

2022 Greenwich Quality Leader Award

RVK is 1 of 3 firms in the Overall U.S. Investment Consulting "large consultants" category to receive a 2022 *Coalition Greenwich Quality Leader* award. We are proud to be the <u>only firm</u> in this category to receive recognition for a 6th consecutive year. Coalition Greenwich issued the award on April 25, 2023, based on their February through November 2022 study. No direct or indirect compensation has been paid by RVK in connection with obtaining or using this award.













We are deeply grateful for your continued confidence and support.

From all of us here at RVK, thank you for the opportunity to serve you!

Award Criteria

- · Understanding of Client Goals and Objectives
- Advice on Long-Term Asset Allocation and Liability Issues
- · Advice on DC Plan Structure and Design
- Communication of Philosophy and Investment Beliefs
- Proactive Advice and Innovative Ideas
- · Client Satisfaction with Manager Recommendations
- Usefulness of Written Investment Performance Reviews

- Sufficient Professional Resources
- Credibility with Investment Committee or Trustees
- Capability of Consultants Assigned to Clients
- Responsiveness and Prompt Follow-up on Client Requests
- Timeliness in Providing Written Reports
- Usefulness of Personal Meetings
- Reasonable Fees Relative to Value Delivered



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Capital Markets Review



Capital Markets Review As of March 31, 2023

First Quarter Economic Environment

During Q1, both defensive and risk assets generally provided positive returns, following a difficult environment in 2022 characterized by geopolitical risk and rising interest rates. Although, capital markets continued to experience bouts of volatility. Despite this volatility, broad equity market indexes finished Q1 in positive territory. The broad bond market delivered positive returns in Q1 as market participants changed expectations on future interest rate moves from pricing in rate hikes to discounting rate pauses, or in some circumstances, cuts. Internationally, moderate winter temperatures helped to ease energy price inflation in Europe, but the uncertainty around supply shortages persisted due to the ongoing war in Ukraine. The FOMC decided to increase the federal funds rate in Q1 to a target range between 4.75% - 5.00%, representing a second straight monthly increase of 0.25% after a string of 0.50% to 0.75% increases. The FOMC's actions demonstrated continued focus on combating inflation, although FOMC data indicated that most officials expect only one more rate hike in 2023. The most recent data release indicated that Headline CPI for March came in slightly below average expectations, with estimated year-over-year inflation of 5.00%. Recessionary risks remained a concern, and recent FOMC minutes indicated that members thought it was increasingly likely that the US will enter a recession later in 2023 due to banking sector stresses. The IMF revised its global GDP growth forecast at the end of the quarter to 2.80%, a decline from its January 2023 forecast of 2.90%

5.00%. Recessionary risks remarked that members thought it was incined in 2023 due to banking sector sector forecast at the end of the quarted 2.90%.	creasingly likely t tresses. The IMF	hat the US revised its	will enter global Gl	a recession DP growth	on later
Economic Indicators	Mar-23	Dec-22	Mar-22	Mar-20	20 Yr
Federal Funds Rate (%)	4.83 ▲	4.33	0.33	0.08	1.34
Breakeven Infl 5 Yr (%)	2.47	2.38	3.43	0.53	1.93
Breakeven Infl 10 Yr (%)	2.33	2.30	2.83	0.93	2.09
CPI YoY (Headline) (%)	5.0 ▼	6.5	8.5	1.5	2.5
Unemployment Rate (%)	3.5 —	3.5	3.6	4.4	6.0
Real GDP YoY (%)	1.6	0.9	3.7	8.0	2.0
PMI - Manufacturing	46.3 T	48.4	57.1	49.1	53.6
USD Total Wtd Idx	119.48	121.40	115.35	122.55	103.40
WTI Crude Oil per Barrel (\$)	75.7 ▼	80.3		20.5	68.4
Gold Spot per Oz (\$)	1,979 ▲	1,824	1,937	1,577	1,179
Market Performance (%)	QTD	CYTD	1 Yr	5 Yr	10 Yr
S&P 500 (Cap Wtd)	7.50	7.50	-7.73	11.19	12.24
Russell 2000	2.74	2.74	-11.61	4.71	8.04
MSCI EAFE (Net)	8.47	8.47	-1.38	3.52	5.00
MSCI EAFE SC (Net)	4.92	4.92	-9.83	0.87	5.86
MSCI Emg Mkts (Net)	3.96	3.96	-10.70	-0.91	2.00
Bloomberg US Agg Bond	2.96	2.96	-4.78	0.90	1.36
ICE BofAML 3 Mo US T-Bill	1.07	1.07	2.50	1.41	0.87

-3.16

2.68

0.71

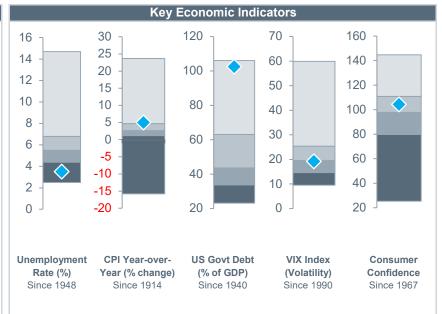
-5.36

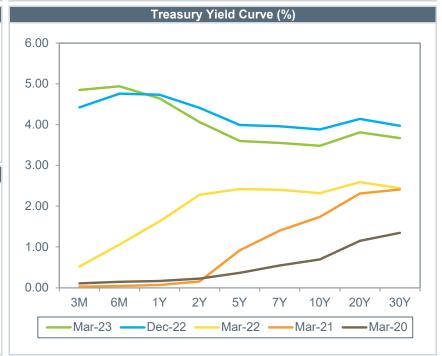
NCREIF ODCE (Gross)

Bloomberg Cmdty (TR)

HFRI FOF Comp

FTSE NAREIT Eq REIT (TR)







-3.16

2.68

0.71

-5.36

-3.07

-19.19

-12.49

-1.94

7.52

6.02

3.10

5.36

9.45

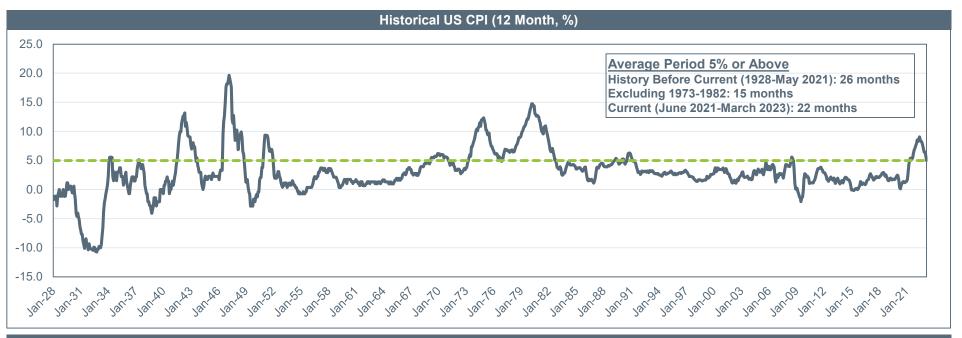
5.97

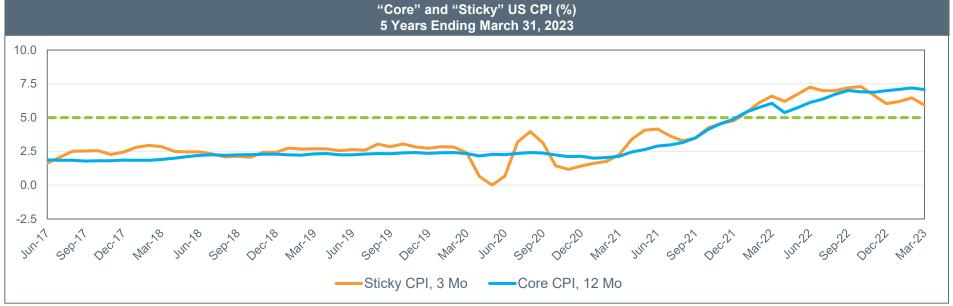
3.24

-1.72

Current Inflation in Context

As of March 31, 2023





As of March 31, 2023. Sources: US Bureau of Labor Statistics, Federal Reserve Bank of Cleveland, and Federal Reserve Bank of Atlanta. Core CPI is represented by the Revised FRB Cleveland Trimmed Mean, 12-month. Sticky CPI is represented by the FRB Atlanta Sticky-Price Index, 3-month.



US Equity Review As of March 31, 2023

First Quarter Review

Broad Market

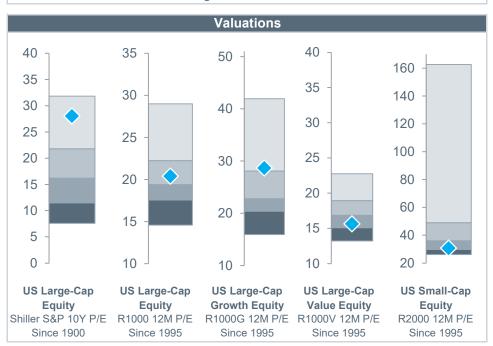
US equity markets performed well in Q1 overall, despite market turmoil caused by the banking sector in March and uncertainty regarding the Fed's path for short-term interest rates. The Russell 1000 Index was up 7.5%, while the Russell 2000 Index was up 2.7%. At the beginning of Q1, US stocks were buoyed by investor optimism after economic data indicated that inflation continued to cool, leading to expectations that the Fed's rate hiking cycle could end soon. However, the remainder of Q1 saw significant volatility due to both bank failures and weakening earnings.

Market Cap

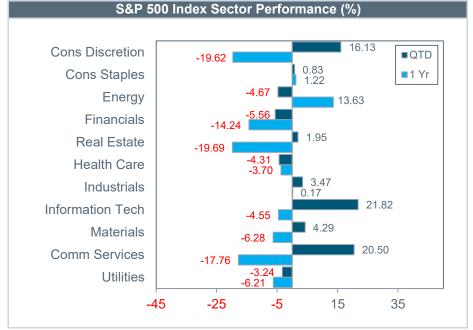
Active large- and mid-cap managers across all style groups struggled to outpace their respective benchmarks in Q1. Small-cap managers performed well, with value-oriented managers having a better success rate than core and growth managers.

Style and Sector

There was a strong rotation back into growth stocks across market capitalizations in Q1. The Russell 1000 Growth and Russell 2000 Growth indexes exceeded their value counterparts by 13.4% and 6.7%, respectively. Information technology and communication services were the best performing sectors while energy, healthcare, financials, and utilities were the largest contractors.











Non-US Equity Review

As of March 31, 2023

First Quarter Review

Developed Markets

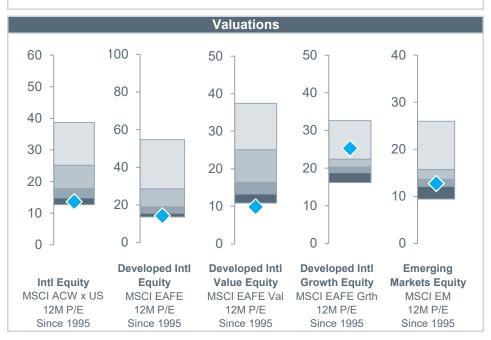
Q1 represented another strong showing for developed international equity markets, with the MSCI EAFE returning 8.5%, which outperformed both US as well as emerging markets. Growth stocks outperformed value stocks during the quarter, but they still lagged when measured over the trailing three-year period. Small-cap stocks underperformed large-cap stocks. Active management was broadly additive during the quarter.

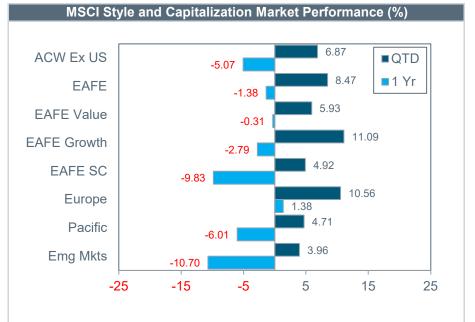
Emerging Markets

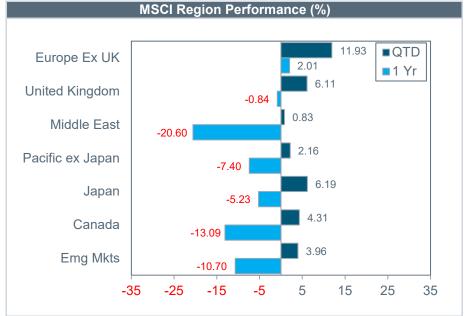
Although concerns about bank stability began in the US, they soon spread to Europe. After turmoil at Swiss bank Credit Suisse, UBS stepped in at the end of March to buy the troubled firm for \$3.25 billion, averting a major failure.

Market Cap & Style

As noted above, emerging markets continued to lag developed markets during Q1 with the MSCI Emerging Market Index returning 4.0%.









Alternatives Review As of March 31, 2023

First Quarter Review - Absolute Return

General Market - Hedge Funds

During Q1, hedge funds broadly delivered positive results across most peer groups. Led by strong conditions for long/short equity and fixed income trading, the HFRI Fund-Weighted Composite Index delivered a quarterly return of 1.3%. Macro-oriented strategies, one of the top performing peer groups in 2022, widely struggled in Q1, driven by shifting momentum across interest rate and commodity trends that provided strong tailwinds in recent quarters. Although there were significant fluctuations throughout, overall alpha was broadly flat for the quarter, with longs performing above global indices as shorts struggled.

General Market - Global Tactical Asset Allocation (GTAA)

Global Tactical Asset Allocation (GTAA) strategies that RVK follows closely generally posted positive returns during Q1 with moderate dispersion. Almost all active managers with significant diversification underperformed a US centric blend of 60% equity and 40% fixed income during the quarter, which favored larger market cap companies globally.

