DECEMBER 10, 2015

AGENDA ITEM 7 INFORMATION ITEM

SCHOLARSHARE INVESTMENT BOARD

Review and Analysis of Investment Performance for the ScholarShare College Savings Plan for Third Quarter 2015

Background

The ScholarShare Investment Board (SIB or Board) and its investment consultant, Pension Consulting Alliance, LLC (PCA), monitor all portfolios in the ScholarShare College Savings Plan (Plan) in accordance with the ScholarShare Monitoring Procedures and Criteria adopted by the Board.

In this item, SIB will review and discuss the "Investment Performance Report" for the Plan for third quarter 2015, provided by TIAA-CREF Tuition Financing Inc. (Exhibit A), and PCA's "Investment Performance Status Report" (Exhibit B) for third quarter 2015. PCA's report compares each underlying fund allocated to the portfolios used in the Plan, to applicable benchmark criteria and labels the current status of funds as "positive," "acceptable," "caution," or "watch."

For third quarter 2015:

- 15 underlying funds were in "positive" status (one of which was on "watch" status);
- Four underlying funds were in "acceptable" status (one of which was on "watch" status); and
- No underlying funds were in "caution" status.

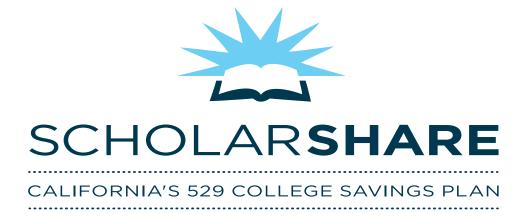
As outlined in its memo (Exhibit C), PCA is recommending that the two underlying funds currently on "watch" status, the PIMCO Income Fund and the PIMCO Real Return Fund, both remain on "watch" status at this time and no new funds qualify for "watch" status.

Presenters

Jeremy Thiessen, Senior Director, TIAA-CREF Tuition Financing, Inc. Eric White, Principal, Pension Consulting Alliance, LLC

ScholarShare College Savings Plan

Investment Performance Report 3rd Quarter, 2015





Market Overview – 3Q 2015

TIAA CREF

Key themes

- After expanding 3.9% in the second quarter, the U.S. economy slowed in the third quarter.
- Consumer spending grew briskly in July and August, aided by lower oil prices and healthy labor markets.
- The Federal Reserve decided not to raise short-term interest rates in September, citing the lack of inflation and global economic concerns as a potential risk to U.S. growth. Nonetheless, Fed officials have indicated that rate "liftoff" could still occur this year.

Equities

- Of the 10 sectors in the S&P 500, only Utilities advanced, bolstered by investors seeking high dividend yields. Energy, Materials, and Health Care were the three worst performers during the quarter.
- Japan's economy struggled in the face of sluggish demand both at home and from China, a major trading partner. Major Chinese equity indexes plunged to multi-year lows after peaking in June.

Fixed Income

- During the quarter's mostly "risk-off" environment, demand grew for safe-haven assets such as U.S. Treasuries, which realized positive returns.
- China's struggles, slumping commodity prices, and the prospect of higher interest rates in the U.S. led to outflows and poor returns for emerging-market debt.

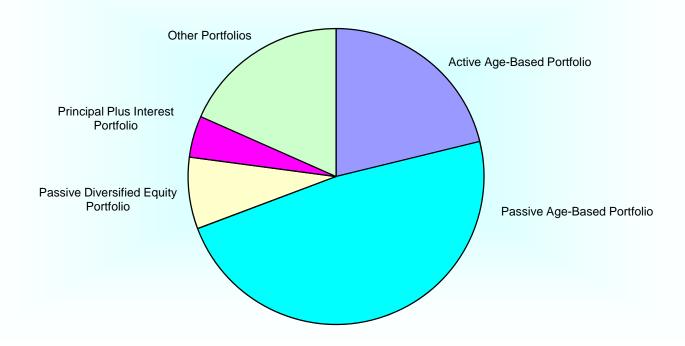
Past performance is not indicative of future results. You can not invest directly in an index. U.S. Equities – Russell 3000 Index; U.S. Growth Stocks – Russell 1000 Growth; U.S. Value Stocks – Russell 1000 Value; U.S. Mid Cap Stocks – Russell Midcap Index; U.S. Small-Cap Stocks – Russell 2000 Index; International Developed Markets – MSCI EAFE Index; Emerging Markets – MSCI Emerging Markets; Real Estate Stocks – FTSE NAREIT All Equity REITS; U.S. Investment Grade Bonds – Barclays U.S. Aggregate Bond Index; U.S. Treasuries – Barclays U.S. Government/Credit Long Index; Inflation-Linked Bonds – Barclays TIPS Index; High Yield Bonds – BofA Merrill Lynch BB/B Cash Pay Index; Commodities – Bloomberg Commodity Index; Cash - Barclays U.S. 3 month Treasury Bellweathers Index C27529

CIXLI											
Market Performand	ce as of Sept	ember 30, 2	2015 (%)								
Asset Class	3 Month	1 Year	3 Year	5 Year							
U.S. Equities	-7.25	-0.49	12.53	13.28							
U.S. Growth Stocks	-5.29	3.17	13.61	14.47							
U.S. Value Stocks	-8.39	-4.42	11.59	12.29							
U.S. Mid-Cap Stocks	-8.01	-0.25	13.91	13.40							
U.S. Small-Cap Stocks	-11.92	1.25	11.02	11.73							
Int'l Developed Markets	-10.23	-8.66	5.63	3.98							
Emerging Markets	-17.90	-19.28	-5.27	-3.58							
Real Estate Stocks	0.99	7.84	9.04	11.86							
U.S. Investment Grade Bonds	1.23	2.94	1.71	3.10							
U.S. Treasuries	2.18	3.09	2.17	5.96							
Inflation-Linked Bonds	-1.15	-0.83	-1.83	2.55							
High Yield Bonds	-4.28	-2.07	3.68	5.99							
Commodities	-14.47	-25.99	-16.02	-8.89							
Cash	0.03	0.05	0.07	0.09							
Annualized Tuition Inflation E	nding as of 2	2015-2016 <i>A</i>	Academic Y	ear* (%)							
Educational Institution		1 Year	3 Year	5 Year							
National Average Public 4-Year	In-state	2.90	2.86	4.29							
National Average Private Nonpro	ofit 4-Year	3.59	3.78	3.90							
Consumer Price Index, Septemb	er 2015	-0.04	0.93	1.73							

^{*}Data are for the entire academic year and are average total charges for full-time attendance. Tuition and fees were enrollment weighted. SOURCES: CollegeBoard, Trends in College Pricing 2015 and U.S. Department of Labor: Bureau of Labor Statistics

ScholarShare Assets by Investment Portfolio as of 9/30/15

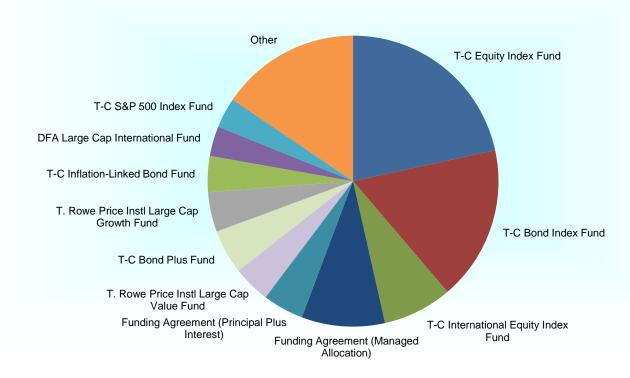
Total Assets: \$6.151 Billion



Portfolio	% of Assets	\$ N	lillions	Portfolio	% of Assets	\$ N	/lillions
Passive Age-Based Portfolio	48.08%	\$	2,958	Principal Plus Interest Portfolio	4.54%	\$	279
Active Age-Based Portfolio	21.19%	\$	1,304	Other Portfolios (see below)	18.37%	\$	1,130
Passive Diversified Equity Portfolio	7.82%	\$	481				
			Other F	Portfolios			
Index U.S. Large Cap Equity Portfolio	3.38%	\$	208	Active Moderate Growth Portfolio	0.49%	\$	30
Index U.S. Equity Portfolio	3.35%	\$	206	Active Conservative Portfolio	0.47%	\$	29
Active Diversified Equity Portfolio	2.55%	\$	157	Passive Conservative Portfolio	0.46%	\$	28
Social Choice Portfolio	1.91%	\$	118	Passive Moderate Growth Portfolio	0.38%	\$	24
Active Growth Portfolio	1.52%	\$	94	Active International Equity Portfolio	0.25%	\$	15
Index International Equity Portfolio	1.42%	\$	87	Active Diversified Fixed Income Portfolio	0.25%	\$	15
Passive Growth Portfolio	1.19%	\$	73	Passive Diversified Fixed Income Portfolio	0.13%	\$	8
Index Bond Portfolio	0.62%	\$	38				

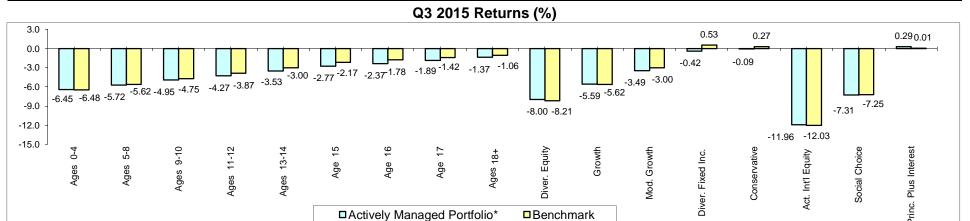
ScholarShare Assets by Underlying Funds as of 9/30/15

Total Assets: \$6.151 Billion

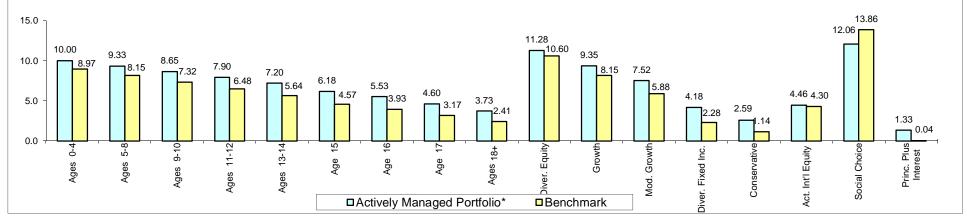


Fund	% of Assets	\$ Millions	Fund	% of Assets	\$ N	Millions
T-C Equity Index Fund	21.59%	\$ 1,328	T. Rowe Price Instl Large Cap Growth Fund	4.41%	\$	272
T-C Bond Index Fund	17.18%	\$ 1,056	T. Rowe Price Instl Large Cap Value Fund	4.17%	\$	256
Funding Agreement (Managed Allocation)	9.27%	\$ 570	T-C Inflation-Linked Bond Fund	4.01%	\$	247
T-C International Equity Index Fund	7.70%	\$ 474	T-C S&P 500 Index Fund	3.38%	\$	208
TIAA-CREF Bond Plus Fund	4.92%	\$ 303	DFA Large Cap International Fund	3.31%	\$	203
Funding Agreement (Principal Plus Interest)	4.54%	\$ 279	Other	15.52%	\$	955
		Othe	Funds			
T-C Real Estate Securities Fund	3.29%	\$ 202	T-C Emerging Markets Equity Index Fund	1.50%	\$	92
T-C High Yield Bond Fund	2.23%	\$ 137	T-C Small Cap Equity Fund	1.01%	\$	62
PIMCO Income Fund	2.04%	\$ 125	T. Rowe Price Instl Floating Rate Fund	0.92%	\$	57
PIMCO Real Return Fund	1.92%	\$ 118	DFA Emerging Markets Core Equity Portfolio	0.70%	\$	43
T-C Social Choice Equity Fund	1.91%	\$ 118				

Actively Managed Portfolios vs. Composite Benchmarks



Since Inception Returns as of 9/30/15 (%)



- * Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees (5 bps) and State Administrative Fees (5 bps).
- The U.S. economy created only 142,000 jobs in September, and payrolls for July and August were revised downward by a combined 59,000 from their original estimates. Thus far in 2015, job growth has averaged 198,000 per month, compared with an average monthly gain of 260,000 in 2014.
- New-home sales surged in August to their highest level since 2008, and July's sales were revised higher. Existing home sales, however, declined in August for the first time in four months after reaching an eight-year high in July.
- Most actively managed portfolios had negative absolute returns in Q3 and underperformed their blended benchmarks net of fees. Portfolios and
 age bands with higher equity allocations tended to have lower absolute returns, while those with higher fixed income exposure tended to have
 higher absolute returns.
- Notable contributors to relative returns in Q3 was the TIAA-CREF Small Cap Equity Fund Fund, which returned 271 basis points over its benchmark, and the TIAA-CREF Real Estate Securities Fund, which returned 140 basis points over its benchmark. Another top performer was the DFA Emerging Markets Core Equity I Portfolio, which beat its benchmark by 128 basis points. Lagging was the PIMCO Income Fund, which trailed its benchmark by more than 200 basis points for the guarter.
- All age bands beat their blended benchmarks by more than 100 basis points over the three-year period ended 9/30/15, as well as since inception.

ScholarShare College Savings Plan Performance Summary Actively Managed Portfolios vs. Composite Benchmarks* For the Period Ending 9/30/2015

				Average Annu	al Total Return		
Investment Portfolios	3 Month	YTD	1 Year	3 Year	5 Year	Since Inception	Inception Date
Active Age-Based Portfolios**							
Active Age-Based Portfolio 0-4	-6.45%	-3.97%	-1.63%	8.98%		10.00%	11/04/11
Blended Benchmark Returns	-6.48%	-4.77%	-2.20%	7.73%		8.97%	
Difference	0.03%	0.80%	0.57%	1.25%		1.03%	
Active Age-Based Portfolio 5-8	-5.72%	-3.41%	-1.19%	8.19%		9.33%	11/04/11
Blended Benchmark Returns	-5.62%	-4.05%	-1.63%	6.93%		8.15%	
Difference	-0.10%	0.64%	0.44%	1.26%		1.18%	
Active Age-Based Portfolio 9-10	-4.95%	-2.81%	-0.79%	7.38%		8.65%	11/04/11
Blended Benchmark Returns	-4.75%	-3.33%	-1.08%	6.12%		7.32%	
Difference	-0.20%	0.52%	0.29%	1.26%		1.33%	
Active Age-Based Portfolio 11-12	-4.27%	-2.32%	-0.59%	6.45%		7.90%	11/04/11
Blended Benchmark Returns	-3.87%	-2.62%	-0.53%	5.30%		6.48%	
Difference	-0.40%	0.30%	-0.06%	1.15%		1.42%	
Active Age-Based Portfolio 13-14	-3.53%	-1.65%	-0.15%	5.60%		7.20%	11/04/11
Blended Benchmark Returns	-3.00%	-1.92%	0.01%	4.49%		5.64%	,
Difference	-0.53%	0.27%	-0.16%	1.11%		1.56%	
Active Age-Based Portfolio 15	-2.77%	-1.10%	0.16%	4.68%		6.18%	11/04/11
Blended Benchmark Returns	-2.17%	-1.30%	0.33%	3.55%		4.57%	11/04/11
Difference	-0.60%	0.20%	-0.17%	1.13%		1.61%	
	-2.37%	-0.80%	0.41%	4.19%		5.53%	11/04/11
Active Age-Based Portfolio 16 Blended Benchmark Returns	-2.37% -1.78%	-0.80% -1.03%	0.41%	3.03%		3.93%	11/04/11
Difference	-0.59%	0.23%	0.02%	1.16%		1.60%	
							44/04/44
Active Age-Based Portfolio 17	-1.89%	-0.58%	0.42%	3.47%		4.60%	11/04/11
Blended Benchmark Returns	-1.42%	-0.81%	0.34%	2.44%		3.17%	
Difference	-0.47%	0.23%	0.08%	1.03%		1.43%	
Active Age-Based Portfolio 18 & Over	-1.37%	-0.17%	0.61%	2.87%		3.73%	11/04/11
Blended Benchmark Returns	-1.06%	-0.59%	0.29%	1.86%		2.41%	
Difference	-0.31%	0.42%	0.32%	1.01%		1.32%	
Active Multi-Fund Investment Portfolios	0.000/	5.040/	0.440/	40.540/		44.000/	44/04/44
Active Diversified Equity Portfolio Blended Benchmark Returns	-8.00% -8.21%	-5.24% -6.22%	-2.44% -3.34%	10.54% 9.33%		11.28% 10.60%	11/04/11
Difference			0.90%				
	0.21%	0.98%		1.21%		0.68%	
Active Growth Portfolio	-5.59%	-3.41%	-1.12%	8.21%		9.35%	11/04/11
Blended Benchmark Returns	-5.62%	-4.05%	-1.63%	6.93%		8.15%	
Difference	0.03%	0.64%	0.51%	1.28%		1.20%	
Active Moderate Growth Portfolio	-3.49%	-1.56%	0.00%	5.60%		7.52%	11/09/11
Blended Benchmark Returns	-3.00%	-1.92%	0.01%	4.49%		5.88%	
Difference	-0.49%	0.36%	-0.01%	1.11%		1.64%	
Active Conservative Portfolio	-0.09%	0.82%	1.19%	1.49%		2.59%	11/04/11
Blended Benchmark Returns	0.27%	0.44%	1.06%	0.62%		1.14%	
Difference	-0.36%	0.38%	0.13%	0.87%		1.45%	
Active International Equity Portfolio	-11.96%	-7.78%	-11.76%	2.98%		4.46%	11/10/11
Blended Benchmark Returns	-12.03%	-8.44%	-11.96%	2.62%		4.30%	
Difference	0.07%	0.66%	0.20%	0.36%		0.16%	
Active Diversified Fixed Income Portfolio	-0.42%	0.86%	1.38%	1.95%		4.18%	11/08/11
Blended Benchmark Returns	0.53%	0.85%	2.08%	1.19%		2.28%	
Difference	-0.95%	0.01%	-0.70%	0.76%		1.90%	
Active Single Fund Investment Portfolios							
Social Choice Portfolio	-7.31%	-7.75%	-4.00%	11.81%		12.06%	11/04/11
Benchmark Returns	-7.25%	-5.45%	-0.49%	12.53%		13.86%	
Difference	-0.06%	-2.30%	-3.51%	-0.72%		-1.80%	
Principal Plus Interest Portfolio**	0.29%	0.77%	1.06%	1.30%		1.33%	11/04/11
Benchmark Returns	0.01%	0.02%	0.02%	0.04%		0.06%	
Difference	0.28%	0.75%	1.04%	1.26%		1.27%	

^{*} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees (5 bps) and State Administrative Fees (5 bps).

^{**}There is a guaranteed crediting rate of 1.00% for the TC Life Funding Agreement in the Active Age-Based Portfolio and Principal Plus Interest Portfolio.

