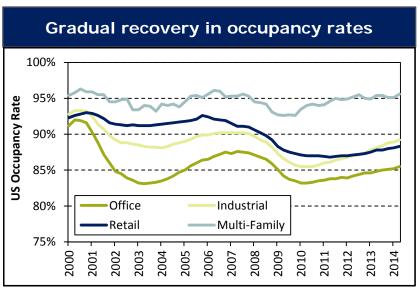
Inflation Sensitive Growth Assets



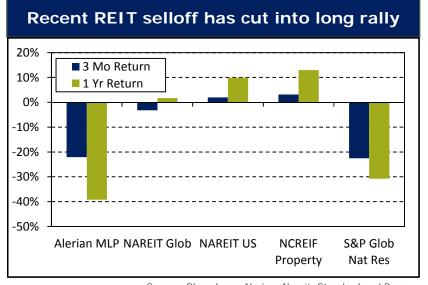
Source: Bloomberg, Alerian, Nareit, Standard and Poors



Source: Bloomberg, US Census Bureau

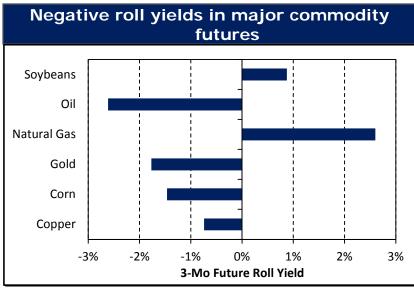


Source: Bloomberg, CB Richard Ellis

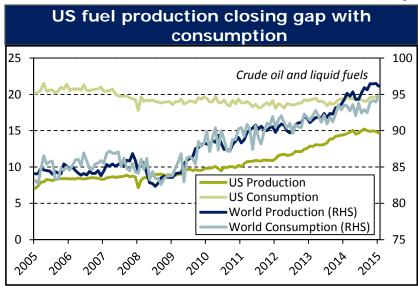


Source: Bloomberg, Alerian, Nareit, Standard and Poors

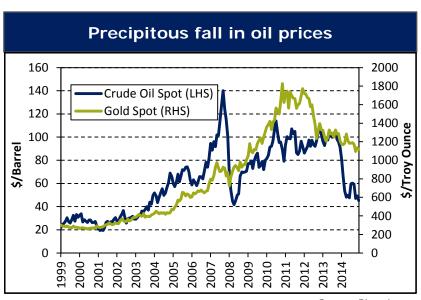




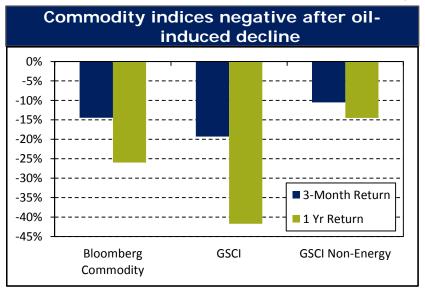
Source: Bloomberg



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



Source: Bloomberg



Source: Bloomberg, Standard and Poors



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Reporting Methodology

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- 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.
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