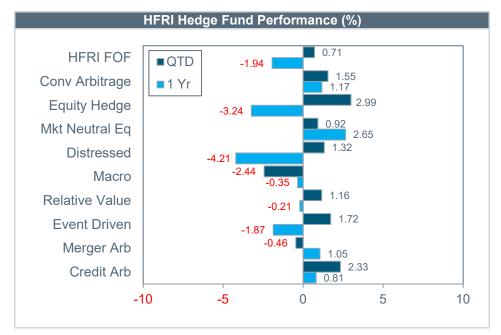
First Quarter Review - Real Assets

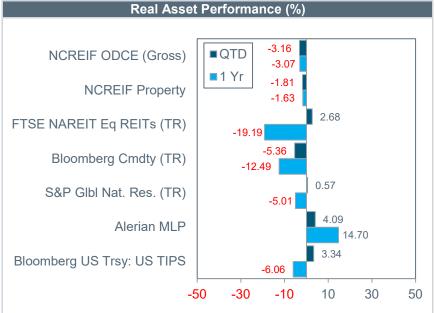
General Market - Diversified Inflation Strategies (DIS)

Diversified Inflation Strategy (DIS) managers tracked closely by RVK generally underperformed a US-centric blend of 60% equity and 40% fixed income over the quarter. Managers with larger exposures to TIPS and energy commodities, lagged peers most significantly in a quarter where strong equity performance on a global basis outperformed nearly all inflation sensitive asset classes.

General Market - Real Estate

Core private real estate returned -3.2% in Q1 (gross of fees), as reported by the NCREIF ODCE Index. The total return comprised of 0.8% income and -4.0% price appreciation. Income returns continue to trend at the lower end of historical levels, while price appreciation continues to trend negatively. Investors of publicly traded real estate outperformed private market, delivering a Q1 total return of 1.5%, as measured by FTSE NAREIT All REIT Index.







Fixed Income Review

As of March 31, 2023

First Quarter Review

Broad Market

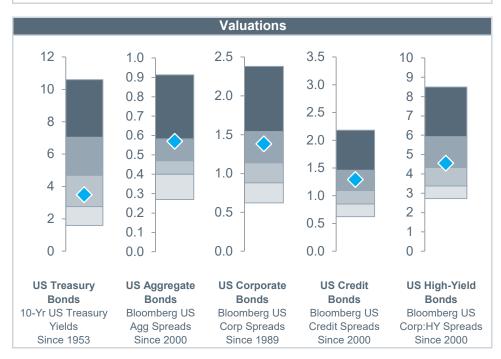
The decline in yields across Treasury notes and bonds produced a tailwind for fixed income markets, as the Bloomberg US Aggregate Bond Index experienced its best quarter in three years, returning 3.0% in Q1. However, volatility from 2022 continued into the new year as the Fed appeared to maintain its focus on fighting inflation. After initially declining in January, intermediate and long-term Treasury yields rose in February before falling again in March.

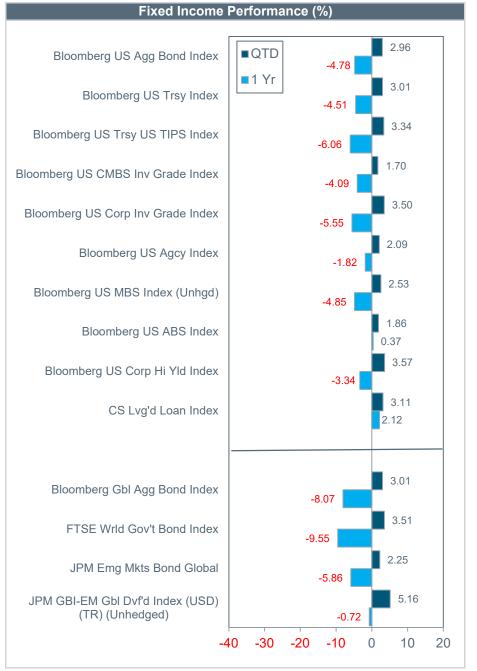
Credit Market

Corporate credit rallied to start the year amid expectations for a more dovish Fed. The optimism proved to be short-lived, however, as the banking crisis pushed spreads wider again in March. The Bloomberg US Credit Index returned 3.5% in Q1, lagging the Bloomberg US High Yield Index return of 3.6%.

Emerging Market Debt

Emerging market debt added to its recent rally, with the JPMorgan EMBI Global Diversified Index returning 1.9% in Q1, benefitting from the decline in Treasury yields. Despite a resurgence in February, the US dollar weakened over the quarter vs. emerging market currencies, and the JPMorgan GBI-EM Global Diversified Index ended the quarter up 5.2%.







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



Annual Asset Class Performance As of March 31, 2023

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD
Best	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	16.09	8.47
1	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	7.47	7.50
	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	1.46	5.76
	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	-5.31	4.92
	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	-11.19	3.96
	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	-11.85	3.57
	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	-13.01	3.34
	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	-14.45	2.96
	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	-18.11	2.74
	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	-20.09	2.68
	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	-20.44	1.57
	1.92	6.31	-13.32	4.21	-8.61	-4.90	-4.47	1.00	3.01		7.69	0.67	-1.55	-21.39	1.07
	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	-24.37	-3.16
Worst	-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	-27.09	-5.36
S&P 500 US Larg Cap		mall (Net)		(Net) - (I	MSCI EM Net) - Int'l Emg Mkts	Bloombrg US Agg Bond - Fl	Bloombrg US Corp H Yield - FI	Bloombro i US Trsy U TIPS - Fl	S Crodit I	ov OD	CE NAR	EIT Eq (EITs In	RI FOF Comp idex - ARS	Bloombrg Cmdty (TR) - Commod.	ICE BofAML 3 Mo T-Bill - Cash Equiv



Police Plan



Kansas City Police Employees' Retirement Systems (KCPERS) Investment Objective Review As of March 31, 2023

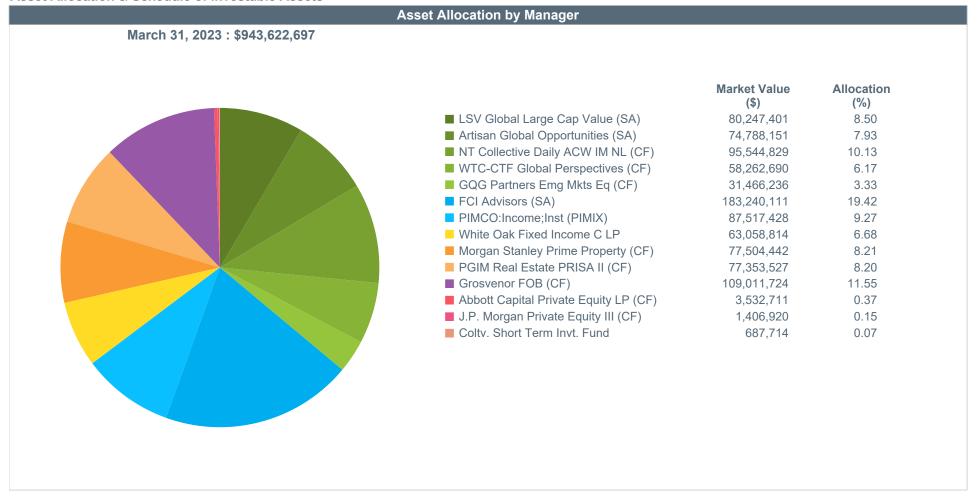
	Asset Allocation					
	Yes	No	Current	Min.	Target	Max.
Global Equity	✓		36.1%	33%	38%	43%
Fixed Income	✓		28.7%	26%	31%	36%
Direct Lending	✓		6.7%	4%	7%	10%
Real Estate	✓		16.4%	9%	13%	17%
Absolute Return	✓		11.6%	7%	11%	15%
Private Equity		4	0.5%	0%	0%	0%
Cash Equivalent	✓		0.1%	0%	0%	5%
Total Fund	✓		100%	95%	100%	100%

Investment Policy Guidelines				
	Performance (Net)/ Rank	Yes	No	Comments
Performance (over full market cycle of 5 years)	Kank			
Total Fund				
Total fund composite rate of return exceeds the current Target Allocation Index (gross of fees) over 5 years.	5.26%	✓		
The total fund return is equal to or exceeds 7.25% annualized return (gross of fees) over 5 years.	5.26%		1	
Global Equity				
The global equity composite rate of return exceeds the benchmark (net of fees).	6.19%		1	
The global equity composite performed at the fortieth (40th) percentile or better.	69		✓	
LSV Global Large Cap Value (SA)				
The manager return exceeds the benchmark (net of fees).	5.53%		✓	
The manager performed at the fortieth (40th) percentile or better.	58		1	
Artisan Global Opportunities (SA)				
The manager return exceeds the benchmark (net of fees).	8.28%	✓		
The manager performed at the fortieth (40th) percentile or better.	41		1	
NT Collective Daily ACW IM NL (CF)				
The manager return exceeds the benchmark (net of fees).	6.89%	√		
The manager performed at the fortieth (40th) percentile or better.	3	✓		
WTC-CTF Global Perspectives (CF)		,		
The manager return exceeds the benchmark (net of fees).	5.79%	1		
The manager performed at the fortieth (40th) percentile or better.	19	٧		
GQG Partners Emg Mkts Eq (CF) The manager return exceeds the benchmark (net of fees).	N/A			Insufficient history.
The manager return exceeds the benchmark (net of lees). The manager performed at the fortieth (40th) percentile or better.	N/A			Insufficient history.
Fixed Income	IN/A			ilisuilicient filstory.
The fixed income composite rate of return exceeds the benchmark (net of fees).	1.86%	✓		
The fixed income composite performed at the fortieth (40th) percentile or better.	5	✓		
FCI Advisors (SA)				
The manager return exceeds the benchmark (net of fees).	1.47%	1		
The manager performed at the fortieth (40th) percentile or better. PIMCO:Income;Inst (PIMIX)	11	√		
The manager return exceeds the benchmark (net of fees).	2.26%	1		
The manager performed at the fortieth (40th) percentile or better.	18	✓		
Direct Lending				
The direct lending composite rate of return exceeds the benchmark (net of fees).	3.98			Insufficient history.
White Oak Fixed Income C LP				
The manager return exceeds the benchmark (net of fees).	3.98			Insufficient history.
Real Estate				
The real estate composite rate of return exceeds the benchmark (net of fees).	7.39%	✓		
Morgan Stanley Prime Property (CF)				
The manager return exceeds the benchmark (net of fees).	7.70%	✓		
PGIM Real Estate PRISA II (CF)				
The manager return exceeds the benchmark (net of fees). Absolute Return	7.07%	✓		
The absolute return composite rate of return exceeds the benchmark (net of fees).	3.01%		1	
Grosvenor FOB (CF)				
The manager return exceeds the benchmark (net of fees).	3.36%		1	
Private Equity				
The private equity composite rate of return exceeds the benchmark (net of fees).	8.38%		1	

The Investment Policy Review for the Police Retirement System of Kansas City, Missouri examines client specific net returns, except for the Total Fund which examines client specific gross return. Managers that do not have 5 years of client specific net performance populate are backfilled with composite/manager gross performance until sufficient historical client-specific net performance is available. White Oak Fixed Income C LP and GGG Partners Emg Mkts Eq (CF) do not have 5 years of composite level returns. The two private equity managers are in their final stages of distributing capital; performance for these managers is not relevant.



Asset Allocation & Schedule of Investable Assets



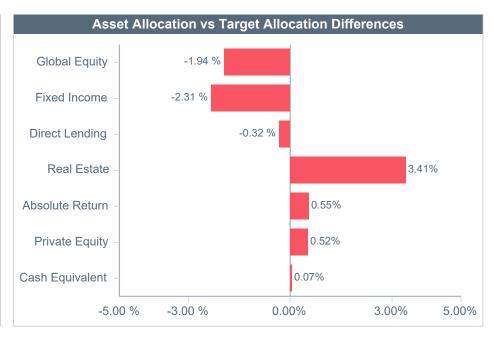
Schedule of Investable Assets										
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return					
QTD	929,025,731	-12,759,128	27,356,094	943,622,697	2.94					
CYTD	929,025,731	-12,759,128	27,356,094	943,622,697	2.94					
FYTD	986,540,335	-38,805,847	-4,111,791	943,622,697	-0.35					

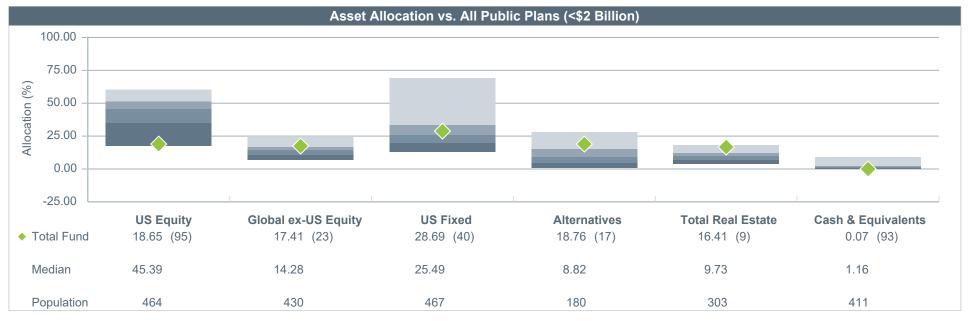
Allocations shown may not sum up to 100% exactly due to rounding. Performance shown is net of fees.



Total Fund vs. All Public Plans (<\$2 Billion)

Asset Allocation vs. Target Allocation										
	Market Value (\$)	Allocation (%)	Target (%)	Minimum (%)	Maximum (%)					
Total Fund	943,622,697	100.00	100.00	-	-					
Global Equity	340,309,307	36.06	38.00	33.00	43.00					
Fixed Income	270,757,539	28.69	31.00	26.00	36.00					
Direct Lending	63,058,814	6.68	7.00	4.00	10.00					
Real Estate	154,857,969	16.41	13.00	9.00	17.00					
Absolute Return	109,011,724	11.55	11.00	7.00	15.00					
Private Equity	4,939,631	0.52	0.00	0.00	0.00					
Cash Equivalent	687,714	0.07	0.00	0.00	5.00					



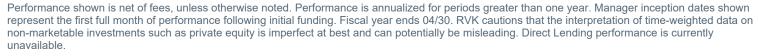


Parentheses contain percentile ranks. Allocations may not sume up to 100% exactly due to rounding. The Board has elected not to make additional Private Equity commitments and as a result, the Private Equity allocation is winding down. The Board-approved rebalancing plan is in the process of being implemented.



