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Capital Markets Review



Capital Markets Review As of September 30, 2022

Third Quarter Economic Environment

Investor sentiment and market movements continued to be driven by persistently high inflation levels and a corresponding tightening of monetary policy by most global central banks. Strong consumer demand, combined with supply chain disruptions and energy supply constraints caused by the war in Ukraine, exacerbated the difficulties for policymakers aiming to respond to inflation in an effective yet balanced manner. In its interim September 2022 economic outlook, OECD forecasted that headline inflation among G20 countries would finish 2022 above 8%—and only moderate to 6.6% in 2023. The OECD's inflation forecasts remain elevated compared to historical levels despite actions by global central banks, including the FOMC. In September, the FOMC increased the federal funds rate to a range of 3.00%-3.25%, which represented a third consecutive 0.75 percentage point hike. Global GDP growth forecasts continued to moderate during the guarter. The OECD forecasted real global GDP growth of 3.0% in 2022 and 2.2% in 2023, representing sharp declines from its December 2021 forecasts of 4.5% and 3.2%, respectively. Overall, economic and inflation forecasts are being impacted by multiple factors. In particular, the ongoing war in Ukraine could lead to sudden shifts in conditions, as global economic impacts could follow modifications to sanctions regimes, changes to external military support, pending NATO membership applications, or extreme energy supply shortages in Europe.

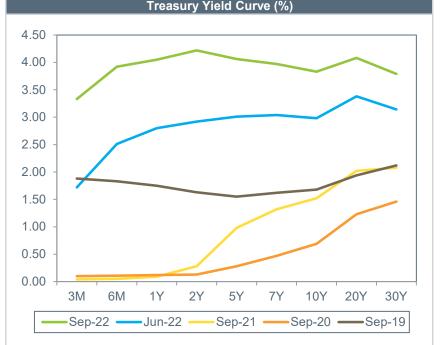
Economic Indicators

16 7	30 7	120]	70]	160]	
14 -	25 - 20 -	100 -	60	140 -	
12 -	15 -		50 -	120 -	
10 -	10 -	80 -	40 -	100 -	
8 -	5 -	60 -	30 -	80 -	
6 -	-5 -	00	20 -	60 -	
4 - •	-10 -	40 -	10 -	40 -	
	-15 -20	20	0	20	
Unemploymen	t CPI Year-over-	US Govt Debt	VIX Index	Consumer	
Rate (%)	Year (% change)	(% of GDP)	(Volatility)	Confidence	
Since 1948	. ,		Since 1990	Since 1967	
	Tuesa	virus Viold Cur	n (0/)		

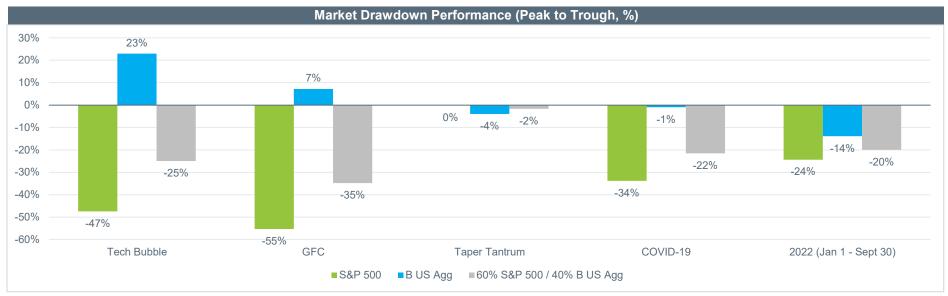
Kev Economic Indicators

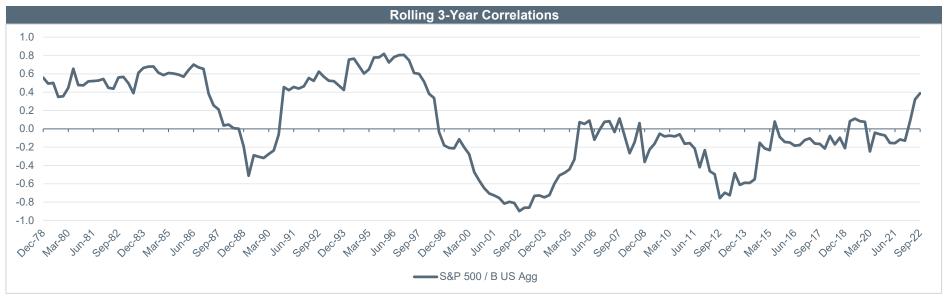
Economic indicators	3ep-22	Juii-22	Sep-21	Sep-19	20 TT
Federal Funds Rate (%)	3.08 🛕	1.58	0.06	1.90	1.27
Breakeven Infl 5 Yr (%)	2.16	2.62	2.53	1.35	1.91
Breakeven Infl 10 Yr (%)	2.15	2.34	2.38	1.52	2.07
CPI YoY (Headline) (%)	8.2	9.1	5.4		2.4
Unemployment Rate (%)	3.5	3.6		3.5	
Real GDP YoY (%)	1.8 =	1.8		2.3	
PMI - Manufacturing	50.9 T	53.0		48.1	53.7
USD Total Wtd Idx	127.64 ▲	121.05		117.95	103.22
WTI Crude Oil per Barrel (\$)	79.5 ▼	105.8		54.1	67.2
Gold Spot per Oz (\$)	1,661 ▼	1,807	1,757	1,472	1,143
Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	-4.88	-23.87	-15.47	9.24	11.70
Russell 2000	-2.19	-25.10	-23.50	3.55	8.55
MSCI EAFE (Net)	-9.36	-27.09	-25.13	-0.84	3.67
MSCI EAFE SC (Net)	-9.83	-32.11	-32.06	-1.79	5.28
MSCI Emg Mkts (Net)	-11.57	-27.16	-28.11	-1.81	1.05
Bloomberg US Agg Bond	-4.75	-14.61	-14.60	-0.27	0.89
		0.04	0.00	4.45	0.00
ICE BofAML 3 Mo US T-Bill	0.46	0.61	0.62	1.15	0.68
ICE BofAML 3 Mo US T-Bill NCREIF ODCE (Gross)	0.46 0.52	13.08		1.15 10.24	0.68 10.92
			22.09		
NCREIF ODCE (Gross)	0.52	13.08 -28.13	22.09 -16.41	10.24 2.93	10.92

Sen-22 Jun-22 Sen-21 Sen-19 20 Yr











Drawdown performance shown is cumulative. 2022 drawdown returns use a start (peak) date of January 1, 2022 and will differ slightly from CYTD returns. Correlation is calculated using quarterly periodicity.



US Equity Review
As of September 30, 2022

Third Quarter Review

Broad Market

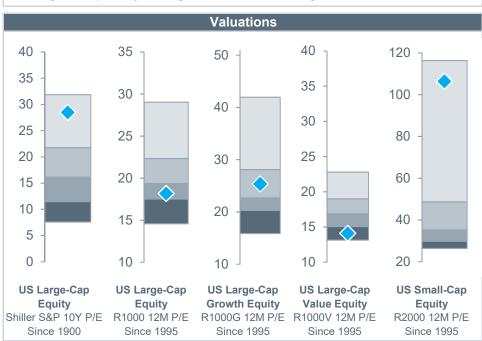
US equity markets continued elevated volatility in Q3. Following three consecutive calendar years with returns above 20.0%, the Russell 3000 Index has declined -24.6% year-to-date. Consumer discretionary and energy sectors provided investors with positive returns, while all other sectors were negative.

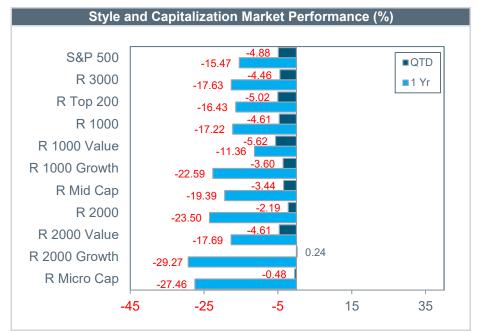
Market Cap

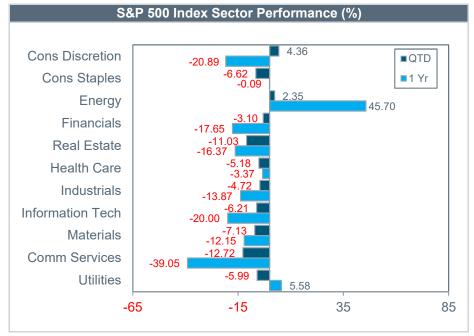
Large-cap stocks fell most sharply, followed by mid-cap stocks. The only exception was small-cap growth stocks, which had slightly positive returns. Overall, in a reversal of the style trend during the first half of the year, growth stocks outperformed value stocks during the quarter.

Style and Sector

Value-oriented managers had a higher success rate than core or growth managers, on average. Mid - and small-cap manager success rates versus their respective benchmarks have been higher than large-cap managers, especially among value-oriented managers.











Non-US Equity Review

As of September 30, 2022

Third Quarter Review

Developed Markets

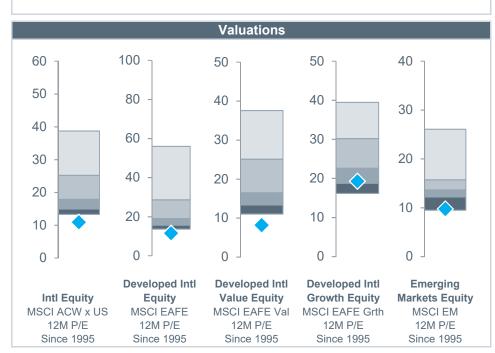
Developed international stocks significantly lagged domestic stocks during Q3. Developed international growth stocks outperformed value stocks, and small-cap stocks marginally trailed large-cap stocks. European stocks slightly trailed other developed regions, although the returns of individual European countries continued to vary widely. Countries with the closest energy ties to Russia, such as Germany, faced significant sentiment headwinds. Japan, which has been largely unaffected by energy supply disruptions, was a relative bright spot among the largest developed international countries.

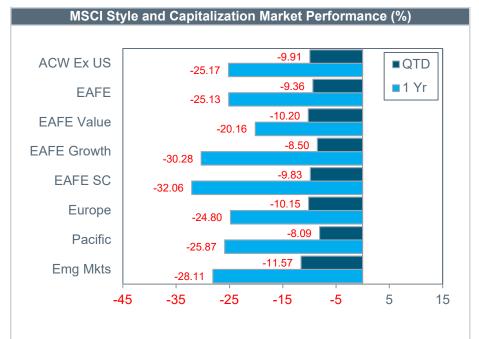
Emerging Markets

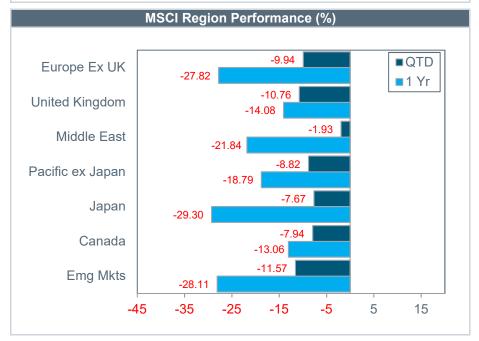
Emerging markets underperformed developed international markets in Q3 with the MSCI EM Index returning -11.57%. Nearly all emerging market countries experienced negative returns.

Market Cap & Style

In international markets, growth stocks outperformed value, while large-cap stocks trailed small by a wide margin.









P/E metrics shown represent the 5th through 95th percentiles to minimize the effect of outliers. All returns are shown net of foreign taxes on dividends.



Fixed Income Review

As of September 30, 2022

Third Quarter Review

Broad Market

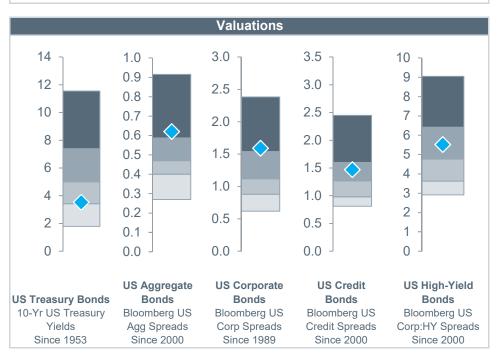
In Q3, the 10-year US Treasury yields rose 85 basis points from 2.98% to 3.83%. The Federal Reserve hiked the Federal Funds rate by 75 basis points twice during the quarter, as the FOMC continued to repond to inflationary pressures. The Bloomberg US Aggregate Bond Index ended Q3 with a return of -4.8%.

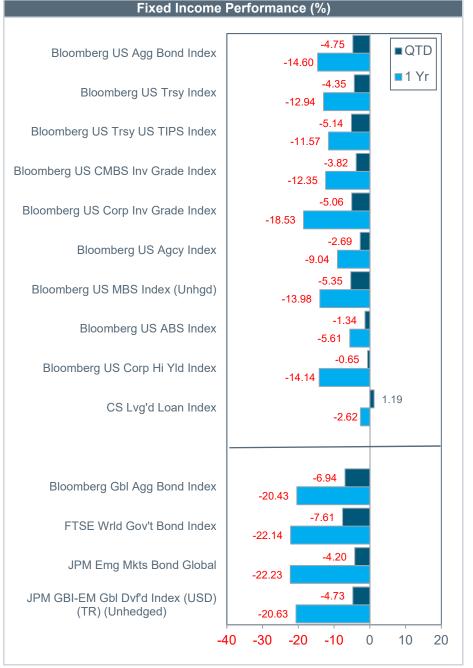
Credit Market

Investment grade underperformed both high yield and bank loans, which have relatively less interest rate sensitivity.

Emerging Market Debt

Emerging market debt continues to experience headwinds from the ongoing Russia-Ukraine war and US Dollar strength. Hard currency emerging market bonds declined -4.6%, while foreign developed market debt declined -10.0%, as measured by the JPM EMBI Global Diversified Index and the FTSE Non-US WGBI (Unhedged) Index, respectively.







Valuations shown represent the 5th through 95th percentiles to minimize the effect of outliers.



Alternatives Review As of September 30, 2022

Third Quarter Review - Absolute Return

General Market - Hedge Funds

Dispersion continued to be the theme across hedge fund strategies during Q3. Consistent with the first six months of the year, Macro and Trend Following strategies produced positive results, taking advantage of continued upward trends in global interest rates and the US dollar. The HFRI Macro Index returned 1.7% in Q3, while the SG Trend Index rose 5.1%. For the year, Trend Followers are now up 35.6%, massively outperforming the rest of the hedge fund industry.

General Market - Global Tactical Asset Allocation (GTAA)

Global Tactical Asset Allocation (GTAA) strategies that RVK follows closely posted losses for the second consecutive quarter. Given US dollar strength and a relatively strong quarter for US equity compared to other risk asset classes, nearly all active managers providing broader diversification underperformed a US-centric blend of 60% equity and 40% fixed income. The top-performing long-biased GTAA strategies were those that have been including meaningful market neutral, idiosyncratic relative valuation exposures.

HFRI Hedge Fund Performance (%) -0.41 HFRI FOF QTD -6.57 0.95 Conv Arbitrage ■1 Yr -2.57 **Equity Hedge** -13.25 0.70 Mkt Neutral Eq 1.00 -1.39 Distressed 1.78 Macro 10.07 0.00 Relative Value -1.94 -0.39 **Event Driven** -6.76 Merger Arb 1.89 -0.53 Credit Arb -5.75 -20 -10 0 10 20

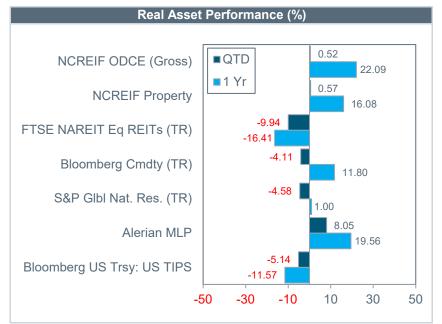
Third Quarter Review - Real Assets

General Market - Diversified Inflation Strategies (DIS)

Despite headwinds that have affected nearly all asset classes, Diversified Inflation Strategies (DIS) tracked closely by RVK have outperformed a US-centric blend of 60% equity and 40% fixed income for the quarter and year. After responding positively to record inflationary pressures in Q1, DIS again posted losses for the second consecutive quarter ranging from the negative mid-single digits to negative low double digits.

General Market - Real Estate

Core private real estate generated a positive 0.5% return in Q3 (on a preliminary and gross of fee basis), as reported by the NFI-ODCE Index, with a return contribution of 0.8% from income and -0.3% from price appreciation. The income return continues to trend at the lower end of historical levels while price appreciation turned negative. Investors of publicly traded real estate significantly underperformed their private market counterparts. Publicly traded real estate delivered a return of -11.2% in Q3, as measured by FTSE/NAREIT All REITs Index.





Annual Asset Class Performance As of September 30, 2022

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD
Best	8.44	78.51	27.94	22.49	20.00	38.82	30.14	15.02	21.31	37.28	8.35	31.49	19.96	43.24	13.57
1	5.24	58.21	26.85	15.99	18.23	32.39	19.31	9.59	17.13	33.01	1.87	26.00	18.40	28.71	13.08
	2.06	46.78	22.04	13.56	18.06	29.30	13.69	3.20	11.96	25.03	0.01	25.53	18.31	27.11	0.61
	-2.35	31.78	18.88	8.29	17.32	22.78	12.50	1.38	11.77	21.83	-1.26	24.96	16.12	22.17	-6.97
	-10.01	28.01	16.83	7.84	16.35	13.94	5.97	0.55	11.19	14.65	-2.08	22.01	12.34	14.82	-13.61
	-21.37	27.17	16.36	4.98	16.00	8.96	4.89	0.05	8.77	10.71	-4.02	19.59	10.99	11.26	-14.61
	-26.16	26.46	15.12	2.11	15.81	7.44	3.64	-0.27	8.52	7.77	-4.38	18.42	10.88	10.10	-14.74
	-33.79	18.91	15.06	0.10	10.94	2.47	3.37	-0.81	6.67	7.62	-4.62	14.32	7.82	6.17	-23.87
	-35.65	11.47	10.16	-4.18	8.78	0.07	2.45	-1.44	4.68	7.50	-4.68	8.72	7.51	5.96	-25.10
	-37.00	11.41	7.75	-5.72	6.98	-2.02	0.04	-3.30	2.65	5.23	-11.01	8.43	7.11	5.28	-27.09
	-37.74	5.93	6.54	-12.14	4.79	-2.60	-2.19	-4.41	2.18	3.54	-11.25	8.39	1.19	0.05	-27.16
	-43.38	1.92	6.31	-13.32	4.21	-8.61	-4.90	-4.47	1.00	3.01	-13.79	7.69	0.67	-1.55	-28.13
	-47.01	0.21	5.70	-15.94	0.11	-8.83	-4.95	-14.92	0.51	1.70	-14.57	5.34	-3.12	-2.52	-28.94
Worst	-53.33	-29.76	0.13	-18.42	-1.06	-9.52	-17.01	-24.66	0.33	0.86	-17.89	2.28	-8.00	-2.54	-32.11
									Discourt	NOD			DI FOE		ICE
S&P 500 US Larg Cap	ge US Sr	mall (Net)		(Net) - (N	MSCI EM Net) - Int'I img Mkts	Bloombrg US Agg Bond - FI		Bloombro i US Trsy U TIPS - FI	S Credit I	ov ODO	CE NARI	EIT Eq C	odov	Bloombrg Cmdty (TR) Commod.	ICE BofAML 3 Mo T-Bill - Cash Equiv

NCREIF ODCE (Gross) performance is reported quarterly; performance is shown N/A in interim-quarter months.



Total Fund



City of Jacksonville Employees' Retirement System Investment Manager Watch List

							Quantitati	ve Factors			Qualitative Factors			
Watch List Managers	Date Added to Watch List	Benchmark	Peer Group	Inception Date		ing 5-Year Return (GoF) for three secutive quarters vs. Benchmark Rolling 5-Year Retu consecutive quarte unive				Meaningful Updates	Last Meeting w/Staff or RVK	Rationale for Addition to Watch List		
US Equity					5-Years Ending Sept- 2022	5-Years Ending June- 2022	5-Years Ending Mar- 2022	5-Years Ending Sept- 2022	5-Years Ending June- 2022	5-Years Ending Mar- 2022				
Pinnacle US SMID Cap Growth Oct-20 R2500 Growth IM US SMID Cap Growth Equity (SA+CF) Median Mar-10			✓	✓	✓	×	×	×	N/A	Oct-22	Rolling five-year return (gross of fees) has fallen below the rolling five-year benchmark return for three consecutive quarters, and; Rolling five-year return (gross of fees) has ranked in the bottom third of the peer gro			

^{✓ =} strategy exceeds the benchmark / peer group over the stated trailing period.

Organization, Team, Process, and AUM Developments

Pinnacle US SMID Cap Growth (please refer to page 19 for gross performance)

Firm and product assets have declined incrementally, driven primarily by stock price depreciation, but remain in line with historical levels. There are no recent personnel changes to report nor indications of a change to the investment process. While the portfolio remains ahead of its benchmark in 2022 and for the trailing 12 months, it did underperform in the third quarter. Performance was most difficult in the strong market rally experienced in July while relative returns were flat as the market turned negative for the final two months of the quarter. RVK rates Pinnacle SMID Cap Growth as neutral and views it as an institutional quality option.

Recommendation: RVK recommends Pinnacle US SMID Cap Growth be removed from the Watch List due to improvement in performance relative to its benchmark and rankings amongst peers.



X = strategy does not exceed the benchmark / peer group over the stated trailing period.