ScholarShare College Savings Plan Performance Summary Actively Managed Portfolios Asset Allocation, Fees, and Performance Q3 2015

Investment Portfolios

Active Age-Based Portfolio Age of Beneficiary	Q3 Portfolio Return	Q3 Blended Benchmk Return	Annual Asset Based Fees (bp)*	T. Rowe Price Instl Large Cap Growth Fund	T. Rowe Price Instl Large Cap Value Fund	T. Rowe Price Instl Floating Rate Fund		TIAA-CREF Real Estate Securities Fund			TIAA-CREF Bond Plus Fund	PIMCO Real Return Instl Fund	PIMCO Income Insti Fund	T-C Life Funding Agreement
Underlying Fund Expenses (bp)				56	57	56	49	52	28	61	32	45	45	-
0 - 4	-6.45%	-6.48%	58	22.68%	22.68%	2.00%	5.04%	5.60%	19.20%	4.80%	10.00%	4.00%	4.00%	0.00%
5 - 8	-5.72%	-5.62%	57	19.85%	19.85%	3.00%	4.40%	4.90%	16.80%	4.20%	15.00%	6.00%	6.00%	0.00%
9 - 10	-4.95%	-4.75%	56	17.01%	17.01%	4.00%	3.78%	4.20%	14.40%	3.60%	20.00%	8.00%	8.00%	0.00%
11 - 12	-4.27%	-3.87%	55	14.18%	14.18%	5.00%	3.14%	3.50%	12.00%	3.00%	25.00%	10.00%	10.00%	0.00%
13 - 14	-3.53%	-3.00%	54	11.34%	11.34%	6.00%	2.52%	2.80%	9.60%	2.40%	30.00%	12.00%	12.00%	0.00%
15	-2.77%	-2.17%	49	8.51%	8.51%	6.00%	1.88%	2.10%	7.20%	1.80%	30.00%	12.00%	12.00%	10.00%
16	-2.37%	-1.78%	44	7.09%	7.09%	5.50%	1.57%	1.75%	6.00%	1.50%	27.50%	11.00%	11.00%	20.00%
17	-1.89%	-1.42%	38	5.67%	5.67%	4.50%	1.26%	1.40%	4.80%	1.20%	22.50%	9.00%	9.00%	35.00%
18+	-1.37%	-1.06%	31	4.25%	4.25%	3.50%	0.95%	1.05%	3.60%	0.90%	17.50%	7.00%	7.00%	50.00%
Fund's Performance vs Benchmk Q3 2015	i (bp)			43	(75)	27	271	140	(13)	128	(78)	(66)	(208)	24

Active Multi-Fund Investment Portfolios

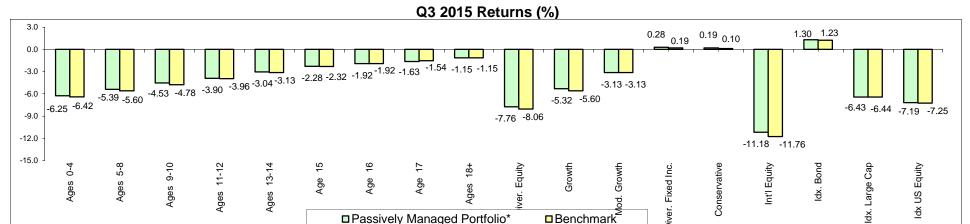
Active Diversified Equity Portfolio	-8.00%	-8.21%	59	28.35%	28.35%		6.30%	7.00%	24.00%	6.00%				
Active Growth Portfolio	-5.59%	-5.62%	57	19.85%	19.85%	3.00%	4.40%	4.90%	16.80%	4.20%	15.00%	6.00%	6.00%	
Active Moderate Growth Portfolio	-3.49%	-3.00%	54	11.34%	11.34%	6.00%	2.52%	2.80%	9.60%	2.40%	30.00%	12.00%	12.00%	
Active Diversified Fixed Income Portfolio	-0.42%	0.53%	50			10.00%					50.00%	20.00%	20.00%	
Active Conservative Portfolio	-0.09%	0.27%	30			5.00%					25.00%	10.00%	10.00%	50.00%
Active International Equity Portfolio	-11.96%	-12.03%	45						80.00%	20.00%				
Fund's Performance vs Benchmk Q3 2015	(bp)			43	(75)	27	271	140	(13)	128	(78)	(66)	(208)	24

Active Single Fund Investment Portfolios

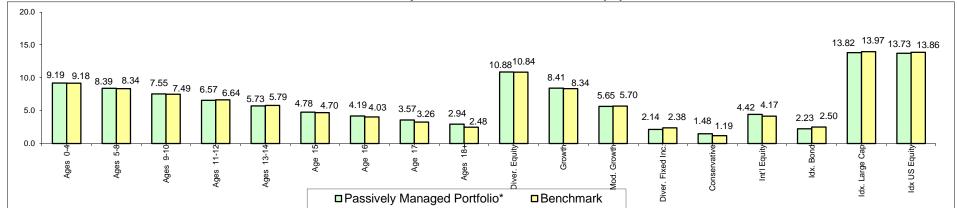
	Q3 Portfolio	Q3 Blended Benchmk	Annual Asset Based Fees	Percent		Fund's Performance vs Benchmk
Investment Portfolios	Return	Return	(bp)*	Allocation	Underlying Mutual Fund	Q3 2015 (bp)
Social Choice Portfolio	-7.31%	-7.25%	28	100.00%	TIAA-CREF Social Choice Equity Fund	1
Principal Plus Interest Portfolio	0.29%	0.01%	-	100.00%	TIAA-CREF Life Co. Funding Agreement	28

^{*} Asset Based Fees include most recent weighted average Underlying Fund Fees, Program Management Fees (5 bps) and State Administrative Fees (5 bps).

Passively Managed Portfolios vs. Composite Benchmarks



Since Inception Returns as of 9/30/15 (%)



- * Returns are net of most recent weighted average Underlying Fund Fees and Program Management Fees (5 bps) for the quarter, as well as State Administrative Fees (5 bps) before 11/12/13.
- After rising a solid 2.10% in July, the S&P 500 Index lost 6.03% in August, erasing its year-to-date gains and plunging into correction territory. The index dropped another 2.47% in September, concluding its worst quarter (-6.44%) since 2011.
- During the quarter's mostly "risk-off" environment, demand grew for safe-haven assets such as U.S. Treasuries, which realized positive returns.
- Most Passively Managed Portfolios posted negative absolute returns for the quarter and either performed in line with or slightly outperformed their benchmarks.
- While decreasing over 17% because of weakness overseas, the TIAA-CREF Emerging Markets Equity Index Fund was able to outperform its benchmark by 56 basis points due to a positive fair value adjustment.
- The Index Bond Portfolio returned 1.30%, modestly outperformed its benchmark, and had the highest performance in Q3 among all portfolios. The Barclay's Capital U.S. Aggregate Bond Index bounced back after the Fed's decision not to raise interest rates.
- The TC Life Funding Agreement outperformed by 24 basis points in Q3 based on the 1.00% guaranteed annual crediting rate.

ScholarShare College Savings Plan Performance Summary

Passively Managed Portfolios vs. Composite Benchmarks*
For the Period Ending 9/30/2015

				Average Annua	al Total Return		
Investment Portfolios	3 Month	YTD	1 Year	3 Year	5 Year	Since Inception Inc	ception Date
Passive Age-Based Portfolio**							
Passive Age-Based Portfolio 0-4	-6.25%	-4.28%	-1.74%	8.11%	-	9.19%	11/04/11
Blended Benchmark Returns	-6.42%	-4.53%	-1.99%	7.95%	-	9.18%	
Difference	0.17%	0.25%	0.25%	0.16%	-	0.01%	
Passive Age-Based Portfolio 5-8	-5.39%	-3.72%	-1.23%	7.33%	-	8.39%	11/04/11
Blended Benchmark Returns	-5.60%	-3.88%	-1.50%	7.12%	-	8.34%	
Difference	0.21%	0.16%	0.27%	0.21%	-	0.05%	44/04/44
Passive Age-Based Portfolio 9-10 Blended Benchmark Returns	-4.53% -4.78%	-2.99% -3.25%	-0.67% -1.02%	6.51% 6.28%	-	7.55% 7.49%	11/04/11
Difference	0.25%	0.26%	0.35%	0.23%	-	0.06%	
Passive Age-Based Portfolio 11-12	-3.90%	-2.58%	-0.47%	5.49%		6.57%	11/04/11
Blended Benchmark Returns	-3.96%	-2.61%	-0.55%	5.44%	-	6.64%	11/04/11
Difference	0.06%	0.03%	0.08%	0.05%	-	-0.07%	
Passive Age-Based Portfolio 13-14	-3.04%	-1.97%	0.00%	4.70%	_	5.73%	11/04/11
Blended Benchmark Returns	-3.13%	-1.99%	-0.09%	4.59%	-	5.79%	11/04/11
Difference	0.09%	0.02%	0.09%	0.11%	_	-0.06%	
Passive Age-Based Portfolio 15	-2.28%	-1.32%	0.33%	3.86%	_	4.78%	11/04/11
Blended Benchmark Returns	-2.32%	-1.41%	0.20%	3.63%	_	4.70%	11/04/11
Difference	0.04%	0.09%	0.13%	0.23%	_	0.08%	
Passive Age-Based Portfolio 16	-1.92%	-1.01%	0.43%	3.40%	_	4.19%	11/04/11
Blended Benchmark Returns	-1.92%	-1.14%	0.26%	3.09%	_	4.03%	11/04/11
Difference	0.00%	0.13%	0.17%	0.31%	-	0.16%	
Passive Age-Based Portfolio 17	-1.63%	-0.78%	0.53%	2.92%	_	3.57%	11/04/11
Blended Benchmark Returns	-1.54%	-0.90%	0.24%	2.50%	_	3.26%	11/04/11
Difference	-0.09%	0.12%	0.29%	0.42%	-	0.31%	
Passive Age-Based Portfolio 18 & Over	-1.15%	-0.44%	0.63%	2.47%	_	2.94%	11/04/11
Blended Benchmark Returns	-1.15%	-0.66%	0.21%	1.90%	-	2.48%	
Difference	0.00%	0.22%	0.42%	0.57%	-	0.46%	
Passive Multi-Fund Investment Portfolios							
Passive Diversified Equity Portfolio	-7.76%	-5.37%	-2.48%	9.73%	-	10.88%	11/04/11
Blended Benchmark Returns	-8.06%	-5.83%	-2.99%	9.61%	-	10.84%	
Difference	0.30%	0.46%	0.51%	0.12%	-	0.04%	
Passive Growth Portfolio	-5.32%	-3.52%	-1.01%	7.36%	-	8.41%	11/04/11
Blended Benchmark Returns	-5.60%	-3.88%	-1.50%	7.12%	-	8.34%	
Difference	0.28%	0.36%	0.49%	0.24%	-	0.07%	
Passive Moderate Growth Portfolio	-3.13%	-1.98%	-0.08%	4.65%	-	5.65%	11/08/11
Blended Benchmark Returns	-3.13%	-1.99%	-0.09%	4.59%	-	5.70%	
Difference	0.00%	0.01%	0.01%	0.06%	-	-0.05%	
Passive Conservative Portfolio	0.19%	0.57%	1.24%	0.96%	-	1.48%	11/04/11
Blended Benchmark Returns	0.10%	0.25%	0.86%	0.63%	-	1.19%	
Difference	0.09%	0.32%	0.38%	0.33%	-	0.29%	
Index International Equity Portfolio	-11.18%	-5.96%	-9.89%	3.82%	-	4.42%	11/04/11
Blended Benchmark Returns Difference	-11.76%	-7.32%	-10.79% 0.90%	3.44%	-	4.17%	
	0.58%	1.36%		0.38%	-	0.25%	44/00/44
Passive Diversified Fixed Income Portfolio	0.28%	0.46%	1.59%	1.00%	-	2.14%	11/08/11
Blended Benchmark Returns Difference	0.19% 0.09%	0.47% -0.01%	1.69% -0.10%	1.20% -0.20%	-	2.38% -0.24%	
Passive Single Fund Investment Portfolios	0.0976	-0.0176	-0.1078	-0.2076	-	-0.2470	
Index Bond Portfolio	1.30%	1.11%	2.93%	1.51%	-	2.23%	11/04/11
Benchmark Returns	1.23%	1.13%	2.94%	1.71%	-	2.50%	
Difference	0.07%	-0.02%	-0.01%	-0.20%	-	-0.27%	
Index U.S. Large Cap Equity Portfolio	-6.43%	-5.31%	-0.66%	12.26%	-	13.82%	11/04/11
Benchmark Returns	-6.44%	-5.29%	-0.61%	12.40%	-	13.97%	
Difference	0.01%	-0.02%	-0.05%	-0.14%	-	-0.15%	
Index U.S. Equity Portfolio	-7.19%	-5.43%	-0.48%	12.40%	-	13.73%	11/04/11
Benchmark Returns	-7.25%	-5.45%	-0.49%	12.53%	-	13.86%	
Difference	0.06%	0.02%	0.01%	-0.13%	-	-0.13%	

^{*} Returns are net of most recent weighted average Underlying Fund Fees and Program Management Fees (5 bps) for the quarter, as well as State Administrative Fees (5 bps) before 11/12/13.
**There is a guaranteed crediting rate of 1.00% for the TC Life Funding Agreement in the Passive Age-Based Portfolio.

ScholarShare College Savings Plan Performance Summary Passively Managed Portfolios Asset Allocation, Fees, and Performance Q3 2015

Investment Portfolios

Passive Age-Based Portfolio Age of Beneficiary	Q3 Portfolio Return	Q3 Blended Benchmk Return	Annual Asset Based Fees (bp)*	TIAA-CREF Equity Index Fund	TIAA-CREF International Equity Index Fund	TIAA-CREF Emerging Markets Equity Index Fund	TIAA-CREF Real Estate Securities Fund	TIAA-CREF Bond Index Fund	TIAA-CREF Inflation- Linked Bond Fund	TIAA-CREF High Yield Fund	T-C Life Funding Agreement
Underlying Fund Expenses (bp)				5	6	23	52	12	26	36	0
0 - 4	-6.25%	-6.42%	16	50.40%	19.20%	4.80%	5.60%	14.00%	4.00%	2.00%	0.00%
5 - 8	-5.39%	-5.60%	17	44.10%	16.80%	4.20%	4.90%	21.00%	6.00%	3.00%	0.00%
9 - 10	-4.53%	-4.78%	18	37.80%	14.40%	3.60%	4.20%	28.00%	8.00%	4.00%	0.00%
11 - 12	-3.90%	-3.96%	19	31.50%	12.00%	3.00%	3.50%	35.00%	10.00%	5.00%	0.00%
13 - 14	-3.04%	-3.13%	19	25.20%	9.60%	2.40%	2.80%	42.00%	12.00%	6.00%	0.00%
15	-2.28%	-2.32%	18	18.90%	7.20%	1.80%	2.10%	42.00%	12.00%	6.00%	10.00%
16	-1.92%	-1.92%	17	15.75%	6.00%	1.50%	1.75%	38.50%	11.00%	5.50%	20.00%
17	-1.63%	-1.54%	15	12.60%	4.80%	1.20%	1.40%	31.50%	9.00%	4.50%	35.00%
40.	-1.15%	-1.15%	13	9.45%	3.60%	0.90%	1.05%	24.50%	7.00%	3.50%	50.00%
18 + Fund's Performance vs Benchmk Q3 2015 (bp)				4	27	56	140	8	36	(28)	24

Passive Multi-Fund Investment Portfolios

Passive Diversified Equity Portfolio	-7.76%	-8.06%	15	63.00%	24.00%	6.00%	7.00%				
Passive Growth Portfolio	-5.32%	-5.60%	17	44.10%	16.80%	4.20%	4.90%	21.00%	6.00%	3.00%	
Passive Moderate Growth Portfolio	-3.13%	-3.13%	19	25.20%	9.60%	2.40%	2.80%	42.00%	12.00%	6.00%	
Passive Diversified Fixed Income Portfolio	0.28%	0.19%	23					70.00%	20.00%	10.00%	
Passive Conservative Portfolio	0.19%	0.10%	14					35.00%	10.00%	5.00%	50.00%
Index International Equity Portfolio	-11.18%	-11.76%	14		80.00%	20.00%					
Fund's Performance vs Benchmk Q3 2015 (bp)				4	27	56	140	8	36	(28)	24

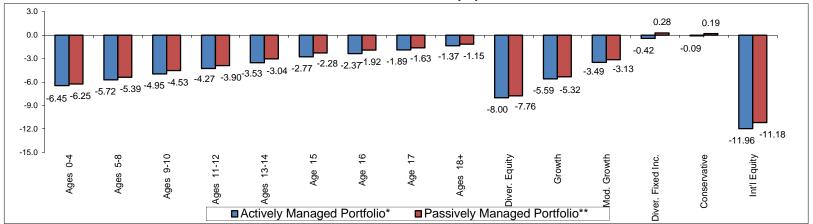
Passive Single Fund Investment Portfolios

Investment Portfolios	Q3 Portfolio Return	Q3 Blended Benchmk Return	Annual Asset Based Fees (bp)*	Percent Allocation	Underlying Mutual Fund	Fund's Performance vs Benchmk Q3 2015 (bp)
Index Bond Portfolio	1.30%	1.23%	17	100.00%	TIAA-CREF Bond Index Fund	8
Index U.S. Large Cap Equity Portfolio	-6.43%	-6.44%	11	100.00%	TIAA-CREF S&P 500 Index Fund	1
Index U.S. Equity Portfolio	-7.19%	-7.25%	10	100.00%	TIAA-CREF Equity Index Fund	4

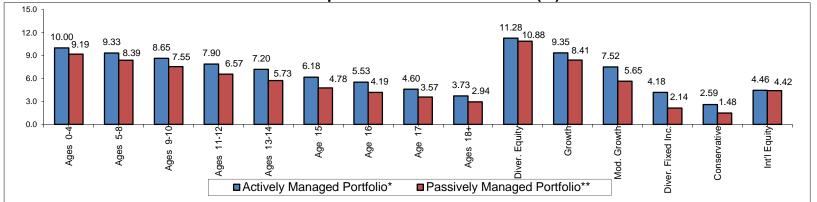
^{*} Asset Based Fees include most recent weighted average Underlying Fund Fees and Program Management Fees (5 bps).

Actively Managed Portfolios vs. Passively Managed Portfolios

Q3 2015 Returns (%)



Since Inception Returns as of 9/30/15 (%)



^{*} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees (5 bps), and State Administrative Fees (5 bps).

- In Q3, all Actively Managed Portfolios underperformed the Passively Managed Portfolios. A few underlying funds in the
 Active Portfolios underperformed their benchmark, which resulted in lower returns for these portfolios compared to their
 passive counterparts.
- For example, the PIMCO Income Fund underperformed by a fairly wide margin, while the TIAA-CREF Bond Index Fund generated returns that slightly outperformed its respective benchmark.
- Since Inception returns continue to favor the Actively Managed Portfolios across the board.

^{**} Returns are net of most recent weighted average Underlying Fund Fees, Program Management Fees (5 bps), and State Administrative Fees (5 bps) before 11/12/13.

ScholarShare College Savings Plan Performance Summary

Underlying Funds vs. Benchmarks For the Period Ending 9/30/2015

				Average Annual T	otal Return		_
	3 Month	YTD	1 Year	3 Year	5 Year	Life	Fund Incept. Date
TIAA-CREF FUNDS							
T-C Bond Index Fund	1.31%	1.19%	2.96%	1.58%	2.94%	3.80%	09/14/2009
Barclays Capital U.S. Aggregate Bond Index	1.23%	1.13%	2.94%	1.71%	3.10%	4.00%)
Difference	0.08%	0.06%	0.02%	-0.13%	-0.16%	-0.20%	.
T-C Bond Plus Fund	0.45%	1.27%	2.52%	2.48%	4.07%	4.96%	3/31/2006
Barclays Capital U.S. Aggregate Bond Index	1.23%	1.13%	2.94%	1.71%	3.10%	4.89%	
Difference	-0.78%	0.14%	-0.42%	0.77%	0.97%	0.07%	•
T-C Emerging Markets Equity Index Fund*	-17.34%	-14.65%	-18.64%	-5.24%	-3.82%	-1.90%	08/31/2010
MSCI Emerging Markets® Index	-17.90%	-15.47%	-19.28%	-5.27%	-3.58%	-1.50%	
Difference	0.56%	0.82%	0.64%	0.03%	-0.24%	-0.40%	
T-C Equity Index Fund Russell 3000 Index	-7.21% -7.25%	-5.42%	-0.48%	12.49%	13.23%	4.49%	
Difference	-7.25% 0.04%	-5.45% 0.03%	-0.49% 0.01%	12.54% -0.05%	13.28% -0.05%	4.57% -0.08 %	
T-C High Yield Bond Fund	-4.56%	-1.94%	-2.62%	3.25%	5.83%	6.80%	
Merrill Lynch BB/B Cash Pay Index	-4.28%	-1.71%	-2.07%	3.69%	5.99%	6.66%	
Difference	-0.28%	-0.23%	-0.55%	-0.44%	-0.16%	0.14%)
T-C Inflation-Linked Bond Fund	-0.79%	-0.79%	-0.87%	-1.99%	2.30%	4.40%	
Barclays Capital U.S. TIPS Index	-1.15%	-0.80%	-0.83%	-1.83%	2.55%	4.66%	
Difference	0.36%	0.01%	-0.04%	-0.16%	-0.25%	-0.26%	
T-C International Equity Index Fund*	-9.96%	-4.07%	-7.97%	5.96%	4.25%	7.65%	10/01/2002
MSCI EAFE Index	-10.23%	-5.28%	-8.66%	5.64%	3.98%	7.59%	
Difference	0.27%	1.21%	0.69%	0.32%	0.27%	0.06%	•
T-C Real Estate Securities Fund	2.39%	-2.27%	11.56%	9.14%	12.07%	10.74%	10/01/2002
FTSE NAREIT Equity Index	0.99%	-4.51%	7.84%	9.05%	11.86%	10.94%	
Difference	1.40%	2.24%	3.72%	0.09%	0.21%	-0.20%	
T-C S&P 500 Index Fund	-6.43%	-5.29%	-0.63%	12.34%	13.25%	8.60%	10/01/2002
S&P 500 Index	-6.44%	-5.29%	-0.61%	12.41%	13.34%	8.68%	
Difference	0.01%	0.00%	-0.02%	-0.07%	-0.09%	-0.08%	
T-C Small Cap Equity Fund	-9.21%	-4.05%	4.58%	13.28%	12.71%	10.50%	
Russell 2000 Index	-11.92%	-7.73%	1.25%	11.03%	11.74%	10.24%	
Difference	2.71%	3.68%	3.33%	2.25%	0.97%	0.26%	
T-C Social Choice Equity Fund	-7.24%	-7.63%	-3.88%	11.95%	11.86%	4.27%	
Russell 3000 Index Difference	-7.25% 0.01%	-5.45% -2.18%	-0.49% -3.39%	12.54% -0.59%	13.28% -1.42%	4.57% -0.30 %	
DFA FUNDS	0.01%	-2.10%	-3.3976	-0.59%	-1.4270	-0.3076)
DFA Emerging Markets Core Equity Portfolio*	-16.62%	-14.68%	-18.68%	-4.10%	-3.28%	6.58%	04/05/2005
MSCI Emerging Markets® Index	-17.90%	-15.47%	-19.28%	-5.27%	-3.58%	6.07%	
Difference	1.28%	0.79%	0.60%	1.17%	0.30%	0.51%	
	-10.70%	-5.82%	-9.84%	4.80%	3.56%	5.31%	
DFA Large Cap International Portfolio* MSCI World Ex US Index	-10.70%	-5.82% -6.69%	-9.84% -10.14%	4.60%	3.42%	5.41%	
Difference	-0.13%	0.87%	0.30%	0.20%	0.14%	-0.10%	
PIMCO FUNDS	-0.13 //	0.07 /6	0.30 /6	0.2076	0.1470	-0.10 /)
PIMCO Income Fund	-0.85%	2.10%	2.02%	6.02%	8.60%	9.29%	03/30/2007
Barclays Capital U.S. Aggregate Bond Index	1.23%	1.13%	2.94%	1.71%	3.10%	4.69%	
Difference	-2.08%	0.97%	-0.92%	4.31%	5.50%	4.60%	
PIMCO Real Return Fund	-1.81%	-1.95%	-2.65%	-2.34%	2.17%	6.19%	01/29/1997
Barclays Capital U.S. TIPS Index Difference	-1.15% -0.66%	-0.80% -1.15%	-0.83% -1.82%	-1.83% -0.51%	2.55% -0.38%	-	•
T. ROWE PRICE FUNDS	-0.00%	-1.13%	-1.0270	-0.51%	-0.30%		
	0.000/	0.470/	0.540/	2.00%	4.540/	E 420/	04/24/2000
T. Rowe Price Instl Floating Rate Fund S&P/LSTA Performing Loan Index	-0.69% -0.96%	2.47% 2.18%	2.51% 1.88%	3.66% 3.60%	4.51% 4.77%	5.43% 5.46%	
Difference	0.27%	0.29%	0.63%	0.06%	-0.26%	-0.03%	
T. Rowe Price Instl Large Cap Growth Fund	-4.86%	1.16%	5.80%	16.49%	15.63%	8.68%	
Russell 1000 Growth Index	-5.29%	-1.54%	3.17%	13.62%	14.48%	6.56%	
Difference	0.43%	2.70%	2.63%	2.87%	1.15%	2.12%	•
T. Rowe Price Instl Large Cap Value Fund	-9.14%	-10.19%	-6.24%	11.58%	11.88%	7.20%	3/31/2000
Russell 1000 Value Index	-8.39%	-8.96%	-4.42%	11.60%	12.29%	5.73%	
Difference	-0.75%	-1.23%	-1.82%	-0.02%	-0.41%	1.47%	•

^{*} For funds holding securities traded on foreign exchange that close before the U.S. market, fair value pricing creates tracking error relative to a benchmark index that uses foreign closing prices.