Asset Allocation & Performance

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020
Total Fund (Gross)	\$943.62	3.05	3.05	0.07	-4.07	8.49	5.26	6.70	6.47	-10.08	10.90	12.06
All Public Plans (<\$2 Billion)		4.25	4.25	0.52	-5.05	10.73	6.01	7.31	6.91	-13.51	13.60	12.78
Rank		87	87	66	25	87	77	77	68	14	83	61
Total Fund	\$943.62	2.94	2.94	-0.35	-4.52	7.95	4.73	6.17	N/A	-10.51	10.29	11.54
Target Allocation Index		3.40	3.40	0.82	-3.33	7.09	5.18	6.00	5.81	-9.11	9.89	10.25
Difference		-0.46	-0.46	-1.17	-1.19	0.86	-0.45	0.17	N/A	-1.40	0.40	1.29
7.25% Annualized Return		1.77	1.77	6.63	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25
Difference		1.17	1.17	-6.98	-11.77	0.70	-2.52	-1.08	N/A	-17.76	3.04	4.29
Global Equity	\$340.31	6.31	6.31	0.88	-7.36	15.50	6.19	9.20	N/A	-18.46	16.64	17.54
MSCI ACW IM Index (USD) (Net)		6.95	6.95	0.28	-7.68	15.64	6.58	8.97	7.95	-18.40	18.22	16.25
Difference		-0.64	-0.64	0.60	0.32	-0.14	-0.39	0.23	N/A	-0.06	-1.58	1.29
IM Global Large Cap Equity (MF) Median		8.45	8.45	1.82	-6.72	13.70	7.29	9.65	8.62	-22.14	16.85	20.30
Rank		78	78	72	54	22	69	61	N/A	34	54	62
Fixed Income	\$270.76	2.96	2.96	0.10	-3.64	-0.35	1.86	2.15	N/A	-11.54	-0.45	9.18
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51
Difference		0.00	0.00	1.13	1.14	2.42	0.96	1.27	N/A	1.47	1.10	1.67
IM Global Fixed Income (MF) Median		2.76	2.76	-2.18	-6.10	-1.50	-0.41	0.40	0.35	-14.66	-2.73	8.15
Rank		36	36	21	31	35	5	13	N/A	31	10	36





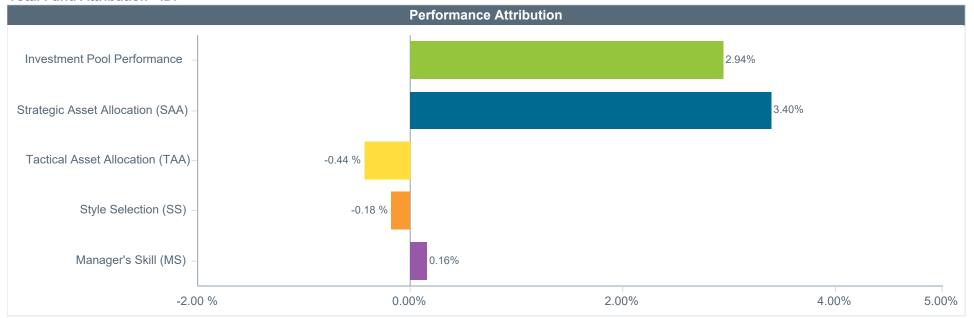
Asset Allocation & Performance

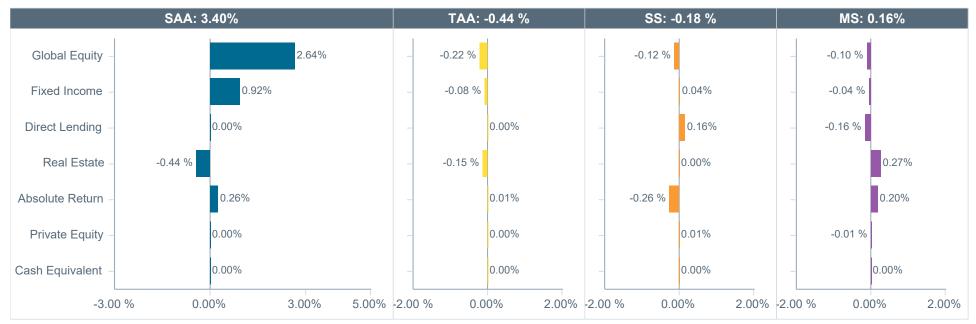
	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020
Direct Lending	\$63.06	0.00	0.00	-3.48	-3.48	3.12	3.98	N/A	N/A	-2.75	4.60	2.66
ICE BofAML 3 Mo US T-Bill Index+5%		0.00	0.00	4.75	5.19	5.13	5.99	5.93	5.67	6.53	5.05	5.70
Difference		0.00	0.00	-8.23	-8.67	-2.01	-2.01	N/A	N/A	-9.28	-0.45	-3.04
Real Estate	\$154.86	-1.80	-1.80	-2.91	-2.91	8.10	7.39	7.78	N/A	6.00	21.73	0.54
NCREIF ODCE Index (AWA) (Net)		-3.33	-3.33	-3.86	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34
Difference		1.53	1.53	0.95	0.95	0.63	0.82	1.02	N/A	-0.55	0.71	0.20
Absolute Return	\$109.01	1.82	1.82	1.31	0.18	7.36	3.01	4.35	N/A	-6.52	6.32	11.60
Long Term Absolute Return Custom Benchmark		2.31	2.31	7.18	7.63	5.92	6.41	6.37	N/A	6.53	5.05	5.62
Difference		-0.49	-0.49	-5.87	-7.45	1.44	-3.40	-2.02	N/A	-13.05	1.27	5.98
Absolute Return Custom Benchmark		0.10	0.10	0.18	-0.54	8.16	3.89	4.66	N/A	-1.35	6.77	9.32
Difference		1.72	1.72	1.13	0.72	-0.80	-0.88	-0.31	N/A	-5.17	-0.45	2.28
Private Equity	\$4.94	-0.15	-0.15	-16.23	-16.32	11.31	8.38	9.44	N/A	-18.75	28.38	20.44

See addendum for custom index comments. 7.25% annualized return represents the System's long-term return goal based on the System's current actuarial assumed rate of return.



Total Fund Attribution - IDP

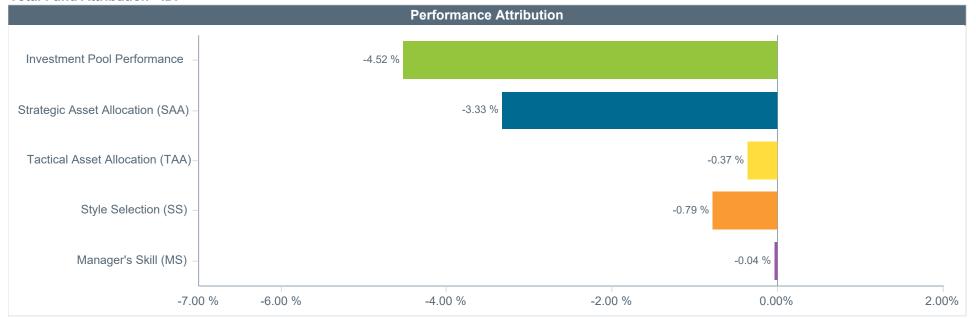


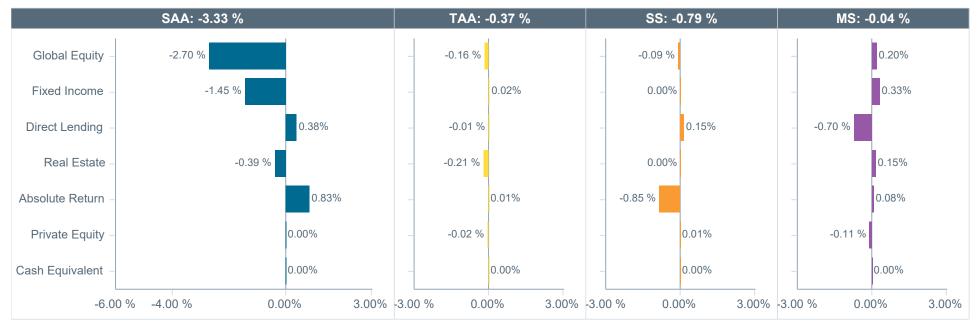


Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



Total Fund Attribution - IDP

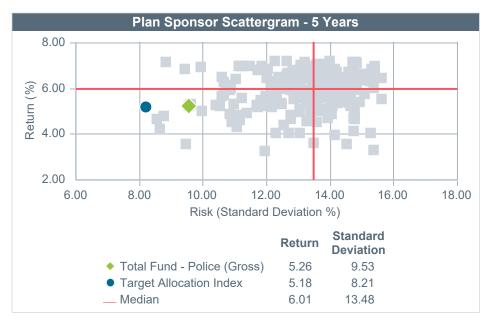




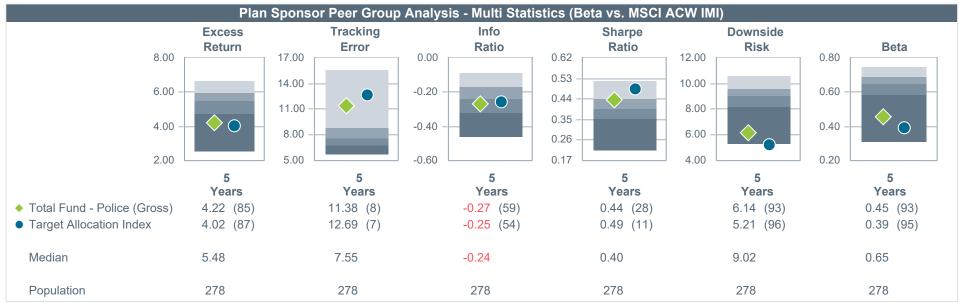
Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



Total Fund - Police (Gross) vs. All Public Plans (<\$2 Billion)



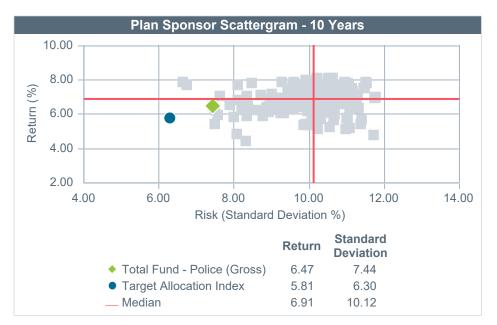




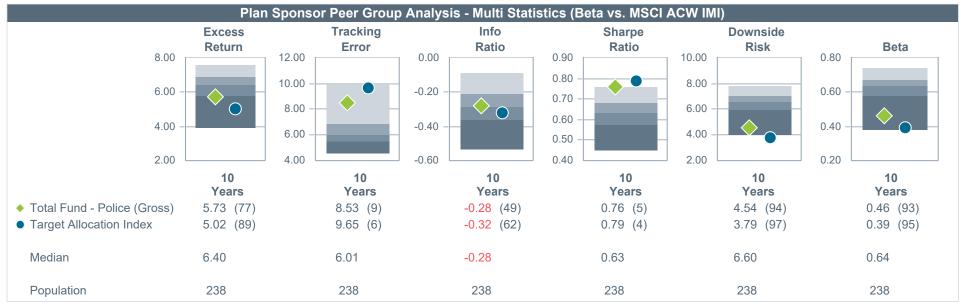
Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.



Total Fund - Police (Gross) vs. All Public Plans (<\$2 Billion)



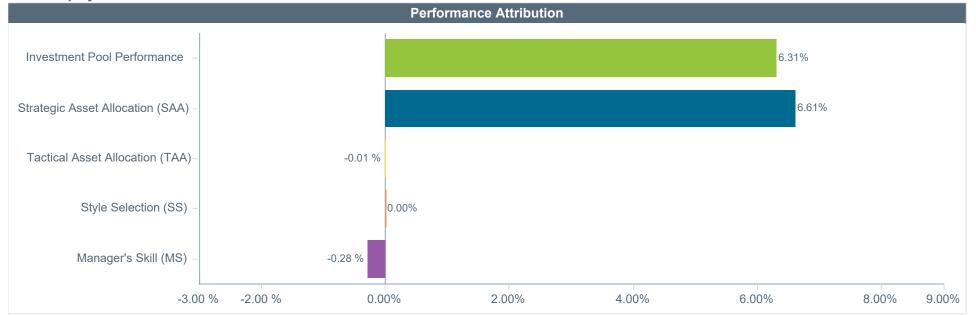


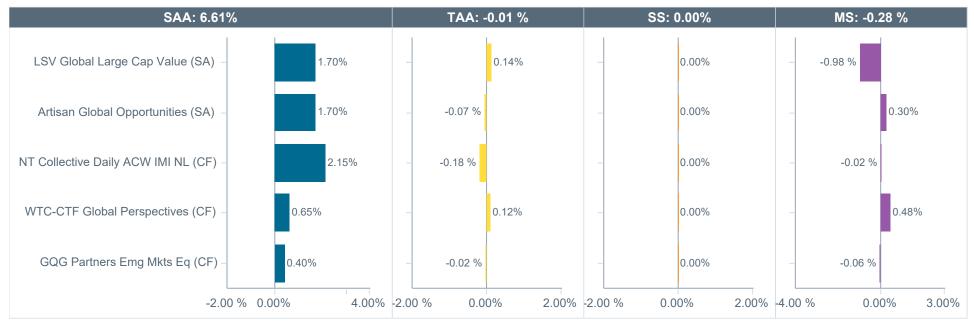


Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.