City of Jacksonville Employees' Retirement System Asset Allocation, Performance & Schedule of Investable Assets

Allocation		Performance (%)		Allocation		Performance (%)
Market Value (\$)	%	QTD		Market Value (\$)	%	QTD
679,344,466	32.75	-3.90	Real Estate	473,544,885	22.83	3.30
165,899,633	8.00	-5.36	Harrison Street Core Property (CF)	131,722,203	6.35	6.18
192,702,399	9.29	-4.61	PGIM Real Estate PRISA II (CF)	78,708,085	3.79	4.34
140,442,499	6.77	-4.19	Principal US Property (CF)	169,889,186	8.19	0.46
60,303,962	2.91	-4.30	UBS Trumbull Property (CF)	81,655,116	3.94	3.88
60,294,954	2.91	-5.24	Vanguard RE Idx;ETF (VNQ)	1,089,149	0.05	-10.99
59,701,019	2.88	-2.38	Abacus Multi-Family Partners Fund VI (CF)	810,645	0.04	N/A
			H.I.G. Realty Fund IV	9,670,500	0.47	7.16
436,131,740	21.03	-11.19				
209,401,776	10.10	-10.85	Diversifying Assets	82,317,834	3.97	1.32
125,152,279	6.03	-10.58	Hancock Timberland (SA)	2,141,691	0.10	17.69
101,577,685	4.90	-12.64	Adams Street Private Equity (SA)	49,218,695	2.37	1.70
			Hamilton Lane Private Credit (SA)	30,957,448	1.49	-0.37
401,328,412	19.35	-3.85				
198,000,193	9.55	-4.68	Dreyfus Gvt Csh Mgt;Inst (DGCXX)	1,429,506	0.07	0.37
100,320,493	4.84	-3.31	Transition Account	68,253	0.00	N/A
103,007,725	4.97	N/A				
	Market Value (\$) 679,344,466 165,899,633 192,702,399 140,442,499 60,303,962 60,294,954 59,701,019 436,131,740 209,401,776 125,152,279 101,577,685 401,328,412 198,000,193 100,320,493	Value (\$) % 679,344,466 32.75 165,899,633 8.00 192,702,399 9.29 140,442,499 6.77 60,303,962 2.91 60,294,954 2.91 59,701,019 2.88 436,131,740 21.03 209,401,776 10.10 125,152,279 6.03 101,577,685 4.90 401,328,412 19.35 198,000,193 9.55 100,320,493 4.84	Market Value (\$) % QTD 679,344,466 32.75 -3.90 165,899,633 8.00 -5.36 192,702,399 9.29 -4.61 140,442,499 6.77 -4.19 60,303,962 2.91 -4.30 60,294,954 2.91 -5.24 59,701,019 2.88 -2.38 436,131,740 21.03 -11.19 209,401,776 10.10 -10.85 125,152,279 6.03 -10.58 101,577,685 4.90 -12.64 401,328,412 19.35 -3.85 198,000,193 9.55 -4.68 100,320,493 4.84 -3.31	Market Value (\$) % QTD	Market Value (\$) % QTD Market Value (\$) Market Value (\$) 679,344,466 32.75 -3.90 Real Estate 473,544,885 165,899,633 8.00 -5.36 Harrison Street Core Property (CF) 131,722,203 192,702,399 9.29 -4.61 PGIM Real Estate PRISA II (CF) 78,708,085 140,442,499 6.77 -4.19 Principal US Property (CF) 169,889,186 60,303,962 2.91 -4.30 UBS Trumbull Property (CF) 81,655,116 60,294,954 2.91 -5.24 Vanguard RE Idx;ETF (VNQ) 1,089,149 59,701,019 2.88 -2.38 Abacus Multi-Family Partners Fund VI (CF) 810,645 H.I.G. Realty Fund IV 9,670,500 436,131,740 21.03 -11.19 209,401,776 10.10 -10.85 Diversifying Assets 82,317,834 125,152,279 6.03 -10.58 Hancock Timberland (SA) 2,141,691 101,577,685 4.90 -12.64 Adams Street Private Equity (SA) 49,218,695 198,000,193	Market Value (\$) % QTD Real Estate % Value (\$) % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % % %

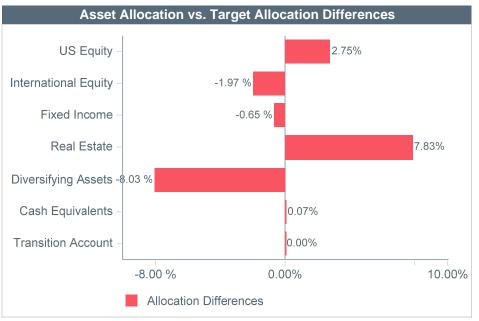
Schedule of Investable Assets (Total Assets)											
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return						
CYTD	2,664,636,142	-118,145,880	-472,325,167	2,074,165,095	-17.75						

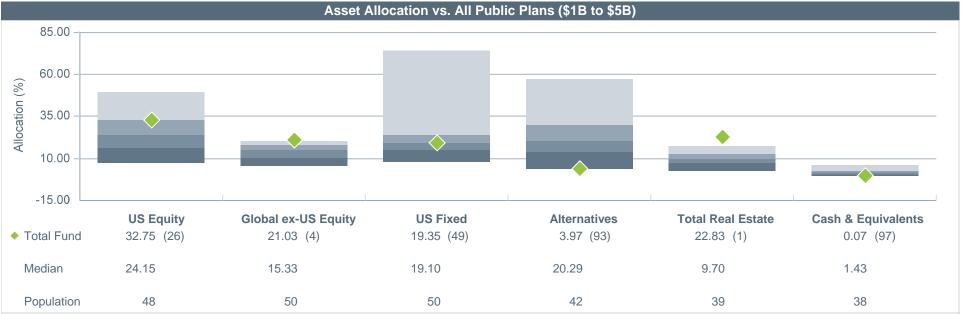


City of Jacksonville Employees' Retirement System Total Fund vs. All Public Plans (\$1B to \$5B)

Asset Allocation vs. Target and Plan Sponsor Peer Group

	Asset Allocation v	s. Target All	ocation		
	Market Value (\$)	Allocation (%)	Min (%)	Target (%)	Max (%)
Total Fund	2,074,165,095	100.00	-	100.00	-
US Equity	679,344,466	32.75	20.00	30.00	40.00
International Equity	436,131,740	21.03	13.00	23.00	25.00
Fixed Income	401,328,412	19.35	10.00	20.00	30.00
Real Estate	473,544,885	22.83	0.00	15.00	20.00
Diversifying Assets	82,317,834	3.97	0.00	12.00	20.00
Cash Equivalents	1,429,506	0.07	0.00	0.00	10.00
Transition Account	68,253	0.00	0.00	0.00	0.00





Allocations shown may not sum up to 100% exactly due to rounding. Parentheses contain percentile ranks.

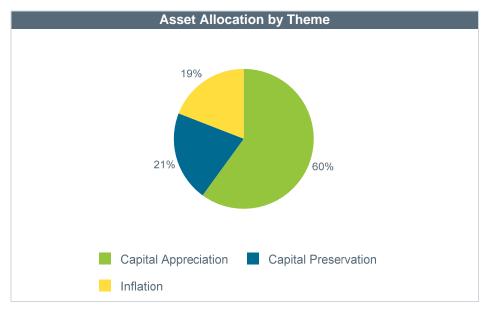


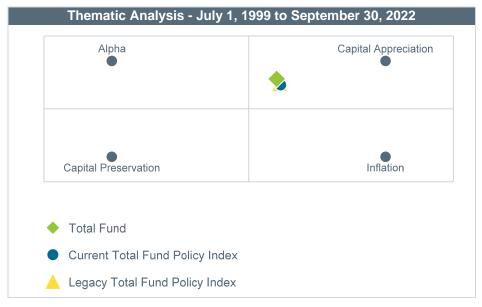
City of Jacksonville Employees' Retirement System Total Fund vs. All Public Plans (\$1B to \$5B) Plan Sponsor Peer Group Analysis

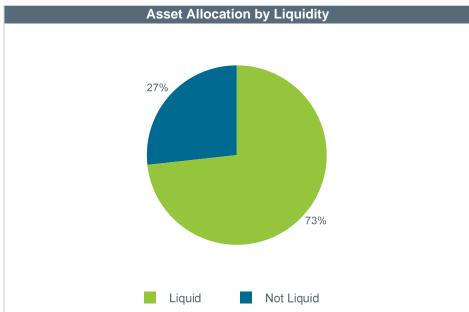


Performance shown is gross of fees. Parentheses contain percentile ranks. Fiscal year for the COJ ends 09/30.





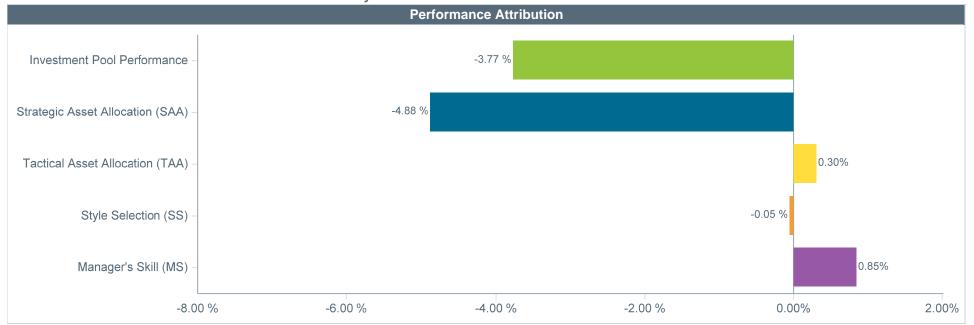


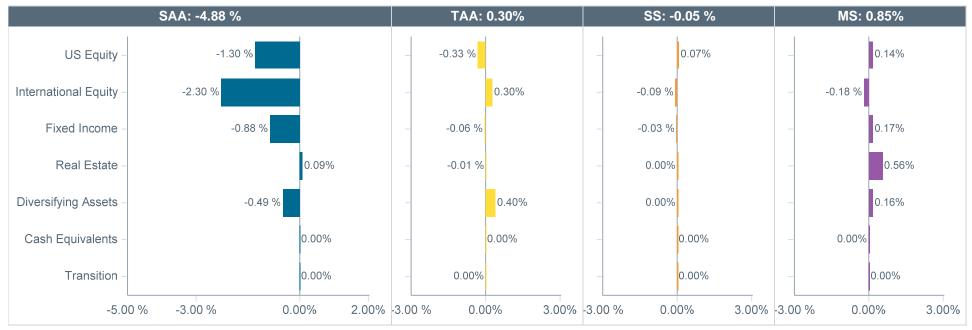


		Correlation Mat	rix - 10 Years	
	Α	В	С	D
Α	1.00			
В	0.56	1.00		
С	-0.15	-0.03	1.00	
D	0.48	0.77	0.10	1.00
A B C D	= = = = = = = = = = = = = = = = = = = =	HFRI EH: Equity Market N MSCI ACW Index (USD) (I Bloomberg US Gov't Bond Real Return Custom Index	Gross) (Capital Apprecia Index (Capital Preserv	

Asset Allocation by Theme is based on dedicated manager allocations; as such, thematic allocations are approximations. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating. Please see the Glossary for additional information regarding liquidity, thematic, and custom index descriptions.







Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



-6.00

-12.00

-18.00

-24.00

FY 2011

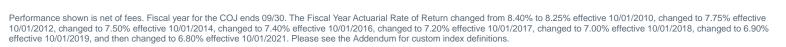
Total Fund

FY 2012

FY 2013

FY 2014

	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FYTD
otal Fund	11.31	0.77	18.32	17.09	11.54	-2.13	9.43	14.83	7.55	0.85	6.04	20.99	-15.1
Current Total Fund Policy Index	8.32	2.89	16.83	13.64	11.59	-1.89	10.39	11.35	7.83	3.09	2.34	22.78	-12.9
Difference	2.99	-2.12	1.49	3.45	-0.05	-0.24	-0.96	3.48	-0.28	-2.24	3.70	-1.79	-2.1
ctuarial Rate of Return	8.40	8.25	8.25	7.75	7.75	7.50	7.50	7.40	7.20	7.00	6.90	6.90	6.8
Difference	2.91	-7.48	10.07	9.34	3.79	-9.63	1.93	7.43	0.35	-6.15	-0.86	14.09	-21.9
30.00													
I													
24.00 -											22.78 20.99	3	
18.32	83 17.0º)										3	
18.32	83 17.0	13.64	1.5411.59		10.20	14.83	.35					3	
18.00 - 18.32	83 17.0º 8.25	13.64	1.5411.59 7.75	7.:	9.43 ^{10.39}			; <mark>7.83</mark> 7.20	7.00	6.	20.99		6.80
18.00 - 18.32 12.00 - 8.25		13.64		7.:		11		5 ^{7.83} 7.20		6.04	20.99	6.90	6.80
18.00 - 18.32 12.00 - 8.25		13.64		7.:		11			7.00 3.09 85	6.04 6.	20.99		6.80



FY 2015



12.98

FY 2022

-15.16

FY 2021

FY 2016

Current Total Fund Policy Index Actuarial Rate of Return

FY 2017

FY 2018

FY 2019

FY 2020

	Allocatio	n					Perfor	mance (%)			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Total Fund	2,074,165,095	100.00	-3.66	-17.46	-14.77	-14.77	3.35	3.89	6.32	7.13	6.03	07/01/1999
Current Total Fund Policy Index			-4.87	-17.25	-12.98	-12.98	3.02	3.98	5.90	6.40	5.40	
Difference			1.21	-0.21	-1.79	-1.79	0.33	-0.09	0.42	0.73	0.63	
All Public Plans (\$1B to \$5B) (Custom PG) Median			-4.09	-14.89	-11.27	-11.27	4.64	5.27	6.95	6.92	6.03	
Rank			32	72	73	73	77	82	74	45	50	
Total Equity	1,115,476,206	53.78	-6.50	-27.72	-25.42	-25.42	3.43	4.09	7.74	8.68	5.84	07/01/1999
US Equity	679,344,466	32.75	-3.79	-26.73	-22.37	-22.37	6.15	7.29	9.65	10.85	6.59	07/01/1999
US Equity Index			-4.46	-24.62	-17.63	-17.63	7.70	8.62	10.90	11.39	6.53	
Difference			0.67	-2.11	-4.74	-4.74	-1.55	-1.33	-1.25	-0.54	0.06	
IM U.S. Equity (SA+CF) Median			-4.25	-23.46	-16.68	-16.68	6.77	7.31	9.86	10.88	8.39	
Rank			43	70	71	71	58	51	53	51	84	
International Equity	436,131,740	21.03	-11.07	-29.43	-30.39	-30.39	-0.88	-0.88	4.65	4.93	4.99	07/01/1999
International Equity Index			-9.91	-26.50	-25.17	-25.17	-1.52	-0.81	3.29	3.01	3.05	
Difference			-1.16	-2.93	-5.22	-5.22	0.64	-0.07	1.36	1.92	1.94	
IM International Equity (SA+CF) Median			-9.47	-27.45	-25.97	-25.97	-0.43	0.04	3.97	4.89	5.22	
Rank			81	64	75	75	59	69	38	49	56	
Fixed Income	401,328,412	19.35	-3.77	-14.15	-14.66	-14.66	-3.15	-0.81	0.78	1.01	4.29	07/01/1999
Fixed Income Index			-4.45	-14.90	-14.92	-14.92	-3.11	-0.19	0.60	0.93	3.90	
Difference			0.68	0.75	0.26	0.26	-0.04	-0.62	0.18	0.08	0.39	
IM Global Fixed Income (SA+CF) Median			-3.66	-16.09	-16.06	-16.06	-2.23	0.36	2.16	1.70	5.57	
Rank			53	36	42	42	63	66	66	53	62	
Real Estate	473,544,885	22.83	3.44	14.47	22.37	22.37	10.38	9.18	8.96	9.72	7.12	12/01/2005
Real Estate Index			0.32	12.37	20.97	20.97	11.38	9.27	8.87	9.91	7.08	
Difference			3.12	2.10	1.40	1.40	-1.00	-0.09	0.09	-0.19	0.04	
Core Real Estate	463,063,739	22.33	3.40	14.03	21.82	21.82	10.22	9.08	8.89	9.67	7.10	12/01/2005
NCREIF ODCE Index (AWA) (Gross)			0.52	13.08	22.09	22.09	12.37	10.24	9.85	10.92	8.07	
Difference			2.88	0.95	-0.27	-0.27	-2.15	-1.16	-0.96	-1.25	-0.97	
Non-Core Real Estate	10,481,145	0.51	7.16	72.24	N/A	N/A	N/A	N/A	N/A	N/A	72.24	01/01/2022
NCREIF ODCE Index (AWA)(Gross) +2%			1.02	14.77	24.54	24.54	14.62	12.45	12.05	13.13	14.77	
Difference			6.14	57.47	N/A	N/A	N/A	N/A	N/A	N/A	57.47	
Diversifying Assets	82,317,834	3.97	1.40	24.53	41.57	41.57	16.20	9.72	8.76	8.26	9.01	03/01/2011
Diversifying Assets Index			-4.06	-17.23	-11.68	-11.68	-3.35	-1.37	0.14	1.34	2.00	
Difference			5.46	41.76	53.25	53.25	19.55	11.09	8.62	6.92	7.01	



·	Allocation	1					Perfor	mance (%))			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
US Equity												
Eagle Capital Large Cap Value (SA)	165,899,633	8.00	-5.19	-30.54	-28.20	-28.20	4.34	6.94	9.78	11.38	9.46	02/01/2007
Russell 1000 Val Index			-5.62	-17.75	-11.36	-11.36	4.36	5.29	8.15	9.17	5.76	
Difference			0.43	-12.79	-16.84	-16.84	-0.02	1.65	1.63	2.21	3.70	
IM U.S. Large Cap Value Equity (SA+CF) Median			-5.72	-16.57	-9.64	-9.64	6.57	6.84	9.31	10.11	7.21	
Rank			40	98	98	98	85	48	33	19	6	
Mellon Large Cap Core Index (CF)	192,702,399	9.29	-4.61	-24.58	-17.21	-17.21	7.92	N/A	N/A	N/A	7.42	05/01/2019
Russell 1000 Index			-4.61	-24.59	-17.22	-17.22	7.95	9.00	11.15	11.60	7.45	
Difference			0.00	0.01	0.01	0.01	-0.03	N/A	N/A	N/A	-0.03	
IM U.S. Large Cap Core Equity (SA+CF) Median			-4.84	-23.04	-15.41	-15.41	7.63	8.80	10.82	11.68	7.14	
Rank			43	69	68	68	45	N/A	N/A	N/A	43	
Loomis Sayles Large Cap Growth (CF)	140,442,499	6.77	-4.02	-31.36	-26.67	-26.67	6.25	8.64	N/A	N/A	9.23	08/01/2017
Russell 1000 Grth Index	, ,		-3.60	-30.66	-22.59	-22.59	10.67	12.16	13.74	13.70	12.42	
Difference			-0.42	-0.70	-4.08	-4.08	-4.42	-3.52	N/A	N/A	-3.19	
IM U.S. Large Cap Growth Equity (SA+CF) Median			-4.12	-31.92	-25.79	-25.79	7.80	10.52	12.14	12.76	10.66	
Rank			48	46	59	59	73	84	N/A	N/A	79	
Kayne Anderson US SMID Value (SA)	60,303,962	2.91	-4.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-14.85	03/01/2022
Russell 2500 Val Index			-4.50	-20.41	-15.35	-15.35	4.52	3.78	7.32	8.41	-17.50	
Difference			0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.65	
IM U.S. SMID Cap Value Equity (SA+CF) Median			-4.61	-19.12	-13.48	-13.48	6.56	5.69	8.58	9.91	-16.50	
Rank			41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	
Systematic Financial US SMID Value (SA)	60,294,954	2.91	-5.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-17.92	03/01/2022
Russell 2500 Val Index			-4.50	-20.41	-15.35	-15.35	4.52	3.78	7.32	8.41	-17.50	
Difference			-0.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.42	
IM U.S. SMID Cap Value Equity (SA+CF) Median			-4.61	-19.12	-13.48	-13.48	6.56	5.69	8.58	9.91	-16.50	
Rank			63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	64	
Pinnacle Associates US SMID Cap Growth (SA)	59,701,019	2.88	-2.22	-26.69	-24.23	-24.23	8.65	7.24	10.79	11.54	12.40	03/01/2010
Russell 2500 Grth Index			-0.12	-29.54	-29.39	-29.39	4.76	6.30	8.84	10.30	11.26	
Difference			-2.10	2.85	5.16	5.16	3.89	0.94	1.95	1.24	1.14	
IM U.S. SMID Cap Growth Equity (SA+CF) Median			-1.13	-30.16	-27.35	-27.35	6.77	9.32	10.71	11.20	12.68	
Rank			59	22	20	20	29	76	45	34	59	