The results of our approach speak for themselves

Pensions & Investments

- One of the largest managers of equity assets based on institutional tax-exempt assets under management¹
- One of the largest managers of fixed income assets based on institutional tax-exempt assets under management¹
- The largest manager of U.S. tax exempt real estate assets²

Morningstar

- 69% of TIAA-CREF's Funds and Variable Annuity Accounts received an overall Morningstar rating of 4 or 5 stars (33.78% 4 stars and 35.14% 5 stars as of September 30, 2015) 3,4
- 97% of TIAA-CREF Funds and Variable Annuity Accounts received a Morningstar overall rating of 3-, 4-, or 5-stars across all asset classes (28.38% have 3 stars, 33.78% have 4 stars and 35.14% have 5 stars as of September 30, 2015) ^{3,4}

Barron's/Lipper

- In the five-year overall ranking, TIAA-CREF ranked 8th out of 56 mutual fund families in the 2014 Fund family rankings based on asset-weighted performance.⁵
- Overall, in the 2014 one-year Fund Family performance rankings, TIAA-CREF came in at 28th out of 65 mutual fund families, down from 13th in 2013, 10th in 2012, 13th in 2011, and 21st in 2010, but higher than 48th in 2009 and 30th in 2008.
- Awarded the 2015, 2014 and 2013 Best Overall Large Fund Company United States based on risk-adjusted performance out of 48, 48 and 36 companies.⁶



- 1. Pensions & Investments, May 18, 2015. Rankings based on institutional tax-exempt assets under management as of December 31, 2014 reported by each responding asset manager.
- 2. Pensions & Investments, October 27, 2014. Rankings based on institutional tax-exempt assets under management as of June 30, 2014 as reported by each responding asset manager.
- 3. Morningstar ratings based on the lowest cost share class for each mutual fund, based on U.S. open end mutual funds; CREF Variable Accounts; and the Life Funds. For a fund or account with multiple share classes and the same pricing, the share class with the longest performance history is used. Please note Morningstar rates CREF group variable annuities within the open end mutual fund universe. Morningstar ratings may be higher or lower on a monthly basis. Morningstar is an independent service that rates mutual funds. The top 10% of funds or accounts in an investment category receive five stars, the next 22.5% receive four stars and the next 35% receive three stars. Morningstar proprietary ratings reflect historical risk-adjusted performance and can change every month. They are calculated from the fund or account's three-, five- and ten-year average annual returns in excess of 90-day Treasury bill returns with appropriate fee adjustments, and a risk factor that reflects fund or account performance below 90-day T-bill returns. The overall star ratings are Morningstar's published ratings, which are weighted averages of its three-, five- and ten-year ratings for periods ended September 30, 2015. Past performance cannot guarantee future results. For current performance and rankings, please visit www.tiaa-cref.org/public/tcfpi/InvestResearch.
- 4. Please note variable annuity account options are available through contracts issued by TIAA or CREF. These contracts are designed for retirement or other long-term goals, and offer a variety of income options, including lifetime income. Payments from the variable annuity accounts are not guaranteed and will rise or fall based on investment performance.
 - TIAA-CREF ranked #13 among 64 fund families in 2013, #10 among 62 fund families in 2012, #13 among 58 fund families in 2011. The Lipper/Barron's Fund Family survey uses an asset-weighted ranking system. Each fund's return was measured against all those in its Lipper category, and the resulting percentile ranking was then weighted by asset size relative to the fund family's other assets in its general category. The family's overall ranking was then determined by weighting the five fund categories in proportion to their overall importance within Lipper's fund universe. In the five-year overall ranking, TIAA-CREF is ranked 19th out of 55 mutual fund families in 2013, 29th out of 53 mutual fund families in 2012 and 2011. TIAA-CREF does not qualify for the 10-year ranking.

The Lipper Award is given to the group with the lowest average decile ranking of three years' Consistent Return for eligible funds over the three-year period ended 11/30/12, 11/30/13 and 11/30/14 respectively. TIAA-CREF was ranked among 36 fund companies in 2012 and 48 fund companies in 2013 and 2014 with at least five equity, five bond, or three mixed-asset portfolios. Past performance does not guarantee future results. For current performance and rankings, please visit the Research and Performance section on tiaa-cref.org



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3Q 2015

SCHOLARSHARE COLLEGE SAVINGS PLAN

INVESTMENT PERFORMANCE STATUS REPORT



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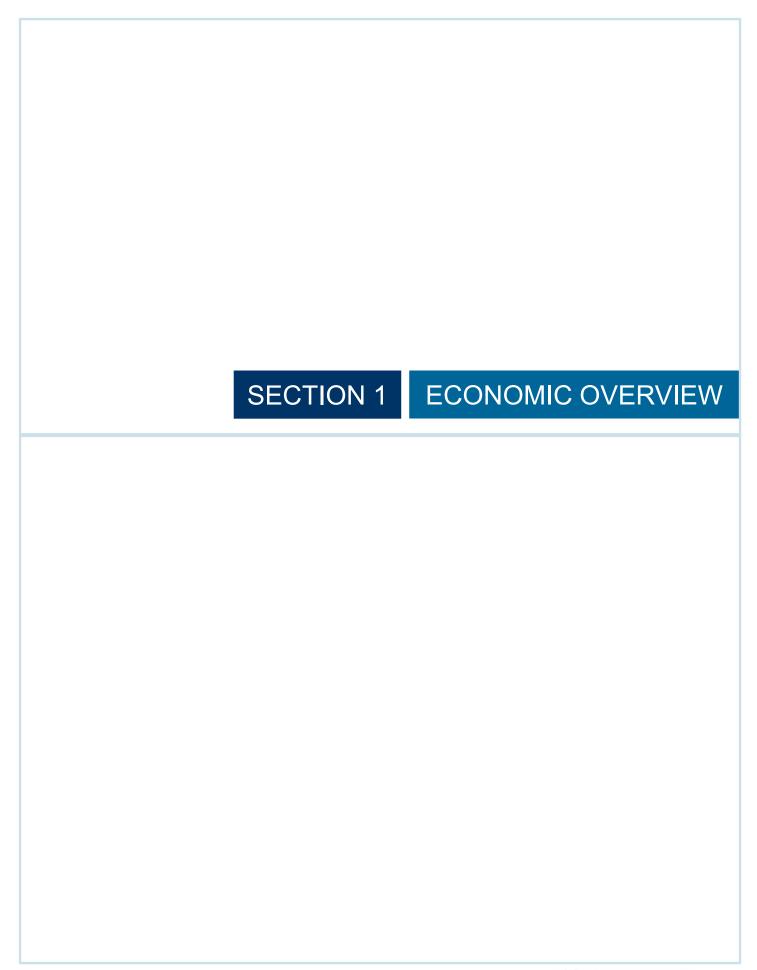
Nothing herein is intended to serve as investment advice, a recommendation of any particular investment or type of investment, a suggestion of the merits of purchasing or selling securities, or an invitation or inducement to engage in investment activity.

AGENDA

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TAKEAWAYS

- Each of the Plan's age-based portfolios posted negative absolute returns as of the latest quarter end. For the period, most of the Plan's actively managed age-based portfolios underperformed their respective benchmarks, while most of the Plan's passively managed portfolios tracked or exceeded their respective benchmarks.
- Over the recent quarter, equity markets experienced their largest declines in four years as a China-led global economic slowdown had a major effect on domestic and international equity markets. This was especially reflected in the double-digit negative returns posted by the DFA and TIAA-CREF International Equity and Emerging Markets Equity funds held in the Plan. Results for earlier age-bands with larger allocations to equities were heavily affected.
- The Core Fixed Income market was a bright spot as returns remained positive for the quarter. The Fed's decision to not raise interest rates at their September meeting ignited a rally in the U.S. Treasury market. This helped the results for later-age bands with larger allocations to fixed income but not enough to offset the negative returns generated by equities.
- Real Estate remained positive over the quarter, leading to double-digit gains for the TIAA-CREF Real Estate fund over the last 12-month period.
- Interest rate risk remains high.

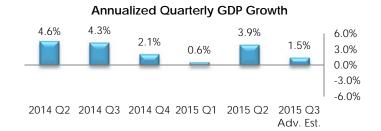




Overview: US GDP growth for the third quarter (advanced estimate) has slowed since the second quarter falling from 3.9% to 1.5%. GDP growth during the third quarter was driven mostly by consumer spending in healthcare, which was partly offset by a decrease in private inventory investments. The unemployment rate dropped to 5.1% as of the quarter end, continuing its downward trend over the last 2+ years. After the Consumer Price Index for All Urban Consumers posted its largest quarterly increase since the third quarter of 2012 last quarter, it has decreased by (0.4%) during this quarter. Commodities returned to their downward trend, decreasing by (14.5%) after increasing by 4.7% in the second quarter. The US dollar depreciated against the Yen and the Euro this quarter, while appreciating against the British pound. After posting slightly positive returns last quarter, US Equities floundered in the third quarter. Global Equities performed poorly during the quarter as both international developed and emerging market equities produced double digit negative returns. The BC Universal Index returned 0.7% during the quarter and continued its positive year-to-date performance at 2.3%.

Economic Growth

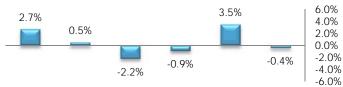
- Real GDP increased at an annualized rate of 1.5 percent in the second quarter of 2015 after increasing at an annualized rate of 3.9 percent in the second quarter of 2015.
- An increase in consumer spending on health care and the continued rise of spending on durable and nondurable goods had the largest impact on GDP.
- State and local government spending, business investment, exports and residential investment also contributed to an increase in GDP during the quarter.



Inflation

- The Consumer Price Index for All Urban Consumers (CPI-U) decreased by 0.4 percent in the quarter on an annualized basis after seasonal adjustment.
- Quarterly percent changes may be adjusted between data publications due to periodic updates in seasonal factors.
- Core CPI-U increased by 1.7 percent for the quarter on an annualized basis.
- Over the last 12 months, core CPI-U increased 1.9 percent after seasonal adjustment.

CPI-U After Seasonal Adjustment



2014 Q2 2014 Q3 2014 Q4 2015 Q1 2015 Q2 2015 Q3

Unemployment

- The US economy gained approximately 538,000 jobs in the quarter.
- The unemployment rate dropped to 5.1% at quarter end.
- The majority of jobs gained occurred in professional and business services, health care, retail, and food services and drinking places.

Unemployment Rate

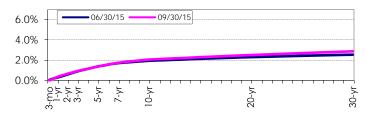




Interest Rates & US Dollar

- US Treasury yields rose on average over the quarter.
- The Federal Reserve has maintained the federal funds rate between 0.00 percent and 0.25 percent since December 2008.
- The US dollar appreciated against the British Pound by 3.7%, while depreciating against the Euro and Yen by (0.3%) and (2.1%), respectively.

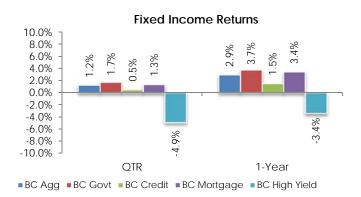
Treasury Yield Curve Changes



Source: US Treasury Department

Fixed Income

- US bond markets delivered positive returns for the quarter with the exception of high yield, which had a return of minus (4.9%).
- High yield produced a second consecutive negative quarterly return as it continued to trail all other bond sectors. Governments and Mortgage performed favorably with returns of 3.7% and 3.4% over the trailing 1-year period.



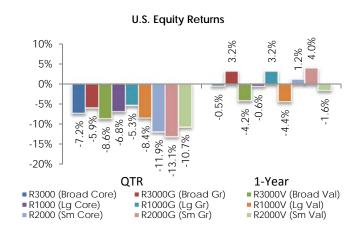
US Fixed Income Sector Performance (BC Aggregate Index)					
Sector	Weight	QTR	1 Year		
Governments*	40.6%	1.7%	3.7%		
Agencies	4.5%	1.0%	2.9%		
Inv. Grade Credit	24.0%	0.5%	1.5%		
MBS	28.4%	1.3%	3.4%		
ABS	0.6%	0.7%	2.4%		
CMBS	1.9%	1.5%	3.7%		

*US Treasuries and Government Related



US Equities

- During the quarter large cap stocks outperformed small cap stocks.
- During the 1-year period, growth outperformed value stocks across all market capitalizations. Small cap growth stocks performed the best over the 1-year period but also had the worst overall performance for the quarter.



US Equity Sector Performance (Russell 3000 Index)						
Sector	Weight QTR 1 Year					
Information Tech.	19.5%	-4.8%	2.3%			
Financials	18.2%	-6.0%	1.7%			
Health Care	14.3%	-11.6%	6.9%			
Consumer Disc.	13.7%	-4.2%	10.7%			
Industrials	10.7%	-8.1%	-3.8%			
Consumer Staples	8.7%	-0.9%	7.0%			
Energy	6.3%	-19.0%	-32.5%			
Utilities	3.2%	4.2%	5.3%			
Materials	3.1%	-17.3%	-17.9%			
Telecomm. Serv.	2.2%	-17.3%	-17.9%			

International Equities

- Poor performance in both emerging and developed markets during the third quarter resulted in double digit negative performance for the MSCI ACWI ex-U.S. Index.
- One year returns were negative across all international equities.



■ MSCI ACW Ex U.S.	MSCI EAFE	MSCI Europe	■ MSCI Pacific ■ MSCI EM
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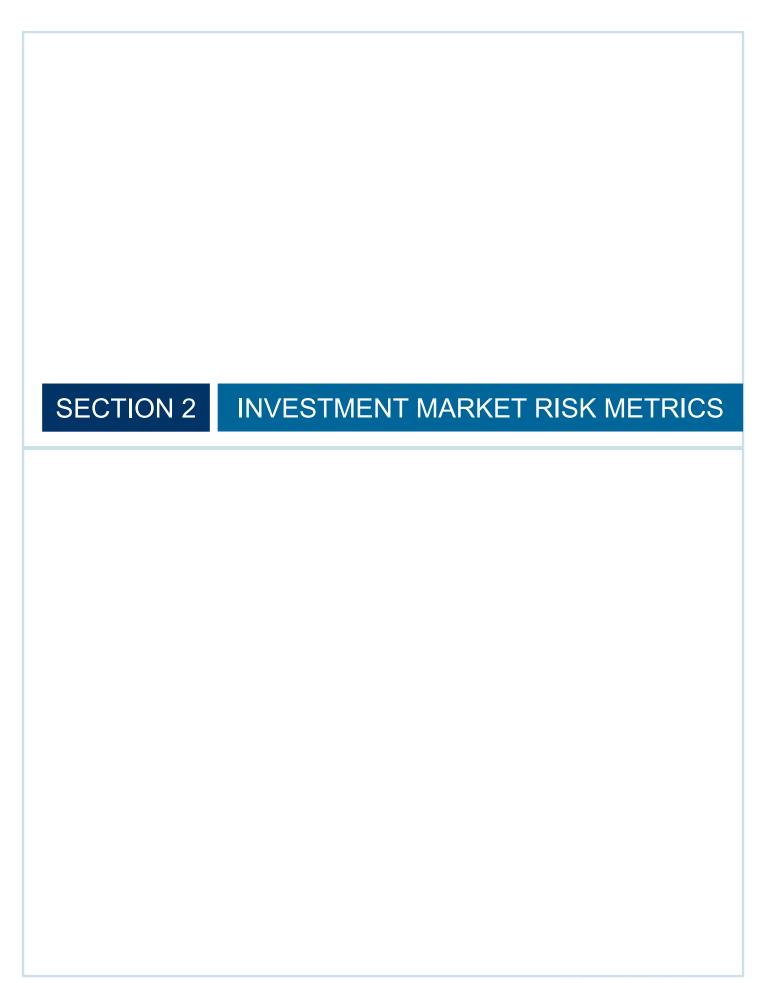
International Equity Region Performance (in USD) (MSCI ACW Index ex US)					
Sector	Weight	QTR	1 Year		
Europe Ex. UK	33.5%	-8.1%	-7.3%		
Emerging Markets	20.6%	-17.8%	-19.0%		
Japan	16.5%	-11.7%	-1.9%		
United Kingdom	14.9%	-10.0%	-12.1%		
Pacific Ex. Japan	8.0%	-15.9%	-16.7%		
Canada	6.5%	-14.0%	-23.4%		



<u>Market Summary – Long-term Performance*</u>

Indexes	Quarter	1 Year	3 Year	5 Year	10 Year	20 Year
Global Equity						
MSCI All Country World	-9.3%	-6.2%	7.5%	7.4%	5.1%	6.3%
Domestic Equity						
S&P 500	-6.4%	-0.6%	12.4%	13.3%	6.8%	8.1%
Russell 3000	-7.2%	-0.5%	12.5%	13.3%	6.9%	8.2%
Russell 3000 Growth	-5.9%	3.2%	13.5%	14.4%	8.1%	7.3%
Russell 3000 Value	-8.6%	-4.2%	11.4%	12.1%	5.7%	8.6%
Russell 1000	-6.8%	-0.6%	12.7%	13.4%	7.0%	8.3%
Russell 1000 Growth	-5.3%	3.2%	13.6%	14.5%	8.1%	7.5%
Russell 1000 Value	-8.4%	-4.4%	11.6%	12.3%	5.7%	8.6%
Russell 2000	-11.9%	1.2%	11.0%	11.7%	6.5%	8.0%
Russell 2000 Growth	-13.1%	4.0%	12.8%	13.3%	7.7%	6.2%
Russell 2000 Value	-10.7%	-1.6%	9.2%	10.2%	5.3%	9.3%
CBOE BXM	-2.4%	0.4%	5.7%	7.3%	4.2%	7.3%
International Equity						
MSCI All Country World ex US	-12.1%	-11.8%	2.8%	2.3%	3.5%	5.0%
MSCI EAFE	-10.2%	-8.3%	6.1%	4.4%	3.4%	4.8%
MSCI Pacific	-13.1%	-7.3%	5.0%	3.7%	2.6%	1.8%
MSCI Europe	-8.7%	-8.8%	6.6%	4.9%	3.9%	6.9%
MSCI EM (Emerging Markets)	-17.8%	-19.0%	-4.9%	-3.2%	4.6%	5.4%
Fixed Income						
BC Universal Bond	0.7%	2.3%	1.9%	3.4%	4.8%	5.8%
BC Global Agg - Hedged	1.3%	3.1%	3.0%	3.5%	4.4%	5.7%
BC Aggregate Bond	1.2%	2.9%	1.7%	3.1%	4.6%	5.6%
BC Government	1.7%	3.7%	1.3%	2.5%	4.3%	5.3%
BC Credit Bond	0.5%	1.5%	2.0%	4.1%	5.3%	6.1%
BC Mortgage Backed Securities	1.3%	3.4%	2.0%	3.0%	4.7%	5.6%
BC High Yield Corporate Bond	-4.9%	-3.4%	3.5%	6.1%	7.3%	7.0%
BC WGILB - Hedged	0.0%	2.4%	1.5%	3.7%	4.4%	NA
BC Emerging Markets	-2.4%	-1.4%	1.3%	4.7%	6.9%	10.0%
Real Estate						
NCREIF (Private RE)	3.1%	13.5%	11.9%	12.6%	8.0%	9.8%
NAREIT (Public RE)	0.8%	7.4%	8.6%	11.7%	6.3%	10.2%
Commodity Index						
Bloomberg Commodity (formerly DJUBS)	-14.5%	-26.0%	-16.0%	-8.9%	-5.7%	1.9%
4 D C						

^{*} Performance is annualized for periods greater than one year.