Global Equity Attribution - IDP

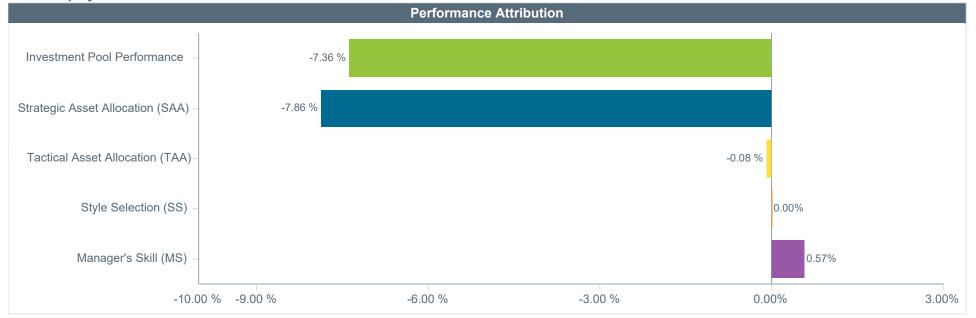




Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



Global Equity Attribution - IDP

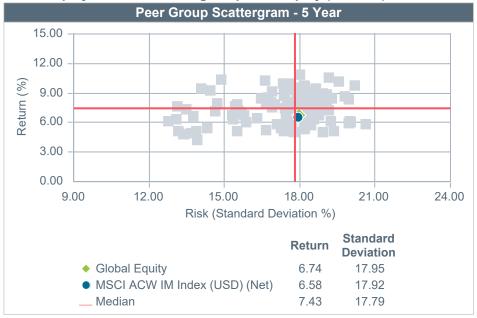




Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



Global Equity vs. IM Global Large Cap Core Equity (SA + CF)







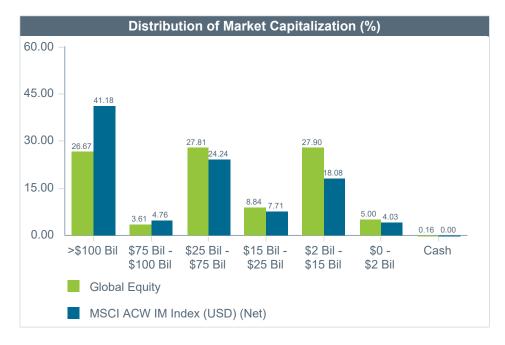
Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Kansas City Police Employees' Retirement Systems Global Equity vs. MSCI ACW IM Index (USD) (Net) Portfolio Characteristics

Top Ten Equity Holdings									
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)					
Advanced Micro Devices Inc	1.31	0.23	1.08	51.32					
Veeva Systems Inc	1.31	0.04	1.27	13.89					
Apple Inc	1.09	3.87	-2.78	27.11					
Novo Nordisk A/S	1.06	0.39	0.67	18.42					
Boston Scientific Corp	1.05	0.11	0.94	8.13					
LONZA GROUP AG	0.98	0.07	0.91	22.28					
Techtronic Industries Co Ltd	0.90	0.02	0.88	-3.24					
Astrazeneca PLC	0.85	0.32	0.53	4.24					
Microsoft Corp	0.85	3.02	-2.17	20.52					
NextEra Energy Inc	0.78	0.23	0.55	-7.20					
% of Portfolio	10.18	8.30	1.88						

Portfolio 138,313	Benchmark 306,621
· ·	300.021
1,838	1,809
14.15	16.23
2.87	3.27
16.73	15.60
2.79	2.30
1.00	1.00
9,326	9,144
	2.87 16.73 2.79 1.00







0.23

0.16

0.00

8.00

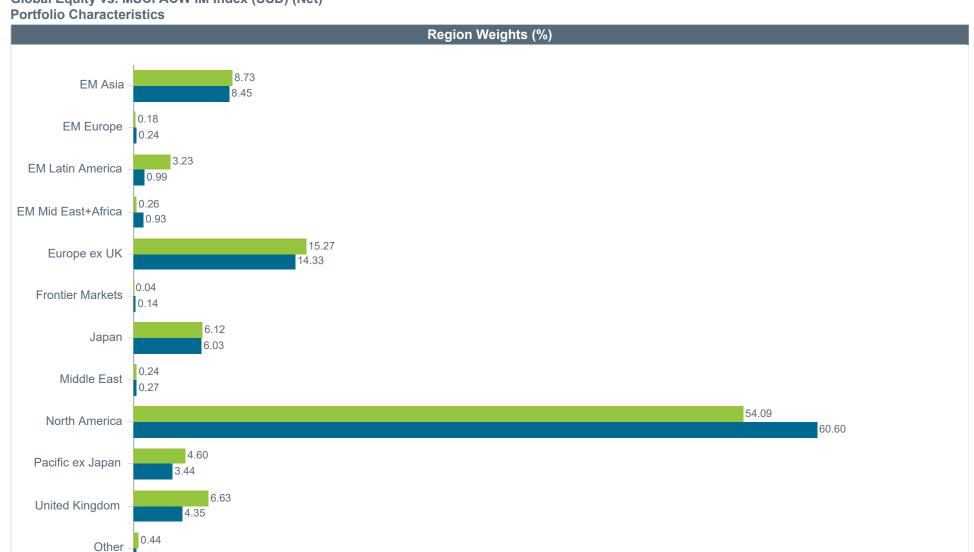
Global Equity

16.00

24.00

0.00

Cash





64.00

72.00

MSCI ACW IM Index (USD) (Net)

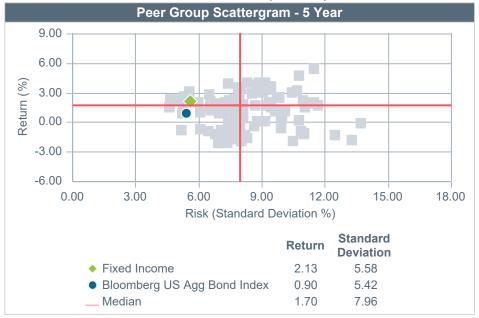
32.00

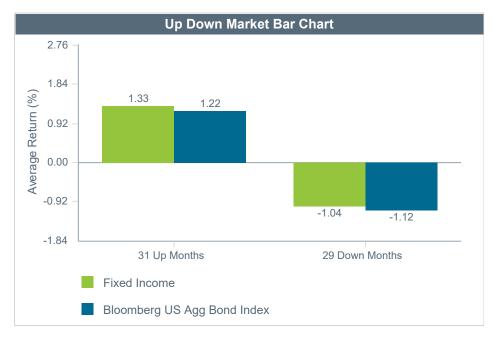
40.00

48.00

56.00

Fixed Income vs. IM Global Fixed Income (SA + CF)





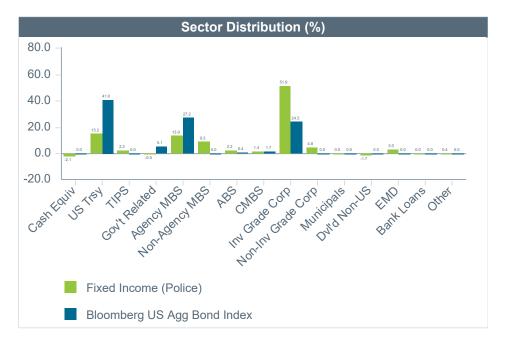


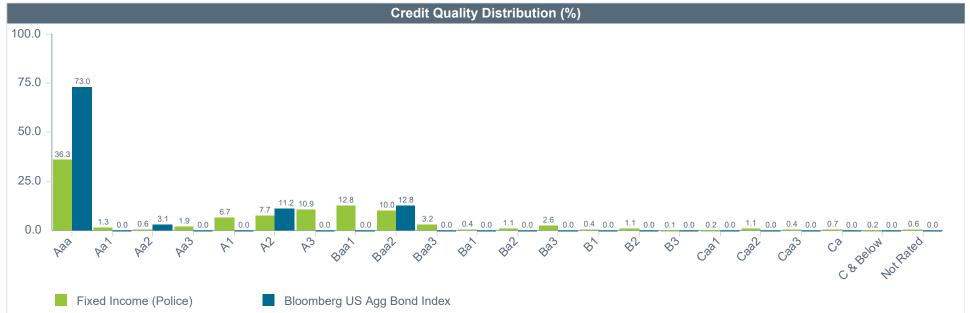
Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Kansas City Police Employees' Retirement Systems Fixed Income (Police) vs. Bloomberg US Agg Bond Index Portfolio Characteristics

Portfolio Characteristics									
	Portfolio	Benchmark							
Effective Duration	5.26	6.33							
Avg. Maturity	7.36	8.50							
Avg. Quality	A2	Aa1/Aa2							
Coupon Rate (%)	3.23	2.79							
Yield To Maturity (%)	5.06	4.40							
Holdings Count	7,716	13,278							





Allocation to "Other" consists of Convertible Bonds, Preferred Stock, and Euro/Yankee Bonds. PIMCO:Income;Inst (PIMIX) effective duration is used as modified duration.



Asset Allocation & Performance - Gross of Fees

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Global Equity														
LSV Global Large Cap Value (SA)	\$80.25	3.79	3.79	1.84	-3.44	19.33	6.20	8.72	N/A	-8.13	22.90	2.87	6.84	05/01/2014
MSCI Wrld Index (USD) (Net)		7.73	7.73	1.40	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	7.73	
Difference		-3.94	-3.94	0.44	3.58	2.93	-1.81	-1.02	N/A	10.01	1.08	-13.03	-0.89	
MSCI Wrld Val Index (USD) (Net)		0.92	0.92	-0.07	-5.05	15.90	4.99	7.17	6.54	-6.52	21.94	-1.16	5.00	
Difference		2.87	2.87	1.91	1.61	3.43	1.21	1.55	N/A	-1.61	0.96	4.03	1.84	
IM Global Large Cap Value Equity (SA+CF) Median		5.93	5.93	2.71	-3.34	16.67	6.36	8.66	7.98	-10.16	18.77	6.78	6.57	
Rank		79	79	64	52	29	53	48	N/A	35	13	70	41	
Artisan Global Opportunities (SA)	\$74.79	9.35	9.35	0.80	-11.32	13.02	9.07	12.23	N/A	-29.41	15.26	41.63	11.09	05/01/2014
MSCI Wrld Index (USD) (Net)		7.73	7.73	1.40	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	7.73	
Difference		1.62	1.62	-0.60	-4.30	-3.38	1.06	2.49	N/A	-11.27	-6.56	25.73	3.36	
MSCI Wrld Grth Index (USD) (Net)		15.10	15.10	2.38	-9.82	15.93	10.37	11.80	10.81	-29.21	21.18	33.83	10.07	
Difference		-5.75	-5.75	-1.58	-1.50	-2.91	-1.30	0.43	N/A	-0.20	-5.92	7.80	1.02	
IM Global Large Cap Growth Equity (SA+CF) Median		8.88	8.88	2.06	-7.90	15.02	8.76	11.41	10.18	-23.38	17.80	30.10	9.31	
Rank		46	46	61	75	77	47	28	N/A	74	61	24	19	
NT Collective Daily ACW IM NL (CF)	\$95.54	6.89	6.89	1.17	-6.72	16.05	6.98	9.44	N/A	-17.56	18.12	16.73	7.43	03/01/2014
MSCI ACW IM Index (USD) (Net)		6.95	6.95	0.28	-7.68	15.64	6.58	8.97	7.95	-18.40	18.22	16.25	6.95	
Difference		-0.06	-0.06	0.89	0.96	0.41	0.40	0.47	N/A	0.84	-0.10	0.48	0.48	
IM Global Large Cap Core Equity (SA+CF) Median		6.75	6.75	1.78	-5.21	15.52	7.43	9.23	8.93	-16.49	19.99	15.13	7.73	
Rank		47	47	62	71	43	59	48	N/A	59	64	44	56	
WTC-CTF Global Perspectives (CF)	\$58.26	7.19	7.19	5.11	-3.60	N/A	N/A	N/A	N/A	-13.92	22.80	N/A	15.81	11/01/2020
MSCI ACW Sm Cap Index (USD) (Net)		4.24	4.24	-2.27	-9.57	17.93	4.19	7.66	7.15	-18.67	16.10	16.33	8.51	
Difference		2.95	2.95	7.38	5.97	N/A	N/A	N/A	N/A	4.75	6.70	N/A	7.30	
IM Global Small Cap Equity (SA+CF) Median		6.42	6.42	-0.47	-7.28	18.20	5.34	8.37	8.25	-21.37	21.14	17.53	8.25	
Rank		25	25	25	21	N/A	N/A	N/A	N/A	32	40	N/A	17	
GQG Partners Emg Mkts Eq (CF)	\$31.47	3.64	3.64	-5.21	-10.84	N/A	N/A	N/A	N/A	-20.64	-0.82	N/A	-3.48	11/01/2020
MSCI Emg Mkts Index (USD) (Net)		3.96	3.96	-5.44	-10.70	7.83	-0.91	4.91	2.00	-20.09	-2.54	18.31	-2.12	
Difference		-0.32	-0.32	0.23	-0.14	N/A	N/A	N/A	N/A	-0.55	1.72	N/A	-1.36	
IM Emerging Markets Equity (SA+CF) Median		4.94	4.94	-2.82	-8.78	10.01	0.69	6.07	3.30	-19.72	0.75	18.93	-1.08	
Rank		76	76	74	73	N/A	N/A	N/A	N/A	57	59	N/A	72	

Performance shown is gross of fees, unless otherwise noted. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading. White Oak Income performance is currently unavailable.