	Allocation	n					Perfor	mance (%))			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
International Equity												
Silchester International Value (CF)	209,401,776	10.10	-10.72	-20.23	-20.15	-20.15	-0.59	-0.65	3.96	5.93	7.48	06/01/2009
MSCI EAFE Val Index (USD) (Net)			-10.20	-21.08	-20.16	-20.16	-2.79	-2.74	1.42	2.39	3.22	
Difference			-0.52	0.85	0.01	0.01	2.20	2.09	2.54	3.54	4.26	
IM EAFE Value (SA+CF) Median			-10.13	-23.44	-22.81	-22.81	-1.06	-0.73	2.86	4.03	5.35	
Rank			64	18	25	25	45	43	24	13	10	
Baillie Gifford International Growth (BGEFX)	125,152,279	6.03	-10.47	-41.74	-44.32	-44.32	-0.20	0.62	7.00	6.63	7.87	06/01/2009
Baillie Gifford Index			-9.37	-31.84	-30.22	-30.22	-1.38	0.15	3.54	4.43	5.50	
Difference			-1.10	-9.90	-14.10	-14.10	1.18	0.47	3.46	2.20	2.37	
Baillie Gifford Spliced Index			-9.91	-26.50	-25.17	-25.17	-1.41	-0.58	3.03	3.80	4.67	
Difference			-0.56	-15.24	-19.15	-19.15	1.21	1.20	3.97	2.83	3.20	
IM ACWI Ex US Growth (SA+CF) Median			-8.52	-32.98	-31.39	-31.39	0.01	1.14	5.04	5.08	6.65	
Rank			90	96	98	98	57	60	14	17	21	
Acadian Emerging Markets (CF)	101,577,685	4.90	-12.50	-27.82	-27.21	-27.21	-0.42	-1.99	4.19	1.81	1.49	02/01/2011
MSCI Emg Mkts Index (USD) (Net)			-11.57	-27.16	-28.11	-28.11	-2.07	-1.81	3.88	1.05	0.36	
Difference			-0.93	-0.66	0.90	0.90	1.65	-0.18	0.31	0.76	1.13	
IM Emerging Markets Equity (SA+CF) Median			-10.21	-27.04	-27.47	-27.47	-0.62	-0.89	4.84	2.41	1.64	
Rank			83	60	48	48	48	77	63	70	58	
Fixed Income												
Baird Core Fixed Income (SA)	198,000,193	9.55	-4.63	-14.82	-14.97	-14.97	N/A	N/A	N/A	N/A	-9.04	03/01/2021
Bloomberg US Agg Bond Index			-4.75	-14.61	-14.60	-14.60	-3.26	-0.27	0.54	0.89	-9.14	
Difference			0.12	-0.21	-0.37	-0.37	N/A	N/A	N/A	N/A	0.10	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median			-4.55	-14.43	-14.48	-14.48	-2.70	0.18	1.07	1.37	-8.84	
Rank			59	68	73	73	N/A	N/A	N/A	N/A	63	
Loomis Sayles Multisector Full Discretion (CF)	100,320,493	4.84	-3.23	-14.36	-14.43	-14.43	-0.02	1.88	3.69	3.86	5.54	10/01/2007
Bloomberg Gbl Agg Bond Index			-6.94	-19.89	-20.43	-20.43	-5.74	-2.32	-0.64	-0.93	1.40	
Difference			3.71	5.53	6.00	6.00	5.72	4.20	4.33	4.79	4.14	
IM Global Fixed Income (SA+CF) Median			-3.66	-16.09	-16.06	-16.06	-2.23	0.36	2.16	1.70	2.62	
Rank			48	38	41	41	22	23	28	18	8	
Schroder Flexible Secured Income Fund	103,007,725	4.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10/01/2022
1 Month LIBOR+1.75%			0.94	1.99	2.45	2.45	2.40	2.98	2.82	2.55	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1 Month LIBOR+5%			1.74	4.42	5.73	5.73	5.67	6.27	6.10	5.83	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



	Allocation	1						mance (%	<u> </u>			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Real Estate												
Harrison Street Core Property (CF)	131,722,203	6.35	6.18	11.60	14.72	14.72	8.74	8.91	N/A	N/A	8.57	11/01/2015
NCREIF ODCE Index (AWA) (Gross)			0.52	13.08	22.09	22.09	12.37	10.24	9.85	10.92	9.97	
Difference			5.66	-1.48	-7.37	-7.37	-3.63	-1.33	N/A	N/A	-1.40	
PGIM Real Estate PRISA II (CF)	78,708,085	3.79	4.50	19.84	28.71	28.71	12.34	11.20	10.40	N/A	10.99	01/01/2015
NCREIF ODCE Index (AWA) (Gross)			0.52	13.08	22.09	22.09	12.37	10.24	9.85	10.92	10.37	
Difference			3.98	6.76	6.62	6.62	-0.03	0.96	0.55	N/A	0.62	
Principal US Property (CF)	169,889,186	8.19	0.66	11.78	23.26	23.26	12.57	10.86	10.64	N/A	11.40	01/01/2014
NCREIF ODCE Index (AWA) (Gross)			0.52	13.08	22.09	22.09	12.37	10.24	9.85	10.92	10.61	
Difference			0.14	-1.30	1.17	1.17	0.20	0.62	0.79	N/A	0.79	
UBS Trumbull Property (CF)	81,655,116	3.94	4.07	18.13	25.51	25.51	7.93	6.14	6.40	7.84	6.53	12/01/2005
NCREIF ODCE Index (AWA) (Gross)	,,,,,,		0.52	13.08	22.09	22.09	12.37	10.24	9.85	10.92	8.07	
Difference			3.55	5.05	3.42	3.42	-4.44	-4.10	-3.45	-3.08	-1.54	
Vanguard RE ldx;ETF (VNQ)	1,089,149	0.05	-10.99	-29.28	-18.66	-18.66	-1.61	3.06	4.83	6.08	10.83	12/01/2008
Custom REITs Index	, ,		-10.98	-29.20	-18.62	-18.62	-1.49	3.48	5.24	6.48	11.57	
Difference			-0.01	-0.08	-0.04	-0.04	-0.12	-0.42	-0.41	-0.40	-0.74	
Abacus Multi-Family Partners Fund VI (CF)	810,645	0.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10/01/2022
NCREIF ODCE Index (AWA) (Net) (Monthly)+2%	,		0.81	14.04	23.38	23.38	13.61	11.45	11.05	12.11	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
H.I.G. Realty Fund IV	9,670,500	0.47	7.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/01/2022
NCREIF ODCE Index (AWA)(Gross) +2%	, ,		1.02	14.77	24.54	24.54	14.62	12.45	12.05	13.13	14.77	
Difference			6.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Diversifying Assets												
Hancock Timberland (SA)	2,141,691	0.10	17.69	61.46	67.72	67.72	29.04	18.43	15.10	13.45	7.80	10/01/2006
NCREIF Timberland Index			2.38	7.64	12.54	12.54	5.80	4.69	4.28	5.90	5.65	
Difference			15.31	53.82	55.18	55.18	23.24	13.74	10.82	7.55	2.15	
Adams Street Private Equity (SA)	49,218,695	2.37	1.70	27.98	58.21	58.21	N/A	N/A	N/A	N/A	37.43	11/01/2020
S&P 500 Index+3%			-4.18	-22.16	-12.94	-12.94	11.41	12.51	14.75	15.05	9.73	
Difference			5.88	50.14	71.15	71.15	N/A	N/A	N/A	N/A	27.70	
Hamilton Lane Private Credit (SA)	30,957,448	1.49	-0.12	4.57	7.00	7.00	N/A	N/A	N/A	N/A	5.48	04/01/2021
ICE BofAML Gbl Hi Yld Index +2%			-2.15	-17.71	-17.93	-17.93	-0.87	1.66	4.92	4.98	-10.47	
Difference			2.03	22.28	24.93	24.93	N/A	N/A	N/A	N/A	15.95	
Dreyfus Gvt Csh Mgt;Inst (DGCXX)	1,429,506	0.07	0.39	0.73	0.87	0.87	0.78	1.30	1.07	0.78	1.35	04/01/200
FTSE 3 Mo T-Bill Index			0.45	0.62	0.63	0.63	0.57	1.13	0.92	0.66	1.29	
Difference			-0.06	0.11	0.24	0.24	0.21	0.17	0.15	0.12	0.06	

Performance shown is gross of fees except if noted otherwise, and is annualized for periods greater than one year. Allocations may not sum up to 100% due to the exclusion of managers in liquidation. Please see the addendum for custom benchmark definitions. Fiscal year for the COJ ends 09/30.



	Allocatio	n					Perfori	mance (%	6)			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Total Fund	2,074,165,095	100.00	-3.77	-17.75	-15.16	-15.16	2.87	3.38	5.80	6.61	5.71	07/01/1999
Current Total Fund Policy Index			-4.87	-17.25	-12.98	-12.98	3.02	3.98	5.90	6.40	5.40	
Difference			1.10	-0.50	-2.18	-2.18	-0.15	-0.60	-0.10	0.21	0.31	
Total Equity	1,115,476,206	53.78	-6.62	-28.00	-25.78	-25.78	2.93	3.57	7.18	8.11	5.52	07/01/1999
US Equity	679,344,466	32.75	-3.90	-27.00	-22.71	-22.71	5.67	6.79	9.11	10.30	6.28	07/01/1999
US Equity Index			-4.46	-24.62	-17.63	-17.63	7.70	8.62	10.90	11.39	6.53	
Difference			0.56	-2.38	-5.08	-5.08	-2.03	-1.83	-1.79	-1.09	-0.25	
International Equity	436,131,740	21.03	-11.19	-29.73	-30.77	-30.77	-1.42	-1.43	4.07	4.34	4.65	07/01/1999
International Equity Index			-9.91	-26.50	-25.17	-25.17	-1.52	-0.81	3.29	3.01	3.05	
Difference			-1.28	-3.23	-5.60	-5.60	0.10	-0.62	0.78	1.33	1.60	
Fixed Income	401,328,412	19.35	-3.85	-14.35	-14.92	-14.92	-3.41	-1.08	0.53	0.79	4.13	07/01/1999
Fixed Income Index			-4.45	-14.90	-14.92	-14.92	-3.11	-0.19	0.60	0.93	3.90	
Difference			0.60	0.55	0.00	0.00	-0.30	-0.89	-0.07	-0.14	0.23	
Real Estate	473,544,885	22.83	3.30	14.02	21.72	21.72	9.70	8.43	8.21	8.92	6.45	12/01/2005
Real Estate Index			0.32	12.37	20.97	20.97	11.38	9.27	8.87	9.91	7.08	
Difference			2.98	1.65	0.75	0.75	-1.68	-0.84	-0.66	-0.99	-0.63	
Core Real Estate	463,063,739	22.33	3.26	13.57	21.25	21.25	9.56	8.34	8.15	8.87	6.43	12/01/2005
NCREIF ODCE Index (AWA) (Net)			0.31	12.36	20.96	20.96	11.38	9.26	8.87	9.91	7.08	
Difference			2.95	1.21	0.29	0.29	-1.82	-0.92	-0.72	-1.04	-0.65	
Non-Core Real Estate	10,481,145	0.51	7.16	72.24	N/A	N/A	N/A	N/A	N/A	N/A	72.24	01/01/2022
NCREIF ODCE Index (AWA) (Net) (Monthly)+2%			0.81	14.04	23.38	23.38	13.61	11.45	11.05	12.11	14.04	
Difference			6.35	58.20	N/A	N/A	N/A	N/A	N/A	N/A	58.20	
Diversifying Assets	82,317,834	3.97	1.32	24.16	40.94	40.94	15.57	9.14	8.21	7.71	8.47	03/01/2011
Diversifying Assets Index			-4.06	-17.23	-11.68	-11.68	-3.35	-1.37	0.14	1.34	2.00	
Difference			5.38	41.39	52.62	52.62	18.92	10.51	8.07	6.37	6.47	



	Allocation	1					Perfori	mance (%	(a)			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
US Equity												
Eagle Capital Large Cap Value (SA)	165,899,633	8.00	-5.36	-30.94	-28.74	-28.74	3.57	6.14	8.97	10.54	8.76	02/01/2007
Russell 1000 Val Index			-5.62	-17.75	-11.36	-11.36	4.36	5.29	8.15	9.17	5.76	
Difference			0.26	-13.19	-17.38	-17.38	-0.79	0.85	0.82	1.37	3.00	
Mellon Large Cap Core Index (CF)	192,702,399	9.29	-4.61	-24.60	-17.22	-17.22	7.89	N/A	N/A	N/A	7.40	05/01/2019
Russell 1000 Index			-4.61	-24.59	-17.22	-17.22	7.95	9.00	11.15	11.60	7.45	
Difference			0.00	-0.01	0.00	0.00	-0.06	N/A	N/A	N/A	-0.05	
Loomis Sayles Large Cap Growth (CF)	140,442,499	6.77	-4.19	-31.75	-27.15	-27.15	5.66	8.07	N/A	N/A	8.51	07/01/2017
Russell 1000 Grth Index			-3.60	-30.66	-22.59	-22.59	10.67	12.16	13.74	13.70	12.78	
Difference			-0.59	-1.09	-4.56	-4.56	-5.01	-4.09	N/A	N/A	-4.27	
Kayne Anderson US SMID Value (SA)	60,303,962	2.91	-4.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-15.06	03/01/2022
Russell 2500 Val Index			-4.50	-20.41	-15.35	-15.35	4.52	3.78	7.32	8.41	-17.50	
Difference			0.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.44	
Systematic Financial US SMID Value (SA)	60,294,954	2.91	-5.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-18.12	03/01/2022
Russell 2500 Val Index			-4.50	-20.41	-15.35	-15.35	4.52	3.78	7.32	8.41	-17.50	
Difference			-0.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-0.62	
Pinnacle Associates US SMID Cap Growth (SA)	59,701,019	2.88	-2.38	-27.32	-24.88	-24.88	7.93	6.57	10.06	10.77	11.63	03/01/2010
Russell 2500 Grth Index			-0.12	-29.54	-29.39	-29.39	4.76	6.30	8.84	10.30	11.26	
Difference			-2.26	2.22	4.51	4.51	3.17	0.27	1.22	0.47	0.37	



	Allocation						Performance (%)					
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
International Equity												
Silchester International Value (CF)	209,401,776	10.10	-10.85	-20.58	-20.61	-20.61	-1.16	-1.21	3.37	5.31	6.85	06/01/2009
MSCI EAFE Val Index (USD) (Net)			-10.20	-21.08	-20.16	-20.16	-2.79	-2.74	1.42	2.39	3.22	
Difference			-0.65	0.50	-0.45	-0.45	1.63	1.53	1.95	2.92	3.63	
Baillie Gifford International Growth (BGEFX)	125,152,279	6.03	-10.58	-41.96	-44.60	-44.60	-0.69	0.11	6.45	6.08	7.46	06/01/2009
Baillie Gifford Index			-9.37	-31.84	-30.22	-30.22	-1.38	0.15	3.54	4.43	5.50	
Difference			-1.21	-10.12	-14.38	-14.38	0.69	-0.04	2.91	1.65	1.96	
Baillie Gifford Spliced Index			-9.91	-26.50	-25.17	-25.17	-1.41	-0.58	3.03	3.80	4.67	
Difference			-0.67	-15.46	-19.43	-19.43	0.72	0.69	3.42	2.28	2.79	
Acadian Emerging Markets (CF)	101,577,685	4.90	-12.64	-28.14	-27.64	-27.64	-1.00	-2.56	3.58	1.20	0.90	02/01/2011
MSCI Emg Mkts Index (USD) (Net)			-11.57	-27.16	-28.11	-28.11	-2.07	-1.81	3.88	1.05	0.36	
Difference			-1.07	-0.98	0.47	0.47	1.07	-0.75	-0.30	0.15	0.54	
Fixed Income												
Baird Core Fixed Income (SA)	198,000,193	9.55	-4.68	-14.96	-15.16	-15.16	N/A	N/A	N/A	N/A	-9.21	03/01/2021
Bloomberg US Agg Bond Index			-4.75	-14.61	-14.60	-14.60	-3.26	-0.27	0.54	0.89	-9.14	
Difference			0.07	-0.35	-0.56	-0.56	N/A	N/A	N/A	N/A	-0.07	
Loomis Sayles Multisector Full Discretion (CF)	100,320,493	4.84	-3.31	-14.59	-14.73	-14.73	-0.40	1.48	3.30	3.45	5.19	10/01/2007
Bloomberg Gbl Agg Bond Index			-6.94	-19.89	-20.43	-20.43	-5.74	-2.32	-0.64	-0.93	1.40	
Difference			3.63	5.30	5.70	5.70	5.34	3.80	3.94	4.38	3.79	
Schroder Flexible Secured Income Fund	103,007,725	4.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10/01/2022
1 Month LIBOR+1.75%			0.94	1.99	2.45	2.45	2.40	2.98	2.82	2.55	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
1 Month LIBOR+5%			1.74	4.42	5.73	5.73	5.67	6.27	6.10	5.83	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



	Allocation						Perfor	mance (%	6)			
	Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
Real Estate												
Harrison Street Core Property (CF)	131,722,203	6.35	6.18	11.60	14.72	14.72	8.38	8.42	N/A	N/A	8.21	11/01/2015
NCREIF ODCE Index (AWA) (Net)			0.31	12.36	20.96	20.96	11.38	9.26	8.87	9.91	8.98	
Difference			5.87	-0.76	-6.24	-6.24	-3.00	-0.84	N/A	N/A	-0.77	
PGIM Real Estate PRISA II (CF)	78,708,085	3.79	4.34	19.28	27.91	27.91	11.55	10.20	9.52	N/A	10.12	01/01/2015
NCREIF ODCE Index (AWA) (Net)			0.31	12.36	20.96	20.96	11.38	9.26	8.87	9.91	9.38	
Difference			4.03	6.92	6.95	6.95	0.17	0.94	0.65	N/A	0.74	
Principal US Property (CF)	169,889,186	8.19	0.46	11.12	22.29	22.29	11.68	9.97	9.75	N/A	10.51	01/01/2014
NCREIF ODCE Index (AWA) (Net)			0.31	12.36	20.96	20.96	11.38	9.26	8.87	9.91	9.61	
Difference			0.15	-1.24	1.33	1.33	0.30	0.71	0.88	N/A	0.90	
UBS Trumbull Property (CF)	81,655,116	3.94	3.88	17.47	24.56	24.56	7.17	5.34	5.52	6.89	5.61	12/01/2005
NCREIF ODCE Index (AWA) (Net)			0.31	12.36	20.96	20.96	11.38	9.26	8.87	9.91	7.08	
Difference			3.57	5.11	3.60	3.60	-4.21	-3.92	-3.35	-3.02	-1.47	
Vanguard RE ldx;ETF (VNQ)	1,089,149	0.05	-10.99	-29.28	-18.66	-18.66	-1.61	3.06	4.83	6.08	10.83	12/01/2008
Custom REITs Index			-10.98	-29.20	-18.62	-18.62	-1.49	3.48	5.24	6.48	11.57	
Difference			-0.01	-0.08	-0.04	-0.04	-0.12	-0.42	-0.41	-0.40	-0.74	
Abacus Multi-Family Partners Fund VI (CF)	810,645	0.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10/01/2022
NCREIF ODCE Index (AWA) (Net) (Monthly)+2%			0.81	14.04	23.38	23.38	13.61	11.45	11.05	12.11	N/A	
Difference			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
H.I.G. Realty Fund IV	9,670,500	0.47	7.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/01/2022
NCREIF ODCE Index (AWA) (Net) (Monthly)+2%			0.81	14.04	23.38	23.38	13.61	11.45	11.05	12.11	14.04	
Difference			6.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