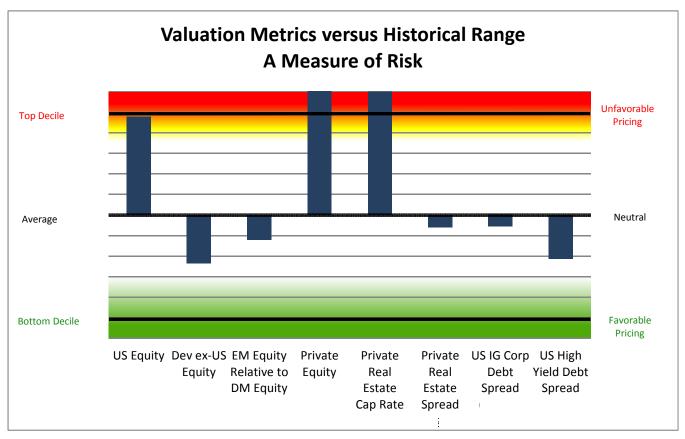
Takeaways

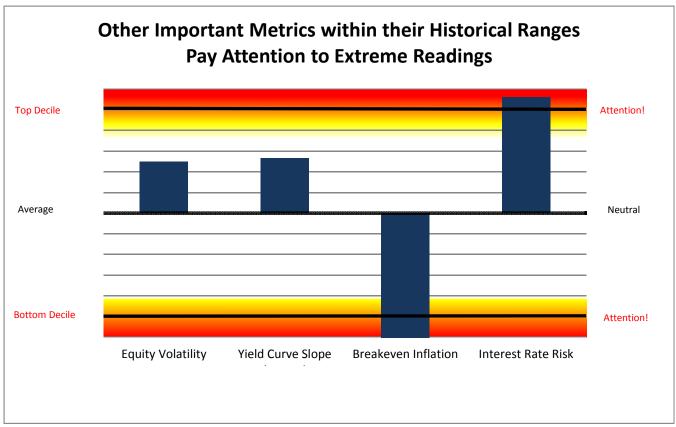
- Market growth concerns compounded as the Federal Reserve decided not to raise interest rates in September.
- The VIX settled down somewhat, averaging 24 in September, after hitting 40 in August. 24 is above the average reading of 20.
- U.S. public equity valuations dropped below top decile levels on price declines, while U.S. private equity and private real estate continue to register top decile valuation levels, albeit on lagging price measures.
- U.S. credit spreads widened further in September and Treasury interest rates fell, as growth concerns grew.
- International equity valuations fell further below their historical average valuation levels, cheap relative to U.S. valuation levels.
- Commodity prices continued their five-year <u>decline</u>, and 10-year breakeven inflation levels dropped below 1.4%, a level of anticipated inflation not seen since the 2008 global financial crisis.
- The PCA Market Sentiment Indicator flipped to negative at month end.
 The spread element of the indicator was negative since last year. Now, year-over-year equity returns have turned negative as well.
- While not a market timing indicator, should this negative reading be confirmed for a couple of months, client should consider this to be a less favorable growth environment.

¹See Appendix for the rationale for selection and calculation methodology used for the risk metrics.

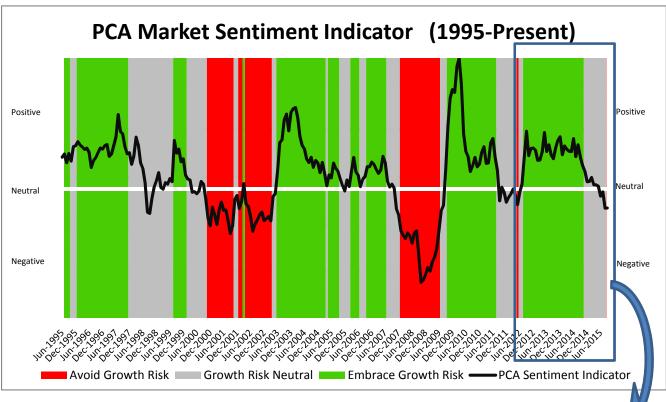


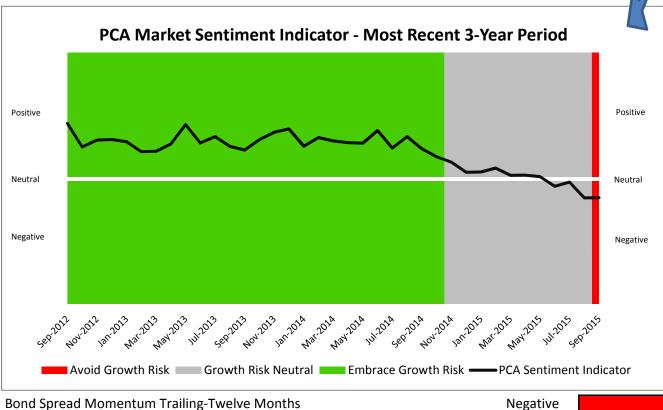
Risk Overview





Market Sentiment





PCA PCANGULTING

Negative

Negative

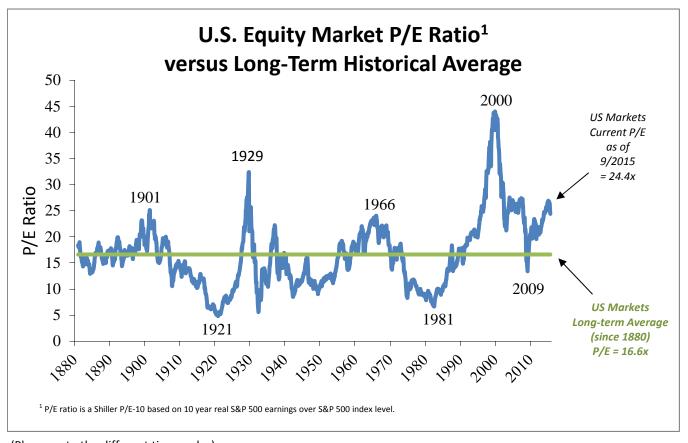
Agree

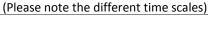
Equity Return Momentum Trailing-Twelve Months

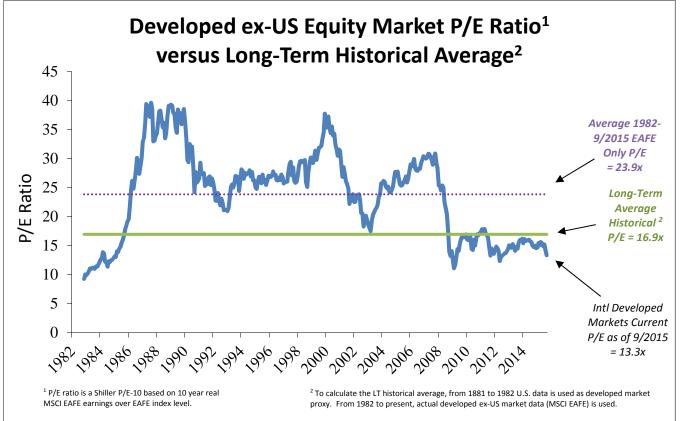
Agreement Between Bond Spread and Equity Spread Momentum Measures?

Growth Risk Visibility (Current Overall Sentiment)

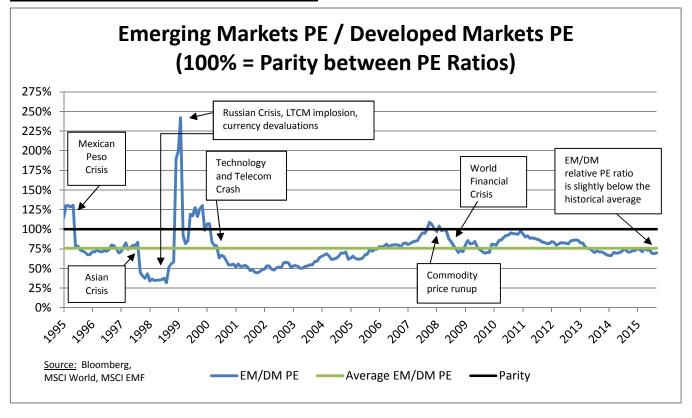
Developed Public Equity Markets





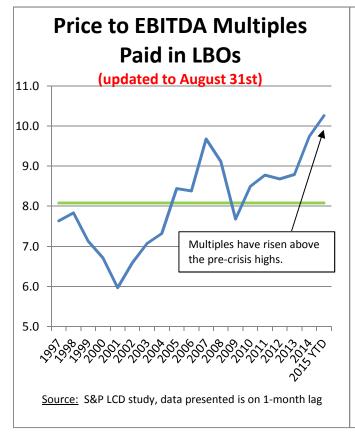


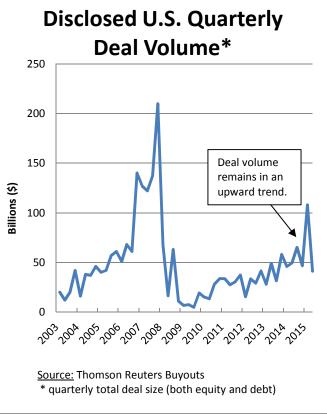
Emerging Market Public Equity Markets

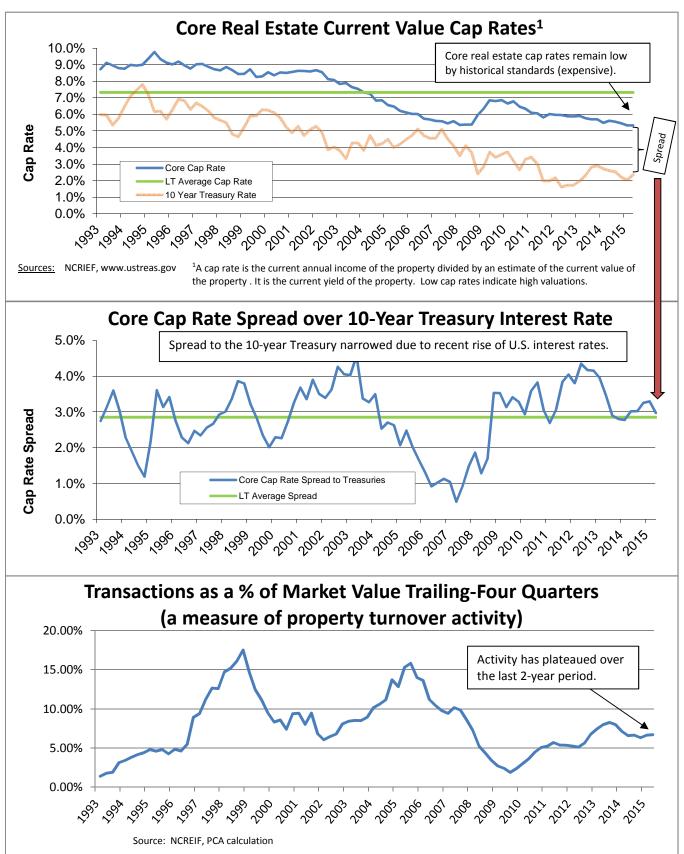


US Private Equity

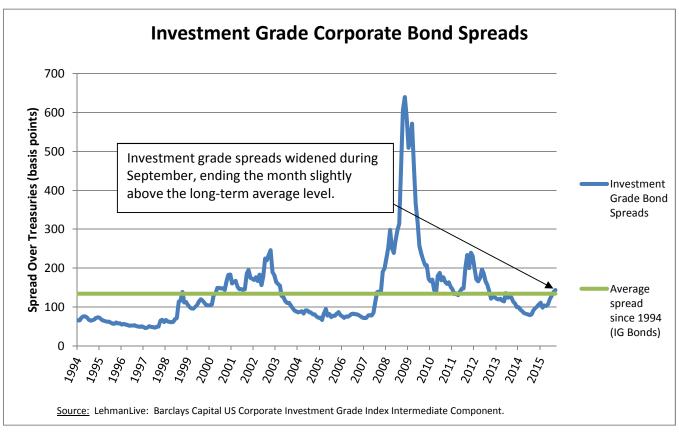
Quarterly Data, Updated to June 30th

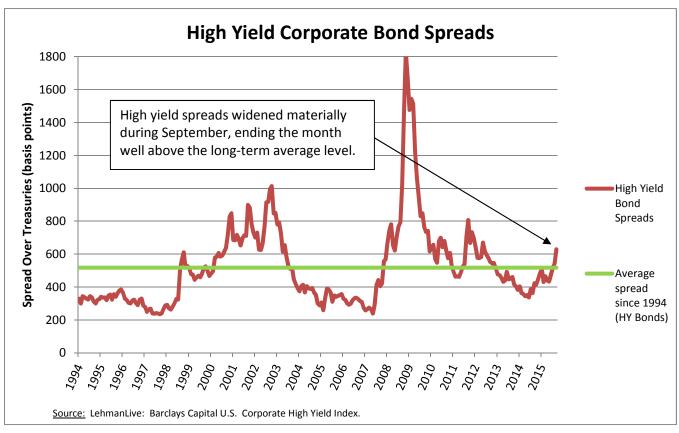




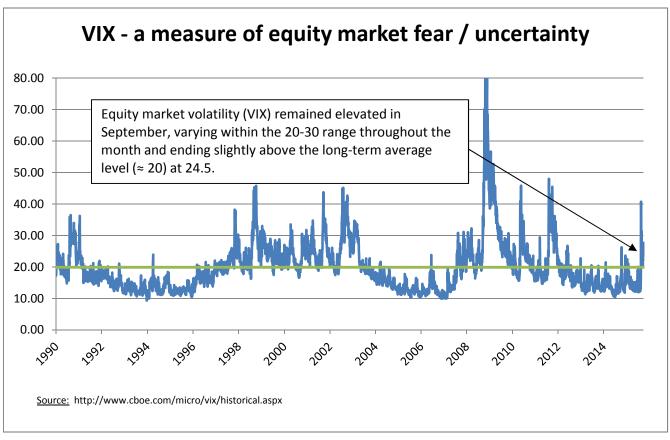


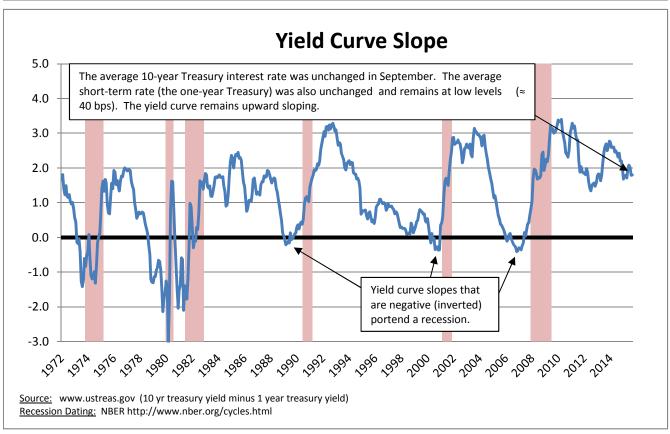
Credit Markets US Fixed Income



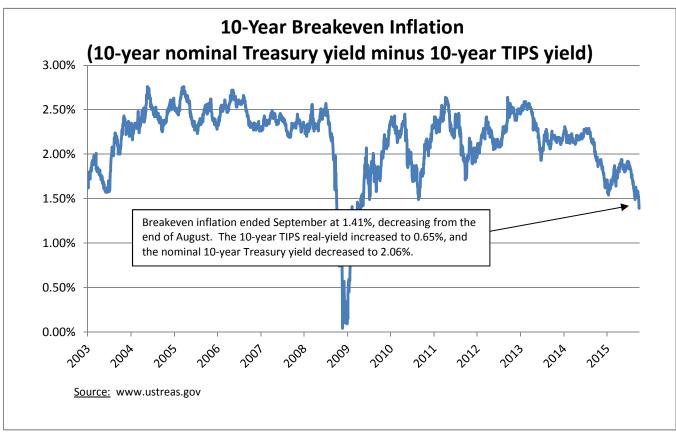


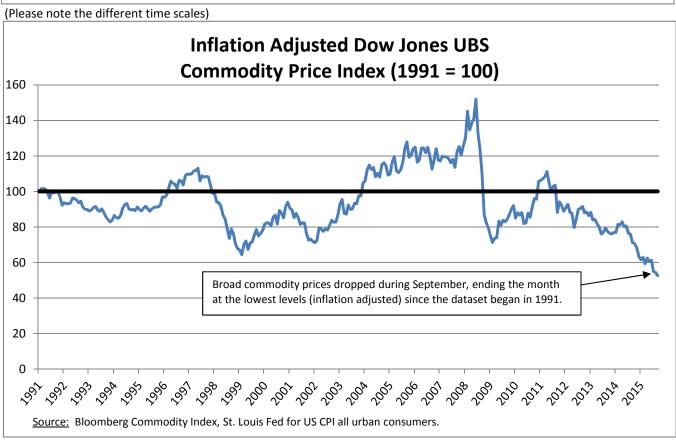
Other Market Metrics



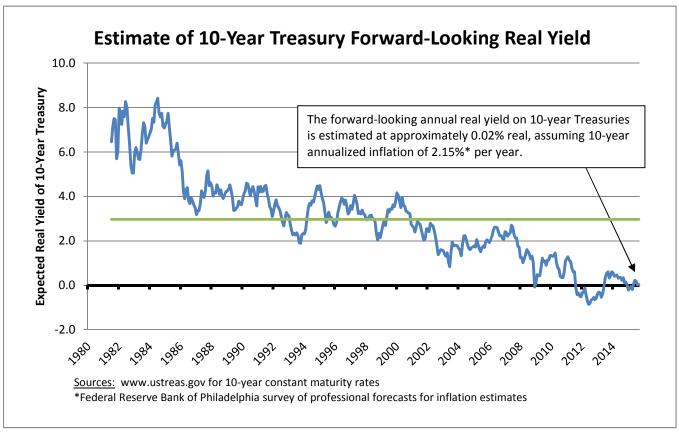


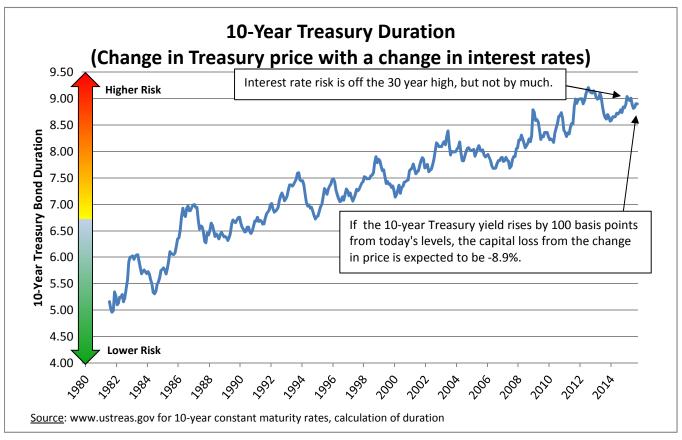
Measures of Inflation Expectations





Measures of U.S. Treasury Interest Rate Risk





Appendix

Appendix

METRIC DESCRIPTION. RATIONALE FOR SELECTION AND CALCULATION METHODOLOGY

US Equity Markets:

Metric: P/E ratio = Price / "Normalized" earnings for the S&P 500 Index

To represent the price of US equity markets, we have chosen the \$&P 500 index. This index has the longest published history of price, is well known, and also has reliable, long-term, published quarterly earnings. The price=P of the P/E ratio is the current price of the market index (the average daily price of the most recent full month for the \$&P 500 index). Equity markets are very volatile. Prices fluctuate significantly during normal times and extremely during periods of market stress or euphoria. Therefore, developing a measure of earnings power (E) which is stable is vitally important, if the measure is to provide insight. While equity prices can and do double, or get cut in half, real earnings power does not change nearly as much. Therefore, we have selected a well known measure of real, stable earnings power developed by Yale Professor Robert Shiller known as the Shiller E-10. The calculation of E-10 is simply the average real annual earnings over the past 10 years. Over 10 years, the earnings shenanigans and boom and bust levels of earnings tend to even out (and often times get restated). Therefore, this earnings statistic gives a reasonably stable, slow-to-change estimate of average real earnings power for the index. Professor Shiller's data and calculation of the E-10 are available on his website at http://www.econ.yale.edu/~shiller/data.htm. We have used his data as the base for our calculations. Details of the theoretical justification behind the measure can be found in his book *Irrational Exuberance* [Princeton University Press 2000, Broadway Books 2001, 2nd ed., 2005].