Asset Allocation & Performance - Gross of Fees

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Fixed Income														
FCI Advisors (SA)	\$183.24	3.18	3.18	-0.44	-4.78	-2.18	1.62	1.38	1.83	-13.41	-1.92	10.49	7.00	01/01/1975
Bloomberg US Gov't Crdt Bond Index		3.17	3.17	-0.88	-4.81	-2.63	1.16	1.10	1.50	-13.58	-1.75	8.93	6.80	
Difference		0.01	0.01	0.44	0.03	0.45	0.46	0.28	0.33	0.17	-0.17	1.56	0.20	
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	N/A	
Difference		0.22	0.22	0.59	0.00	0.59	0.72	0.50	0.47	-0.40	-0.37	2.98	N/A	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median		3.16	3.16	-0.96	-4.67	-1.82	1.34	1.39	1.78	-12.96	-1.23	8.51	N/A	
Rank		45	45	12	64	74	23	51	44	78	93	6	N/A	
PIMCO:Income;Inst (PIMIX)	\$87.52	2.69	2.69	1.86	-0.80	4.11	2.79	N/A	N/A	-7.34	3.11	6.31	2.79	09/01/2017
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	0.53	
Difference		-0.27	-0.27	2.89	3.98	6.88	1.89	N/A	N/A	5.67	4.66	-1.20	2.26	
IM Multi-Sector General Bond (MF) Median		2.97	2.97	-0.63	-3.55	3.88	2.48	3.68	3.24	-10.71	2.55	7.52	2.33	
Rank		65	65	8	13	41	35	N/A	N/A	20	45	66	29	
Direct Lending														
White Oak Fixed Income C LP	\$63.06	0.00	0.00	-3.48	-3.48	4.11	5.39	N/A	N/A	-2.75	6.85	3.68	5.39	04/01/2018
ICE BofAML 3 Mo US T-Bill Index+5%		0.00	0.00	4.75	5.19	5.13	5.99	5.93	5.67	6.53	5.05	5.70	5.99	
Difference		0.00	0.00	-8.23	-8.67	-1.02	-0.60	N/A	N/A	-9.28	1.80	-2.02	-0.60	
Real Estate														
Morgan Stanley Prime Property (CF)	\$77.50	-1.03	-1.03	-0.99	-0.99	9.81	8.88	9.25	N/A	7.38	22.89	2.31	10.29	10/01/2014
NCREIF ODCE Index (AWA) (Gross)		-3.16	-3.16	-3.07	-3.07	8.41	7.52	7.71	9.45	7.47	22.17	1.19	8.76	
Difference		2.13	2.13	2.08	2.08	1.40	1.36	1.54	N/A	-0.09	0.72	1.12	1.53	
PGIM Real Estate PRISA II (CF)	\$77.35	-2.08	-2.08	-2.67	-2.67	8.76	8.26	8.67	10.76	7.02	23.18	0.98	8.12	10/01/2004
NCREIF ODCE Index (AWA) (Gross)		-3.16	-3.16	-3.07	-3.07	8.41	7.52	7.71	9.45	7.47	22.17	1.19	7.88	
Difference		1.08	1.08	0.40	0.40	0.35	0.74	0.96	1.31	-0.45	1.01	-0.21	0.24	
Absolute Return														
Grosvenor FOB (CF) (Net)	\$109.01	1.82	1.82	1.31	0.18	7.18	3.36	4.54	N/A	-6.52	6.32	14.40	3.35	08/01/2014
HFN FOF Multi-Strat Index (Net)		0.10	0.10	0.18	-0.54	7.68	3.51	4.07	3.23	-1.35	6.77	9.79	2.89	
Difference		1.72	1.72	1.13	0.72	-0.50	-0.15	0.47	N/A	-5.17	-0.45	4.61	0.46	
ICE BofAML 3 Mo US T-Bill Index+5%		2.31	2.31	7.18	7.63	5.93	6.48	6.27	5.91	6.53	5.05	5.70	6.04	
Difference		-0.49	-0.49	-5.87	-7.45	1.25	-3.12	-1.73	N/A	-13.05	1.27	8.70	-2.69	
Private Equity														
Abbott Capital Private Equity Fund LP (CF) (Net)	\$3.53	0.00	0.00	-11.77	-11.77	12.85	8.82	9.91	10.43	-15.37	20.61	22.76	5.84	10/01/2005
J.P. Morgan Private Equity III (CF) (Net)	\$1.41	-0.52	-0.52	-26.84	-27.10	7.07	7.16	8.17	10.33	-27.06	56.05	11.80	6.11	04/01/2006

Performance shown is gross of fees, unless otherwise noted. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading. White Oak Income performance is currently unavailable.



Asset Allocation & Performance - Net of Fees

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Global Equity														
LSV Global Large Cap Value (SA)	\$80.25	3.63	3.63	1.38	-4.04	18.59	5.53	8.04	N/A	-8.70	22.15	2.22	6.18	05/01/2014
MSCI Wrld Index (USD) (Net)		7.73	7.73	1.40	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	7.73	
Difference		-4.10	-4.10	-0.02	2.98	2.19	-2.48	-1.70	N/A	9.44	0.33	-13.68	-1.55	
MSCI Wrld Val Index (USD) (Net)		0.92	0.92	-0.07	-5.05	15.90	4.99	7.17	6.54	-6.52	21.94	-1.16	5.00	
Difference		2.71	2.71	1.45	1.01	2.69	0.54	0.87	N/A	-2.18	0.21	3.38	1.18	
Artisan Global Opportunities (SA)	\$74.79	9.15	9.15	0.23	-11.98	12.21	8.28	11.42	N/A	-29.94	14.46	40.64	10.30	05/01/2014
MSCI Wrld Index (USD) (Net)		7.73	7.73	1.40	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	7.73	
Difference		1.42	1.42	-1.17	-4.96	-4.19	0.27	1.68	N/A	-11.80	-7.36	24.74	2.57	
MSCI Wrld Grth Index (USD) (Net)		15.10	15.10	2.38	-9.82	15.93	10.37	11.80	10.81	-29.21	21.18	33.83	10.07	
Difference		-5.95	-5.95	-2.15	-2.16	-3.72	-2.09	-0.38	N/A	-0.73	-6.72	6.81	0.23	
NT Collective Daily ACW IM NL (CF)	\$95.54	6.87	6.87	1.09	-6.80	15.94	6.89	9.34	N/A	-17.63	18.01	16.62	7.34	03/01/2014
MSCI ACW IM Index (USD) (Net)		6.95	6.95	0.28	-7.68	15.64	6.58	8.97	7.95	-18.40	18.22	16.25	6.95	
Difference		-0.08	-0.08	0.81	0.88	0.30	0.31	0.37	N/A	0.77	-0.21	0.37	0.39	
WTC-CTF Global Perspectives (CF)	\$58.26	6.98	6.98	4.32	-4.40	N/A	N/A	N/A	N/A	-14.63	21.82	N/A	14.88	11/01/2020
MSCI ACW Sm Cap Index (USD) (Net)		4.24	4.24	-2.27	-9.57	17.93	4.19	7.66	7.15	-18.67	16.10	16.33	8.51	
Difference		2.74	2.74	6.59	5.17	N/A	N/A	N/A	N/A	4.04	5.72	N/A	6.37	
GQG Partners Emg Mkts Eq (CF)	\$31.47	3.44	3.44	-5.91	-11.56	N/A	N/A	N/A	N/A	-21.28	-1.61	N/A	-4.26	11/01/2020
MSCI Emg Mkts Index (USD) (Net)		3.96	3.96	-5.44	-10.70	7.83	-0.91	4.91	2.00	-20.09	-2.54	18.31	-2.12	
Difference		-0.52	-0.52	-0.47	-0.86	N/A	N/A	N/A	N/A	-1.19	0.93	N/A	-2.14	
Fixed Income														
FCI Advisors (SA)	\$183.24	3.15	3.15	-0.57	-4.92	-2.32	1.47	1.23	N/A	-13.54	-2.06	10.33	1.99	07/01/2013
Bloomberg US Gov't Crdt Bond Index		3.17	3.17	-0.88	-4.81	-2.63	1.16	1.10	1.50	-13.58	-1.75	8.93	1.80	
Difference		-0.02	-0.02	0.31	-0.11	0.31	0.31	0.13	N/A	0.04	-0.31	1.40	0.19	
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	1.64	
Difference		0.19	0.19	0.46	-0.14	0.45	0.57	0.35	N/A	-0.53	-0.51	2.82	0.35	
PIMCO:Income;Inst (PIMIX)	\$87.52	2.56	2.56	1.39	-1.30	3.59	2.26	N/A	N/A	-7.81	2.61	5.79	2.27	09/01/2017
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	0.53	
Difference		-0.40	-0.40	2.42	3.48	6.36	1.36	N/A	N/A	5.20	4.16	-1.72	1.74	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading. White Oak Fixed Income performance is currently unavailable.



Asset Allocation & Performance - Net of Fees

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Direct Lending														
White Oak Fixed Income C LP	\$63.06	0.00	0.00	-3.48	-3.48	3.12	3.98	N/A	N/A	-2.75	4.60	2.66	3.98	04/01/2018
ICE BofAML 3 Mo US T-Bill Index+5%		0.00	0.00	4.75	5.19	5.13	5.99	5.93	5.67	6.53	5.05	5.70	5.99	
Difference		0.00	0.00	-8.23	-8.67	-2.01	-2.01	N/A	N/A	-9.28	-0.45	-3.04	-2.01	
Real Estate														
Morgan Stanley Prime Property (CF)	\$77.50	-1.24	-1.24	-2.05	-2.05	8.62	7.70	8.08	N/A	6.14	21.48	1.26	9.10	10/01/2014
NCREIF ODCE Index (AWA) (Net)		-3.33	-3.33	-3.86	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	7.79	
Difference		2.09	2.09	1.81	1.81	1.15	1.13	1.32	N/A	-0.41	0.46	0.92	1.31	
PGIM Real Estate PRISA II (CF)	\$77.35	-2.36	-2.36	-3.75	-3.75	7.57	7.07	7.48	N/A	5.86	21.86	-0.16	9.50	07/01/2013
NCREIF ODCE Index (AWA) (Net)		-3.33	-3.33	-3.86	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	8.31	
Difference		0.97	0.97	0.11	0.11	0.10	0.50	0.72	N/A	-0.69	0.84	-0.50	1.19	
Absolute Return														
Grosvenor FOB (CF)	\$109.01	1.82	1.82	1.31	0.18	7.18	3.36	4.54	N/A	-6.52	6.32	14.40	3.35	08/01/2014
HFN FOF Multi-Strat Index (Net)		0.10	0.10	0.18	-0.54	7.68	3.51	4.07	3.23	-1.35	6.77	9.79	2.89	
Difference		1.72	1.72	1.13	0.72	-0.50	-0.15	0.47	N/A	-5.17	-0.45	4.61	0.46	
ICE BofAML 3 Mo US T-Bill Index+5%		2.31	2.31	7.18	7.63	5.93	6.48	6.27	5.91	6.53	5.05	5.70	6.04	
Difference		-0.49	-0.49	-5.87	-7.45	1.25	-3.12	-1.73	N/A	-13.05	1.27	8.70	-2.69	
Private Equity														
Abbott Capital Private Equity LP (CF)	\$3.53	0.00	0.00	-11.77	-11.77	12.85	8.82	9.91	N/A	-15.37	20.61	22.76	10.34	07/01/2013
J.P. Morgan Private Equity III (CF)	\$1.41	-0.52	-0.52	-26.84	-27.10	7.07	7.16	8.17	N/A	-27.06	56.05	11.80	10.35	07/01/2013

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading. White Oak Fixed Income performance is currently unavailable.



Kansas City Police Employees' Retirement Systems KCPERS Police Private Investment Lagged Performance Asset Allocation & Performance

	Market Value (M)	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	Since Incep.	Inception Date
Police - Private Equity	\$5.22	-0.55	-16.10	-18.75	-18.75	7.90	8.75	9.44	N/A	28.38	20.44	10.04	10.69	07/01/2013
Abbott Capital Private Equity LP (CF) (Net)	\$3.73	0.00	-11.77	-15.37	-15.37	7.81	9.23	9.89	N/A	20.61	22.76	10.87	10.62	07/01/2013
Cambridge US Prvt Eq Index		1.03	-2.99	-2.34	-2.34	18.89	16.14	16.04	15.05	40.61	22.37	13.84	14.98	
Difference		-1.03	-8.78	-13.03	-13.03	-11.08	-6.91	-6.15	N/A	-20.00	0.39	-2.97	-4.36	
J.P. Morgan Private Equity III (CF) (Net)	\$1.48	-2.20	-26.46	-27.06	-27.06	8.37	7.43	8.25	N/A	56.05	11.80	7.53	10.69	07/01/2013
Cambridge US Prvt Eq Index		1.03	-2.99	-2.34	-2.34	18.89	16.14	16.04	15.05	40.61	22.37	13.84	14.98	
Difference		-3.23	-23.47	-24.72	-24.72	-10.52	-8.71	-7.79	N/A	15.44	-10.57	-6.31	-4.29	
Police - Direct Lending	\$63.06	-2.72	-3.48	-2.75	-2.75	1.45	N/A	N/A	N/A	4.60	2.66	7.41	4.20	04/01/2018
White Oak Fixed Income C LP	\$63.06	-2.72	-3.48	-2.75	-2.75	1.45	N/A	N/A	N/A	4.60	2.66	7.41	4.20	04/01/2018
ICE BofAML 3 Mo US T-Bill Index+5%		2.08	4.75	6.53	6.53	5.76	6.33	6.12	5.80	5.05	5.70	7.39	6.32	
Difference		-4.80	-8.23	-9.28	-9.28	-4.31	N/A	N/A	N/A	-0.45	-3.04	0.02	-2.12	

Performance shown is net of fees, unless otherwise noted. Performance and market values are preliminary and subject to change. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading.



Kansas City Police Employees' Retirement Systems Alternative Investment Fund Performance Listing

Fund Name	Vintage	Asset Class	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
J.P. Morgan European Corporate Financi Investors III	ce 2006	Private Equity - Non-US Private Equity	1,500,000	1,447,122	2,203,211	53,100	7.65	3rd	10.13	1.56
J.P. Morgan U.S. Corporate Finance Investors III	2006	Private Equity - Buyout	6,000,000	6,047,148	11,804,090	493,581	13.32	1st	8.83	2.03
J.P. Morgan Venture Capital Investors II	1 2006	Private Equity - Venture	2,500,000	2,548,591	3,826,271	936,250	9.32	2nd	11.41	1.87
Abbott Capital Private Equity VI LP	2008	Private Equity - Fund of Funds	10,000,000	9,950,088	15,419,109	3,732,798 *	12.96	2nd	13.22	1.92
			20,000,000	19,992,950	33,252,681	5,215,729	12.08		11.34	1.92

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 (Cap Wtd) 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.