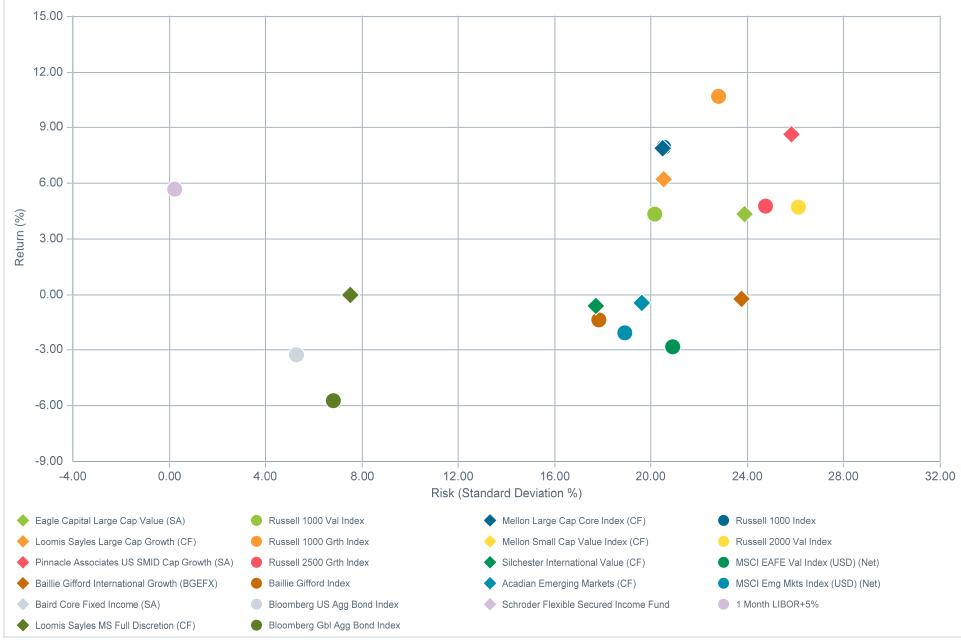


Allocation	1					Perfori	mance (%	5)			
Market Value (\$)	%	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	Since Incep.	Inception Date
2,141,691	0.10	17.69	61.46	67.72	67.72	29.04	18.43	15.10	13.45	7.80	10/01/2006
		2.38	7.64	12.54	12.54	5.80	4.69	4.28	5.90	5.65	
		15.31	53.82	55.18	55.18	23.24	13.74	10.82	7.55	2.15	
49,218,695	2.37	1.70	27.98	58.21	58.21	N/A	N/A	N/A	N/A	37.43	11/01/2020
		-4.18	-22.16	-12.94	-12.94	11.41	12.51	14.75	15.05	9.73	
		5.88	50.14	71.15	71.15	N/A	N/A	N/A	N/A	27.70	
30,957,448	1.49	-0.37	3.28	4.94	4.94	N/A	N/A	N/A	N/A	-3.73	04/01/2021
		-2.15	-17.71	-17.93	-17.93	-0.87	1.66	4.92	4.98	-10.47	
		1.78	20.99	22.87	22.87	N/A	N/A	N/A	N/A	6.74	
1,429,506	0.07	0.37	0.62	0.72	0.72	0.62	1.17	0.98	0.71	1.31	04/01/2001
		0.45	0.62	0.63	0.63	0.57	1.13	0.92	0.66	1.29	
		-0.08	0.00	0.09	0.09	0.05	0.04	0.06	0.05	0.02	
	Market Value (\$) 2,141,691 49,218,695 30,957,448	Value (\$) 2,141,691 49,218,695 2.37 30,957,448 1.49	Market Value (\$) % QTD 2,141,691 0.10 17.69 2.38 15.31 49,218,695 2.37 1.70 -4.18 5.88 30,957,448 1.49 -0.37 -2.15 1.78 1,429,506 0.07 0.37 0.45	Market Value (\$) % QTD CYTD 2,141,691 0.10 17.69 61.46	Market Value (\$) % QTD CYTD FYTD 2,141,691 0.10 17.69 61.46 67.72 2.38 7.64 12.54 15.31 53.82 55.18 49,218,695 2.37 1.70 27.98 58.21 -4.18 -22.16 -12.94 5.88 50.14 71.15 30,957,448 1.49 -0.37 3.28 4.94 -2.15 -17.71 -17.93 1.78 20.99 22.87 1,429,506 0.07 0.37 0.62 0.72 0.45 0.62 0.63	Market Value (\$) % QTD CYTD FYTD 1 Year 2,141,691 0.10 17.69 61.46 67.72 67.72 2.38 7.64 12.54 12.54 15.31 53.82 55.18 55.18 49,218,695 2.37 1.70 27.98 58.21 58.21 -4.18 -22.16 -12.94 -12.94 5.88 50.14 71.15 71.15 30,957,448 1.49 -0.37 3.28 4.94 4.94 -2.15 -17.71 -17.93 -17.93 1.78 20.99 22.87 22.87 1,429,506 0.07 0.37 0.62 0.72 0.72 0.45 0.62 0.63 0.63	Market Value (\$) % QTD CYTD FYTD 1 Year 3 Years 2,141,691 0.10 17.69 61.46 67.72 67.72 29.04 2.38 7.64 12.54 12.54 5.80 15.31 53.82 55.18 55.18 23.24 49,218,695 2.37 1.70 27.98 58.21 58.21 N/A -4.18 -22.16 -12.94 -12.94 11.41 5.88 50.14 71.15 71.15 N/A 30,957,448 1.49 -0.37 3.28 4.94 4.94 N/A -2.15 -17.71 -17.93 -17.93 -0.87 1.78 20.99 22.87 22.87 N/A 1,429,506 0.07 0.37 0.62 0.72 0.72 0.62 0.45 0.62 0.63 0.63 0.57	Market Value (\$) % QTD CYTD FYTD 1 year 3 years 5 years 2,141,691 0.10 17.69 61.46 67.72 67.72 29.04 18.43 2.38 7.64 12.54 12.54 5.80 4.69 15.31 53.82 55.18 55.18 23.24 13.74 49,218,695 2.37 1.70 27.98 58.21 58.21 N/A N/A -4.18 -22.16 -12.94 -12.94 11.41 12.51 5.88 50.14 71.15 71.15 N/A N/A 30,957,448 1.49 -0.37 3.28 4.94 4.94 N/A N/A -2.15 -17.71 -17.93 -17.93 -0.87 1.66 1.78 20.99 22.87 22.87 N/A N/A 1,429,506 0.07 0.37 0.62 0.72 0.72 0.62 1.17 0.45 0.62 0.63 0.63<	Market Value (\$) % QTD CYTD FYTD 1 Year 3 Years 5 7 Years 7 Years 2,141,691 0.10 17.69 61.46 67.72 67.72 29.04 18.43 15.10 2.38 7.64 12.54 12.54 5.80 4.69 4.28 15.31 53.82 55.18 55.18 23.24 13.74 10.82 49,218,695 2.37 1.70 27.98 58.21 58.21 N/A N/A N/A -4.18 -22.16 -12.94 -12.94 11.41 12.51 14.75 5.88 50.14 71.15 71.15 N/A N/A N/A 30,957,448 1.49 -0.37 3.28 4.94 4.94 N/A N/A 30,957,448 1.49 -0.37 3.28 4.94 4.94 N/A N/A 1.78 20.99 22.87 22.87 N/A N/A N/A 1,429,506 0.07	Market Value (\$) % QTD CYTD FYTD 1 Year 3 Years 5 Years 7 Years 10 Years 2,141,691 0.10 17.69 61.46 67.72 67.72 29.04 18.43 15.10 13.45 2.38 7.64 12.54 12.54 5.80 4.69 4.28 5.90 15.31 53.82 55.18 55.18 23.24 13.74 10.82 7.55 49,218,695 2.37 1.70 27.98 58.21 58.21 N/A N/A N/A N/A N/A -4.18 -22.16 -12.94 -12.94 11.41 12.51 14.75 15.05 5.88 50.14 71.15 71.15 N/A N/A N/A N/A 30,957,448 1.49 -0.37 3.28 4.94 4.94 N/A N/A N/A N/A 1.78 20.99 22.87 22.87 N/A N/A N/A N/A 1,429,506	Market Value (\$) % QTD CYTD FYTD 1 year 3 years 5 years 7 years 10 years Since lncep. 2,141,691 0.10 17.69 61.46 67.72 67.72 29.04 18.43 15.10 13.45 7.80 2.38 7.64 12.54 12.54 5.80 4.69 4.28 5.90 5.65 15.31 53.82 55.18 55.18 23.24 13.74 10.82 7.55 2.15 49,218,695 2.37 1.70 27.98 58.21 58.21 N/A N/A



City of Jacksonville Employees' Retirement System Risk and Return

Traditional Managers

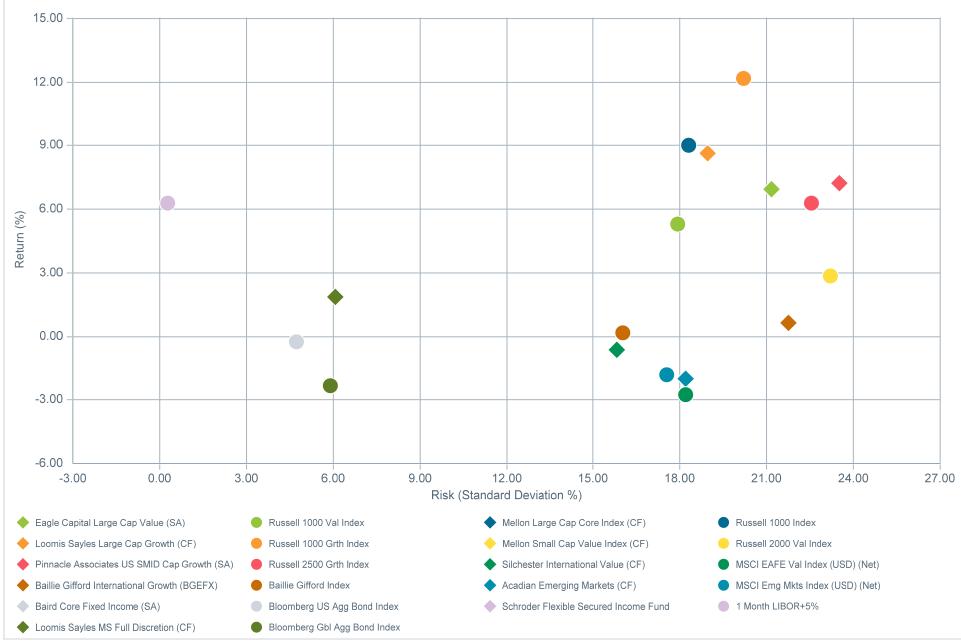


Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity. Managers with less history than the specified time period will not appear. Please see the Addendum for custom index definitions.



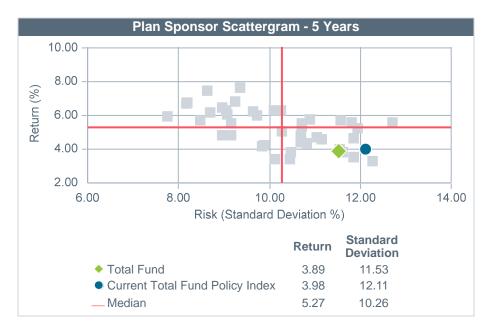
City of Jacksonville Employees' Retirement System Risk and Return

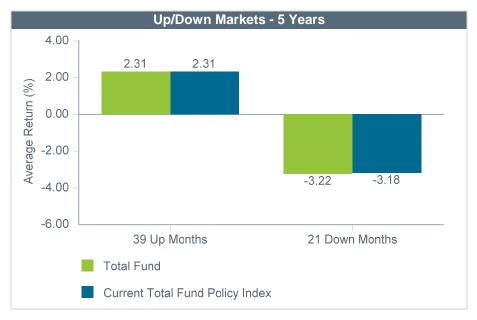
Traditional Managers

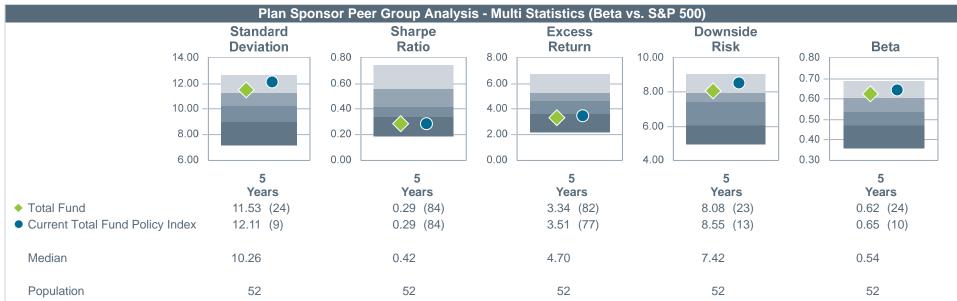


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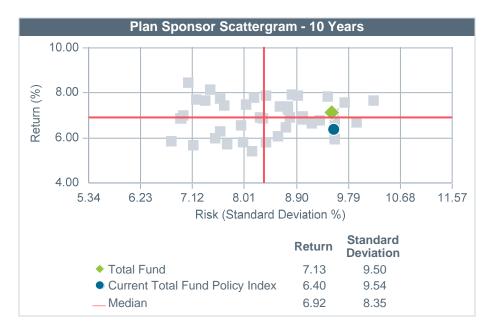


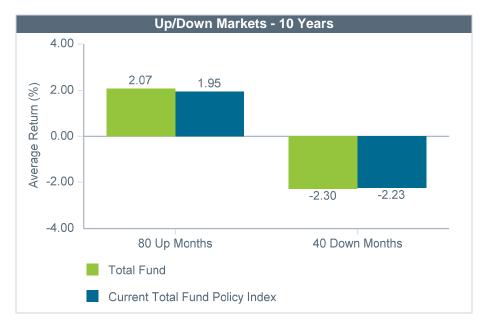


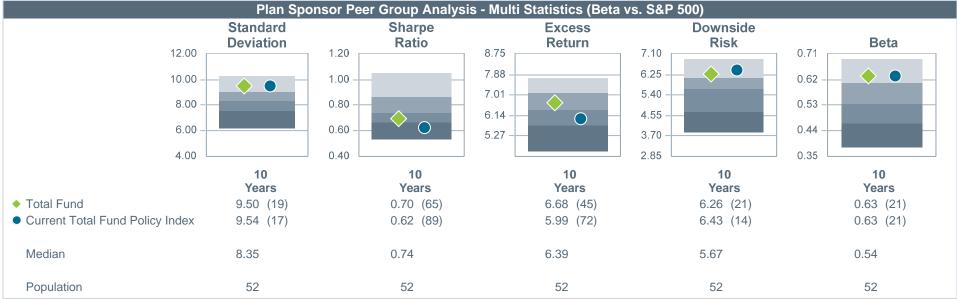


Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.









Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

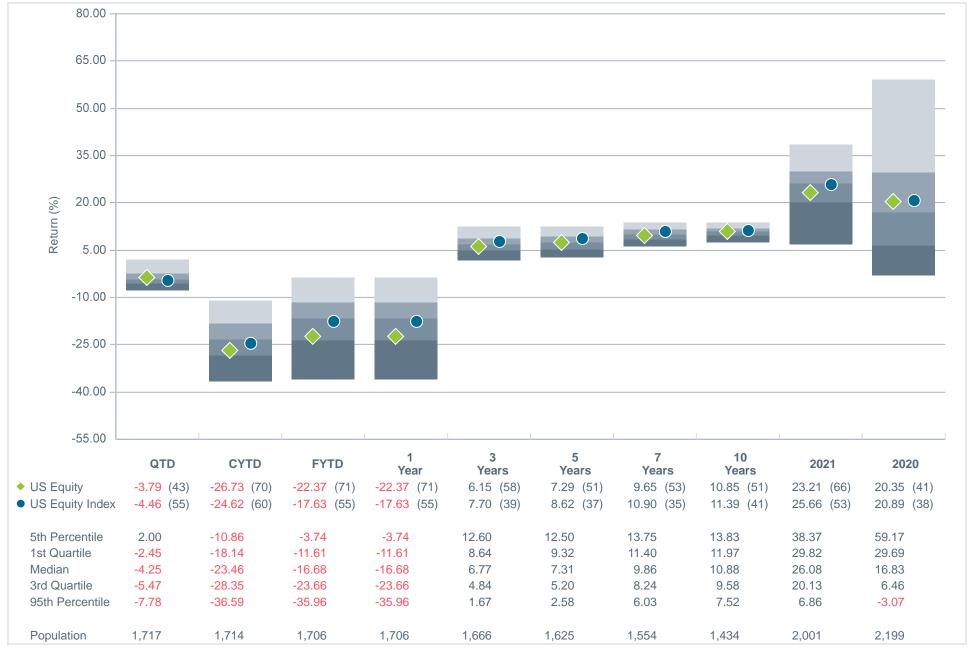


Composite Profiles



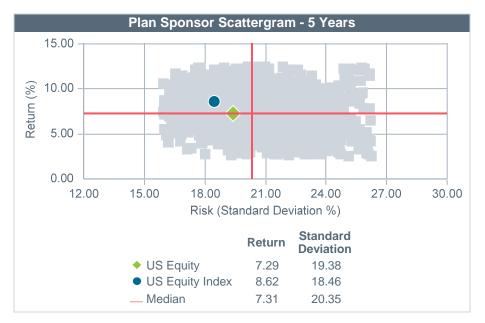
City of Jacksonville Employees' Retirement System US Equity vs. IM U.S. Equity (SA+CF)

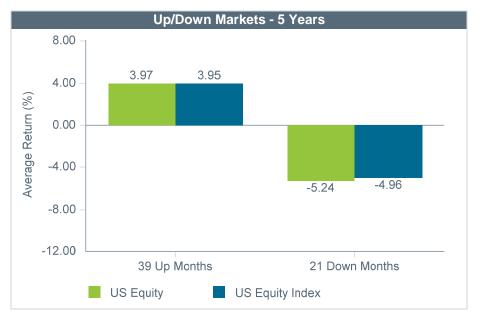
Peer Group Analysis

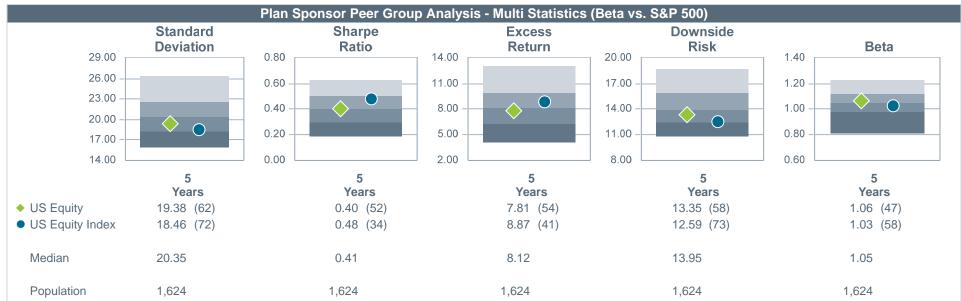


Performance shown is gross of fees. Parentheses contain percentile ranks. Fiscal year for the COJ ends 09/30.









Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

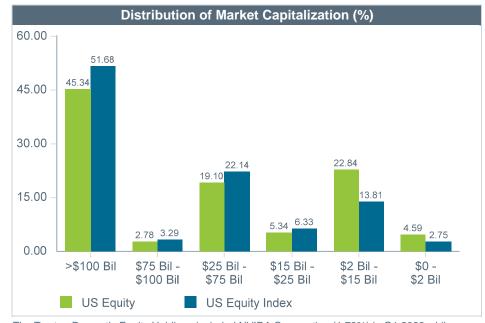


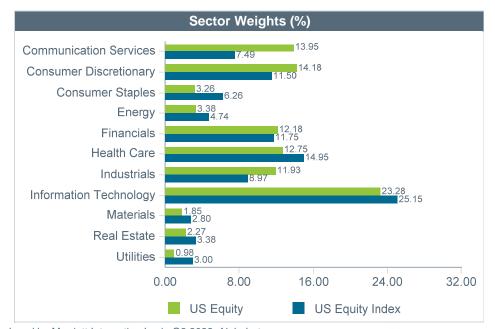
City of Jacksonville Employees' Retirement System **US Equity vs. US Equity Index**

Portfolio	Characteristics
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Top Ten Equity Holdings								
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)				
Microsoft Corp	4.75	4.89	-0.14	-9.12				
Amazon.com Inc	3.67	2.82	0.85	6.39				
Alphabet Inc	3.02	1.46	1.56	-12.09				
Meta Platforms Inc	2.19	0.87	1.32	-15.86				
Netflix Inc	2.19	0.29	1.90	34.64				
Unitedhealth Group Inc	1.93	1.33	0.60	-1.36				
Visa Inc	1.87	0.82	1.05	-9.61				
Apple Inc	1.81	5.93	-4.12	1.22				
Alphabet Inc	1.33	1.61	-0.28	-12.22				
Tesla Inc	1.30	1.89	-0.59	18.17				
% of Portfolio	24.06	21.91	2.15					

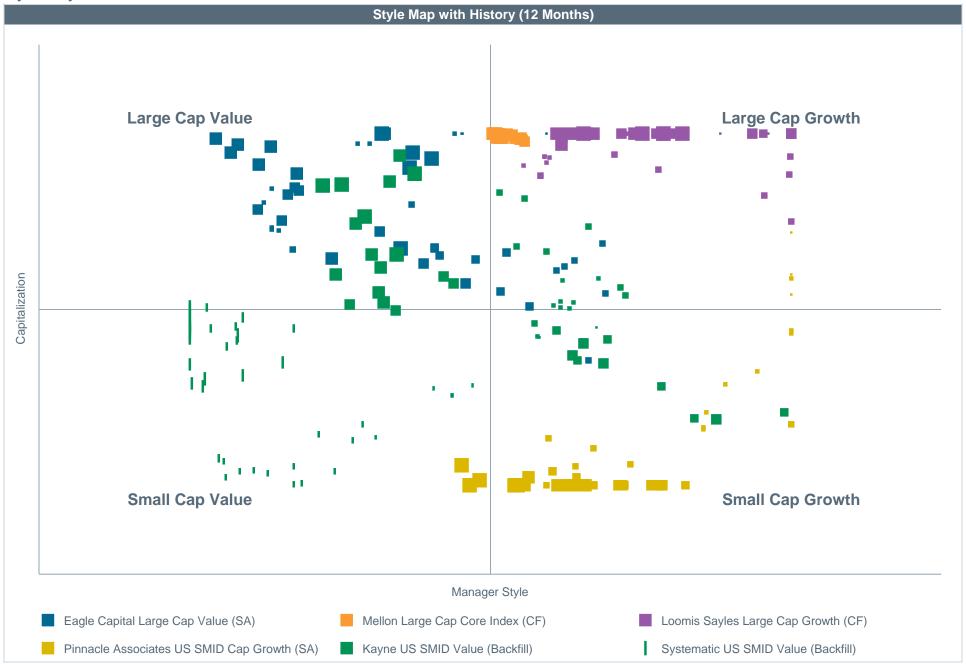
Portfolio Characteristics									
	Portfolio	Benchmark							
Wtd. Avg. Mkt. Cap (\$M)	306,410	395,275							
Median Mkt. Cap (\$M)	9,673	1,825							
Price/Earnings Ratio	15.95	17.19							
Price/Book Ratio	3.35	3.54							
5 Yr. EPS Growth Rate (%)	20.92	18.27							
Current Yield (%)	1.35	1.79							
Beta (5 Years, Monthly)	1.04	1.00							
Number of Securities	1,162	2,986							
Active Share	53.19	N/A							





The Top ten Domestic Equity Holdings included NVIDA Corporation (1.79%) in Q1 2022 whihc was replaced by Marriott Internation Inc in Q2 2022. Alphabet Inc. is shown twice in the Top Ten Equity Holdings but represents two different share classes: GOOGL (Class A) and GOOG (Class C).

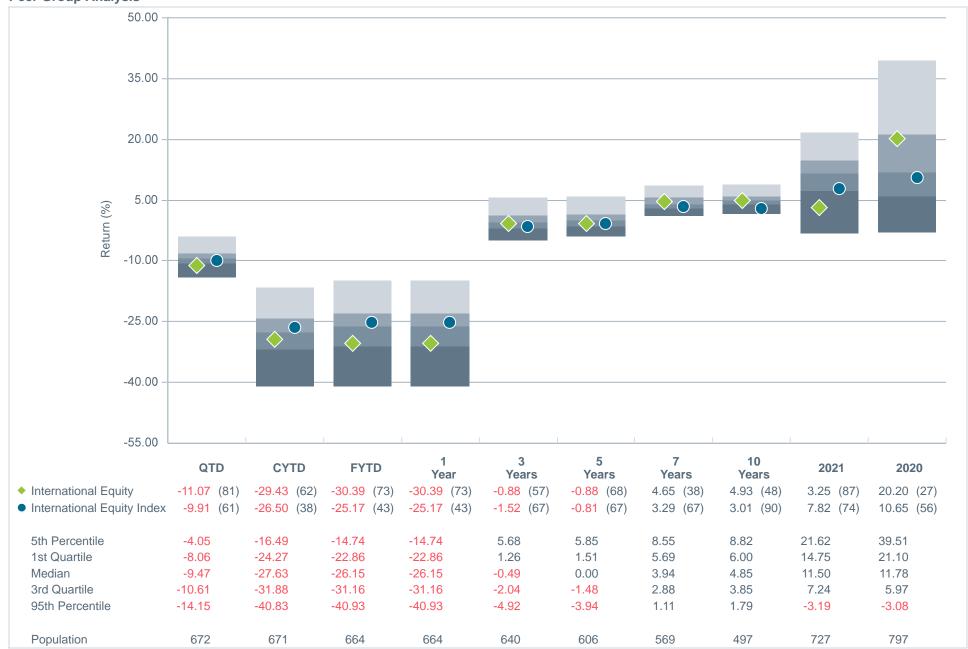




Calculation is based on monthly periodicity. This is a return based calculation. Performance prior to manager inception date is backfilled with product specific returns.