Developed Equity Markets Excluding the US:

Metric: P/E ratio = Price / "Normalized" earnings for the MSCI EAFE Index

To represent the price of non-US developed equity markets, we have chosen the MSCI EAFE index. This index has the longest published history of price for non-US developed equities. The price=P of the P/E ratio is the current price of the market index (the average daily price of the most recent full month for the MSCI EAFE index). The price level of this index is available starting in December 1969. Again, for the reasons described above, we elected to use the Shiller E-10 as our measure of earnings (E). Since 12/1972, a monthly price earnings ratio is available from MSCI. Using this quoted ratio, we have backed out the implied trailing-twelve month earnings of the EAFE index for each month from 12/1972 to the present. These annualized earnings are then inflation adjusted using CPI-U to represent real earnings in US dollar terms for each time period. The Shiller E-10 for the EAFE index (10 year average real earnings) is calculated in the same manner as detailed above.

However, we do not believe that the pricing and earnings history of the EAFE markets are long enough to be a reliable representation of pricing history for developed market equities outside of the US. Therefore, in constructing the Long-Term Average Historical P/E for developed ex-US equities for comparison purposes, we have elected to use the US equity market as a developed market proxy, from 1881 to 1982. This lowers the Long-Term Average Historical P/E considerably. We believe this methodology provides a more realistic historical comparison for a market with a relatively short history.

Appendix

METRIC DESCRIPTION, RATIONALE FOR SELECTION AND CALCULATION METHODOLOGY

Emerging Market Equity Markets:

Metric: Ratio of Emerging Market P/E Ratio to Developed Market P/E Ratio

To represent the Emerging Markets P/E Ratio, we have chosen the MSCI Emerging Market Free Index, which has P/E data back to January 1995 on Bloomberg. To represent the Developed Markets PE Ratio, we have chosen the MSCI World Index, which also has data back to January 1995 on Bloomberg. Although there are issues with published, single time period P/E ratios, in which the denominator effect can cause large movements, we feel that the information contained in such movements will alert investors to market activity that they will want to interpret.

US Private Equity Markets:

Metrics: S&P LCD Average EBITDA Multiples Paid in LBOs and US Quarterly Deal Volume

The Average Purchase Price to EBITDA multiples paid in LBOs is published quarterly by S&P in their LCD study. This is the total price paid (both equity and debt) over the trailing-twelve month EBITDA (earnings before interest, taxes, depreciation and amortization) as calculated by S&P LCD. This is the relevant, high-level pricing metric that private equity managers use in assessing deals. Data is published monthly.

US quarterly deal volume for private equity is the total deal volume in \$ billions (both equity and debt) reported in the quarter by Thomson Reuters Buyouts. This metric gives a measure of the level of activity in the market. Data is published quarterly.

U.S Private Real Estate Markets:

Metrics: US Cap Rates, Cap Rate Spreads, and Transactions as a % of Market Value

Real estate cap rates are a measure of the price paid in the market to acquire properties versus their annualized income generation before financing costs (NOI=net operating income). The data, published by NCREIF, describes completed and leased properties (core) on an unleveraged basis. We chose to use current value cap rates. These are capitalization rates from properties that were revalued during the quarter. This data relies on estimates of value and therefore tends to be lagging (estimated prices are slower to rise and slower to fall than transaction prices). The data is published quarterly.

Spreads between the cap rate (described above) and the 10-year nominal Treasury yield, indicate a measure of the cost of properties versus a current measure of the cost of financing.

Transactions as a % of Market Value Trailing-Four Quarters is a measure of property turnover activity in the NCREIF Universe. This quarterly metric is a measure of activity in the market.

Credit Markets US Fixed Income:

Metric: Spreads

The absolute level of spreads over treasuries and spread trends (widening / narrowing) are good indicators of credit risk in the fixed income markets. Spreads incorporate estimates of future default, but can also be driven by technical dislocations in the fixed income markets. Abnormally narrow spreads (relative to historical levels) indicate higher levels of valuation risk, wide spreads indicate lower levels of valuation risk and / or elevated default fears. Investment grade bond spreads are represented by the Barclays Capital US Corporate Investment Grade Index Intermediate Component. The high yield corporate bond spreads are represented by the Barclays Capital US Corporate High Yield Index.

Appendix

METRIC DESCRIPTION. RATIONALE FOR SELECTION AND CALCULATION METHODOLOGY

Measure of Equity Market Fear / Uncertainty

Metric: VIX - Measure of implied option volatility for U.S. equity markets

The VIX is a key measure of near-term volatility conveyed by implied volatility of S&P 500 index option prices. VIX increases with uncertainty and fear. Stocks and the VIX are negatively correlated. Volatility tends to spike when equity markets fall.

Measure of Monetary Policy

Metric: Yield Curve Slope

We calculate the yield curve slope as the 10 year treasury yield minus the 1 year treasury yield. When the yield curve slope is zero or negative, this is a signal to pay attention. A negative yield curve slope signals lower rates in the future, caused by a contraction in economic activity. Recessions are typically preceded by an inverted (negatively sloped) yield curve. A very steep yield curve (2 or greater) indicates a large difference between shorter-term interest rates (the 1 year rate) and longer-term rates (the 10 year rate). This can signal expansion in economic activity in the future, or merely higher future interest rates.

Measures of US Inflation Expectations

Metrics: Breakeven Inflation and Inflation Adjusted Commodity Prices

Inflation is a very important indicator impacting all assets and financial instruments. Breakeven inflation is calculated as the 10 year nominal treasury yield minus the 10 year real yield on US TIPS (treasury inflation protected securities). Abnormally low long-term inflation expectations are indicative of deflationary fears. A rapid rise in breakeven inflation indicates an acceleration in inflationary expectations as market participants sell nominal treasuries and buy TIPs. If breakeven inflation continues to rise quarter over quarter, this is a signal of inflationary worries rising, which may cause Fed action and / or dollar decline. Commodity price movement (above the rate of inflation) is an indication of anticipated inflation caused

Commodity price movement (above the rate of inflation) is an indication of anticipated inflation caused by real global economic activity putting pressure on resource prices. We calculate this metric by adjusted in the Dow Jones UBS Commodity Index (formerly Dow Jones AIG Commodity Index) by US CPI-U. While rising commodity prices will not necessarily translate to higher US inflation, higher US inflation will likely show up in higher commodity prices, particularly if world economic activity is robust.

These two measures of anticipated inflation can, and often are, conflicting.

<u>Measures of US Treasury Bond Interest Rate Risk</u>

Metrics: 10-Year Treasury Forward-Looking Real Yield and 10-Year Treasury Duration

The expected annualized real yield of the 10 year U.S. Treasury Bond is a measure of valuation risk for U.S. Treasuries. A low real yield means investors will accept a low rate of expected return for the certainly of receiving their nominal cash flows. PCA estimates the expected annualized real yield by subtracting an estimate of expected 10 year inflation (produced by the Survey of Professional Forecasters as collected by the Federal Reserve Bank of Philadelphia), from the 10 year Treasury constant maturity interest rate.

Duration for the 10-Year Treasury Bond is calculated based on the current yield and a price of 100. This is a

Duration for the 10-Year Treasury Bond is calculated based on the current yield and a price of 100. This is a measure of expected percentage movements in the price of the bond based on small movements in percentage yield. We make no attempt to account for convexity.

<u>Definition of "extreme" metric readings</u>

A metric reading is defined as "extreme" if the metric reading is in the top or bottom decile of its historical readings. These "extreme" reading should cause the reader to pay attention. These metrics have reverted toward their mean values in the past.





PCA Market Sentiment Indicator

Explanation, Construction and Q&A

By:

Pension Consulting Alliance, LLC.

John Linder, CFA, CPA Neil Rue, CFA

PCA has created the PCA Market Sentiment Indicator (PMSI) to <u>complement</u> our valuation focused PCA Investment Market Risk Metrics. This measure of sentiment is meant to capture significant and persistent shifts in long lived market trends of economic growth risk, either towards a <u>risk seeking trend</u> or a <u>risk aversion trend</u>.

This paper explores:

- What is the PCA Market Sentiment Indicator (PMSI)?
- How do I read the indicator graph?
- How is the PCA Market Sentiment Indicator (PMSI) constructed?
- What do changes in the indicator mean?



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PCA Market Sentiment Indicator

PCA has created a market sentiment indicator for monthly publication (the PMSI – see below) to complement PCA's Investment Market Risk Metrics.

PCA's Investment Market Risk Metrics, which rely significantly on standard market measures of relative valuation, often provide valid early signals of increasing long-term risk levels in the global investment markets. However, as is the case with numerous valuation measures, the Risk Metrics may convey such risk concerns long before a market corrections take place. The PMSI helps to address this early-warning bias by measuring whether the markets are beginning to acknowledge key Risk Metrics trends, and / or indicating non-valuation based concerns. Once the PMSI indicates that the market sentiment has shifted, it is our belief that investors should consider significant action, particularly if confirmed by the Risk Metrics. Importantly, PCA believes the Risk Metrics and PMSI should always be used in conjunction with one another and never in isolation. The questions and answers below highlight and discuss the basic underpinnings of the PCA PMSI:

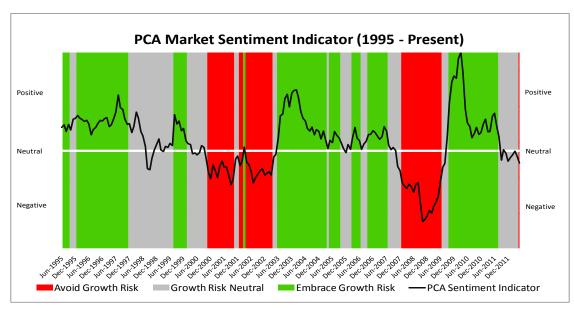
What is the PCA Market Sentiment Indicator (PMSI)?

The PMSI is a measure meant to gauge the market's sentiment regarding economic growth risk. Growth risk cuts across most financial assets, and is the largest risk exposure that most portfolios bear. The PMSI takes into account the momentum (trend over time, positive or negative) of the economic growth risk exposure of publicly traded stocks and bonds, as a signal of the future direction of growth risk returns; either positive (risk seeking market sentiment), or negative (risk averse market sentiment).

How do I read the PCA Market Sentiment Indicator (PMSI) graph?

Simply put, the PMSI is a color coded indicator that signals the market's sentiment regarding economic growth risk. It is read left to right chronologically. A green indicator on the PMSI indicates that the market's sentiment towards growth risk is positive. A gray indicator indicates that the market's sentiment towards growth risk is neutral or inconclusive. A red indicator indicates that the market's sentiment towards growth risk is negative. The black line on the graph is the level of the PMSI. The degree of the signal above or below the neutral reading is an indication the signal's current strength.

Momentum as we are defining it is the use of the past behavior of a series as a predictor of its future behavior.



PCA Market Sentiment Indicator

How is the PCA Market Sentiment Indicator (PMSI) Constructed?

The PMSI is constructed from two sub-elements representing investor sentiment in stocks and bonds:

- 1. Stock return momentum: Return momentum for the S&P 500 Equity Index (trailing 12-months)
- 2. Bond yield spread momentum: Momentum of bond yield spreads (excess of the measured bond yield over the identical duration U.S. Treasury bond yield) for corporate bonds (trailing 12-months) for both investment grade bonds (75% weight) and high yield bonds (25% weight). The scale of this measure is adjusted to match that of the stock return momentum measure.

The black line reading on the graph is calculated as the average of the stock return momentum measure and the bonds spread momentum measure. The color reading on the graph is determined as follows:

- 1. If both stock return momentum and bond spread momentum are positive = GREEN (positive)
- 2. If one of the momentum indicators is positive, and the other negative = GRAY (inconclusive)
- 3. If both stock return momentum and bond spread momentum are negative = RED (negative)

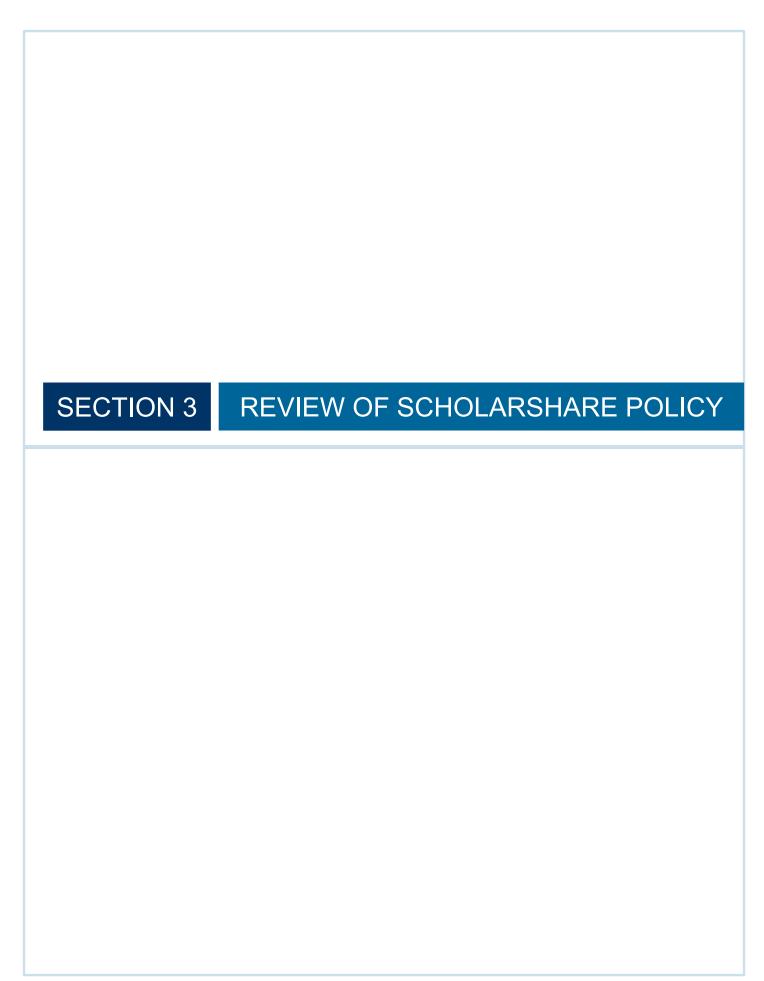
What does the PCA Market Sentiment Indicator (PMSI) mean? Why might it be useful?

There is strong evidence that time series momentum is significant and persistent. In particular, across an extensive array of asset classes, the sign of the trailing 12-month return (positive or negative) is indicative of future returns (positive or negative) over the next 12 month period. The PMSI is constructed to measure this momentum in stocks and corporate bond spreads. A reading of green or red is agreement of both the equity and bond measures, indicating that it is likely that this trend (positive or negative) will continue over the next 12 months. When the measures disagree, the indicator turns gray. A gray reading does not necessarily mean a new trend is occurring, as the indicator may move back to green, or into the red from there. The level of the reading (black line) and the number of months at the red or green reading, gives the user additional information on which to form an opinion, and potentially take action.



¹Momentum as we are defining it is the use of the past behavior of a series as a predictor of its future behavior.

[&]quot;Time Series Momentum" Moskowitz, Ooi, Pedersen, August 2010 http://pages.stern.nyu.edu/~lpederse/papers/TimeSeriesMomentum.pdf



Active Funds

<u>Fund</u>	Asset Class	<u>Benchmark</u>
T. Rowe Price Instl Large Cap Growth	Domestic Equity	Russell 1000 Growth TR USD
T. Rowe Price Instl Large Cap Value	Domestic Equity	Russell 1000 Value TR USD
TIAA-CREF Small Cap Equity	Domestic Equity	Russell 2000 TR USD
TIAA-CREF Social Choice Equity	Domestic Equity	Russell 3000 TR USD
TIAA-CREF Real Estate Securities	Domestic Equity	FTSE NAREIT All Equity REITs TR
DFA Large Cap International	International Equity	MSCI World ex US NR USD
DFA Emerging Markets Core Equity	International Equity	MSCI EM NR USD
TIAA-CREF Bond Plus	Fixed Income	BarCap US Universal TR USD
PIMCO Real Return	Fixed Income	BarCap US Trsy US TIPS TR USD
PIMCO Income	Fixed Income	BarCap US Agg Bond TR USD
TIAA-CREF Inflation-Linked Bond	Fixed Income	BarCap US Trsy US TIPS TR USD
T. Rowe Price Institutional Floating Rate	High Yield	S&P/LSTA Performing Loan TR
TIAA-CREF High Yield Bond	High Yield	BofA ML US HY C Pay BB-B Constd TR

Passive Funds

<u>Fund</u>	Asset Class	<u>Benchmark</u>
TIAA-CREF Equity Index	Domestic Equity	Russell 3000 TR USD
TIAA-CREF S&P 500 Index	Domestic Equity	S&P 500 TR
TIAA-CREF International Equity Index	International Equity	MSCI EAFE NR USD
TIAA-CREF Emerging Markets Equity Index	International Equity	MSCI EM NR USD
TIAA-CREF Bond Index	Fixed Income	BarCap US Agg Bond TR USD

T-C Life Funding Agreements

T-C Life Funding Agreements*

^{*}Investment through a funding agreement with TIAA-CREF Life Insurance Company. Not benchmarked to an index, rather, portfolio performance is monitored using a set of qualitative guidelines.

Performance Criteria for Placing a Fund on Watch

Actively Managed Funds

Asset Class	Short-Term (rolling 12-month periods)	Medium-term (rolling 36-month periods)	Long-term (> 60 months)
Domestic Equity	Fund return < bench return -3.5% for 6 consecutive months	Fund return < bench return -1.75% for 6 consecutive months	VRR< 0.97 for 6 consecutive months
International Equity	Fund return < bench return -4.5% for 6 consecutive months	Fund return < bench return -2.0% for 6 consecutive months	VRR< 0.97 for 6 consecutive months
Fixed Income	Fund return < bench return -1.0% for 6 consecutive months	Fund return < bench return -0.5% for 6 consecutive months	VRR< 0.98 for 6 consecutive months
High Yield	Fund return < bench return -6.5% for 6 consecutive months	Fund return < bench return -3.25% for 6 consecutive months	VRR< 0.96 for 6 consecutive months

Passively Managed Funds

Asset Class	Short-Term (rolling 12-month periods)	Medium-term (rolling 36-month periods)	Long-term (rolling 60-month periods)
Domestic Equity	Tracking Error > 0.30% for 6 consecutive months	Tracking Error> 0.25% for 6 consecutive months	Fd annlzd return < bench annlzd return -0.30% for 6 consecutive months
International Equity	Tracking Error > 0.75% for 6 consecutive months	Tracking Error> 0.70% for 6 consecutive months	Fd annlzd return < bench annlzd return -0.30% for 6 consecutive months
Fixed Income	Tracking Error > 0.40% for 6 consecutive months	Tracking Error> 0.55% for 6 consecutive months	Fd annlzd return < bench annlzd return -0.35% for 6 consecutive months

- [1] Return discounts from a benchmark return based on 2/3rds of the typical tracking error estimates of the specified type of fund manager.
- [2] Annualized return is the average annual return of either the manager or its benchmark.
- [3] VRR Value Relative Ratio is calculated as: Manager Cumulative Return / Benchmark Cumulative Return.
- [4] Tracking error is a measure of the volatility of the average annual difference between the manager's return and the benchmark's return.

Performance Criteria for Placing a Fund on Watch (Continued)

T-C Life Funding Agreements (based on non-investment performance criteria)

Fund Name	Financial Strength	Mortgage Portfolio	Bond Portfolio	Account Diversification
	Moody's = Aaa			
	Standard & Poor's = AAA			Portfolio is diversified
T-C Life Funding	A.M. Best = A+++		At least 90% Investment	across asset classes and
Agreements	Fitch = AAA	100% in Good Standing	Grade	types

The T-C Life Funding Agreements are measured against a set of non-investment performance criteria (see above) in a published TIAA-CREF report every quarter.