Kansas City Police Employees' Retirement Systems Alternative Investment Fund Performance Rolling Annualized Internal Rate of Return Since Inception

Alternative Investment	12/31/2022	12/31/2021	12/31/2020	12/31/2019	12/31/2018	12/31/2017	12/31/2016	12/31/2015	12/31/2014
Abbott Capital Private Equity VI LP	12.96	13.80	12.97	12.40	12.29	11.80	10.35	9.60	8.01
Index	13.22	14.44	13.80	13.59	12.10	14.18	12.79	13.03	17.41
Difference	-0.26	-0.64	-0.83	-1.19	0.19	-2.38	-2.44	-3.43	-9.40
J.P. Morgan European Corporate Finance Investors III	7.65	7.84	7.42	7.52	7.56	7.51	7.17	7.07	7.27
Index	10.13	11.12	10.55	10.34	9.56	10.20	9.48	9.29	10.30
Difference	-2.48	-3.28	-3.13	-2.82	-2.00	-2.69	-2.31	-2.22	-3.03
J.P. Morgan U.S. Corporate Finance Investors III	13.32	13.48	13.24	13.25	13.15	13.50	13.22	13.43	12.97
Index	8.83	8.83	8.83	8.83	8.83	8.83	8.82	8.82	9.17
Difference	4.49	4.65	4.41	4.42	4.32	4.67	4.40	4.61	3.80
J.P. Morgan Venture Capital Investors III	9.32	10.42	9.38	9.32	9.92	9.78	10.17	11.41	12.50
Index	11.41	12.61	11.97	11.73	10.68	11.74	10.89	10.78	12.23
Difference	-2.09	-2.19	-2.59	-2.41	-0.76	-1.96	-0.72	0.63	0.27
Total PE Composite Performance	12.08	10.06	9.67	9.46	9.44	9.29	9.12	9.28	9.25
Total Index Performance	11.34	11.20	10.77	10.56	9.81	10.51	9.77	9.61	10.63
Difference	0.74	-1.14	-1.10	-1.10	-0.37	-1.22	-0.65	-0.33	-1.38

*Index IRR represents the dollar-weighted returns calculated using the S&P 500 Index (Cap Wtd) 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. Fund IRR is the annualized since-inception net internal rate for the indicated fund or composite. Applicable IRRs are marked with 'N/M' for not material.



LSV Global Large Cap Value (SA)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	77,314,181	122,672	2,810,549	80,247,401	3.63				

Artisan Global Opportunities (SA)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	68,401,354	128,443	6,258,354	74,788,151	9.15				

NT Collective Daily ACW IM NL (CF)								
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return			
Quarter	92,193,215	-2,979,184	6,330,798	95,544,829	6.87			

	WTC-CTF Global Perspectives (CF)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return					
Quarter	58,153,448	-4,000,000	4,109,242	58,262,690	6.98					

GQG Partners Emg Mkts Eq (CF)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	30,420,118	-	1,046,118	31,466,236	3.44				

FCI Advisors (SA)					
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return
Quarter	177,586,052	64,323	5,589,737	183,240,111	3.15

Performance shown is net of fees and will not match subsequent comparative performance gross of fees.



PIMCO:Income;Inst (PIMIX)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	85,331,417	-	2,186,011	87,517,428	2.56				

Morgan Stanley Prime Property (CF)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	80,997,324	-2,488,070	-1,004,813	77,504,442	-1.24				

PGIM Real Estate PRISA II (CF)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	82,183,060	-2,890,131	-1,939,402	77,353,527	-2.36				

Grosvenor FOB (CF)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	107,066,416	-	1,945,308	109,011,724	1.82				

Kansas City Police Employees' Retirement Systems KCPERS Police Fee Schedule

Manager	Fee Schedule	Aggregate Assets (\$)	Estimated Annual Fee (%)	Market Value as of 03/31/2023	Estimated Annual Fee (\$)
LSV Global Large Cap Value (SA)	0.75 % of First \$25 M 0.65 % of Next \$25 M 0.55 % of Next \$50 M 0.45 % Thereafter	94,786,521	0.63	80,247,401	504,857
Artisan Global Opportunities (SA)	0.80 % of First \$50 M 0.60 % of Next \$50 M 0.50 % Thereafter	74,788,151	0.73	74,788,151	548,729
NT Collective Daily ACW IM NL (CF)	0.10 % of First \$50 M 0.08 % Thereafter	111,661,389	0.09	95,544,829	84,993
WTC-CTF Global Perspectives (CF)	1.00 % of Assets	68,509,348	1.00	58,262,690	582,627
GQG Partners Emg Mkts Eq (CF)	0.85 % of First \$25 M 0.80 % Thereafter	36,869,604	0.83	31,466,236	262,398
FCI Advisors (SA)	0.50 % of First \$5 M 0.40 % of Next \$5 M 0.30 % of Next \$10 M 0.20 % of Next \$10 M 0.12 % Thereafter	215,342,244	0.15	183,240,111	270,093
PIMCO:Income;Inst (PIMIX)	0.50 % of Assets	106,129,930	0.50	87,517,428	437,587
White Oak Fixed Income C LP	1.00% of Assets	73,682,019	1.00	63,058,814	630,588
Morgan Stanley Prime Property (CF)	0.84 % of Assets	90,591,961	0.84	77,504,442	651,037



Kansas City Police Employees' Retirement Systems KCPERS Police Fee Schedule

Manager	Fee Schedule	Aggregate Assets (\$)	Estimated Annual Fee (%)	Market Value as of 03/31/2023	Estimated Annual Fee (\$)
PGIM Real Estate PRISA II (CF)	1.20 % of First \$25 M 1.15 % of Next \$25 M 1.05 % of Next \$50 M 0.95 % of Next \$100 M 0.90 % of Next \$100 M 0.85 % Thereafter	90,351,048	1.12	77,353,527	865,721
Grosvenor FOB (CF)	1.15 % of First \$25 M 1.00 % of Next \$25 M 0.80 % of Next \$50 M 0.60 % Thereafter	125,762,306	0.87	109,011,724	946,618
Coltv. Short Term Invt. Fund	0.15 % of Assets	1,616,973	0.15	687,714	1,032

Fee Notes:

White Oak Fixed Income C LP - Fee structure is 1.25% when aggregate assets are below \$10M, and 1.00% when aggregate assets are above \$10M.

The incentive fee for Morgan Stanley Prime Property (CF) for each calendar year is capped at 35 basis points per annum.

The fee schedule shown for PGIM Real Estate PRISA II (CF) represents the maximum annual fee and may be lower depending on the fund's operating cash flow.

Grosvenor FOB (CF) fee has a 75 basis point minimum. The fee schedule shown for Grosvenor FOB (CF) excludes the underlying manager's fees.

Abbott Capital Private Equity LP (CF) consists of two separate funds: Abbott Capital Private Equity V LP and Abbott Capital Private Equity VI LP. The annual management fee for both funds is 1.00% with 0% carried interest for initial 8 years thereafter the fee is reduced by 10% per year.

JP Morgan Private Equity III (CF) consists of three separate funds: European Corporate Finance Investors III, U.S. Corporate Finance Investors III, and Venture Capital Investors III. The annual management fee pertains to the percentage of committed capital, is level for the first eight years, and is then reduced each successive year by 10% of the preceding year's fee. Each fund is also subject to an incentive/carried interest fee, which is 10% for secondary partnership investments and 20% for direct co-investments.

European and U.S. Corporate Finance Investors III

Venture Capital Investors III

Management fee for initial 8 years: 0.90%

Management fee for initial 8 years: 1.10%

Average fee over 15 years: 0.76%

Average fee over 15 years: 0.93%

Mutual fund fees are sourced from Morningstar and/or the investment manager.



Civilian Plan



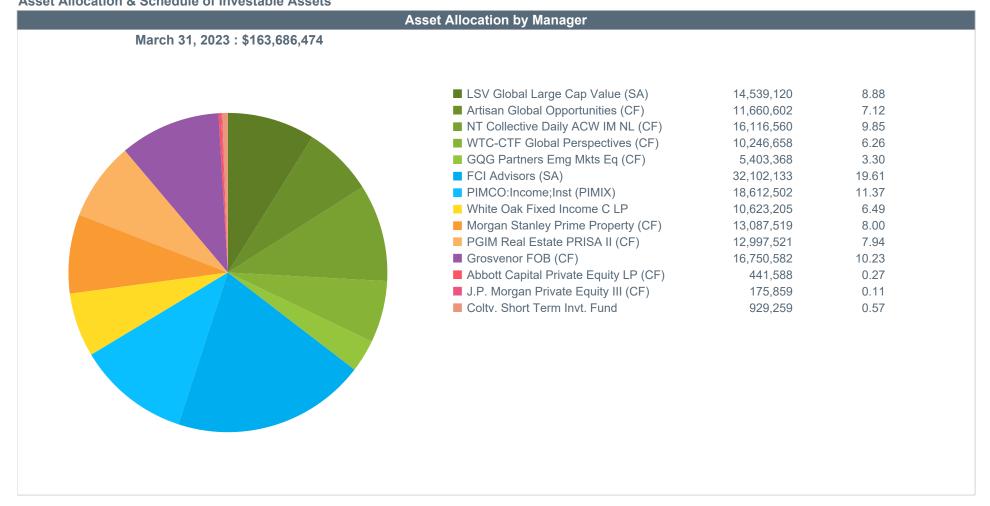
Kansas City Civilian Employees' Retirement Systems (KCPERS) Investment Objective Review As of March 31, 2023

Asset Allocation											
	Yes	No	Current	Min.	Target	Max.					
Global Equity	✓		35.4%	33%	38%	43%					
Fixed Income	✓		31.0%	26%	31%	36%					
Direct Lending	✓		6.5%	4%	7%	10%					
Real Estate	✓		15.9%	9%	13%	17%					
Absolute Return	✓		10.2%	7%	11%	15%					
Private Equity		✓	0.4%	0%	0%	0%					
Cash Equivalent	✓		0.6%	0%	0%	5%					
Total Fund	✓		100%	95%	100%	100%					

Investment Policy Guidelines	Performance (Net)/	Yes	No	Comments
Performance (over full market cycle of 5 years)	Rank			
Total Fund				
Total fund composite rate of return exceeds the current Target Allocation Index (gross of fees) over 5 years.	5.33%	√		
The total fund return is equal to or exceeds 7.1% annualized return (gross of fees) over 5 years.	5.33%		1	
Global Equity				
The global equity composite rate of return exceeds the benchmark (net of fees).	6.37%		1	
The global equity composite performed at the fortieth (40th) percentile or better.	64		1	
LSV Global Large Cap Value (SA)				
The manager return exceeds the benchmark (net of fees).	5.96%		1	
The manager performed at the fortieth (40th) percentile or better.	49		✓	
Artisan Global Opportunities (SA)				
The manager return exceeds the benchmark (net of fees).	7.99%		✓	
The manager performed at the fortieth (40th) percentile or better.	48		✓	
NT Collective Daily ACW IM NL (CF)				
The manager return exceeds the benchmark (net of fees).	6.87%	1		
The manager performed at the fortieth (40th) percentile or better.	3	1		
WTC-CTF Global Perspectives (CF)				
The manager return exceeds the benchmark (net of fees).	5.80%	1		
The manager performed at the fortieth (40th) percentile or better.	19	1		
GQG Partners Emg Mkts Eq (CF)				
The manager return exceeds the benchmark (net of fees).	N/A			Insufficient history.
The manager performed at the fortieth (40th) percentile or better.	N/A			Insufficient history.
Fixed Income	N/A			incument motory:
The fixed income composite rate of return exceeds the benchmark (net of fees).	1.85%	✓		
The fixed income composite performed at the fortieth (40th) percentile or better.	5	1		
FCI Advisors (SA)				
The manager return exceeds the benchmark (net of fees).	1.43%	✓		
The manager performed at the fortieth (40th) percentile or better.	13	1		
PIMCO:Income;Inst (PIMIX)	10			
The manager return exceeds the benchmark (net of fees).	2.26%	1		
The manager performed at the fortieth (40th) percentile or better.	18	1		
Direct Lending	10			
	0.00			lu au ffi alaut la lataur
The direct lending composite rate of return exceeds the benchmark (net of fees).	3.98			Insufficient history.
White Oak Fixed Income C LP				
The manager return exceeds the benchmark (net of fees). Real Estate	3.98			Insufficient history.
The real estate composite rate of return exceeds the benchmark (net of fees).	7.40%	1		
Morgan Stanley Prime Property (CF)				
The manager return exceeds the benchmark (net of fees).	7.70%	✓		
PGIM Real Estate PRISA II (CF)				
The manager return exceeds the benchmark (net of fees). Absolute Return	7.07%	✓		
The absolute return composite rate of return exceeds the benchmark (net of fees).	2.98%		1	
Grosvenor FOB (CF)				
The manager return exceeds the benchmark (net of fees).	3.36%		4	
Private Equity	3.30%			
r iivate Equity				
The private equity composite rate of return exceeds the benchmark (net of fees).	8.46%		✓	
The private equity composite rate of return exceeds the benchmark (net of fees).	8.46%		✓	

The Investment Policy Review for the Police Retirement System of Kansas City, Missouri examines client specific net returns, except for the Total Fund which examines client specific gross return. Managers that do not have 5 years of client specific net performance populate are backfilled with composite/manager gross performance until sufficient historical client-specific net performance is available. White Oak Fixed Income C LP and GQG Partners Emg Mkts Eq (CF) do not have 5 years of composite level returns. The two private equity managers are in their final stages of distributing capital; performance for these managers is not relevant.





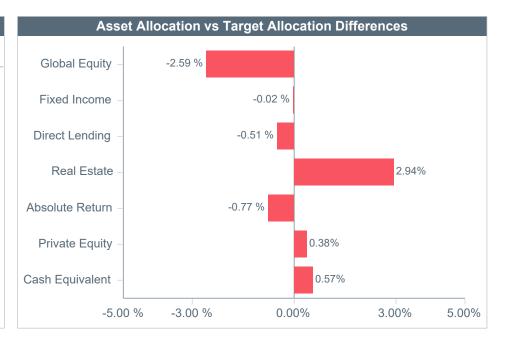
Schedule of Investable Assets										
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return					
QTD	160,295,165	-1,278,785	4,670,093	163,686,474	2.92					
CYTD	160,295,165	-1,278,785	4,670,093	163,686,474	2.92					
FYTD	168,095,609	-3,865,639	-543,496	163,686,474	-0.30					

Allocations shown may not sum up to 100% exactly due to rounding. Performance shown is net of fees.