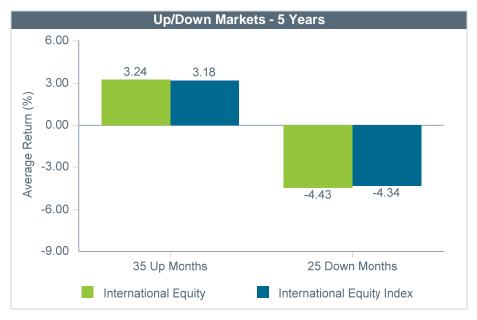
City of Jacksonville Employees' Retirement System International Equity vs. IM International Equity (SA+CF) Peer Group Analysis

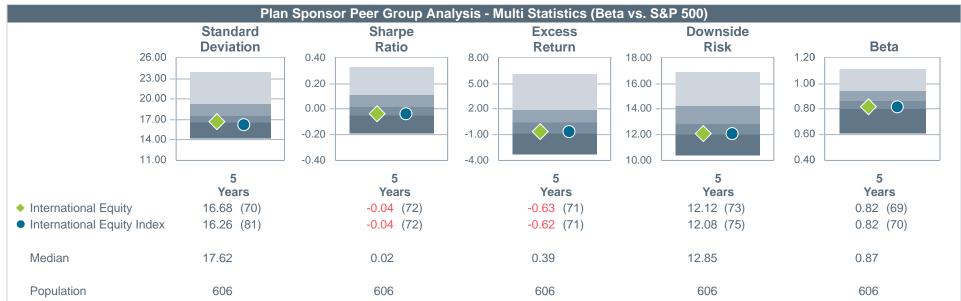


Performance shown is gross of fees. Parentheses contain percentile ranks. Fiscal year for the COJ ends 09/30.









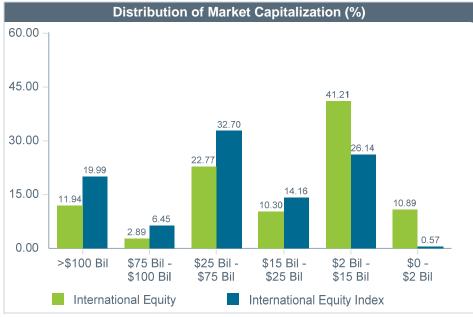
Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

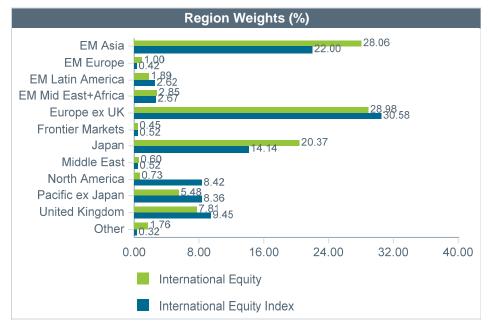


City of Jacksonville Employees' Retirement System International Equity vs. International Equity Index Portfolio Characteristics

Ţ	op Ten Equi	ty Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Tencent Holdings LTD	2.07	1.08	0.99	-24.85
Taiwan Semiconductor Mfg	1.80	1.67	0.13	-16.53
ASML Holding NV	1.76	0.88	0.88	-10.56
Ferrari NV	1.61	0.12	1.49	2.64
Honda Motor Co Ltd	1.54	0.18	1.36	-8.88
MercadoLibre Inc	1.50	0.00	1.50	29.98
Meituan	1.40	0.47	0.93	-14.75
Sanofi	1.40	0.45	0.95	-23.66
Kering	1.28	0.17	1.11	-12.24
Alibaba Group Holding Ltd	1.26	0.77	0.49	-30.36
% of Portfolio	15.62	5.79	9.83	

Wtd. Avg. Mkt. Cap (\$M) 43,705 66,812 Median Mkt. Cap (\$M) 1,386 7,549 Price/Earnings Ratio 8.29 10.91 Price/Book Ratio 2.76 2.35 5 Yr. EPS Growth Rate (%) 11.46 13.39 Current Yield (%) 4.60 3.65 Beta (5 Years, Monthly) 1.00 1.00 Number of Securities 886 2,274 Active Share 80.92 N/A		lio Characteristics	Donohmanlı
Median Mkt. Cap (\$M) 1,386 7,549 Price/Earnings Ratio 8.29 10.91 Price/Book Ratio 2.76 2.35 5 Yr. EPS Growth Rate (%) 11.46 13.39 Current Yield (%) 4.60 3.65 Beta (5 Years, Monthly) 1.00 1.00 Number of Securities 886 2,274			
Price/Earnings Ratio 8.29 10.91 Price/Book Ratio 2.76 2.35 5 Yr. EPS Growth Rate (%) 11.46 13.39 Current Yield (%) 4.60 3.65 Beta (5 Years, Monthly) 1.00 1.00 Number of Securities 886 2,274	Ntd. Avg. Mkt. Cap (\$M)	43,705	66,812
Price/Book Ratio 2.76 2.35 5 Yr. EPS Growth Rate (%) 11.46 13.39 Current Yield (%) 4.60 3.65 Beta (5 Years, Monthly) 1.00 1.00 Number of Securities 886 2,274	Median Mkt. Cap (\$M)	1,386	7,549
5 Yr. EPS Growth Rate (%) 11.46 13.39 Current Yield (%) 4.60 3.65 Beta (5 Years, Monthly) 1.00 1.00 Number of Securities 886 2,274	Price/Earnings Ratio	8.29	10.91
Current Yield (%) 4.60 3.65 Beta (5 Years, Monthly) 1.00 1.00 Number of Securities 886 2,274	Price/Book Ratio	2.76	2.35
Beta (5 Years, Monthly) 1.00 1.00 Number of Securities 886 2,274	5 Yr. EPS Growth Rate (%)	11.46	13.39
Number of Securities 886 2,274	Current Yield (%)	4.60	3.65
-,	Beta (5 Years, Monthly)	1.00	1.00
Active Share 80.92 N/A	Number of Securities	886	2,274
	Active Share	80.92	N/A





The Top Ten International Equity Holdings included Glaxosmithkline PLC (1.37%), Adyen N.V (1.43%), and Honda Motor Co Ltd (1.61%) in Q1 2022 which was replaced by Alibaba Group Holding Ltd, Meituan, and GSK plc in Q2 2022.

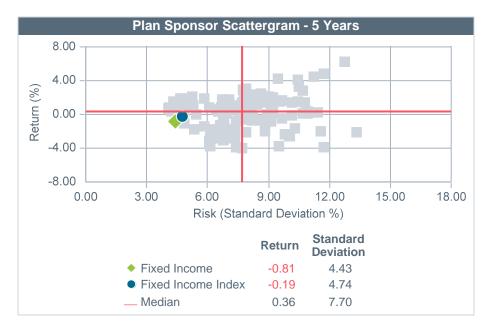


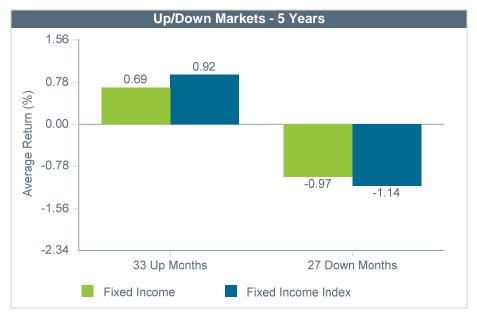
City of Jacksonville Employees' Retirement System Fixed Income vs. IM Global Fixed Income (SA+CF) Peer Group Analysis

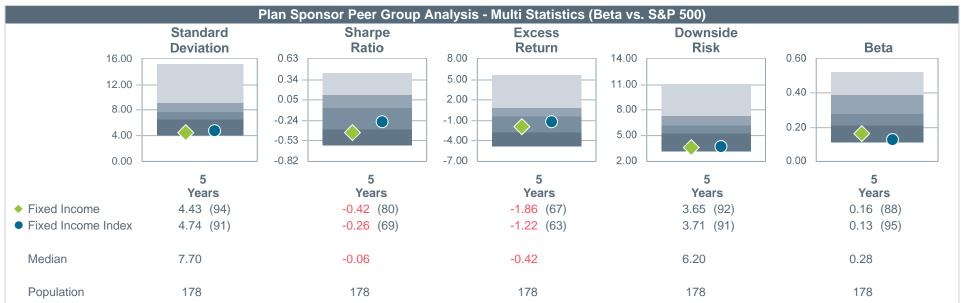


Performance shown is gross of fees. Parentheses contain percentile ranks. Fiscal year for the COJ ends 09/30.









Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



City of Jacksonville Employees' Retirement System Fixed Income vs. Fixed Income Index Portfolio Characteristics

	Portfolio Characteristics	
	Portfolio	Benchmark
Effective Duration	5.84	5.99
Avg. Maturity	7.43	8.33
Avg. Quality	A2	N/A
Yield To Maturity (%)	N/A	5.22
Coupon Rate (%)	3.09	2.87
Current Yield (%)	N/A	N/A



Cash equivalents are defined as any security with duration under one year.



City of Jacksonville Employees' Retirement System Real Estate vs. Real Estate Index Comparative Performance & Rolling Return

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	Since Incep.	Inception Date
Real Estate	3.44	14.47	22.37	22.37	10.38	9.18	8.96	9.72	15.43	0.31	4.85	7.12	12/01/2005
Real Estate Index	0.32	12.37	20.97	20.97	11.38	9.27	8.87	9.91	21.02	0.34	4.39	7.08	
Difference	3.12	2.10	1.40	1.40	-1.00	-0.09	0.09	-0.19	-5.59	-0.03	0.46	0.04	



Performance shown is gross of fees. Calculation is based on quarterly periodicity.



City of Jacksonville Employees' Retirement System Diversifying Assets vs. Diversifying Assets Index Comparative Performance & Rolling Return

	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	Since Incep.	Inceptior Date
iversifying Assets	1.40	24.53	41.57	41.57	16.20	9.72	8.76	8.26	47.46	-14.35	6.21	9.01	03/01/201
iversifying Assets Index	-4.06	-17.23	-11.68	-11.68	-3.35	-1.37	0.14	1.34	36.38	-18.40	7.29	2.00	
Difference	5.46	41.76	53.25	53.25	19.55	11.09	8.62	6.92	11.08	4.05	-1.08	7.01	
36.0 -													
30.0 -													
24.0													
18.0 -													
© 12.0 -													
Excess Return vs. Market (%) 6.0 0.0 -6.0													
Keturi													Ш
-6.0 -													
-12.0 -													
-18.0 -													
-24.0 -													
-30.0													

Performance shown is gross of fees. Calculation is based on quarterly periodicity.

Rolling 3 Years Active Return



Quarterly Excess Return vs. Market

Rolling 3 Years Tracking Error

City of Jacksonville Employees' Retirement System Alternative Investment Real Estate Fund Performance Listing

Fund Name	Vintage	Asset Class	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
H.I.G. Realty Partners IV, LP	2021	Real Estate - Opportunistic	25,000,000	4,184,814	2,793,757	3,680,804	N/M	N/A	N/M	1.55
Hammes Partners IV LP	2021	Real Estate - Value Added	15,000,000	0	0	0	N/M	N/A	N/M	
Abacus Multi-Family Partners Fund VI	2022	Real Estate - Value Added	20,000,000	0	0	0 *	N/M	N/A	N/M	
			60,000,000	4,184,814	2,793,757	3,680,804				1.55

Certain valuations (marked with a '*') are preliminary estimates of valuation as of the date of reporting and reflect the estimated impact of subsequent net cash contributions/distributions. These figures may be used in calculations contained in this report. Index IRR represents the dollar-weighted returns calculated using the NCREIF ODCE Index (AWA) (Net) (Monthly)+2% assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Fund IRR is the annualized since-inception net internal rate for the indicated fund or composite. Fund Multiple is the since inception sum of distributions and valuation divided by paid in capital. Quartile data is based on information provided by Preqin.



Fund Name	Vintage	Asset Class	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
ASP COJ PE Fund LP	2020	Private Equity - Fund of Funds	105,000,000	31,692,892	2,939,720	41,461,371	46.48	N/A	0.85	1.40
			105,000,000	31,692,892	2,939,720	41,461,371	46.48		0.85	1.40

Certain valuations (marked with a '*') are preliminary estimates of valuation as of the date of reporting and reflect the estimated impact of subsequent net cash contributions/distributions. These figures may be used in calculations contained in this report. Index IRR represents the dollar-weighted returns calculated using the S&P 500 Index (CW)+3% assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Fund IRR is the annualized since-inception net internal rate for the indicated fund or composite. Fund Multiple is the since inception sum of distributions and valuation divided by paid in capital. Quartile data is based on information provided by Preqin.



Fund Name	Vintage	Asset Class	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
Hamilton Lane Private Credit (SA)	2021	Private Credit - Direct Investment	250,000,000	21,320,711	1,388,532	21,052,123	9.95	N/A	-19.81	1.05
			250,000,000	21,320,711	1,388,532	21,052,123	9.95		-19.81	1.05

Certain valuations (marked with a **) are preliminary estimates of valuation as of the date of reporting and reflect the estimated impact of subsequent net cash contributions/distributions. These figures may be used in calculations contained in this report. Index IRR represents the dollar-weighted returns calculated using the ICE BofAML Global High Yield Index +2% assuming an index investment with the same cash flow timing. IRRs are shown only for investments with one year or more of cash flows and for which an accurate IRR could be calculated. Applicable IRRs are marked with 'N/M' for not material. Fund IRR is the annualized since-inception net internal rate for the indicated fund or composite. Fund Multiple is the since inception sum of distributions and valuation divided by paid in capital. Quartile data is based on information provided by Preqin.



Investment Manager Profiles



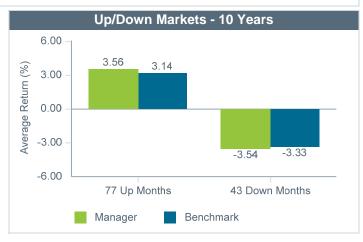
Manager: Eagle Capital Large Cap Value (SA)

Benchmark: Russell 1000 Val Index

Peer Group: IM U.S. Large Cap Value Equity (SA+CF)

				P	erformar	nce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-5.19	-28.20	4.34	6.94	9.78	11.38	28.01	15.54	31.94	-3.90	24.19
Benchmark	-5.62	-11.36	4.36	5.29	8.15	9.17	25.16	2.80	26.54	-8.27	13.66
Difference	0.43	-16.84	-0.02	1.65	1.63	2.21	2.85	12.74	5.40	4.37	10.53
Peer Group Median	-5.72	-9.64	6.57	6.84	9.31	10.11	27.82	4.43	27.50	-8.44	17.15
Rank	40	98	85	48	33	19	49	12	14	16	7
Population	225	223	216	212	207	199	249	269	293	308	319







			Portfolio	1	Benchmark
Wtd. Avg. Mkt. Cap (\$M)			426,916		133,921
Median Mkt. Cap (\$M)			83,426		10,526
Price/Earnings Ratio			12.15		13.71
Price/Book Ratio			3.46		2.25
5 Yr. EPS Growth Rate (%)		26.95		12.70
Current Yield (%)			1.42		2.52
Beta (5 Years, Monthly)			1.13		1.00
Number of Securities			33		855
Active Share			90.74		N/A
100.00 - 75.00 - 50.00 - 25.00 - 0.00	3.74 4.49	19.94	8.96 1.81	15.76 6.90	0.00 0.07
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil	\$0 - \$2 Bil



Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



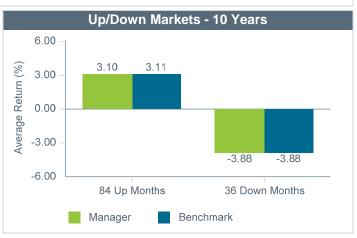
Manager: BNYM DB Lg Cap Stock Idx NL (CF)

Benchmark: Russell 1000 Index

Peer Group: IM U.S. Large Cap Core Equity (SA+CF)

				P	erformar	nce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-4.62	-17.23	7.93	8.99	11.14	11.60	26.46	20.91	31.42	-4.77	21.68
Benchmark	-4.61	-17.22	7.95	9.00	11.15	11.60	26.45	20.96	31.43	-4.78	21.69
Difference	-0.01	-0.01	-0.02	-0.01	-0.01	0.00	0.01	-0.05	-0.01	0.01	-0.01
Peer Group Median	-4.84	-15.41	7.63	8.80	10.82	11.68	27.78	17.56	30.09	-5.04	22.08
Rank	43	68	44	44	42	57	60	30	35	46	57
Population	163	162	158	154	150	130	203	225	253	275	302







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$N	VI)		420,226		420,689
Median Mkt. Cap (\$M)			11,476		11,464
Price/Earnings Ratio			17.63		17.63
Price/Book Ratio			3.66		3.66
5 Yr. EPS Growth Rate	(%)		18.33		18.35
Current Yield (%)			1.80		1.80
Beta (5 Years, Monthly	·)		1.00		1.00
Number of Securities			1,019		1,016
Active Share			0.24		N/A
80.00 - 60.00 - 40.00 - 20.00 -	3.51 3.51	23.56 23.57	6.75 6.74	11.11 11.11	0.09 0.05
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil	\$0 - \$2 Bil



Performance shown is gross of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

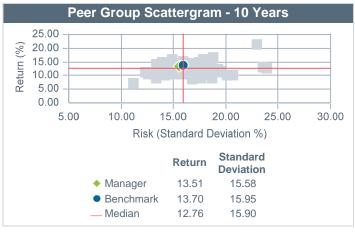


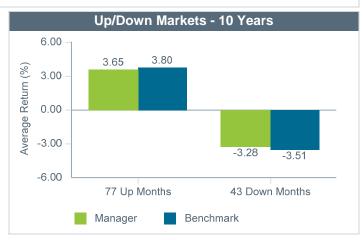
Manager: Loomis, Sayles & Co Lg Cap Grth (CF)

Benchmark: Russell 1000 Grth Index

Peer Group: IM U.S. Large Cap Growth Equity (SA+CF)

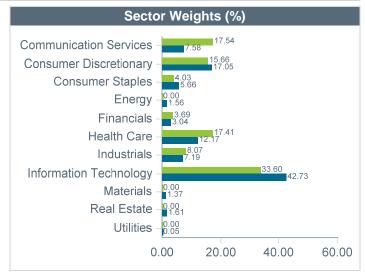
Performance Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-4.12	-26.83	6.15	8.60	12.17	13.51	19.45	32.95	32.71	-1.72	34.03
Benchmark	-3.60	-22.59	10.67	12.16	13.74	13.70	27.60	38.49	36.39	-1.51	30.21
Difference	-0.52	-4.24	-4.52	-3.56	-1.57	-0.19	-8.15	-5.54	-3.68	-0.21	3.82
Peer Group Median	-4.12	-25.79	7.80	10.52	12.14	12.76	24.94	35.35	34.01	-0.53	28.48
Rank	50	60	75	85	48	24	81	63	63	59	18
Population	185	185	183	179	168	158	210	224	237	253	257







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$M)		378,568		700,406
Median Mkt. Cap (\$M)			100,775		13,379
Price/Earnings Ratio			23.26		24.93
Price/Book Ratio			4.97		9.06
5 Yr. EPS Growth Rate	(%)		23.99		24.04
Current Yield (%)			0.70		1.11
Beta (5 Years, Monthly)			0.91		1.00
Number of Securities			36		518
Active Share			71.69		N/A
100.00 - 75.00 - 50.00 - 25.00 -	4.12 2.54	27.26	2.96 4.58	3.34 6.57	0.00 0.03
0.00 >\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil	\$0 - \$2 Bil



Performance shown is gross of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: Pinnacle Associates US SMID Cap Growth (SA)

Benchmark: Russell 2500 Grth Index

Peer Group: IM U.S. SMID Cap Growth Equity (SA+CF)

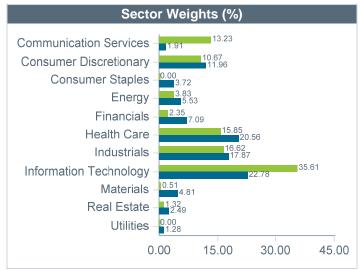
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-2.22	-24.23	8.65	7.24	10.79	11.54	12.71	33.32	41.57	-10.36	25.99
Benchmark	-0.12	-29.39	4.76	6.30	8.84	10.30	5.04	40.47	32.65	-7.47	24.46
Difference	-2.10	5.16	3.89	0.94	1.95	1.24	7.67	-7.15	8.92	-2.89	1.53
Peer Group Median	-1.13	-27.35	6.77	9.32	10.71	11.20	13.61	48.29	32.39	-4.01	25.86
Rank	59	20	29	76	45	34	53	81	3	88	48
Population	52	51	48	42	35	27	56	57	54	54	53