Investment Status Schedule

Performance Category	Actively Managed Portfolios	Passively Managed Portfolios
Positive	■Performance exceeds the benchmark.	■Performance exceeds the benchmark (first 1-12 month period), or ■Tracking error is within the allowable range¹ (short, medium, and long time
		periods).
Acceptable	Performance meets or is under the benchmark and is within the allowable range.	■Performance does not exceed the benchmark but is within the allowable range (first 1-12 month period only).
Caution	Performance is below allowable range but either: i) for less than six consecutive months, or ii) the Board has not taken (or decided not to take) a formal action to place the asset class or individual fund portfolio on Watch even though performance has been below allowable range for six months or longer.	 Tracking error falls outside of the allowable range but either i) for less than six consecutive months, or ii) the Board has not voted to place the asset class or stand alone fund on Watch
Watch ²	Performance is below allowable range for more than six consecutive months and the Board has formally voted to place the asset class or individual fund on Watch.	■Tracking error falls outside of the allowable range for more than six consecutive months and the Board has formally voted to place the asset class or individual fund portfolio on Watch.

Ranges are shown in the Investment Performance Criteria Schedules.
 The amount of time generally required before an investment is put on watch.

SUMMARY OF FUND PERFORMANCE STATUS

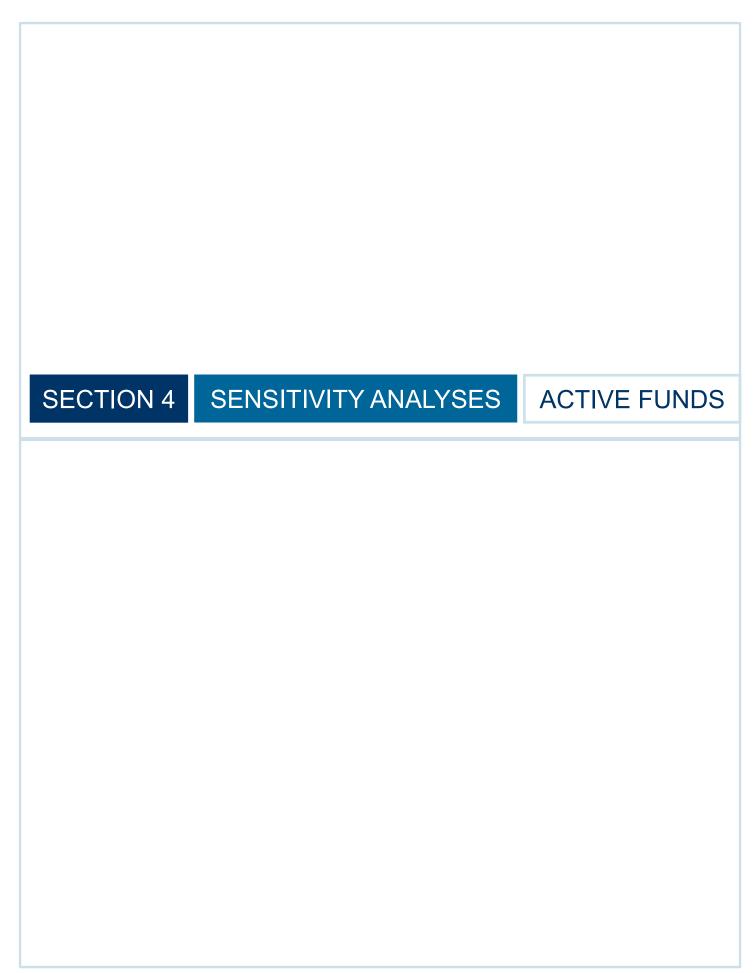
	Prior Qu	arter	Current Q	uarter
Funds	Status On Watch		Status	On Watch
Active Funds				
T. Rowe Price Instl Large Cap Growth	Positive		Positive	
T. Rowe Price Instl Large Cap Value	Positive		Positive	
TIAA-CREF Small Cap Equity	Positive		Positive	
TIAA-CREF Social Choice Equity	Acceptable		Acceptable	
TIAA-CREF Real Estate Securities	Acceptable		Positive	
DFA Large Cap International	Positive		Positive	
DFA Emerging Markets Core Equity	Acceptable		Positive	
TIAA-CREF Bond Plus	Positive		Positive	
PIMCO Real Return	Acceptable	Х	Acceptable	Х
PIMCO Income	Positive	Х	Positive	Х
TIAA-CREF Inflation-Linked Bond	Acceptable		Acceptable	
T. Rowe Price Instl Floating Rate	Acceptable		Positive	
TIAA-CREF High-Yield Bond	Acceptable		Acceptable	
Passive Funds				
TIAA-CREF Equity Index	Positive		Positive	
TIAA-CREF S&P 500 Index	Positive		Positive	
TIAA-CREF International Equity Index	Positive		Positive	
TIAA-CREF Emerging Markets Index	Positive		Positive	
TIAA-CREF Bond Index	Positive		Positive	
T-C Life Funding Agreements				
T-C Life Funding Agreements	Positive		Positive	

- Current status is based on Short-Term (rolling 12-month) and Medium-Term (rolling 36-month) evaluation results.
- According to the Investment Status Schedule on the previous page, the portfolio's overall "Current Status" equals the lowest status as achieved by one or more of the criteria during the quarter.

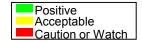
SUMMARY OF FUND ASSETS

Assets as of 9/30/2015

Funds	Assets (\$)	% of Total
Active Funds		
T. Rowe Price Instl Large Cap Growth	271,540,173	4.41%
T. Rowe Price Instl Large Cap Value	256,179,202	4.16%
TIAA-CREF Small Cap Equity	62,341,080	1.01%
TIAA-CREF Social Choice Equity	117,728,766	1.91%
TIAA-CREF Real Estate Securities	202,087,248	3.29%
DFA Large Cap International	203,429,507	3.31%
DFA Emerging Markets Core Equity	42,946,239	0.70%
TIAA-CREF Bond Plus	302,879,548	4.92%
PIMCO Real Return	118,192,484	1.92%
PIMCO Income	125,221,024	2.04%
TIAA-CREF Inflation-Linked Bond	246,594,256	4.01%
T. Rowe Price Instl Floating Rate	56,685,644	0.92%
TIAA-CREF High-Yield Bond	137,082,956	2.23%
Active Funds Total	2,142,908,126	34.84%
Passive Funds		
TIAA-CREF Equity Index	1,328,766,446	21.60%
TIAA-CREF S&P 500 Index	207,688,105	3.38%
TIAA-CREF International Equity Index	473,867,682	7.70%
TIAA-CREF Emerging Markets Index	92,376,213	1.50%
TIAA-CREF Bond Index	1,056,475,787	17.17%
Passive Funds Total	3,159,174,233	51.36%
T-C Life Funding Agreements		
T-C Life Funding Agreements	849,308,840	13.81%
TOTAL	6,151,391,200	100%

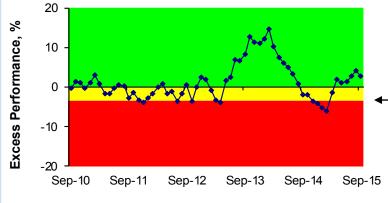


T.ROWE PRICE INSTL. LARGE CAP GROWTH FUND



Short-term

(Rolling 12-Month Excess Performance)

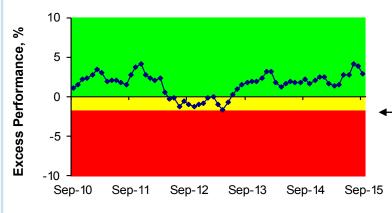


 Short-term performance continued in the Positive range

probationary performance band

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance remained in the Positive range

 probationary performance band -1.75%

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

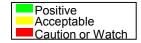
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
T. Rowe Price Instl Large Cap Growth	5.80	16.48	15.63	17.72
Russell 1000 Growth TR	3.17	13.61	14.47	15.64
Peer Rank (Percentile)	10	4	4	4

Current Status
Positive

Source: Morningstar Direct

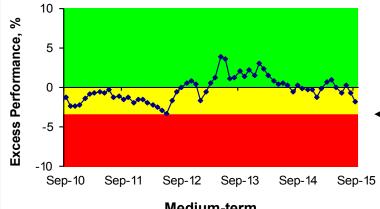
Peer Group = US OE Large Growth

T.ROWE PRICE INSTL. LARGE CAP VALUE FUND



Short-term

(Rolling 12-Month Excess Performance)

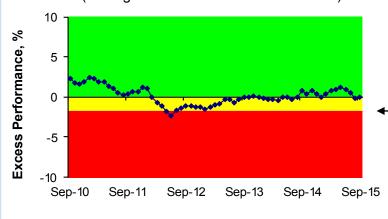


 Short-term performance ended the period in the Acceptable range

probationary performance band

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance continued in the Positive range

probationary performance band

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

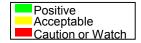
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
T. Rowe Price Instl Large Cap Value	-6.24	11.57	11.88	14.42
Russell 1000 Value TR	-4.42	11.59	12.29	14.47
Peer Rank (Percentile)	68	27	29	19

Current Status Positive

Source: Morningstar Direct

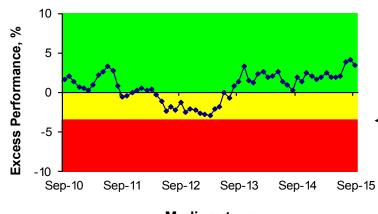
Peer Group = US OE Large Value

TIAA-CREF SMALL CAP EQUITY FUND



Short-term

(Rolling 12-Month Excess Performance)

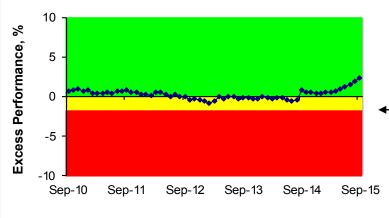


 Short-term performance remained in the Positive range

probationary performance band -3.5%

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance remained in the Positive range

 probationary performance band -1.75%

■ Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

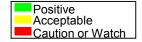
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF Small Cap Equity	4.58	13.27	12.71	14.50
Russell 2000 TR	1.25	11.02	11.73	13.19
Peer Rank (Percentile)	8	14	26	21

Current Status
Positive

Source: Morningstar Direct

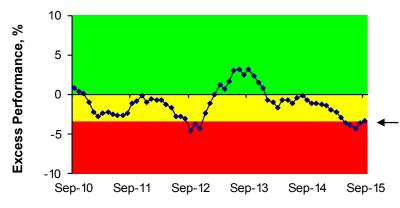
Peer Group = US OE Small Blend

TIAA-CREF SOCIAL CHOICE EQUITY FUND



Short-term

(Rolling 12-Month Excess Performance)

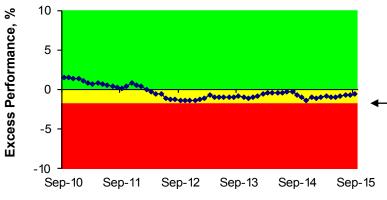


 Short-term performance improved to the Acceptable range at the end of the period

probationary performance band -3.5%

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance remained in the Acceptable range

 probationary performance band -1.75%

■ Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

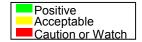
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF Social Choice Equity	-3.88	11.95	11.86	13.16
Russell 3000 TR	-0.49	12.53	13.28	14.95
Peer Rank (Percentile)	73	41	53	66

Current Status
Acceptable

Source: Morningstar Direct

Peer Group = US OE Large Cap Blend

TIAA-CREF REAL ESTATE SECURITIES FUND



10

5

0

-5

-10 Sep-10

Sep-11

Excess Performance, %

Short-term (Rolling 12-Month Excess Performance)

■ S F

Sep-13

Sep-14

Sep-15

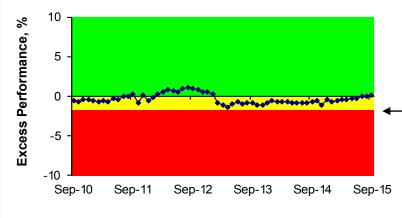
 Short-term performance continued in the Positive range

 probationary performance band -3.5%

Medium-term

Sep-12

(Rolling 36-Month Excess Performance)



 Medium-term performance ended the period in the Positive range

- probationary performance band -1.75%

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF Real Estate Securites	11.56	9.14	12.07	12.94
FTSE NAREIT All Equity REITs TR	7.84	9.04	11.86	12.81
Peer Rank (Percentile)	14	39	18	17

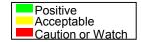
Current Status

Positive

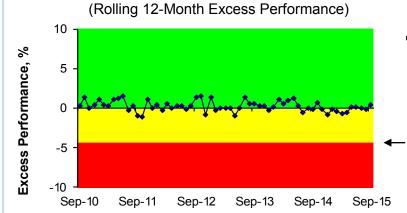
Source: Morningstar Direct

Peer Group = US OE Real Estate

DFA LARGE CAP INTERNATIONAL PORTFOLIO



Short-term

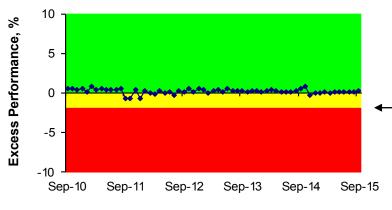


 Short-term performance improved to the Positive range at the end of the period

probationary performance band -4.5%

Medium-term





 Medium-term performance remained on the edge of the Positive range

probationary performance band -2 0%

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (11/2011)
DFA Large Cap International	-9.84	4.80	3.56	6.62
MSCI World ex US NR USD	-10.14	4.60	3.42	6.40
Peer Rank (Percentile)	74	51	50	51

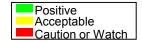
Current Status

Positive

Source: Morningstar Direct

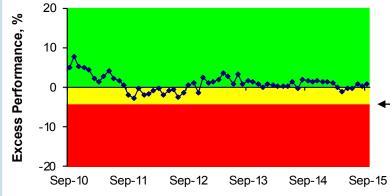
Peer Group = US OE Foreign Large Blend

DFA EMERGING MARKETS CORE EQUITY PORTFOLIO



Short-term

(Rolling 12-Month Excess Performance)

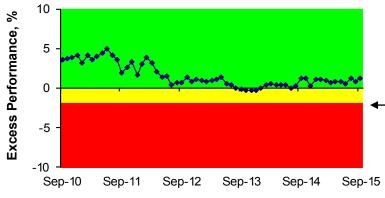


 Short-term performance climbed into the Positive range

 probationary performance band -4.5%

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance continued in the Positive range

 probationary performance band -2.0%

■ Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (11/2011)
DFA Emerging Markets Core Equity	-18.68	-4.10	-3.28	-0.75
MSCI EM NR USD	-19.28	-5.27	-3.58	-1.72
Peer Rank (Percentile)	50	46	45	42

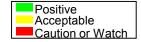
Current Status

Positive

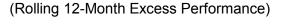
Source: Morningstar Direct

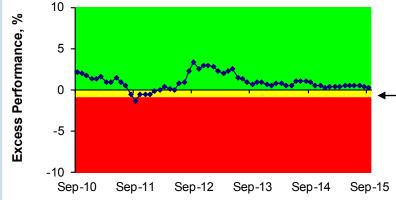
Peer Group = US OE Diversified Emerging Markets

TIAA-CREF BOND PLUS FUND



Short-term



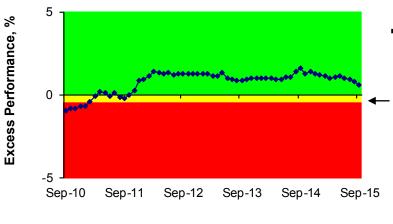


 Short-term performance remained in the Positive range

probationary performance band -1 0%

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance remained in the Positive range

probationary performance band -0.5%

Long-term criteria to take effect 4Q 2019

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (10/2014)
TIAA-CREF Bond Plus Institutional	2.52	2.47	4.07	1.69
BarCap US Universal TR	2.33	1.89	3.36	1.46
Peer Rank (Percentile)	20	13	14	20

Current Status
Positive

Source: Morningstar Direct

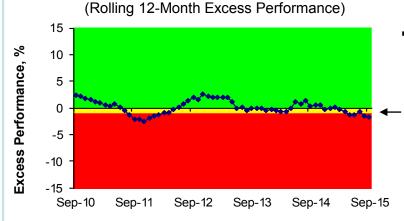
Peer Group = US OE Intermediate-Term Bond

PIMCO REAL RETURN FUND



* On "Watch" due to organizational concerns



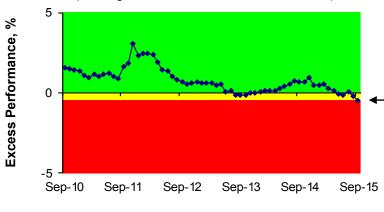


 Short-term performance ended the period in the Caution range

probationary performance band -1.0%

Medium-term





 Medium-term performance slid into the Caution range at the end of the period

probationary performance band -0.5%

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

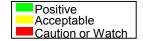
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
PIMCO Real Return Institutional	-2.65	-2.34	2.17	0.35
BarCap US Treasury US TIPS TR	-0.83	-1.83	2.55	0.24
Peer Rank (Percentile)	75	43	10	8

Current Status
Acceptable

Source: Morningstar Direct

Peer Group = US OE Inflation-Protected Bond

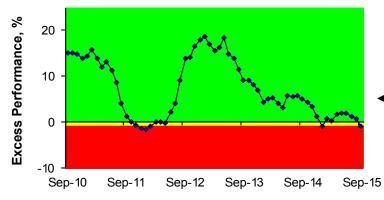
PIMCO INCOME FUND



* On "Watch" due to organizational concerns

Short-term

(Rolling 12-Month Excess Performance)

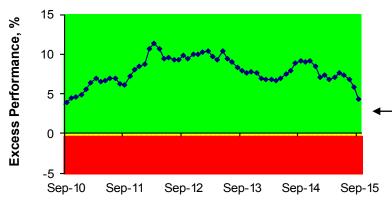


 Short-term performance ended the period in the Acceptable range

probationary performance band -1.0%

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance remained in the Positive range

probationary performance band -0.5%

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

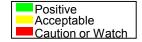
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
PIMCO Income Institutional	2.02	6.01	8.60	9.45
BC US Aggregate Bond TR	2.94	1.71	3.10	2.59
Peer Rank (Percentile)	8	1	1	1

Current Status
Positive

Source: Morningstar Direct

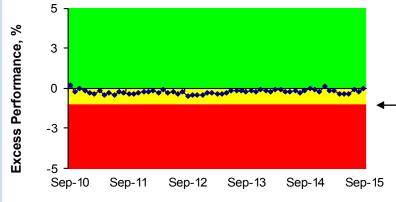
Peer Group = US OE Multisector Bond

TIAA-CREF INFLATION-LINKED BOND FUND



Short-term

(Rolling 12-Month Excess Performance)

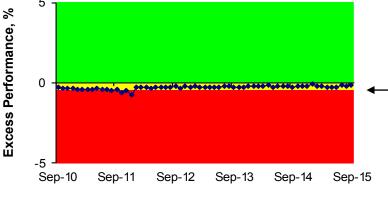


 Short-term performance continued in the Acceptable range

probationary performance band -1.0%

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance remained in the Acceptable range

probationary performance band -0.5%

■ Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF Inflation-Linked Bond	-0.87	-1.98	2.30	0.04
BarCap US Treasury US TIPS TR	-0.83	-1.83	2.55	0.24
Peer Rank (Percentile)	9	24	7	18

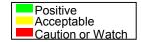
Current Status

Acceptable

Source: Morningstar Direct

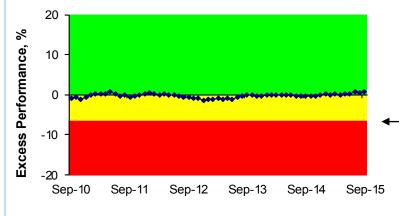
Peer Group = US OE Inflation-Protected Bond

T.ROWE PRICE INSTL. FLOATING RATE FUND



Short-term

(Rolling 12-Month Excess Performance)

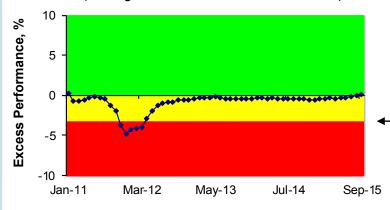


 Short-term performance ended the period on the edge of the Positive range

probationary performance band

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance improved to the Positive range at the end of the period

probationary performance band -3.25%

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (11/2011)
T. Rowe Price Instl Floating Rate	2.51	3.66	4.51	4.66
S&P/LSTA Performing Loan TR	1.88	3.60	4.77	4.92
Peer Rank (Percentile)	6	10	20	21

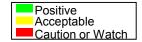
Current Status

Positive

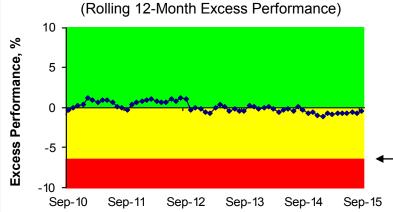
Source: Morningstar Direct

Peer Group = US OE Bank Loan

TIAA-CREF HIGH YIELD BOND FUND



Short-term

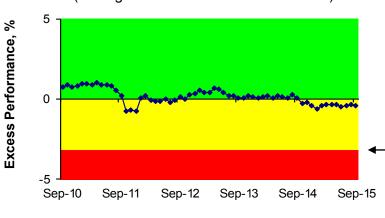


 Short-term performance continued in the Acceptable range

 probationary performance band -6.5%

Medium-term

(Rolling 36-Month Excess Performance)