Total Fund vs. All Public Plans (<\$250 Million)

	Asset Alloca	ition vs. Tar	get Alloc	ation	
	Market Value (\$)	Allocation (%)	Target (%)	Minimum (%)	Maximum (%)
Total Fund	163,686,474	100.00	100.00	-	-
Global Equity	57,966,307	35.41	38.00	33.00	43.00
Fixed Income	50,714,635	30.98	31.00	26.00	36.00
Direct Lending	10,623,205	6.49	7.00	4.00	10.00
Real Estate	26,085,039	15.94	13.00	9.00	17.00
Absolute Return	16,750,582	10.23	11.00	7.00	15.00
Private Equity	617,447	0.38	0.00	0.00	0.00
Cash Equivalent	929,259	0.57	0.00	0.00	5.00





Parentheses contain percentile ranks. Allocations may not sume up to 100% exactly due to rounding. The Board has elected not to make additional Private Equity commitments and as a result, the Private Equity allocation is winding down. The Board-approved rebalancing plan is in the process of being implemented.



Asset Allocation & Performance

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020
Total Fund (Gross)	\$163.69	3.04	3.04	0.15	-3.96	8.61	5.33	6.71	6.27	-9.98	10.75	12.37
All Public Plans (<\$250 Million)		4.37	4.37	0.61	-5.18	10.73	5.97	7.24	6.84	-13.72	13.11	12.76
Rank		89	89	67	21	86	74	76	77	13	82	56
Total Fund	\$163.69	2.92	2.92	-0.30	-4.42	8.07	4.78	6.17	N/A	-10.42	10.13	11.83
Target Allocation Index		3.40	3.40	0.82	-3.33	7.09	5.18	6.00	5.81	-9.11	9.89	10.25
Difference		-0.48	-0.48	-1.12	-1.09	0.98	-0.40	0.17	N/A	-1.31	0.24	1.58
7.1% Annualized Return		1.73	1.73	6.49	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10
Difference		1.19	1.19	-6.79	-11.52	0.97	-2.32	-0.93	N/A	-17.52	3.03	4.73
Global Equity	\$57.97	6.31	6.31	0.99	-7.14	15.71	6.37	9.31	N/A	-18.31	16.82	18.10
MSCI ACW IM Index (USD) (Net)		6.95	6.95	0.28	-7.68	15.64	6.58	8.97	7.95	-18.40	18.22	16.25
Difference		-0.64	-0.64	0.71	0.54	0.07	-0.21	0.34	N/A	0.09	-1.40	1.85
IM Global Large Cap Equity (MF) Median		8.45	8.45	1.82	-6.72	13.70	7.29	9.65	8.62	-22.14	16.85	20.30
Rank		78	78	71	54	21	64	57	N/A	33	52	61
Fixed Income	\$50.71	2.87	2.87	0.08	-3.63	-0.30	1.85	2.10	N/A	-11.41	-0.37	8.97
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51
Difference		-0.09	-0.09	1.11	1.15	2.47	0.95	1.22	N/A	1.60	1.18	1.46
IM Global Fixed Income (MF) Median		2.76	2.76	-2.18	-6.10	-1.50	-0.41	0.40	0.35	-14.66	-2.73	8.15
Rank		42	42	22	31	32	5	13	N/A	31	10	40

Performance shown is net of fees, unless otherwise noted. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading. Direct Lending performance is currently unavailable.



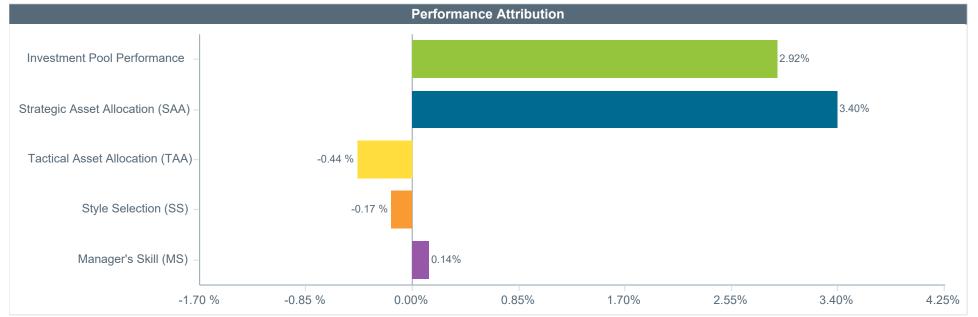
Asset Allocation & Performance

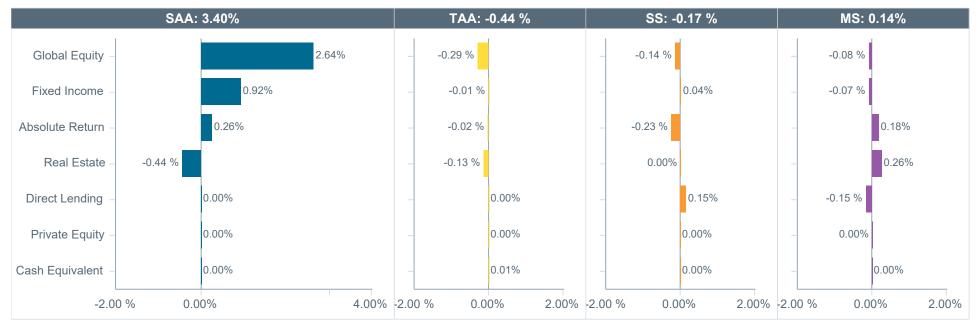
	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020
Direct Lending	\$10.62	0.00	0.00	-3.48	-3.48	3.12	3.98	N/A	N/A	-2.75	4.60	2.66
ICE BofAML 3 Mo US T-Bill Index+5%		0.00	0.00	4.75	5.19	5.13	5.99	5.93	5.67	6.53	5.05	5.70
Difference		0.00	0.00	-8.23	-8.67	-2.01	-2.01	N/A	N/A	-9.28	-0.45	-3.04
Real Estate	\$26.09	-1.80	-1.80	-2.90	-2.90	8.13	7.40	7.79	N/A	6.00	21.77	0.56
NCREIF ODCE Index (AWA) (Net)		-3.33	-3.33	-3.86	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34
Difference		1.53	1.53	0.96	0.96	0.66	0.83	1.03	N/A	-0.55	0.75	0.22
Absolute Return	\$16.75	1.82	1.82	1.31	0.18	7.38	2.98	4.34	N/A	-6.52	6.32	11.40
Long Term Absolute Return Custom Benchmark		2.31	2.31	7.18	7.63	5.92	6.41	6.37	N/A	6.53	5.05	5.62
Difference		-0.49	-0.49	-5.87	-7.45	1.46	-3.43	-2.03	N/A	-13.05	1.27	5.78
Absolute Return Custom Benchmark		0.10	0.10	0.18	-0.54	8.20	3.91	4.70	N/A	-1.35	6.77	9.28
Difference		1.72	1.72	1.13	0.72	-0.82	-0.93	-0.36	N/A	-5.17	-0.45	2.12
Private Equity	\$0.62	-0.15	-0.15	-16.25	-16.35	11.41	8.46	9.52	N/A	-18.78	28.80	20.47

See addendum for custom index comments. 7.1% annualized return represents the System's long-term return goal based on the System's current actuarial assumed rate of return.



Total Fund Attribution - IDP

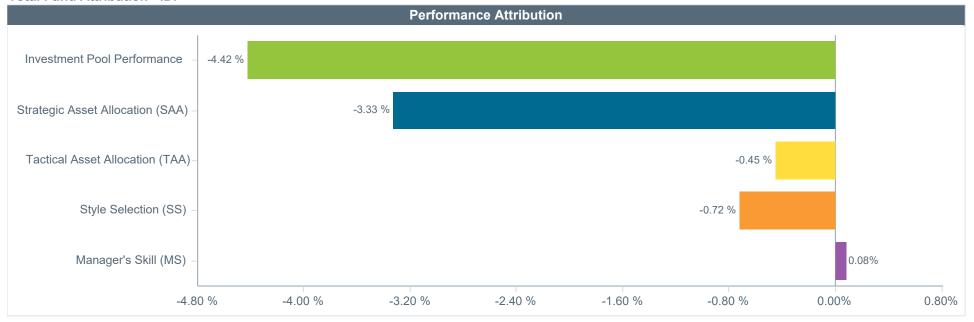


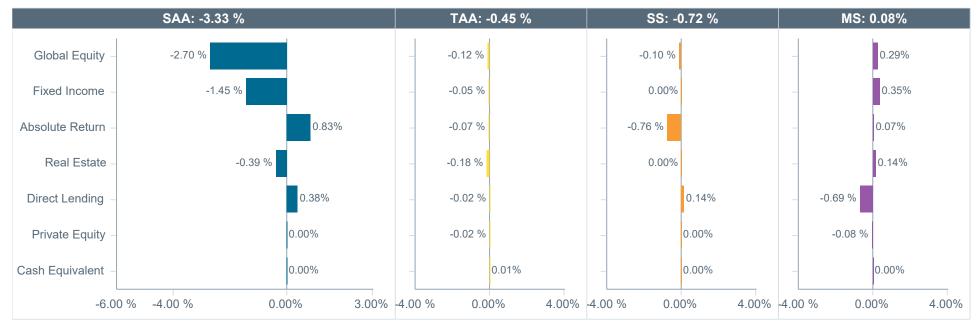


Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



Total Fund Attribution - IDP

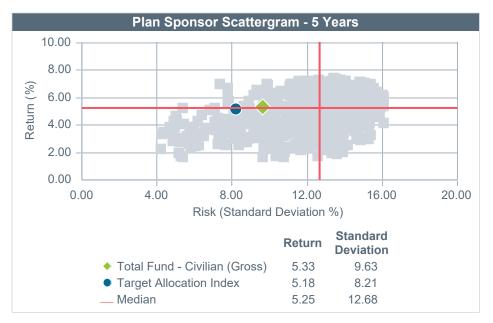


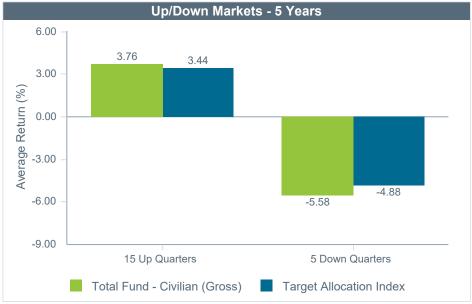


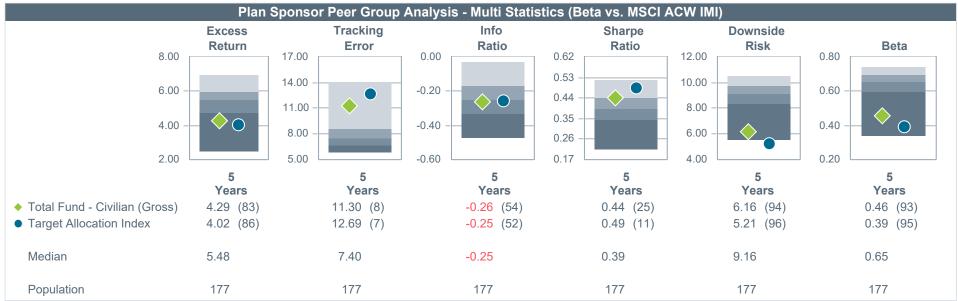
Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.



Total Fund - Civilian (Gross) vs. All Public Plans (<\$250 Million)



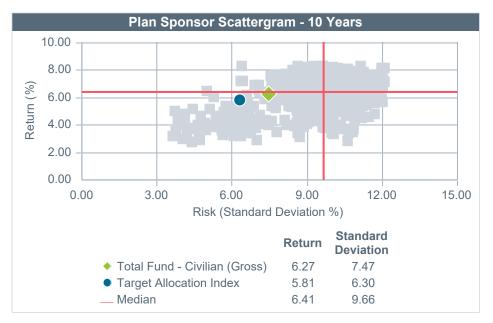


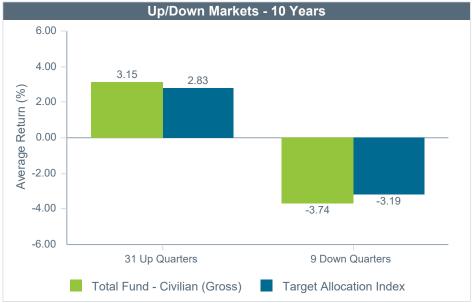


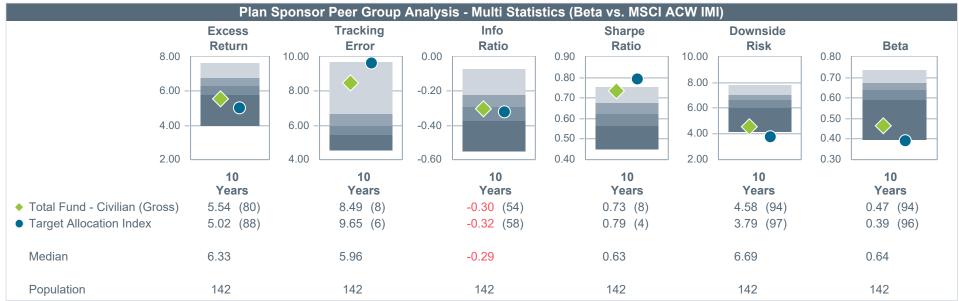
Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.