Benchmark				
5,358		M)	J. Mkt. Cap (\$	Wtd. Avg
1,455			/kt. Cap (\$M)	Median N
16.66			rnings Ratio	Price/Ear
4.04			ok Ratio	Price/Boo
22.70		e (%)	S Growth Rate	5 Yr. EPS
0.85			rield (%)	Current \
1.00		/)	ears, Monthly	Beta (5 Y
1,355			of Securities	Number
N/A			nare	Active Sh
				40.00 -
28.30	27.05			30.00 -
23.23	17.34	12.61	16.11	20.00 –
7.22		7.97	2.56	10.00 –
				0.00
- \$1 Bil - \$0 -	\$5 Bil - \$10 Bil	\$10 Bil -	>\$15 Bil	
		\$10 Bil - \$15 Bil	>\$15 Bil	0.00



Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



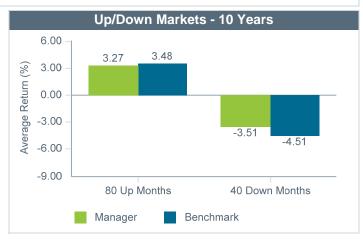
Manager: Kayne Anderson US SMID Value (SA)

Benchmark: Russell 2500 Val Index

Peer Group: IM U.S. SMID Cap Value Equity (SA+CF)

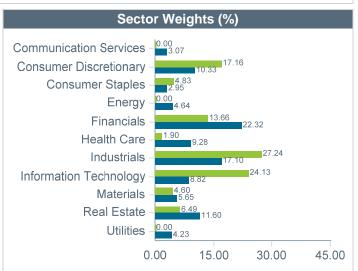
Performance Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-4.16	-18.48	6.59	7.58	10.36	11.33	22.17	24.69	33.20	-11.97	18.43
Benchmark	-4.50	-15.35	4.52	3.78	7.32	8.41	27.78	4.88	23.56	-12.36	10.36
Difference	0.34	-3.13	2.07	3.80	3.04	2.92	-5.61	19.81	9.64	0.39	8.07
Peer Group Median	-4.61	-13.48	6.56	5.69	8.58	9.91	28.03	7.55	27.17	-12.83	13.75
Rank	41	75	50	21	19	19	92	5	7	42	15
Population	63	63	63	60	55	51	73	83	83	90	93







			Portfolio	E	Benchmark		
Wtd. Avg. Mkt. Cap (\$M)			9,096		5,579		
Median Mkt. Cap (\$M)			5,259		1,198		
Price/Earnings Ratio			19.36		10.06		
Price/Book Ratio			3.33		1.85		
5 Yr. EPS Growth Rate (%)		9.13		16.58		
Current Yield (%)			1.63		2.27		
Beta (5 Years, Monthly)			0.84		1.00		
Number of Securities			31		1,830		
Active Share			98.46		N/A		
150.00 – 100.00 – 84.05 70.01	13.91 ^{21.51}	0.00 5.62	2.03 2.60	0.00 0.24	0.00 0.02		
>\$3 Bil	\$1 Bil -	\$500 Mil -	\$200 Mil -	\$100 Mil -	\$0 -		
	\$3 Bil	\$1 Bil	\$500 Mil	\$200 Mil	\$100 Mil		



Performance shown is and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



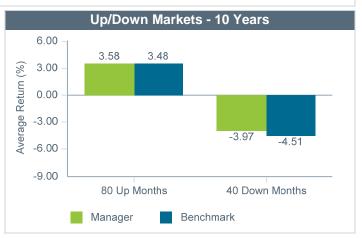
Manager: Systematic Financial US SMID Value (SA)

Benchmark: Russell 2500 Val Index

Peer Group: IM U.S. SMID Cap Value Equity (SA+CF)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-5.10	-13.32	7.56	6.04	10.60	11.88	31.53	7.55	27.80	-14.17	25.80
Benchmark	-4.50	-15.35	4.52	3.78	7.32	8.41	27.78	4.88	23.56	-12.36	10.36
Difference	-0.60	2.03	3.04	2.26	3.28	3.47	3.75	2.67	4.24	-1.81	15.44
Peer Group Median	-4.61	-13.48	6.56	5.69	8.58	9.91	28.03	7.55	27.17	-12.83	13.75
Rank	63	47	41	38	15	11	26	51	41	62	2
Population	63	63	63	60	55	51	73	83	83	90	93







	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	6,843	5,579
Median Mkt. Cap (\$M)	3,643	1,198
Price/Earnings Ratio	11.76	10.06
Price/Book Ratio	1.86	1.85
5 Yr. EPS Growth Rate (%)	20.70	16.58
Current Yield (%)	1.85	2.27
Beta (5 Years, Monthly)	0.91	1.00
Number of Securities	127	1,830
Active Share	91.07	N/A
75.00 - 62.35 70.01 50.00 - 25.00 - 20.94 21.5	10.04	3.22 _{0.24} 0.00 0.02
>\$3 Bil \$1 Bil -		\$100 Mil - \$0 -
\$3 Bil	\$1 Bil \$500 Mil	\$200 Mil \$100 Mil



Performance shown is and product specific prior to client inception. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.

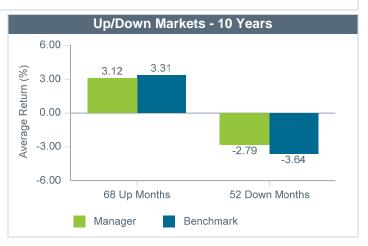


Manager: Silchester Int'l Value Equity (CF)
Benchmark: MSCI EAFE Val Index (USD) (Net)

Peer Group: IM EAFE Value (SA+CF)

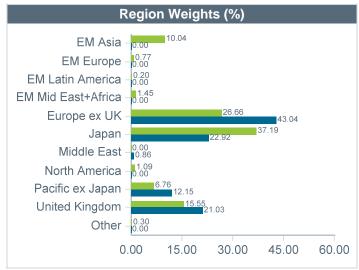
Performance Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-10.72	-20.11	-0.57	-0.64	3.97	5.93	12.58	0.17	18.05	-13.74	28.10
Benchmark	-10.20	-20.16	-2.79	-2.74	1.42	2.39	10.89	-2.63	16.09	-14.78	21.44
Difference	-0.52	0.05	2.22	2.10	2.55	3.54	1.69	2.80	1.96	1.04	6.66
Peer Group Median	-10.13	-22.81	-1.06	-0.73	2.86	4.03	11.65	4.45	21.10	-15.76	24.17
Rank	64	25	45	42	24	13	41	81	88	41	26
Population	42	42	42	42	42	42	44	50	56	59	61







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$1	VI)		23,057		50,436
Median Mkt. Cap (\$M)			3,236		10,384
Price/Earnings Ratio			8.18		8.28
Price/Book Ratio			1.75		1.65
5 Yr. EPS Growth Rate	(%)		4.40		10.76
Current Yield (%)			5.37		5.39
Beta (5 Years, Monthly	·)		0.85		1.00
Number of Securities			136		461
Active Share			85.68		N/A
80.00 –					
60.00 —				52.58	
40.00 —		35.94			
20.00 - 18.52		18.87	15.24	22.66	15.88
3.81	2.91 7.64		5.95		
0.00	2.01				0.01
>\$100 Bil	\$75 Bil -	\$25 Bil -	\$15 Bil -	\$2 Bil -	\$0 -
	\$100 Bil	\$75 Bil	\$25 Bil	\$15 Bil	\$2 Bil



Performance shown is gross of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



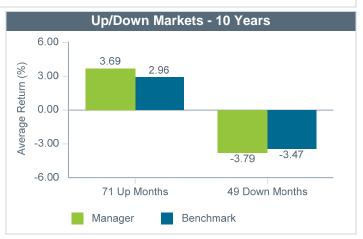
Manager: Baillie Gifford International Growth (BGEFX)

Benchmark: MSCI ACW Ex US Index (USD) (Net)

Peer Group: IM ACWI Ex US Growth (MF)

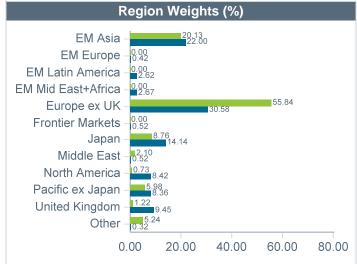
Performance Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-10.58	-44.60	-0.69	0.11	6.45	6.08	-9.32	63.13	37.48	-17.23	46.37
Benchmark	-9.91	-25.17	-1.52	-0.81	3.29	3.01	7.82	10.65	21.51	-14.20	27.19
Difference	-0.67	-19.43	0.83	0.92	3.16	3.07	-17.14	52.48	15.97	-3.03	19.18
Peer Group Median	-9.49	-33.41	-1.27	-0.09	3.52	3.87	7.93	22.75	27.84	-14.32	32.37
Rank	73	97	41	49	9	17	98	1	2	79	5
Population	170	170	170	170	148	117	170	170	172	176	188







			Portfolio		Benchmark	
Wtd. Avg. Mkt. Cap (\$N	Л)		71,419		66,812	
Median Mkt. Cap (\$M)			20,621		7,549	
Price/Earnings Ratio			21.42 10.9			
Price/Book Ratio			5.04		2.35	
5 Yr. EPS Growth Rate	(%)		16.45		13.39	
Current Yield (%)			0.90		3.65	
Beta (5 Years, Monthly)		1.13		1.00	
Number of Securities			53		2,274	
Active Share			91.41		N/A	
40.00 -		33.09 32.70				
30.00 -				26.14		
20.00 - 23.50			20.37	18.72		
10.00 —	3.24					
0.00					1.08 0.57	
>\$100 Bil	\$75 Bil - \$100 Bil	\$25 Bil - \$75 Bil	\$15 Bil - \$25 Bil	\$2 Bil - \$15 Bil	\$0 - \$2 Bil	



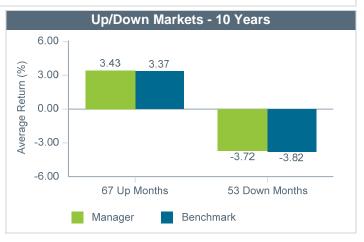
Performance shown is net of fees and client specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: Acadian Emg Mkts Equity CI II (CF)
Benchmark: MSCI Emg Mkts Index (USD) (Net)
Peer Group: IM Emerging Markets Equity (SA+CF)

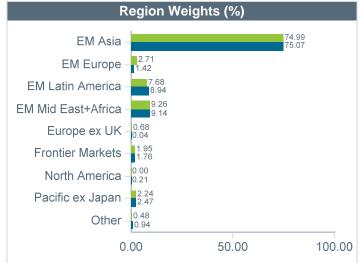
				Р	erforma	псе					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-12.42	-27.05	-0.30	-1.87	4.32	1.96	8.75	12.55	18.00	-18.30	38.94
Benchmark	-11.57	-28.11	-2.07	-1.81	3.88	1.05	-2.54	18.31	18.42	-14.57	37.28
Difference	-0.85	1.06	1.77	-0.06	0.44	0.91	11.29	-5.76	-0.42	-3.73	1.66
Peer Group Median	-10.21	-27.47	-0.62	-0.89	4.84	2.41	0.87	18.63	20.62	-15.23	36.81
Rank	81	48	44	74	61	64	25	75	66	79	37
Population	267	262	249	222	206	161	294	323	351	351	357







Portfolio Characteristi	cs and Dist. of	Market Cap (%)
	Portfolio	Benchmark
Wtd. Avg. Mkt. Cap (\$M)	52,126	78,560
Median Mkt. Cap (\$M)	893	5,335
Price/Earnings Ratio	5.19	9.84
Price/Book Ratio	2.10	2.49
5 Yr. EPS Growth Rate (%)	22.96	15.86
Current Yield (%)	7.56	3.60
Beta (5 Years, Monthly)	1.00	1.00
Number of Securities	705	1,387
Active Share	69.64	N/A
60.00 –		
45.00 –	45.	
30.00 -	24.94	36.32
15.00 - 14.46 2.40 3.39	09 12.17 6.86	12.71
0.00		1.90
		2 Bil - \$0 - 15 Bil \$2 Bil



Performance shown is gross of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: Baird Core Fixed Income (SA)
Benchmark: Bloomberg US Agg Bond Index

Peer Group: IM U.S. Broad Market Core Fixed Income (SA+CF)

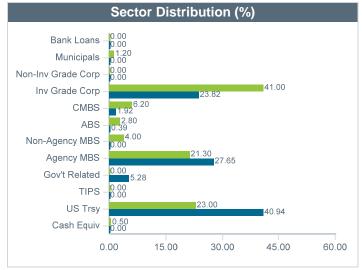
				P	erformar	nce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-4.63	-14.97	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benchmark	-4.75	-14.60	-3.26	-0.27	0.54	0.89	-1.55	7.51	8.72	0.01	3.54
Difference	0.12	-0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Peer Group Median	-4.55	-14.48	-2.70	0.18	1.07	1.37	-1.23	8.51	9.19	0.06	4.01
Rank	59	73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Population	123	123	123	119	117	111	145	154	156	162	167







Portfol	io Characteristic	s
	Portfolio	Benchmark
Effective Duration	6.19	6.20
Spread Duration	3.74	N/A
Avg. Maturity	8.17	8.52
Avg. Quality	AA-	Aa1/Aa2
Yield To Maturity (%)	N/A	4.75
Coupon Rate (%)	3.00	2.58
Current Yield (%)	N/A	N/A
Holdings Count	266	12,641



Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Manager: Loomis Sayles Multisector Full Discretion (CF)

Benchmark: Bloomberg Gbl Agg Bond Index **Peer Group:** IM Global Fixed Income (SA+CF)

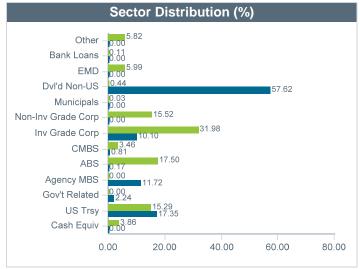
				P	erformar	псе					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-3.23	-14.43	0.01	1.90	3.70	3.87	0.55	15.08	9.80	0.09	8.74
Benchmark	-6.94	-20.43	-5.74	-2.32	-0.64	-0.93	-4.71	9.20	6.84	-1.19	7.39
Difference	3.71	6.00	5.75	4.22	4.34	4.80	5.26	5.88	2.96	1.28	1.35
Peer Group Median	-3.66	-16.06	-2.23	0.36	2.16	1.70	0.38	8.68	9.54	-1.81	7.67
Rank	48	41	21	22	28	18	47	7	48	23	31
Population	194	191	185	178	175	147	215	231	243	258	266







Portfolio Characteristics							
	Portfolio	Benchmark					
Effective Duration	5.16	6.74					
Spread Duration	3.79	N/A					
Avg. Maturity	5.98	8.62					
Avg. Quality	Baa2	N/A					
Yield To Maturity (%)	6.77	3.70					
Coupon Rate (%)	3.27	2.29					
Current Yield (%)	4.01	N/A					
Holdings Count	850	28,227					

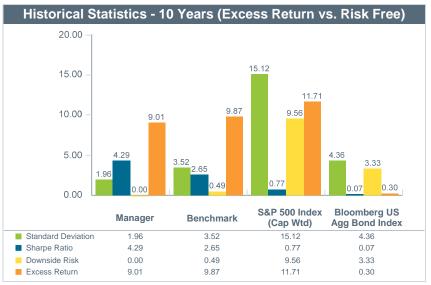


Performance shown is gross of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Allocation to "Other" consists of preferred equity and convertibles.

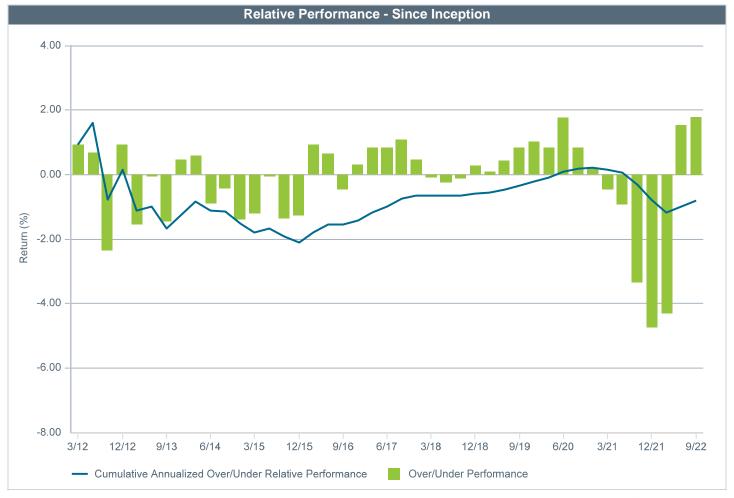


Manager: Harrison Street Core Property, LP Benchmark: NCREIF ODCE Index (AWA) (Gross)

				Pe	rforman	ce					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	2.34	15.10	10.12	9.28	9.61	10.03	10.94	4.91	7.87	8.18	11.11
Benchmark	0.52	22.09	12.37	10.24	9.85	10.92	22.17	1.19	5.34	8.35	7.62
Difference	1.82	-6.99	-2.25	-0.96	-0.24	-0.89	-11.23	3.72	2.53	-0.17	3.49



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.52
S&P 500 Index (Cap Wtd)	-0.45
Russell 2000 Index	-0.43
MSCI EAFE Index (USD) (Net)	-0.36
MSCI Emg Mkts Index (USD) (Net)	-0.30
Bloomberg US Agg Bond Index	-0.42
Bloomberg US Trsy US TIPS Index	-0.50
Wilshire US REIT Index	-0.38
HFRI FOF Comp Index	-0.38
Bloomberg Cmdty Index (TR)	-0.03
ICE BofAML 3 Mo US T-Bill Index	-0.23
Cons Price Index (Unadjusted)	0.33
NCREIF ODCE Index (AWA) (Gross)	0.52



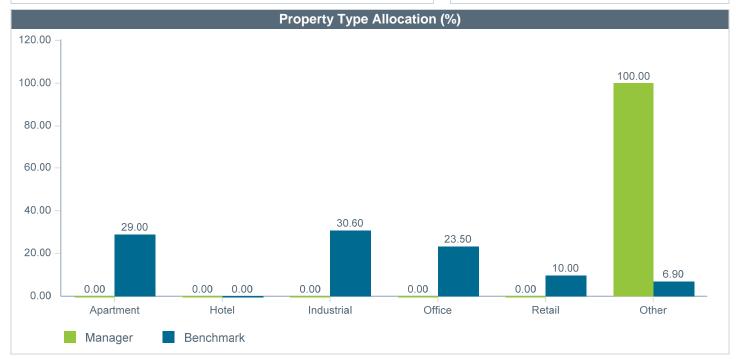


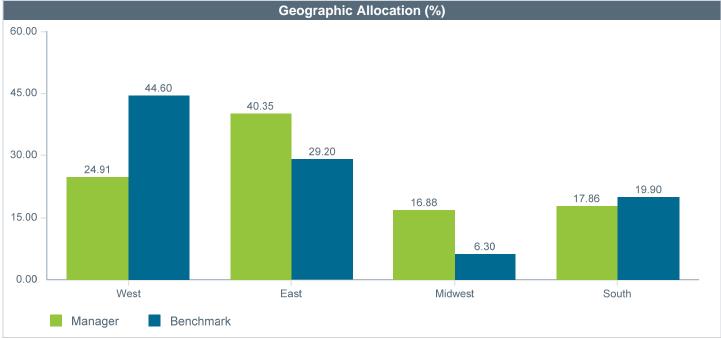
Manager: Harrison Street Core Property, LP Benchmark: NCREIF ODCE Index (AWA) (Gross)

Investment Strategy

The Fund's strategy is on primarily stabilized income-producing investments in niche sectors; Education, Health, and Storage. Within these sectors the fund invests in student housing, seniors housing, medical office buildings, life science buildings, and self-storage. The majority of the return from the Fund is expected to be realized from current income, with a modest portion of the return to be derived from asset appreciation. Harrison Street believes that the primary property types it targets will provide better risk/return profiles than properties in traditional core portfolios across all economic cycles.

Investment Profile							
Fund Inception	2011						
Legal Structure	LP						
Fund Structure	Open-End						
Gross Real Estate Assets (\$M)	13,464						
Fund Leverage %	23.78						
Portfolio Occupancy %	89.30						
Cash Reserve %	1.08						
Number of Investments	387						
Number of Limited Partners	231						



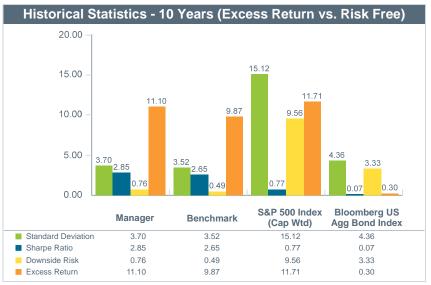


Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists of education, healthcare, senior housing, and storage real estate. Benchmark allocation to "Other" consists of entertainment (theaters, golf courses, bowling alleys), healthcare (hospitals, clinics), manufactured homes, parking lots, self-storage units, senior living, and undeveloped land.