 Medium-term performance continued in the Acceptable range

probationary performance band -3.25%

■ Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

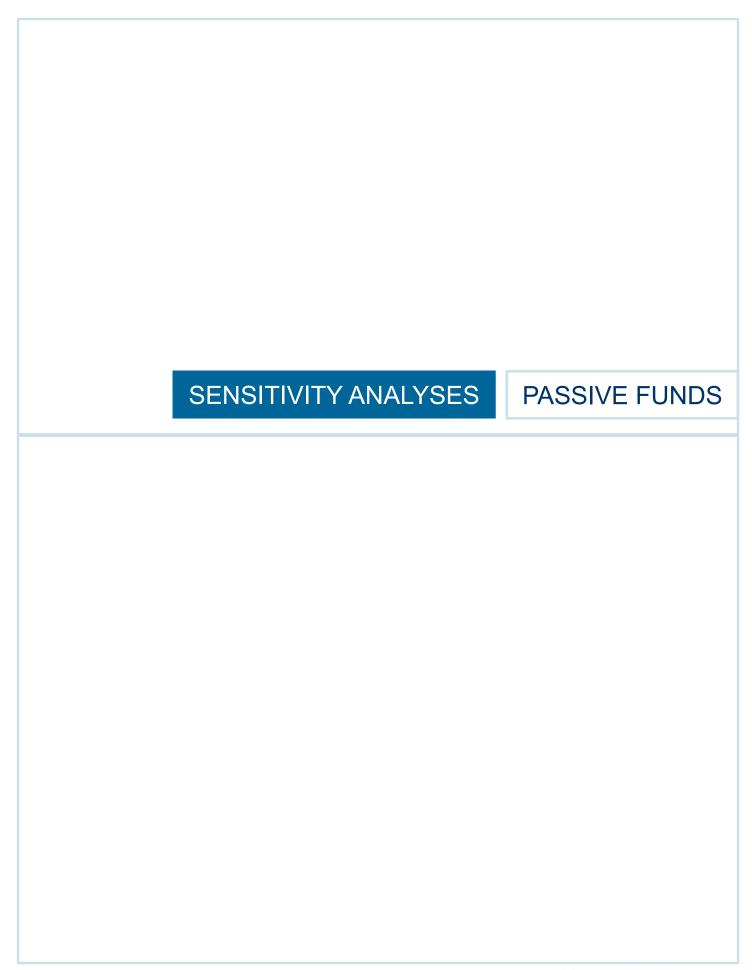
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF High Yield	-2.62	3.24	5.83	5.86
BofA ML US HY C Pay BB-B Constd TR	-2.07	3.68	5.99	6.19
Peer Rank (Percentile)	39	40	30	40

Current Status

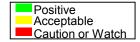
Acceptable

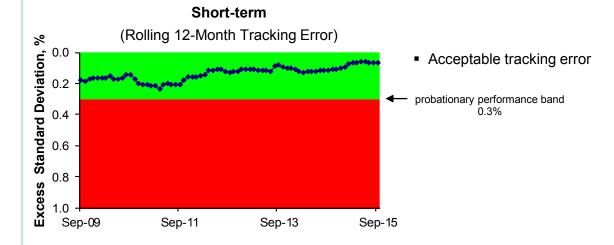
Source: Morningstar Direct

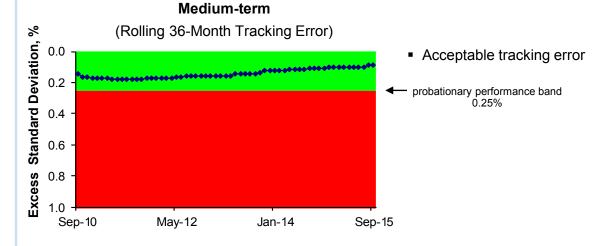
Peer Group = US OE High Yield Bond



TIAA-CREF EQUITY INDEX FUND







■ Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

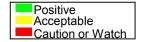
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF Equity Index	-0.48	12.49	13.22	14.90
Russell 3000 TR	-0.49	12.53	13.28	14.95
Peer Rank (Percentile)	21	24	18	22

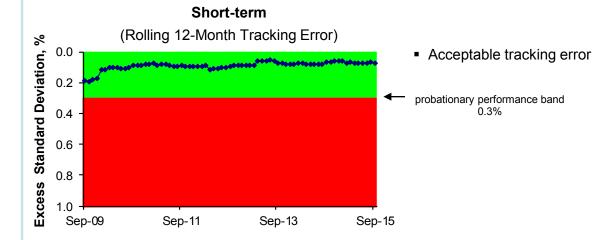
Current Status

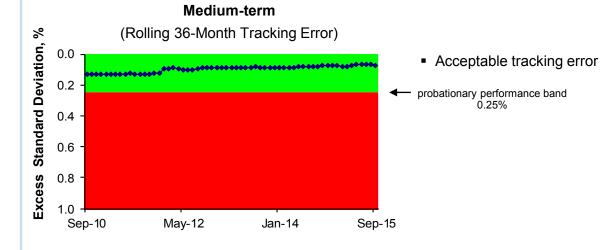
Positive

Source: Morningstar Direct Peer Group = US OE Large Blend

TIAA-CREF S&P 500 INDEX FUND







Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF S&P 500 Index	-0.63	12.33	13.25	14.91
S&P 500 Index TR	-0.61	12.40	13.34	14.99
Peer Rank (Percentile)	23	28	17	22

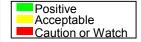
Current Status

Positive

Source: Morningstar Direct Peer Group = US OE Large Blend



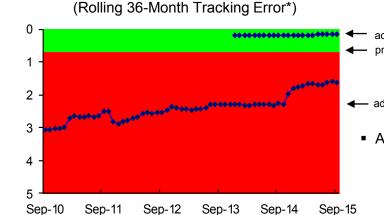
TIAA-CREF INTERNATIONAL EQUITY INDEX FUND



Short-term (Rolling 12-Month Tracking Error*) 1 2 3 4 5 Sep-10 Sep-11 Sep-12 Sep-13 Sep-14 Sep-15

- actual (trailing 12 mo. based on data since January 2011)
- probationary performance band 0.75%
- adjusted for fair market value estimates
- Acceptable tracking error

Medium-term



actual (trailing 36 mo. based on data since January 2011)probationary performance band

adjusted for fair market value estimates

Acceptable tracking error

Long-term criteria to take effect 4Q 2016

*Increased tracking error is due primarily to the Fund's "fair market value" adjustment procedures, which increases or decreases the Fund's actual closing price to compensate for pricing differences between international markets. This results in increased tracking error during periods of high volatility.

Annualized Performance Results (net of fund management fees)

	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF International Equity Index	-7.97	5.96	4.25	7.61
MSCI EAFE Index NR	-8.66	5.63	3.98	7.25
Peer Rank (Percentile)	50	27	32	30

Current Status

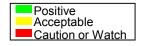
Positive

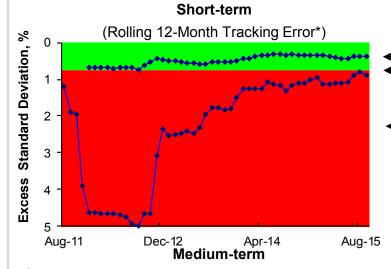
Source: Morningstar Direct

Excess Standard Deviation, %

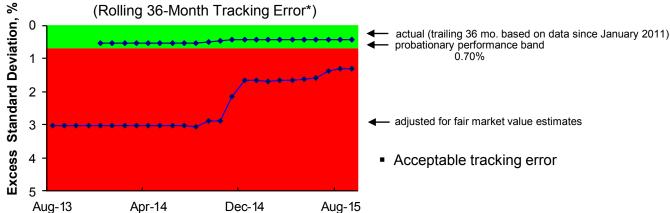
Peer Group = US OE Foreign Large Blend

TIAA-CREF EMERGING MARKETS EQUITY INDEX FUND





- actual (trailing 12 mo. based on data since January 2011)
 probationary performance band 0.75%
- adjusted for fair market value estimates
- Acceptable tracking error



Long-term criteria to take effect 4Q 2016

*Increased tracking error is due primarily to the Fund's "fair market value" adjustment procedures, which increases or decreases the Fund's actual closing price to compensate for pricing differences between international markets. This results in increased tracking error during periods of high volatility.

Annualized Performance Results (net of fund management fees)

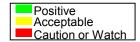
,	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF Emerging Markets Equity Index	-18.64	-5.24	-3.82	-1.84
MSCI EM NR USD	-19.28	-5.27	-3.58	-1.72
Peer Rank (Percentile)	49	60	54	60

Current Status
Positive

Source: Morningstar Direct

Peer Group = US OE Diversified Emerging Markets

TIAA-CREF BOND INDEX FUND

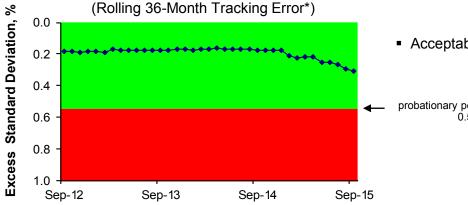


Short-term (Rolling 12-Month Tracking Error) 0.0 0.2 0.4 0.6 0.8 1.0 Sep-10 May-12 Jan-14 Sep-15

 Tracking error declined to the Caution range at the end of the period

probationary performance band 0.4%

Medium-term



Acceptable tracking error

probationary performance band 0.55%

Long-term criteria to take effect 4Q 2016

Annualized Performance Results (net of fund management fees)

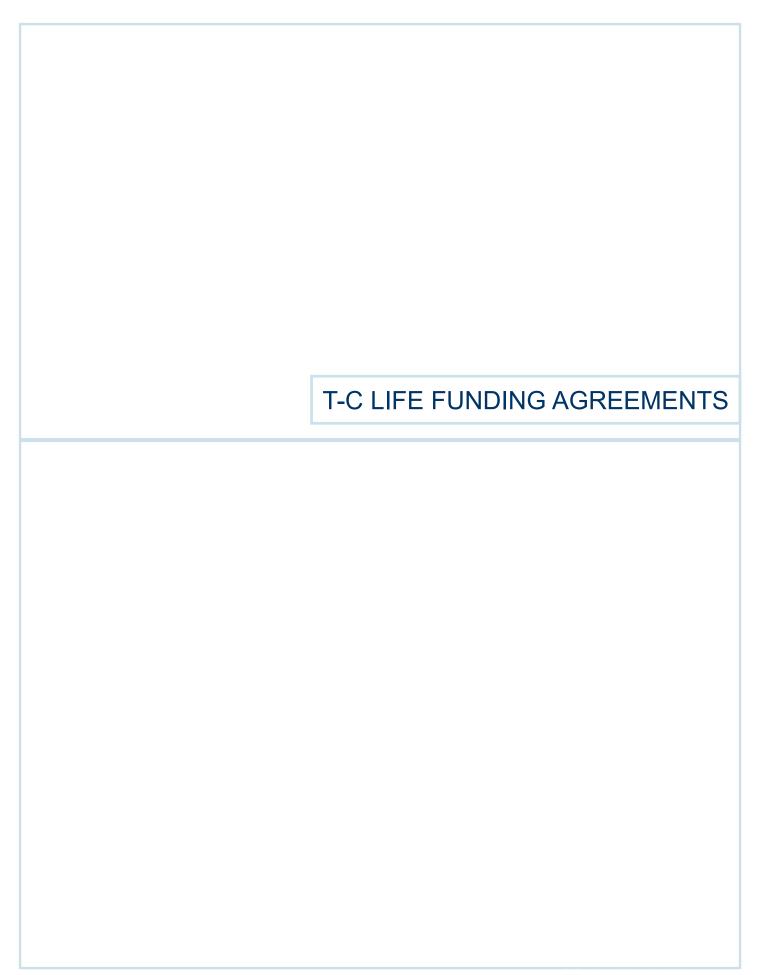
	1 Year	3 Year	5 Year	Program Inc. (11/2011)
TIAA-CREF Bond Index	2.96	1.58	2.94	2.45
BC US Aggregate Bond TR	2.94	1.71	3.10	2.59
Peer Rank (Percentile)	9	48	63	73

Current Status

Positive

Source: Morningstar Direct

Peer Group = US OE Intermediate-Term Bond



T-C LIFE FUNDING AGREEMENTS

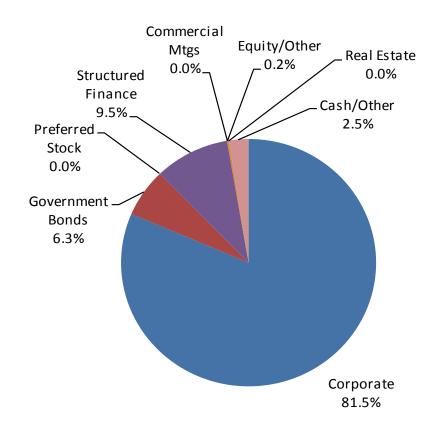
(based on non-investment performance criteria)

Criteria	Status as of 9/30/2015	Status as of 6/30/2015	Status as of 3/31/2015	Status as of 12/31/2014
Financial Strength	Moody's = Aa1 Standard & Poor's = AA+ A.M. Best = A++ Fitch = AAA	Moody's = Aa1 Standard & Poor's = AA+ A.M. Best = A++ Fitch = AAA	Moody's = Aa1 Standard & Poor's = AA+ A.M. Best = A++ Fitch = AAA	Moody's = Aa1 Standard & Poor's = AA+ A.M. Best = A++ Fitch = AAA
Mortgage Portfolio	100% in Good Standing*			
Bond Portfolio	98.90% in Investment Grade (at least 90%)	98.80% in Investment Grade (at least 90%)	98.40% in Investment Grade (at least 90%)	98.40% in Investment Grade (at least 90%)
Account Diversification	Portfolio is diversified across asset classes and types (see chart below)	Portfolio is diversified across asset classes and types (see chart below)	Portfolio is diversified across asset classes and types (see chart below)	Portfolio is diversified across asset classes and types (see chart below)

^{*}Portfolio did not contain any commercial mortgages.

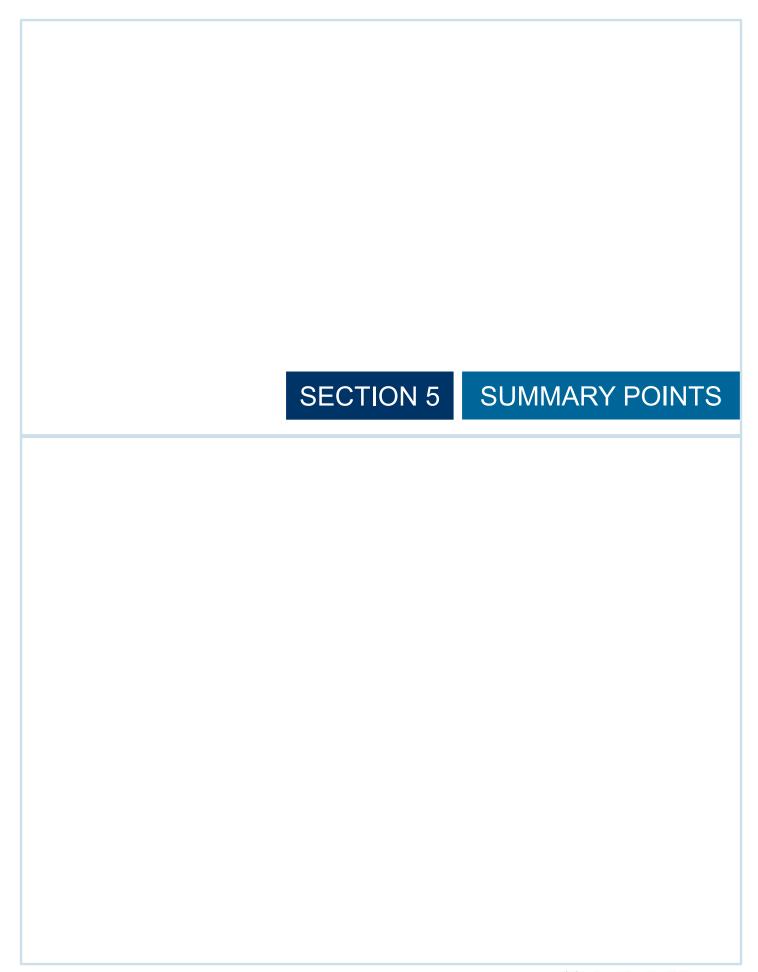
Note, prior-period investment status will shift to the right.

Source: TIAA-CREF



Current Status

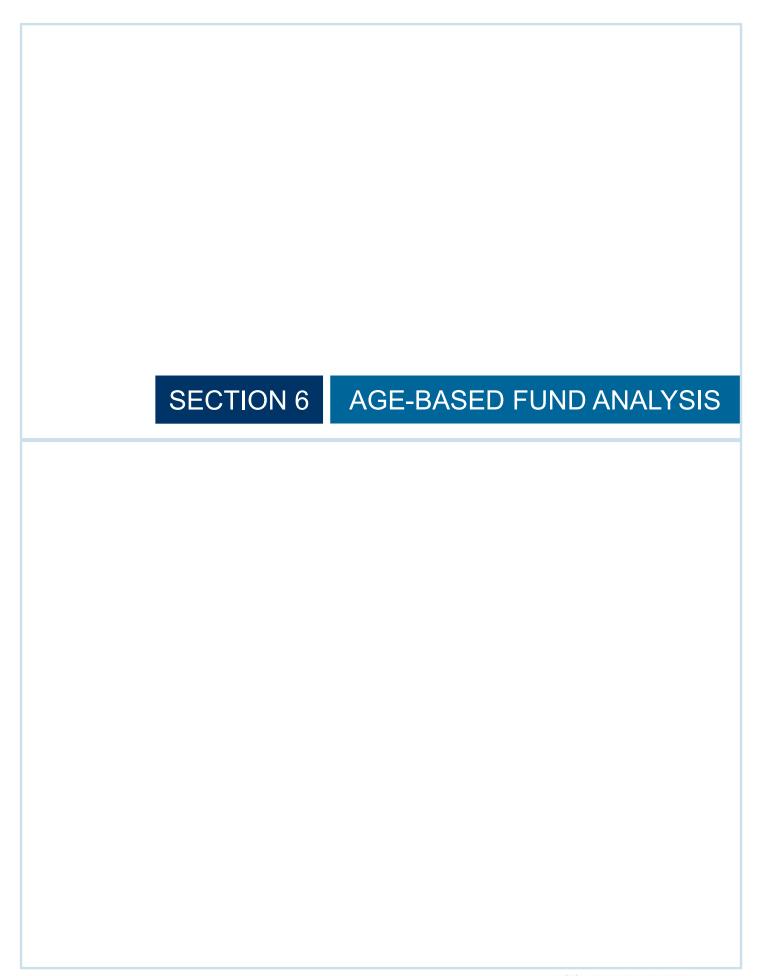
Positive



SUMMARY POINTS

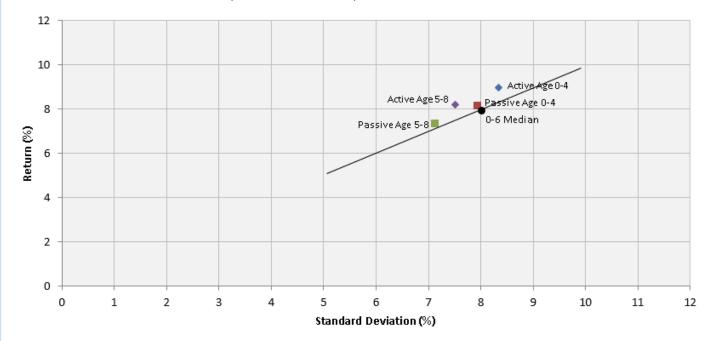
	Crite	Criteria Utilized for Performance Watch Status			
	On Watch	Short-term	Medium-term	Long-term	
T. Rowe Price Instl Large Cap Growth	No			N/A	
T. Rowe Price Instl Large Cap Value	No			N/A	
TIAA-CREF Small Cap Equity	No			N/A	
TIAA-CREF Social Choice Equity	No			N/A	
TIAA-CREF Real Estate Securities	No			N/A	
DFA Large Cap International	No			N/A	
DFA Emerging Markets Core Equity	No			N/A	
TIAA-CREF Bond Plus	No			N/A	
PIMCO Real Return	Yes - Org.			N/A	
PIMCO Income	Yes - Org.			N/A	
TIAA-CREF Inflation-Linked Bond	No			N/A	
T. Rowe Price Instl Floating Rate	No			N/A	
TIAA-CREF High Yield Bond	No			N/A	
TIAA-CREF Equity Index	No			N/A	
TIAA-CREF S&P 500 Index	No			N/A	
TIAA-CREF International Eq Index	No			N/A	
TIAA-CREF Emerging Markets Eq Index	No			N/A	
TIAA-CREF Bond Index	No			N/A	
T-C Life Funding Agreements	No			N/A	
Total	2 of 19	0 of 18 eligible portfolios	0 of 18 eligible portfolios	0 of 0 eligible portfolios	