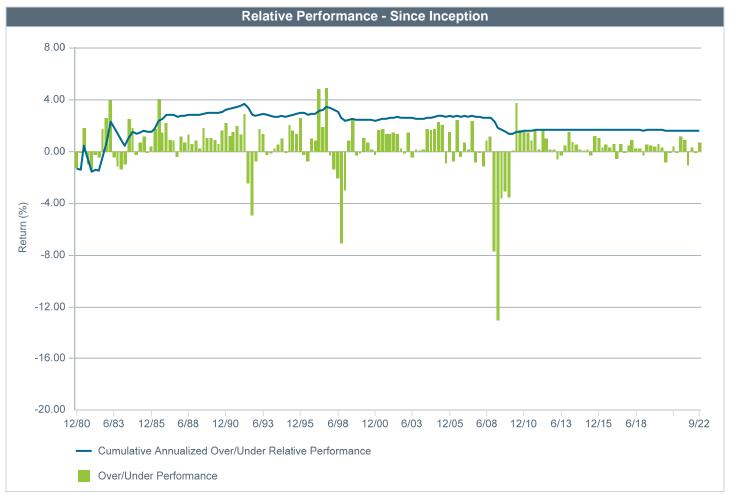


Manager: PGIM Real Estate PRISA II (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

				Pe	rforman	се					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	1.25	21.87	13.25	11.41	11.11	12.24	23.30	1.03	7.52	9.48	8.06
Benchmark	0.52	22.09	12.37	10.24	9.85	10.92	22.17	1.19	5.34	8.35	7.62
Difference	0.73	-0.22	0.88	1.17	1.26	1.32	1.13	-0.16	2.18	1.13	0.44



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.95
S&P 500 Index (Cap Wtd)	-0.21
Russell 2000 Index	-0.29
MSCI EAFE Index (USD) (Net)	-0.21
MSCI Emg Mkts Index (USD) (Net)	-0.37
Bloomberg US Agg Bond Index	-0.37
Bloomberg US Trsy US TIPS Index	-0.26
Wilshire US REIT Index	0.02
HFRI FOF Comp Index	-0.29
Bloomberg Cmdty Index (TR)	0.15
ICE BofAML 3 Mo US T-Bill Index	-0.40
Cons Price Index (Unadjusted)	0.36





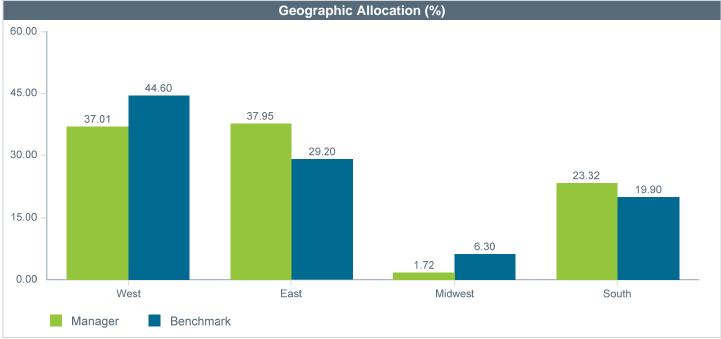
Manager: PGIM Real Estate PRISA II (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Investment Strategy

The Fund pursues a diversified core-plus real estate strategy that seeks to outperform the NCREIF ODCE Index by 100 basis points over a complete market cycle by structuring investments to enhance risk-adjusted returns. Investments may be made through direct property ownership or indirectly through such vehicles as joint ventures, general or limited partnerships, limited liability companies, mortgage loans and other loan types, including mezzanine debt, and debt secured by an interest in the borrowing entity or interests in companies or entities that directly or indirectly hold real estate or real estate interests. It operates with a leverage limit of 40% and may invest up to 35% of its gross assets in higher-risk, non-core real estate investment opportunities.

Investment Profile	
Fund Inception	1980
Legal Structure	REIT
Fund Structure	Open-End
Gross Real Estate Assets (\$M)	17,890
Fund Leverage %	32.06
Portfolio Occupancy %	90.75
Cash Reserve %	4.35
Number of Investments	161
Number of Limited Partners	112



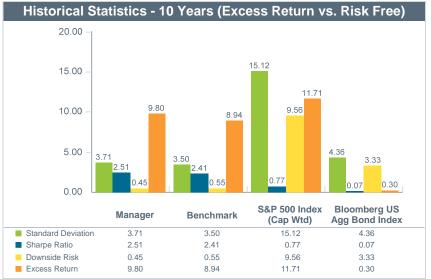


Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists of land, student housing, self-storage, and life science/lab space. Benchmark allocation to "Other" consists of entertainment (theaters, golf courses, bowling alleys), healthcare (hospitals, clinics), manufactured homes, parking lots, self-storage units, senior living, and undeveloped land.

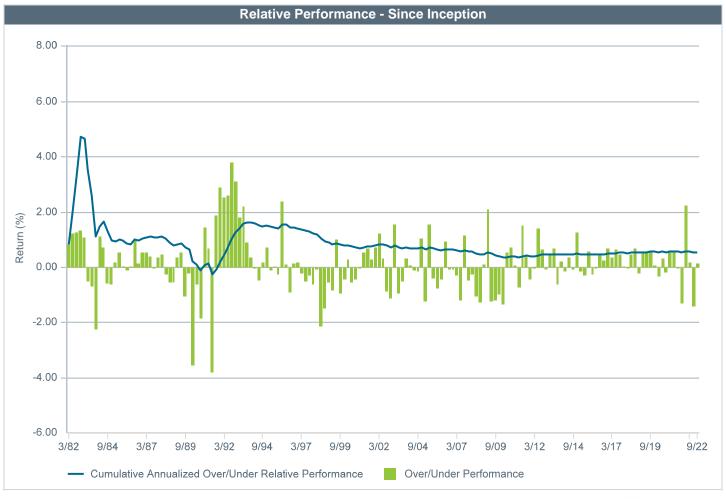


Manager: Principal US Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Net)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	0.47	22.36	11.73	10.04	9.82	10.83	22.83	0.81	6.22	8.32	8.29
Benchmark	0.31	20.96	11.38	9.26	8.87	9.91	21.02	0.34	4.39	7.36	6.66
Difference	0.16	1.40	0.35	0.78	0.95	0.92	1.81	0.47	1.83	0.96	1.63



	Actual Correlation
NCREIF ODCE Index (AWA) (Net)	0.94
S&P 500 Index (Cap Wtd)	-0.02
Russell 2000 Index	-0.14
MSCI EAFE Index (USD) (Net)	-0.11
MSCI Emg Mkts Index (USD) (Net)	-0.28
Bloomberg US Agg Bond Index	-0.33
Bloomberg US Trsy US TIPS Index	-0.21
Wilshire US REIT Index	0.22
HFRI FOF Comp Index	-0.19
Bloomberg Cmdty Index (TR)	0.13
ICE BofAML 3 Mo US T-Bill Index	-0.40
Cons Price Index (Unadjusted)	0.34
NCREIF ODCE Index (AWA) (Gross)	0.94



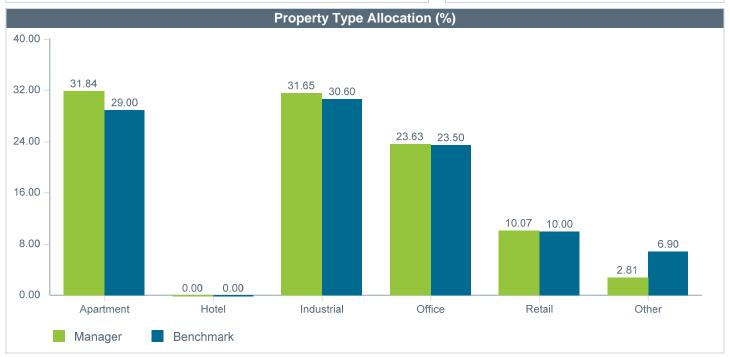


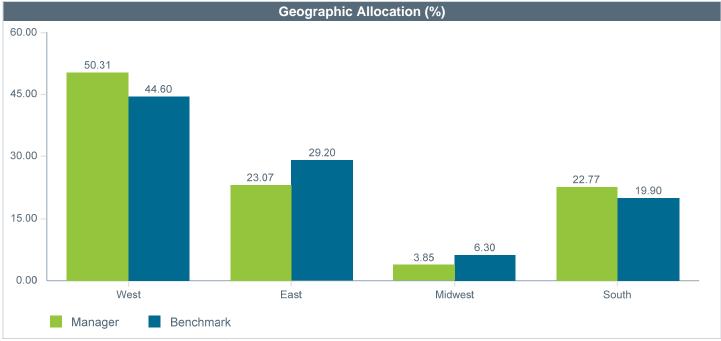
Manager: Principal US Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Net)

Investment Strategy

The Principal U.S. Property Account is a core real estate account designed to have a low to moderate risk profile consistent with other open-end real estate funds comprising the NFI-ODCE. This risk profile has two components: 1) a low to moderate real estate property risk profile; and 2) a low to moderate risk portfolio level operating profile. Low to moderate real estate property risk is accomplished by investing primarily in well-leased properties on an unleveraged basis. Low to moderate portfolio level risk is accomplished by operating with limited portfolio level obligations and a well-diversified portfolio. The Account invests in the traditional real estate property types; multifamily, office, industrial, and retail.

Investment Profile							
Fund Inception	1982						
Legal Structure	Insurance SA						
Fund Structure	Open-End						
Gross Real Estate Assets (\$M)	13,911						
Fund Leverage %	22.43						
Portfolio Occupancy %	92.26						
Cash Reserve %	2.62						
Number of Investments	155						
Number of Limited Partners	4,677						



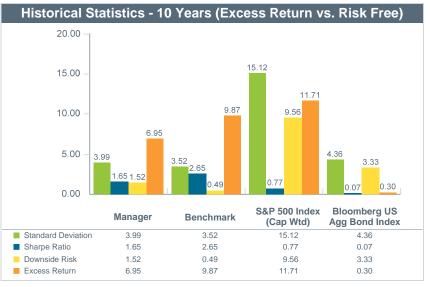


Performance shown is net of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists of land, self storage, and manufactured housing. Benchmark allocation to "Other" consists of entertainment (theaters, golf courses, bowling alleys), healthcare (hospitals, clinics), manufactured homes, parking lots, self-storage units, senior living, and undeveloped land.

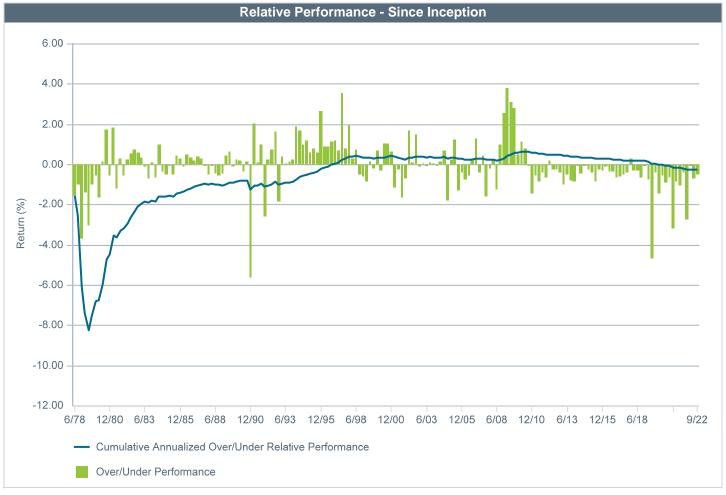


Manager: UBS Trumbull Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	0.02	17.37	7.64	5.97	6.29	7.77	16.24	-4.04	-2.10	6.99	6.30
Benchmark	0.52	22.09	12.37	10.24	9.85	10.92	22.17	1.19	5.34	8.35	7.62
Difference	-0.50	-4.72	-4.73	-4.27	-3.56	-3.15	-5.93	-5.23	-7.44	-1.36	-1.32



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.89
S&P 500 Index (Cap Wtd)	-0.30
Russell 2000 Index	-0.39
MSCI EAFE Index (USD) (Net)	-0.33
MSCI Emg Mkts Index (USD) (Net)	-0.42
Bloomberg US Agg Bond Index	-0.41
Bloomberg US Trsy US TIPS Index	-0.33
Wilshire US REIT Index	-0.05
HFRI FOF Comp Index	-0.40
Bloomberg Cmdty Index (TR)	0.07
ICE BofAML 3 Mo US T-Bill Index	-0.46
Cons Price Index (Unadjusted)	0.32



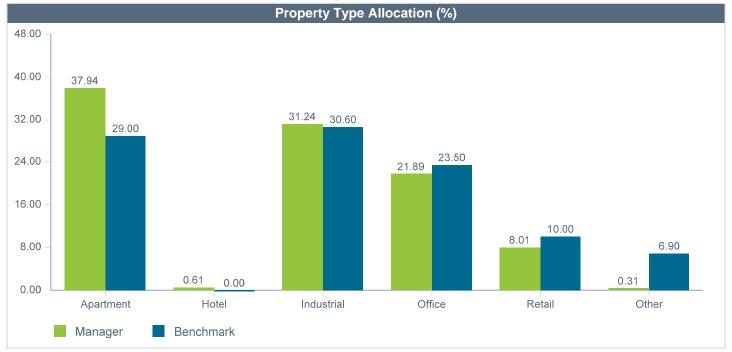


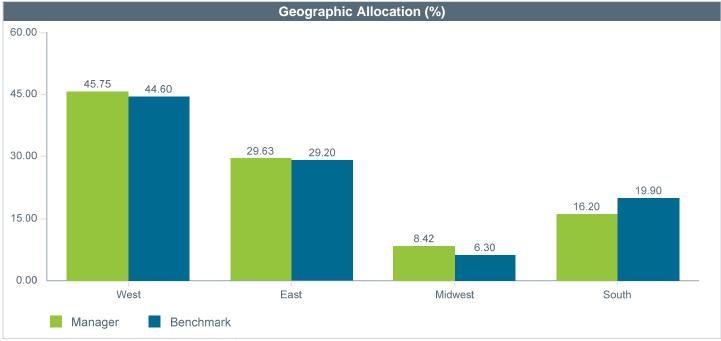
Manager: UBS Trumbull Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Investment Strategy

The Fund pursues a diversified core real estate strategy that seeks to produce attractive risk-adjusted returns by focusing on selective acquisitions, diversification, active portfolio management, and asset management. The Fund invests in well-leased, stabilized assets in major US metropolitan markets and receives the majority of its return from the income component. Diversification for the Fund is consistently pursued on many levels, including geographic region, property type, and economic sector. The Fund has historically maintained a leverage ratio significantly lower than the NCREIF ODCE Index and invests 5-15% of its gross assets in value-added type real estate investment opportunities.

Investment Profile	
Fund Inception	1978
Legal Structure	LP
Fund Structure	Open-End
Gross Real Estate Assets (\$M)	18,420
Fund Leverage %	18.60
Portfolio Occupancy %	92.30
Cash Reserve %	2.60
Number of Investments	155
Number of Limited Partners	439





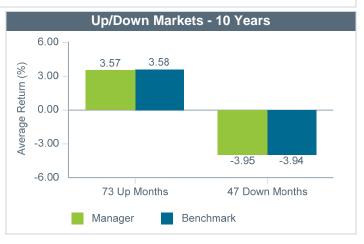
Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists of self-storage. Benchmark allocation to "Other" consists of entertainment (theaters, golf courses, bowling alleys), healthcare (hospitals, clinics), manufactured homes, parking lots, self-storage units, senior living, and undeveloped land.



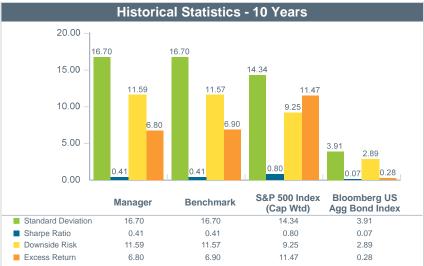
Manager: Vanguard RE Idx;ETF (VNQ)
Benchmark: Vanguard Spl Real Estate Index
Peer Group: IM Real Estate Sector (MF)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	-10.98	-18.71	-1.62	3.07	4.91	6.23	40.38	-4.72	28.91	-5.95	4.95
Benchmark	-10.98	-18.62	-1.49	3.19	5.03	6.34	40.56	-4.55	29.03	-5.86	5.07
Difference	0.00	-0.09	-0.13	-0.12	-0.12	-0.11	-0.18	-0.17	-0.12	-0.09	-0.12
Peer Group Median	-10.74	-17.59	-1.30	3.31	4.83	5.83	41.32	-4.31	27.32	-5.71	5.32
Rank	63	66	57	57	45	32	63	55	35	54	58
Population	255	250	234	207	181	148	251	248	256	244	243









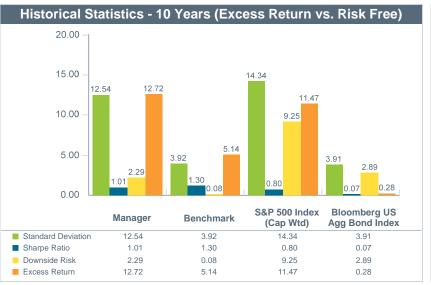
Actual Correlation - 10) Years
	Actual Correlation
Vanguard Spl Real Estate Index	1.00
S&P 500 Index (Cap Wtd)	0.71
Russell 2000 Index	0.64
MSCI EAFE Index (USD) (Net)	0.63
MSCI Emg Mkts Index (USD) (Net)	0.50
Bloomberg US Agg Bond Index	0.49
Bloomberg US Trsy US TIPS Index	0.59
Wilshire US REIT Index	0.99
HFRI FOF Comp Index	0.58
Bloomberg Cmdty Index (TR)	0.28
ICE BofAML 3 Mo US T-Bill Index	-0.19
Cons Price Index (Unadjusted)	-0.06

Performance shown is net of fees and product specific. Calculation is based on monthly periodicity. Performance shown is calculated using Net Asset Values (NAV). Parentheses contain percentile ranks. Benchmark consists of MSCI US REIT Index (USD) (Gross) adjusted to include a 2% cash position (Lipper Money Market Average) through 04/30/09; MSCI US REIT Index (USD) (Gross) through 01/31/18; MSCI US IM Real Estate 25/50 Transition Index through 07/24/18; and MSCI US IM Real Estate 25/50 Index (Gross) thereafter.

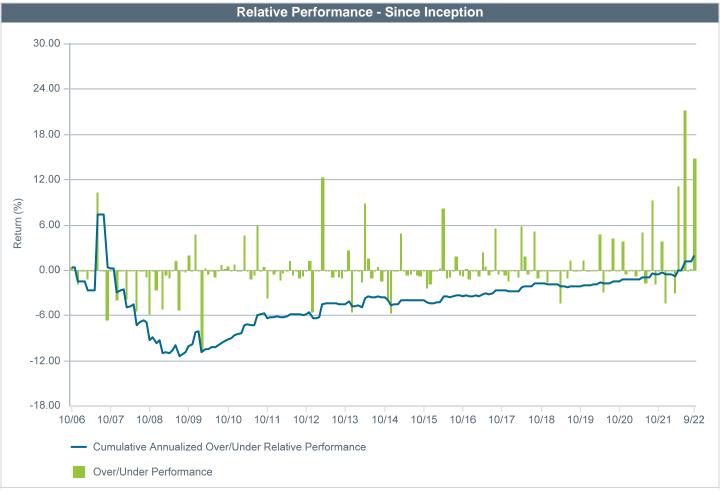


Manager: Hancock Timberland (SA)
Benchmark: NCREIF Timberland Index

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	17.69	67.72	29.04	18.43	15.10	13.45	19.14	10.18	-1.69	12.47	8.08
Benchmark	2.38	12.54	5.80	4.69	4.28	5.90	9.17	0.81	1.30	3.21	3.63
Difference	15.31	55.18	23.24	13.74	10.82	7.55	9.97	9.37	-2.99	9.26	4.45



	Actual Correlation
NCREIF Timberland Index	0.11
S&P 500 Index (Cap Wtd)	-0.20
Russell 2000 Index	-0.14
MSCI EAFE Index (USD) (Net)	-0.19
MSCI Emg Mkts Index (USD) (Net)	-0.17
Bloomberg US Agg Bond Index	-0.28
Bloomberg US Trsy US TIPS Index	-0.26
Wilshire US REIT Index	-0.16
HFRI FOF Comp Index	-0.07
Bloomberg Cmdty Index (TR)	-0.13
ICE BofAML 3 Mo US T-Bill Index	0.01
Cons Price Index (Unadjusted)	0.25



Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity.



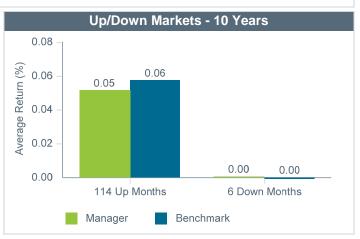
Manager: Dreyfus Gvt Csh Mgt;Inst (DGCXX)

Benchmark: FTSE 3 Mo T-Bill Index

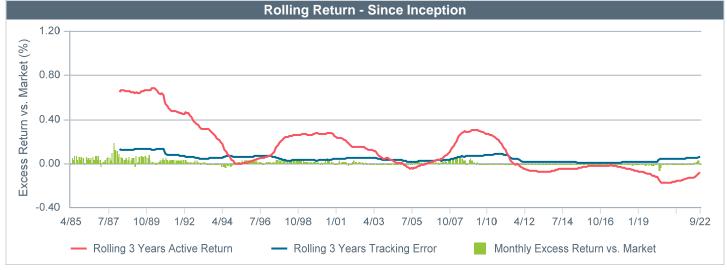
Peer Group: IM U.S. Taxable Money Market (MF)

			,	· ,							
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	2018	2017
Manager	0.50	0.68	0.49	1.02	0.84	0.59	0.03	0.37	2.09	1.73	0.79
Benchmark	0.45	0.63	0.57	1.13	0.92	0.66	0.05	0.58	2.25	1.86	0.84
Difference	0.05	0.05	-0.08	-0.11	-0.08	-0.07	-0.02	-0.21	-0.16	-0.13	-0.05
Peer Group Median	0.45	0.55	0.42	0.90	0.69	0.49	0.01	0.30	1.90	1.53	0.55
Rank	25	17	22	19	17	18	12	31	20	21	17
Population	801	763	713	662	568	527	768	789	793	817	831









Performance shown is net of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Addendum & Glossary



City of Jacksonville Employees' Retirement System Addendum

Performance Related Comments:

- Performance is annualized for periods greater than one year.
- The inception date shown indicates the first full month of performance following initial funding.
- The market value shown for the Transition Account includes residual assets from terminated managers.
- RVK began monitoring the assets of the City of Jacksonville Retirement System on 01/01/2019. Prior historical data was provided by the custodian and previous consultant.

Custom Composite Benchmark Comments:

- Current Total Fund Policy Index: The passive Total Fund Policy Index is calculated monthly and currently consists of 30% Russell 3000 Index, 23% MSCI ACW Ex US Index (USD) (Net), 20% Fixed Income Index, 15% Real Estate Index, and 12% Diversifying Assets Index.
- **US Equity Index**: The passive US Equity Index consists of 100% DJ US TSM Index through 06/2009 and 100% Russell 3000 Index thereafter.
- International Equity Index: The passive International Equity Index consists of 100% MSCI EAFE Index (USD) (Gross) through 01/2011 and 100% MSCI ACW Ex US Index (USD) (Net) thereafter.
- **Fixed Income Index**: The passive Fixed Income Index consists of 100% Bloomberg US Agg Bond Index through 10/2017 and 100% Bloomberg US Universal Bond Index thereafter.
- Real Estate Index: The active Real Estate Index is calculated monthly using beginning of month investment weights applied to each corresponding primary benchmark return.
- **Diversifying Assets Index**: The Diversifying Assets Index is calculated monthly and consists of 50% S&P MLP Index (TR)/50% NCREIF Timberland Index through 10/2017, 67% S&P MLP Index (TR)/33% NCREIF Timberland Index through 09/2020, and calculated monthly using beginning of month investment weights applied to each corresponding primary benchmark return thereafter.

Custom Manager Benchmark Comments:

- Baillie Gifford Index: The passive Baillie Gifford Index consists of 100% MSCI EAFE Grth Index (USD) (Net) through 10/2017 and 100% MSCI ACW Ex US Grth Index (USD) (Net) thereafter.
- Baillie Gifford Spliced Index: The passive Baillie Gifford Spliced Index consists of 100% MSCI EAFE Index (USD) (Net) through 11/2019 and 100% MSCI ACW Ex US Index (USD) (Net) thereafter.
- Custom REITs Index: The passive Custom REITs Index consists of 100% MSCI US REIT Index (USD) (Gross) through 01/2019 and 100% Vanguard Spl Real Estate Index thereafter.
- Vanguard Spliced Real Estate Index: The Vanguard Spl Real Estate Index consists of MSCI US REIT Index (USD) (Gross) adjusted to include a 2% cash position (Lipper Money Market Average) through 04/30/2009, MSCI US REIT Index (USD) (Gross) through 01/31/2018, MSCI US IM Real Estate 25/50 Transition Index through 07/24/2018, and MSCI US IM Real Estate 25/50 Index (Gross) thereafter.



Active Return - The difference between the investment manager/composite performance relative to the performance of an appropriate market benchmark.

Active Share - Measures the degree to which the holdings of a fund differ from the holdings of the benchmark. Active share is calculated by taking the sum of the absolute value of the differences of the weight of each holding in the fund versus the weight of each holding in the benchmark and dividing by two

Alpha - A measure of the difference between a portfolio's actual returns and its expected performance, given its level of risk as measured by beta. It is a measure of the portfolio's historical performance not explained by movements of the market or a portfolio's non-systematic return.

Alpha Ratio - A measure of a portfolio's non-systematic return per unit of downside risk. It is measured by dividing the alpha of a portfolio by the downside risk. The non-systematic return is a measure of a portfolio's historical performance not explained by movements of the market.

Average Quality - Bond quality ratings are reported using the investment managers' and the index providers' preferred rating agency. Average Quality for managers unable to provide this statistic is instead provided by Morningstar; if unavailable on Morningstar, it has been estimated using a credit quality distribution provided by the manager. There are two primary rating agencies in the US. Moody's assigns ratings on a system that employs up to four symbols (consisting of letters and numbers), such as, Aaa, Aa2, etc., with Aaa being the highest or safest rating. Standard & Poor's (S&P) employs a system that uses + and - along with letters, such as AAA, AA+, etc. The two rating agencies' systems are summarized below:

S&P	Moody's	<u>Explanation</u>	S&P	Moody's	Explanation
Higher Cr	edit Quality – I	nvestment Grade	Lower Cr	edit Quality – E	Below Investment Grade
AAA	Aaa	Prime/Highest credit quality	BB+	Ba1	Speculative/Low credit quality
AA+	Aa1	High credit quality	BB	Ba2	
AA	Aa2		BB-	Ba3	
AA-	Aa3		B+	B1	Highly speculative
A+	A1	Upper-medium credit quality	В	B2	
Α	A2		B-	B3	
A-	A3		CCC+	Caa1	Substantial credit/default risk
BBB+	Baa1	Lower-medium credit quality	CCC	Caa2	Extremely speculative
BBB	Baa2		CCC-	Caa3	
BBB-	Baa3		CC	Ca	Vulnerable to default
			С	Ca	
			D	С	In default

Benchmark Effect - The difference between the blended return of each respective managers' benchmark within a composite and the composite's benchmark return.

Beta - A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of a portfolio's non-diversifiable or systematic risk.

Box Plots - A graphical representation of the distribution of observations. From top to bottom, the four boxes represent the spread between the maximum value and the minimum value in each quartile. A quartile represents the values that divide the observations into four quarters (i.e., 1st quartile, 2nd quartile, 3rd quartile, and 4th quartile). The median observation is where the 2nd quartile and 3rd quartile meet.

Buy and Hold Attribution - At the beginning of the time period under analysis, the manager and benchmark portfolios are broken down into segments (i.e., styles, sectors, countries, and regions) based on the desired type of attribution. The formula assumes zero turn-over to the manager and benchmark portfolios throughout the period and calculates the segment returns ("buy and hold returns") to arrive at performance attribution. Due to portfolio turnover, buy and hold attribution may not accurately represent quarterly performance relative to the benchmark. Country, region, sector, and style allocations are as of the date one quarter prior to the reporting date, and the returns shown are for those segments throughout the quarter reported. Due to disclosure guidelines set by each investment manager, equity characteristics shown are as of the most recent date available. The following is the methodology for segment classification:

Sector - Attribution is calculated using the Global Industry Classification Standard (GICS), which is a detailed and comprehensive structure for sector and industry analysis. Stocks are classified by their primary sector as defined by S&P Capital IQ data. Attribution to "other" is the result of securities based in industries that do not fit into any GICS classification.

Country/Region - Attribution is calculated using the Morgan Stanley Capital International (MSCI) region standards. Stocks are classified by their domicile country/region, as defined by S&P Capital IQ data, and thus may differ from the classification of the investment manager and/or index provider. Attribution to "other" is the result of securities based in countries/regions that do not fit into any MSCI classification.

Style - Stocks are classified into the following style boxes: large/mid/small vs. growth/neutral/value. Stocks are classified along large/mid/small categories at the time of the Russell index rebalancing, using the index market cap boundaries as cutoff points. Stocks are classified along growth/neutral/value categories at the time of the Russell index rebalancing, using the price/book ratio as supplied by S&P Capital IQ. Stocks in the Russell 3000 Index portfolio are sorted by price/book ratio; names with the highest price/book ratio that make up 1/3 of the total market capitalization are assigned to the growth category, and names that make up the subsequent 1/3 of the total market capitalization are assigned to the names are assigned to the value category. Stocks are unclassified when there is not enough data to determine a size and style metric.

Portfolio Characteristics and Buy and Hold Attribution reports utilize product-specific data for all mutual funds and commingled funds.

Capital Markets Review -

Breakeven Inflation - Measures the expected inflation rate at each stated maturity by taking the difference between the real yield of the inflation-linked maturity curve and the yield of the closest nominal Treasury maturity.

Consumer Confidence - Measures domestic consumer confidence as defined by the degree of optimism on the state of the economy that consumers express through saving and spending.

Consumer Price Index (CPI) - Measures the change in the price level of consumer goods and services.

Federal Funds Rate - The interest rate at which a depository institution lends funds maintained at the Federal Reserve to another depository institution overnight. It is one of the most influential interest rates in the US economy, since it affects monetary and financial conditions, which in turn have a bearing on key aspects of the broad economy including employment, growth and inflation.

Option-Adjusted Spread - Measures the flat spread of an index or bond to the Treasury yield curve after removing the effect of any embedded options

Purchasing Managers Index (PMI) - Measures economic activity by surveying purchasing managers on a monthly basis as to whether business conditions have improved, worsened, or stayed the same.

Real Gross Domestic Product (Real GDP) - An inflation-adjusted measure that reflects the value of all goods and services produced by an economy in a given year.

Unemployment Rate - The percentage of the total labor force that is unemployed but actively seeking employment.

US Dollar Total Weighted Index - Measures the value of the US Dollar relative to a basket of other world currencies. It is calculated as the weighted geometric mean of the dollar's value versus the EUR, GBP, CAD, SEK, CHF, and JPY.

VIX - Measures the implied volatility of S&P 500 Index options by looking at the market's expectation of the S&P 500 Index volatility over the next 30 day period. Commonly referred to as the "fear index" or the "fear gauge."

Cash Flow Effect - The composite's active return minus the sum of each managers' active return minus the benchmark effect.

Consistency - The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. The higher the consistency figure, the more value a manager has contributed to the product's performance.

Convexity - A measure of the shape of the curve that describes the relationship between bond prices and bond yields.

Correlation - A statistical measure of the relationship between asset class returns. A value of 1.00 is a perfect correlation; that is, the asset classes always move in the same direction. A value of -1.00 indicates a perfect negative correlation, in which the asset classes always move in opposite directions of each other. A value of 0 indicates there is no relationship between the direction of returns of the two asset classes. Correlation calculations only consider the direction of changes relative to two variables and not the magnitude of those changes.

Coupon Rate - The percentage rate of interest paid on a bond or fixed income security; it is typically paid twice per year.

Current Yield - The annual income of a security divided by the security's current price.

Down Market Capture - Down market by definition is negative benchmark return and down market capture represents the ratio in % terms of the average portfolios return over the benchmark during the down market period. The lower the value of the down market capture the better the product's performance.

Downside Risk - A measure similar to standard deviation that focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative returns for the selected periodicity. The higher the factor, the riskier the product.

Earnings Per Share - It is backward looking, calculated using the one year current EPS divided by the one year EPS five years ago.

Effective Duration - The approximate percentage change in a bond's price for a 100 basis point change in yield.

Excess Return vs. Market - Average of the monthly arithmetic difference between the manager's return and the benchmark return over a specified time period, shown on an annualized basis.

Excess Return vs. Risk Free - Average of the monthly arithmetic difference between the manager's return and the risk-free return (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise) over a specified time period, shown on an annualized basis.

Excess Risk - A measure of the standard deviation of a portfolio's performance relative to the risk-free return.

Expense Ratios - Morningstar is the source for mutual fund expense ratios.

Gain/Loss - The net increase or decrease in the market value of a portfolio excluding its Net Cash Flow for a given period.

Indices - All indices and related information are considered intellectual property and are licensed by each index provider. The indices may not be copied, used, or distributed without the index provider's prior written approval. Index providers make no warranties and bear no liability with respect to the indices, any related data, their quality, accuracy, suitability, and/or completeness.

Information Ratio - Measured by dividing the active rate of return by the tracking error. The higher the information ratio, the more value-added contribution by the manager.

Liability Driven Investing (LDI) - A method to optimally structure asset investments relative to liabilities. The change in liabilities is estimated by the Ryan Labs Generic PPA Index of appropriate duration for that Plan. This benchmark is based on generic data and is therefore an approximation. RVK is not an actuarial firm, and does not have actuarial expertise.

Estimated Funded Status - The estimated ratio of a Plan's assets relative to its future liabilities. This is calculated by dividing the Plan's asset market value by the estimated present value of its liabilities. The higher the estimated funded status, the better the Plan's ability to cover its projected benefit obligations. An estimated funded status of 100% indicates a Plan that is fully funded.

Estimated PV of Liabilities - An estimate of a Plan's future liabilities in present value terms. The beginning of the period liability is provided by the Plan's actuary. The period-end present value liability estimate provided in this report is derived by applying the estimated percentage change generated using the Ryan Labs Generic PPA Index with duration similar to that reported on the most recent actuarial valuation report.

Duration of Liabilities - The sensitivity of the value of a Plan's liabilities to changes in interest rates, as calculated by the Plan's actuary.

Duration of Assets - The dollar-weighted average duration of all the individual Plan assets.

Estimated Plan Hedge Ratio - The estimate of how well a Plan's investment portfolio is hedged against changes in interest rates - a primary driver of funded status movements. This is calculated by dividing the dollar-weighted values of both the Plan asset duration by the liability duration and

multiplying by the estimated funded status. An estimated plan hedge ratio of zero indicates that the Plan's liabilities have not been hedged, whereas a value of one indicates fully hedged.

Modified Duration - The approximate percentage change in a bond's price for a 100 basis point change in yield, assuming the bonds' expected cash flows do not change.

Mutual Fund Performance - Whenever possible, manager performance is extended for any share class that does not have 10 years of history. Using Morningstar's methodology, a single ticker within the same fund family (often the oldest share class) is chosen to append historical performance.

Net Cash Flow - The sum, in dollars, of a portfolio's contributions and withdrawals. This includes all management fees and expenses only when performance shown is gross of fees.

Peer Groups -

Plan Sponsor Peer Groups - RVK utilizes the Mellon Analytical Solutions Trust Universe along with the Investment Metrics Plan Sponsor Universe. The combined Mellon Analytical Solutions Trust Universe and Investment Metrics Plan Sponsor Universe is used for comparison of total fund composite results and utilizes actual client performance compiled from consultant and custodian data. The Plan Sponsor Peer Group database includes performance and other quantitative data for over 2,100 plans which include corporate, endowment, foundation, public, and Taft Hartley plans.

Investment Manager Peer Groups - RVK utilizes Investment Metrics' Peer Groups for investment manager peer comparison and ranking. The Investment Metrics Peer Group database includes performance and other quantitative data for over 840 investment management firms and 29,000 investments products, across more than 160 standard peer groups. Mutual Fund Peer Groups are net of fees.

Percentile Rankings - Percentile rank compares an individual fund's performance with those of other funds within a defined peer group of managers possessing a similar investment style. Percentile rank identifies the percentage of a fund's peer group that has a higher return (or other comparative measurement) than the fund being ranked. Conversely, 100 minus the individual fund's ranking will identify the percentage of funds within the peer group that have a lower return than the fund being ranked.

1 - Highest Statistical Value 100 - Lowest Statistical Value

Example: American Funds AMCP;R-4 (RAFEX) is ranked in the 4th percentile within the IM US Equity Large-Cap Growth Funds (MF) Peer Group for the Sharpe Ratio. Within the IM US Equity Large-Cap Growth Funds peer group, 4% of the other funds performed better than American Funds AMCP;R-4 (RAFEX), while 96% of the funds performed worse.

Performance Methodology - RVK calculates performance for investment managers and composites using different methodologies.

Investment Managers - Performance is calculated for interim periods between all large external cash flows for a given month and geometrically linked to calculate period returns. An external cash flow is defined as cash, securities, or assets that enter or exit a portfolio. RVK defines a "large cash flow" as a net aggregate cash flow of ≥10% of the beginning-period portfolio market value or any cash flow that causes RVK calculated performance to deviate from manager/custodian reported performance in excess of 5 basis points for a given month.

Composites - The Modified Dietz methodology is utilized to calculate asset class, sub-asset class, and total fund composite performance. The Modified Dietz method calculates a time-weighted total rate of return that considers the timing of external cash flows; however, it does not utilize interim period performance to mitigate the impact of significant cash in- and outflows to the composite.

RVK calculates performance beginning with the first full month following inception. Since inception performance may vary from manager reported performance due to RVK using the first full month of returns as the inception date. Performance for both managers and composites is annualized for periods greater than one year.

Portfolio Characteristics - Due to disclosure guidelines set by each investment manager, portfolio characteristics shown are as of the most recent date available.

Price to Earnings Ratio - The ratio valuing a company's current share price relative to its trailing 12-month per-share earnings (EPS).

Private Equity Quartile Ranks - Private Equity quartile ranks are generated using vintage year peer group data provided by Thomson Reuters, and are based on each fund's annualized, since inception internal rate of return (IRR). Three Private Equity peer groups are available via Thomson Reuters: Buyout, Venture, and All Private Equity. Ranks are available quarterly, at a one-quarter lag.

R-Squared - The percentage of a portfolio's performance explained by the behavior of the appropriate benchmark. High R-Squared means a higher correlation of the portfolio's performance to the appropriate benchmark.

Return - Compounded rate of return for the period.

% Return - The time-weighted rate of return of a portfolio for a given period.

Risk Free Benchmark – ICE BofAML 3 Mo US T-Bill Index unless specified otherwise.

RVK Liquidity Rating - A qualitative method for determining the relative amount of liquidity in a portfolio. The characteristics considered when determining relative liquidity include trading volume, gates for redemption, leverage, nature of transactions, and pricing mechanisms. The RVK Liquidity Rating is calculated using beginning of month investment weights applied to each corresponding asset class liquidity rating.

Asset Class	RVK Liquidity Rating	Asset Class	RVK Liquidity Rating
Liquid Investments		Less Liquid Investments	
T-Bills and Treasurys	100	Fixed Income Plus Sector	50
Cash Equivalents	98	Stable Value (Plan Sponsor Directed)	50
TIPS	95	Hedge Funds of Funds	35
US Large Cap Equity	95	_	
Diversified Real Return	93		
Stable Value (Participant Directed)	91		
Global Equity	90	Not Liquid Investments	
Non-US Large Cap Equity	90	Core Real Estate	25
Global Tactical Asset Allocation	88	Core Plus Real Estate	15
MLPs	85	Non-Core Real Estate	5
US Mid Cap Equity	85	Private Equity Funds of Funds	5
US SMid Cap Equity	85		
US Small Cap Equity	85		
REITs	85		
Non-US Small Cap Equity	85		
Emerging Markets Equity	85		
Core Fixed Income	85		
Core Plus Fixed Income	80		

Sector Allocation - Negative fixed income sector allocation reflects manager's use of derivatives, short selling, or interest rate swaps.

Sharpe Ratio - Represents the excess rate of return over the risk-free return (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise), divided by the standard deviation of the excess return to the risk free asset. The result is the absolute rate of return per unit of risk. The higher the value, the better the product's historical risk-adjusted performance.

Simple Alpha - The difference between the manager's return and the benchmark's return.

Spread Duration - The approximate percentage change in a bond's price for a 100 basis point change in its spread over a Treasury of the same maturity.

Standard Deviation - A statistical measure of the range of a portfolio's performance. The variability of a return around its average return over a specified time period.

Thematic Classification - Represents dedicated manager allocations; as such, thematic allocations are approximations. RVK categorizes the following asset classes as Alpha, Capital Appreciation, Capital Preservation, and Inflation:

Alpha Absolute Return Strategies Currency Overlay	Capital Appreciation Public Equity Private Equity Preferred Securities High Yield Convertible Fixed Income TALF Funds Distressed Debt Emerging Market Fixed Income	Capital Preservation Core Fixed Income CMBS Fixed Income Asset Backed Fixed Income Domestic Core Plus Fixed Income Mortgage Backed Fixed Income International Developed Fixed Income Cash Equivalents Stable Value	Inflation TIPS Bank Loans Core Real Estate Real Return Inflation Hedges REITs Commodities
	Emerging Market Fixed Income Value Added Real Estate Opportunistic Real Estate	Stable Value	

Time Period Abbreviations - QTD - Quarter-to-Date. CYTD - Calendar Year-to-Date. FYTD - Fiscal Year-to-Date. YOY - Year Over Year.

Total Fund Attribution – The Investment Decision Process (IDP) model provides an approach to evaluating investment performance that applies to all asset classes and investment styles. The IDP model is based on a top-down hierarchy framework of investment decisions, with each decision contributing to the overall profit or loss. The IDP approach starts from the strategic asset allocation and follows the flow of the investments down to the manager's skill.

Strategic Asset Allocation (SAA) – The percentage return gained or lost from the long-term strategic asset allocation decision, the most significant determinant of long-term performance. SAA is the product of the target asset allocation multiplied by the corresponding benchmark returns.

Tactical Asset Allocation (TAA) – The percentage return gained or lost from not having been precisely allocated at the target asset allocation mix, whether by deviations that are tactical in nature or a by-product of moving towards the target mix. TAA is the product of the actual asset allocation multiplied by the broad asset class benchmarks, less the SAA.

Style Selection (SS) – The percentage return gained or lost from intentional style biases within each asset class (e.g. value rather than core or overweight to emerging markets relative to benchmark). SS is the product of the actual manager allocation within each asset class multiplied by their specific benchmark, less TAA.

Manager's Skill (MS) – The percentage return gained or lost from manager value added relative to their specific benchmark. MS is the product of the actual manager allocation multiplied by their achieved excess return.

Total Fund Beta - Total Fund Beta is calculated using the S&P 500 as the benchmark. It represents a measure of the sensitivity of the total fund to movements in the S&P 500 and is a measure of the Total Fund's non-diversifiable or systematic risk.

Tracking Error - A measure of the standard deviation of a portfolio's performance relative to the performance of an appropriate market benchmark.

Treynor Ratio - Similar to Sharpe ratio, but focuses on beta rather than excess risk (standard deviation). Treynor ratio represents the excess rate of return over the risk-free rate (i.e., ICE BofAML 3 Mo US T-Bill Index unless specified otherwise) divided by the beta. The result is the absolute rate of return per unit of risk. The higher the value, the better historical risk-adjusted performance.

Unit Value - The dollar value of a portfolio, assuming an initial nominal investment of \$100, growing at the compounded rate of %Return for a given period.

Up Market Capture - Up market by definition is positive benchmark return and up market capture represents the ratio in % terms of the average portfolio's return over the benchmark during the up market period. The higher the value of the up market capture the better the product's performance.

Yield to Maturity - The rate of return achieved on a bond or other fixed income security assuming the security is bought and held to maturity and that the coupon interest paid over the life of the bond will be reinvested at the same rate of return. The 30-Day SEC Yield is similar to the Yield to Maturity and is reported for mutual funds.

Yield to Worst - The bond yield calculated by using the worst possible yield taking into consideration all call, put, and optional sink dates.

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