- Performance-based watch status criteria is on a *relative* basis
 - > Absolute results may still be negative
- Criteria set up to evaluate managers over differing time periods
- The following funds remain on "Watch" status for organizational concerns:
 - PIMCO Real Return
 - PIMCO Income

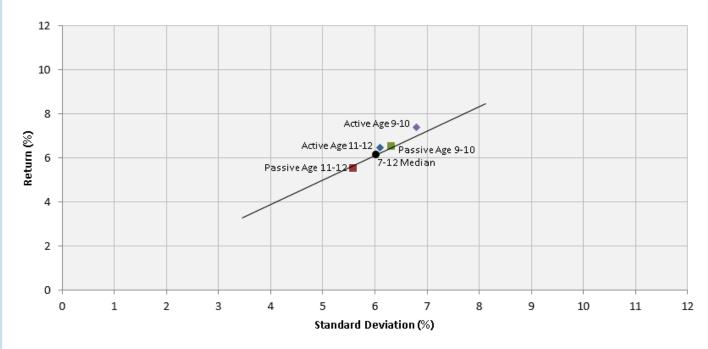


SCHOLARSHARE AGE-BASED FUND – RISK/RETURN

AGE 0-6: 3-YEAR (as of 9/30/2015)



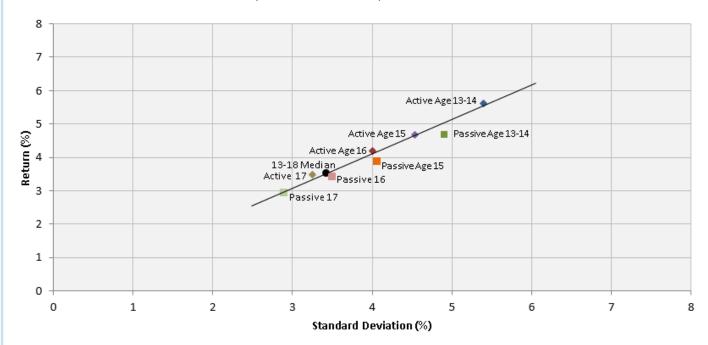
AGE 7-13: 3-YEAR (as of 9/30/2015)



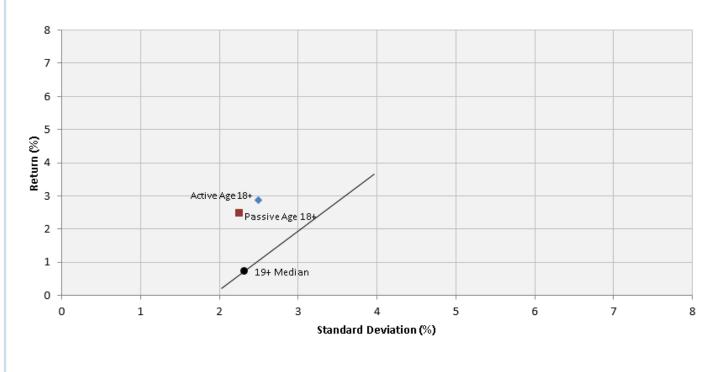
Source: Morningstar

SCHOLARSHARE AGE-BASED FUND – RISK/RETURN

AGE 13-18: 3-YEAR (as of 9/30/2015)



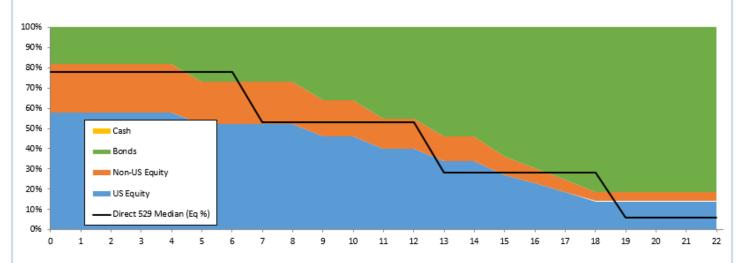
AGE 19+: 3-YEAR (as of 9/30/2015)



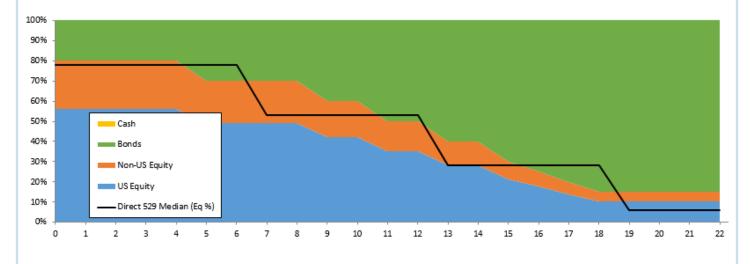
Source: Morningstar

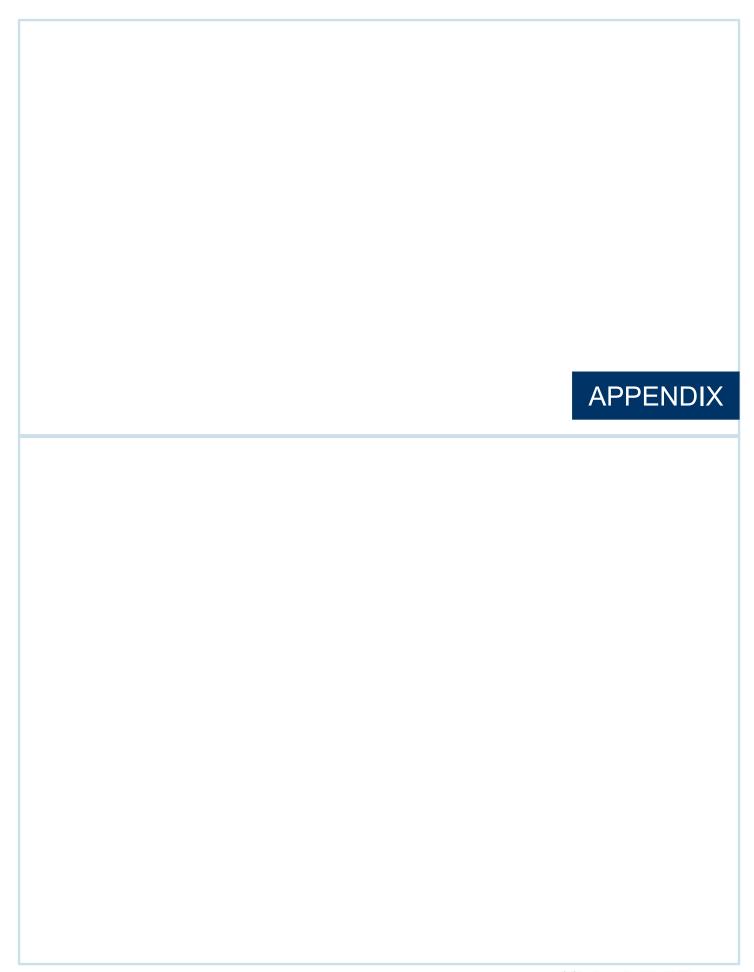
SCHOLARSHARE AGE-BASED GLIDEPATH

ACTIVE AGE-BASED PORTFOLIO



PASSIVE AGE-BASED PORTFOLIO





GLOSSARY

Annualized Return –The average annual return of either the manager or its benchmark.

Excess Performance – Manager returns in excess of the benchmark returns.

Standard Deviation – A measure of dispersion of a set of data from its mean.

Excess Standard Deviation – A measure of the volatility of the average annual difference between the manager's return and the benchmark's return, same as tracking error.

VRR – Value Relative Ratio – Is calculated as: Manager Cumulative Return / Benchmark Cumulative Return.

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Date: November 5, 2015

To: ScholarShare Investment Board (SIB)

From: Pension Consulting Alliance, LLC (PCA)

CC: Allan Emkin – PCA; Eric White, CFA – PCA; Kay Ceserani – PCA

RE: Review of Underlying Funds Qualifying for "Watch" Status

Summary

PCA has conducted a review of the underlying funds in the ScholarShare College Savings Plan. The review included a quantitative analysis of the underlying funds based on specific performance criteria (as per the Monitoring Procedures and Criteria) as well as a qualitative analysis, including a review of organizational concerns, stability of personnel, changes in investment objectives, etc. This memo summarizes the period from July 1, 2015 through September 30, 2015. At the end of the period, **two funds remain on "Watch" status** and **no new funds qualify for "Watch" status**. PCA recommends the two funds identified in the table below remain on "Watch" status. Each of these funds is discussed in more detail on the following pages.

Performance of Funds on Watch Status As of 9/30/2015

Funds on Watch Status	Plan Assets (\$mil)	Board Action Date	Watch Status Start Date	Number of Months Since Watch Began	Excess Perf. Since Watch Began
PIMCO Income Fund	\$125.2	10/02/2014	10/01/2014	12	-0.92%
PIMCO Real Return Fund	\$118.2	10/02/2014	10/01/2014	12	-1.82%

Background

At the October 2, 2014 Board meeting, the Board approved the recommendation to place the following three funds on "Watch" status to be closely monitored due to material organizational changes: i) PIMCO Total Return Fund, ii) PIMCO Income Fund, and iii) PIMCO Real Return Fund. The Board also authorized the Executive Director of SIB to take necessary action, with the recommendation of PCA and TIAA-CREF Tuition Financing, Inc. (TFI), to remove any or all of the three PIMCO funds for replacement by actively-managed bond fund(s) with comparable risk return characteristics. On October 10, 2014, in accordance with the ScholarShare Monitoring Procedures and Criteria and upon recommendation of PCA and TFI, assets were transferred from the PIMCO Total Return Fund to the TIAA-CREF Bond Plus Fund. With that fund replacement completed, the remaining two funds on "Watch" status include the PIMCO Income Fund and the PIMCO Real Return Fund.



New Funds Qualifying for "Watch" Status

PCA has conducted a review of the underlying funds in the ScholarShare College Savings Plan (see also the 3Q2015 ScholarShare College Savings Plan Investment Performance Status Report) and determined that no additional funds qualify for "Watch" status at this time.

Funds Currently on "Watch" Status

The PIMCO Income Fund and the PIMCO Real Return Fund was placed on "Watch" status for organizational concerns upon the departure of the firm's CIO and founder, Bill Gross, in September 2014. Since the departure of Mr. Gross the firm has experienced various other portfolio manager departures and high-level organizational restructurings (e.g., investment committee changes). The latest development at the firm, reported in October 2015, is a lawsuit filed by Mr. Gross against the firm. The lawsuit states a complaint for 1) constructive termination, 2) breach of contract, and 3) breach of covenant of good faith and fair dealing. With regard to the allegations within the lawsuit, the accusation of unethical fee practices within the PIMCO mutual fund business is a major concern. Due to the various allegations within the lawsuit, along with the ongoing organizational changes and uncertainty with respect to PIMCO, PCA recommends the Plan's PIMCO funds remain on "Watch" status. These funds are discussed in more detail below.

PIMCO Income Fund

The Fund was placed on "Watch" status for organizational concerns upon the departure of the firm's CIO and founder, Bill Gross, in September 2014.

Investment Role in Program

The fund is a portfolio of a broad range of intermediate-duration bonds that is actively managed to maximize current income while maintaining a relatively low risk profile. It also has a secondary goal of capital appreciation. The strategy utilizes multiple sectors of the bond market in an effort to generate a competitive and consistent distribution yield and monthly dividend. Managed to pursue efficient income generation, the strategy also focuses on PIMCO total-return ideas in an effort to maximize capital appreciation and risk-adjusted returns relative to its peers. This approach seeks to provide consistent income over the long term.

History and Organizational Structure

PIMCO (Pacific Investment Management Company) was founded in 1971 and started as a subsidiary of Pacific Life Insurance Company to manage separate accounts for institutional clients. In 2000, PIMCO was acquired by AllianzSE, a large global financial services company based in Germany. PIMCO currently operates as a separate and autonomous subsidiary of Allianz. PIMCO is currently one of the world's largest fixed income managers with offices around the globe.

Investment Team

Daniel Ivascyn has been the lead portfolio manager of the fund since its inception in 2007. Mr. Ivascyn was named Group Chief Investment Officer in October 2014 upon the departure of the firm's former CIO and founder, Bill Gross. He is also the head of the mortgage credit portfolio management team and a lead portfolio manager for PIMCO's credit hedge fund and mortgage opportunistic strategies. Mr. Ivascyn is a member of PIMCO's Executive Committee and a member of the Investment Committee. Morningstar named him Fixed-Income Fund Manager of the Year (U.S.) for 2013.



Mr. Ivascyn is supported by Alfred Murata who has been co-portfolio manager on the fund since March 2013. Mr. Murata joined PIMCO in 2001. With Mr. Ivascyn, Morningstar named Mr. Murata Fixed-Income Fund Manager of the Year (U.S.) for 2013.

Investment Philosophy and Approach

PIMCO's investment philosophy for the Income strategy revolves around the principle of diversification. By diversifying strategies, or relying on multiple sources of value, they are confident that they will be able to generate a solid track record with a high degree of consistency. They seek to add value through the use of "top-down" strategies such as exposure to interest rates, or duration, changing volatility, yield curve positioning and sector rotation. These strategies are deployed from a macro view of the portfolio that are driven by PIMCO's secular outlook of the forces likely to influence the economy and financial markets over the next three to five years and their cyclical views of two-to-four quarter trends. "Bottom-up" strategies drive PIMCO's security-selection process and help identify and analyze undervalued securities and securities that pay high income. Here, they employ advanced proprietary analytics and expertise in all major fixed-income sectors. By combining perspectives from both the portfolio and security levels, they attempt to add value consistently over time within acceptable levels of portfolio risk.

PIMCO's investment process starts with an annual Secular Forum at which their investment professionals from around the globe gather with industry experts for a discussion about the future of the global economy and financial markets. The goal of this Forum is to look beyond the current business cycle and determine how secular forces will play out over the next three to five years. Quarterly, PIMCO holds Economic Forums to evaluate growth and inflation over the next six to nine months.

Following the Secular and Economic Forums, the Investment Committee, comprised of senior portfolio managers as well as PIMCO's Chief Economist and headed by PIMCO's Group Chief Investment Officer and CIOs, develops key portfolio strategies. They consider both the "top-down" conclusions emanating from the Forum, as well as the "bottom-up" market intelligence provided by teams of sector specialist portfolio managers. Through an interactive series of meetings, the Investment Committee defines a set of consistent strategies that are then implemented across all PIMCO strategies.

Portfolios are then continuously monitored for adherence to the current model portfolio structure, and historical measures such as volatility (close to benchmark) and tracking error (moderate) affirm PIMCO's adherence to a diversified, moderate risk style.

Buy and sell decisions are executed in order to optimize the risk/return and the relative value characteristics of the portfolio. PIMCO does not employ automated or mechanical selling procedures. Securities are sold when the credit analysis indicates that a company or a particular issue will become fundamentally flawed. Current holdings are constantly re-evaluated for their relative attractiveness versus investments available in the marketplace. Securities are sold when they individually no longer represent good value, when superior risk/return potential exists in substitute positions (factoring in transaction costs), or when they no longer fit with the macroeconomic or structural strategies in the portfolio.



Performance

Since being placed on "Watch" status 12 months ago, the PIMCO Income Fund has underperformed its benchmark, the Barclays US Aggregate Bond Index, by (0.92%) and ranked in the 8th percentile versus its peers in the Multisector Bond category. The PIMCO Income Fund trailed the benchmark over the recent quarter by (2.08%) as the portfolio's exposure to high yield credit, holdings of emerging market debt (primarily in Brazil), and treasury inflation-protected securities detracted from performance. The portfolio outperformed the benchmark by 4.30% over the 3-year period and 5.50% over the 5-year period; these results ranked in 1st percentile versus their peers. Performance results are within acceptable limits as per the Program's Monitoring Procedures and Criteria.

Recommendation

At this time, PCA recommends that the PIMCO Income Fund remain on "Watch" status.



PIMCO Real Return Fund

The Fund was placed on "Watch" status for organizational concerns upon the departure of the firm's CIO and founder, Bill Gross, in September 2014.

Investment Role in Program

The fund is an actively managed strategy that provides investors exposure to US Treasury Inflation Protected Securities (TIPS). The fund seeks to provide high correlation to the broad TIPS market and consistently outperform the benchmark by leveraging PIMCO's disciplined investment process, global investment team, and focus on risk management.

History and Organizational Structure

PIMCO (Pacific Investment Management Company) was founded in 1971 and started as a subsidiary of Pacific Life Insurance Company to manage separate accounts for institutional clients. In 2000, PIMCO was acquired by AllianzSE, a large global financial services company based in Germany. PIMCO currently operates as a separate and autonomous subsidiary of Allianz. PIMCO is currently one of the world's largest fixed income managers with offices around the globe.

Investment Team

Mihir Worah, Managing Director and CIO of Real Return and Asset Allocation, has been the lead portfolio manager of the fund since December 2007. Mr. Worah is a member of PIMCO's Investment Committee and Executive Committee and oversees portfolio management of the US. He serves as a generalist portfolio manager who manages a variety of fixed income, commodity and multi-asset portfolios. In January 2015, PIMCO announced Jeramie Banet was added as a co-Portfolio Manager to the Real Return fund. Mr. Banet first joined PIMCO in 2011 and re-joined the firm in 2014.

The Real Return portfolio management team is responsible for adapting the firm's "top-down" views into TIPS portfolios and further incorporates TIPS-specific "bottom-up" views to create a well-diversified portfolio.

Investment Philosophy and Approach

PIMCO's Real Return investment philosophy is centered on the goal of delivering the strategic characteristics of the TIPS asset class in a way that enhances total real returns. The TIPS market provides a robust opportunity set to add active alpha and PIMCO's long-term track record is reflective of this. To accomplish the dual goals of providing exposure to the TIPS asset class and delivering active excess returns, the firm's Real Return investment philosophy is based on the following four key points:

- 1) Look to obtain the most cost efficient exposure to the TIPS market. PIMCO seeks better execution than rules-based, price indifferent passive investors. The firm also seeks to intelligently manage portfolio exposures around recurring structural factors that affect the TIPS market, such as index rebalancing and auctions.
- 2) Benefit from a diversified set of "top-down" and "bottom-up" strategies. PIMCO seeks to position TIPS portfolios to benefit from changing "top-down" macroeconomic conditions, such as global rates of growth and inflation, and from a range of "bottom-up" strategies, which relate to inflation and issue specific opportunities unique to the TIPS market.
- 3) Quantify and actively monitor all active positions. The excess return potential of each active



position is weighed against its potential risk and scaled accordingly, so as to preserve the strategic characteristics of the TIPS asset class while enhancing investors' real return potential.

4) Provide index-like characteristics with above-index returns. Portfolio returns should exhibit high correlation to the TIPS index with a higher level of return.

PIMCO's investment process is oriented to identify and implement global macro "top-down" opportunities and complement that with TIPS specific "bottom-up" strategies to create a well-diversified portfolio around a core strategic position in dedicated TIPS exposure. The firm's "top-down" views are driven by quarterly economic forums. Annually, all PIMCO investment professionals gather for a secular forum in which they identify forces that are likely to affect US and world economies and financial markets over a three to five year horizon. During the other three quarterly intervals, PIMCO investment professionals convene for cyclical forums in which they identify shorter-term economic forces that are likely to prevail over a three to twelve month horizon. The conclusions of these forums are further refined by the Portfolio Management group during an all-day "strategy meeting" in which each specialty desk contributes more detailed sector views. PIMCO's Investment Committee ultimately distills these views into a "model portfolio" that provides a risk position framework that can be adapted by each specialty portfolio manager. This model portfolio provides guidance with respect to duration, curve, country, sector, volatility and currency positioning.

PIMCO does not have any systematic selling procedures. Securities are sold subject to portfolio manager discretion while keeping portfolios directionally consistent with the Investment Committee's "model portfolio" themes. Current holdings are constantly re-evaluated for their relative attractiveness versus investments available in the marketplace. The expected length of an active "top down" position is generally consistent with the three to twelve month time horizon of the firm's cyclical views. "Bottom up" strategies, which are more micro in nature, may have a shorter expected payoff horizon.

Performance

Since being placed on "Watch" status 12 months ago, the PIMCO Real Return fund has trailed its benchmark, the Barclays US Treasury US TIPS Index, by (1.82%) and ranked in the 75th percentile versus its peers in the Inflation-Protected Bond category. Over the latest quarter the portfolio underperformed the benchmark by (0.66%) as an overweight exposure to long-dated US breakeven inflation and tactical exposure to Brazilian nominal duration was a drag on performance. The portfolio trailed the benchmark by (0.51%) over the 3-year period and (0.38%) over the 5-year period; these results ranked in the 43rd and 10th percentile versus their peers, respectively. Trailing 12-month and 36-month performance declined below the acceptable limits as per the Program's Monitoring Procedures and Criteria at the end of the period.

Recommendation

At this time, PCA recommends that the PIMCO Real Return Fund remain on "Watch" status.



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