Total Fund - Civilian (Gross) vs. All Public Plans (<\$250 Million)



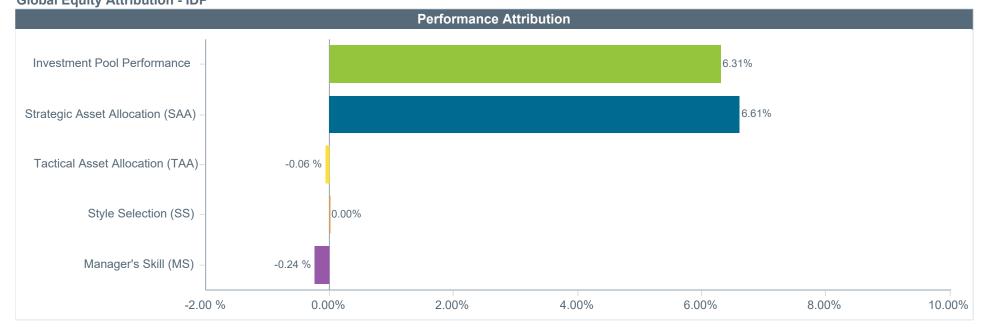


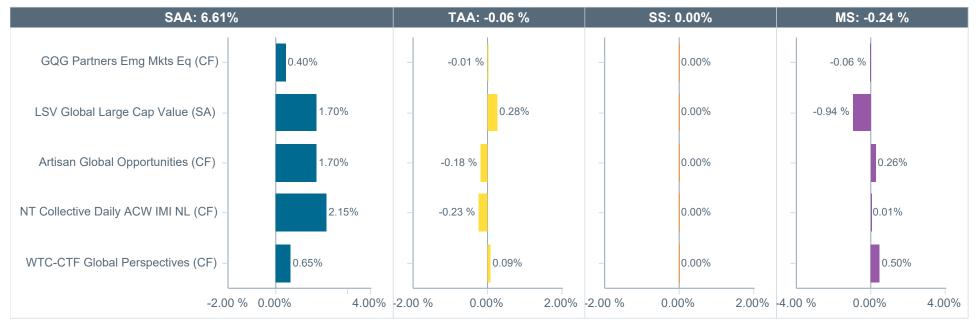


Performance shown is gross of fees. Calculation is based on quarterly periodicity. Parentheses contain percentile ranks.



Kansas City Police Employees' Retirement Systems KCPERS Civilian Employees Global Equity Attribution - IDP

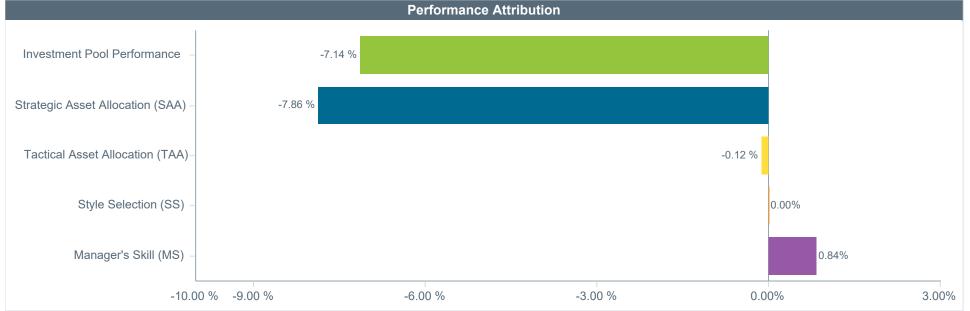


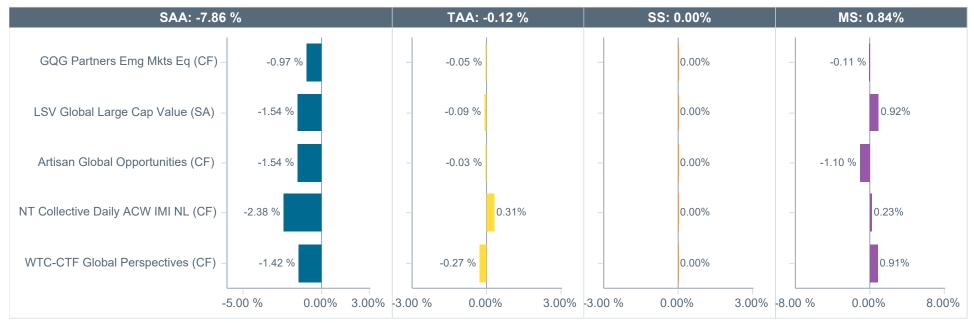


Performance shown is net of fees. Calculation is based on monthly periodicity. See Glossary for additional information regarding the Total Fund Attribution - IDP calculation.









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



Global Equity vs. IM Global Large Cap Equity (SA + CF)







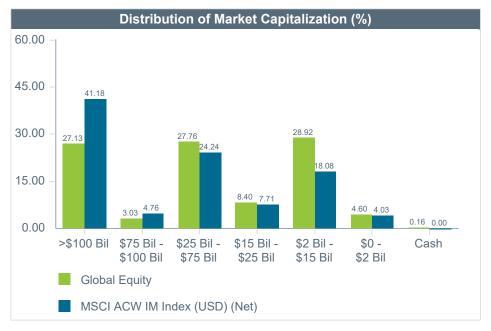
Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Kansas City Police Employees' Retirement Systems Global Equity vs. MSCI ACW IM Index (USD) (Net) Portfolio Characteristics

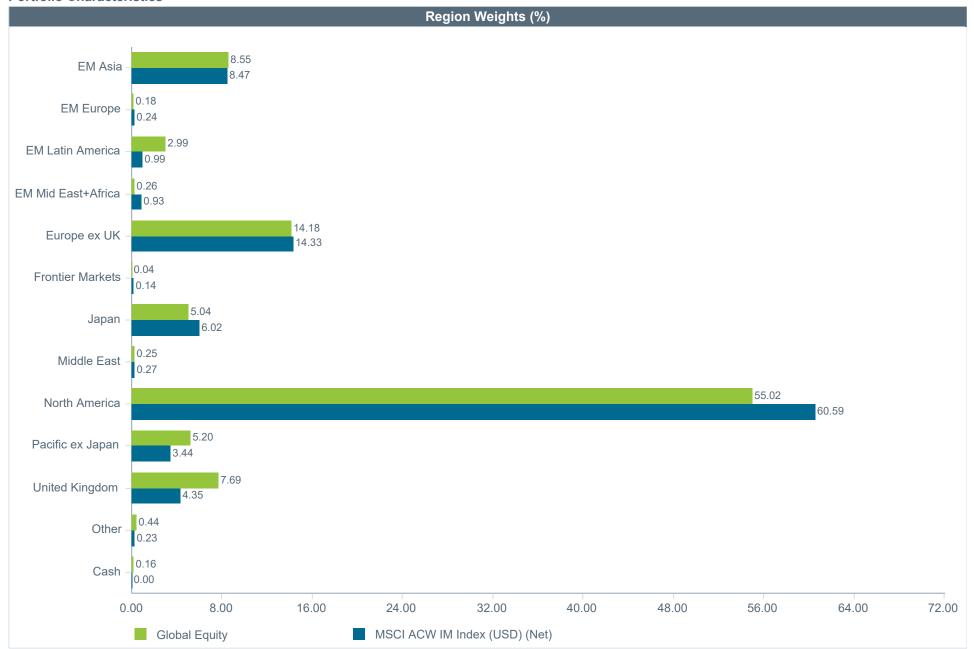
	Гор Ten Equi	ty Holdings		
	Portfolio Weight (%)	Benchmark Weight (%)	Active Weight (%)	Quarterly Return (%)
Advanced Micro Devices Inc	2.86	0.23	2.63	51.32
Boston Scientific Corp	2.32	0.11	2.21	8.13
Astrazeneca PLC	1.79	0.32	1.47	4.24
Atlassian Corp	1.54	0.04	1.50	33.02
Alphabet Inc	1.41	0.92	0.49	17.57
Danaher Corp	1.33	0.26	1.07	-4.94
Chipotle Mexican Grill Inc	1.26	0.07	1.19	23.12
CNH Industrial N.V.	1.16	0.02	1.14	-4.36
AIA Group Ltd	1.09	0.18	0.91	-5.42
Apple Inc	1.08	3.87	-2.79	27.11
% of Portfolio	15.84	6.02	9.82	

	Benchmark
Portfolio 147.625	306,621
•	1,809
13.82	16.23
2.84	3.27
16.82	15.60
2.80	2.30
1.00	1.00
9,320	9,144
	2.84 16.82 2.80 1.00



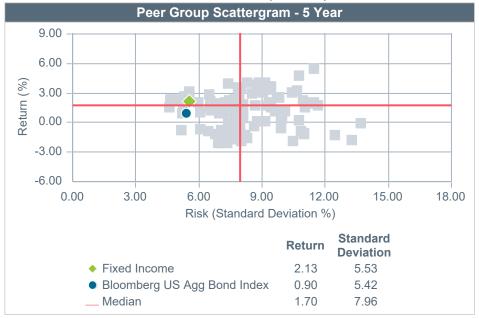


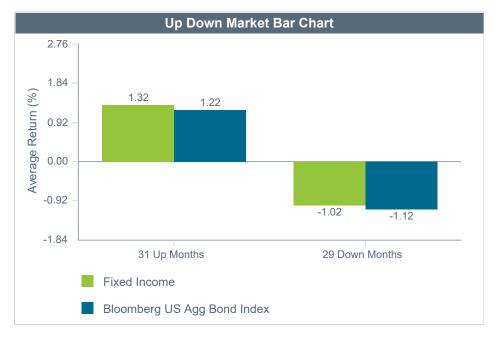


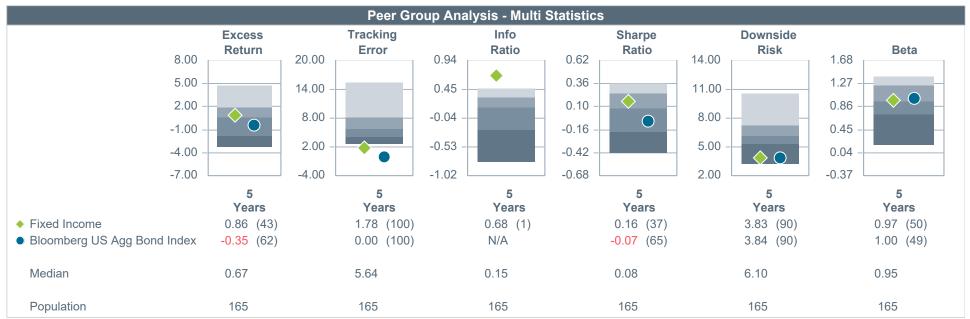




Fixed Income vs. IM Global Fixed Income (SA + CF)





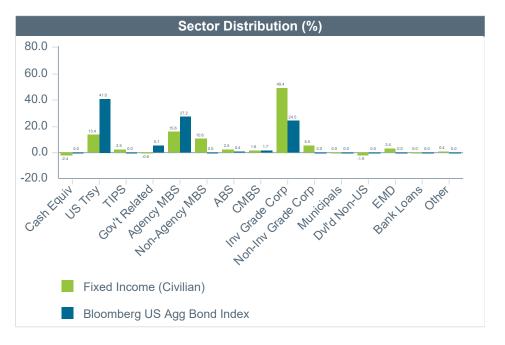


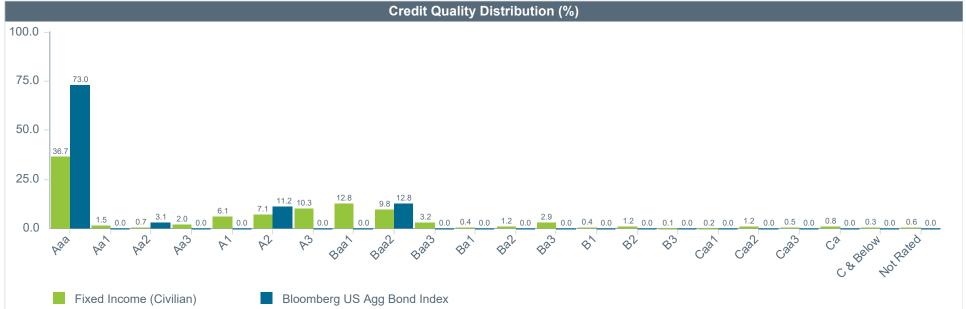
Performance shown is gross of fees. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Kansas City Police Employees' Retirement Systems Fixed Income (Civilian) vs. Bloomberg US Agg Bond Index Portfolio Characteristics

Portfolio Characteristics							
	Portfolio	Benchmark					
Effective Duration	5.13	6.33					
Avg. Maturity	6.79	8.50					
Avg. Quality	A2	Aa1/Aa2					
Coupon Rate (%)	3.24	2.79					
Yield To Maturity (%)	5.12	4.40					
Holdings Count	7,716	13,278					



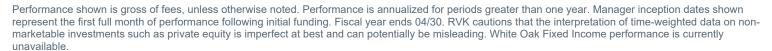


Allocation to "Other" consists of Convertible Bonds, Preferred Stock, and Euro/Yankee Bonds. PIMCO:Income;Inst (PIMIX) effective duration is used as modified duration.



Kansas City Police Employees' Retirement Systems KCPERS Civilian Employees Asset Allocation & Performance - Gross of Fees

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Global Equity														
LSV Global Large Cap Value (SA)	\$14.54	4.23	4.23	2.74	-2.53	20.30	6.63	9.04	N/A	-8.02	24.55	3.07	7.01	05/01/2014
MSCI Wrld Index (USD) (Net)		7.73	7.73	1.40	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	7.73	
Difference		-3.50	-3.50	1.34	4.49	3.90	-1.38	-0.70	N/A	10.12	2.73	-12.83	-0.72	
MSCI Wrld Val Index (USD) (Net)		0.92	0.92	-0.07	-5.05	15.90	4.99	7.17	6.54	-6.52	21.94	-1.16	5.00	
Difference		3.31	3.31	2.81	2.52	4.40	1.64	1.87	N/A	-1.50	2.61	4.23	2.01	
IM Global Large Cap Value Equity (SA+CF) Median		5.93	5.93	2.71	-3.34	16.67	6.36	8.66	7.98	-10.16	18.77	6.78	6.57	
Rank		72	72	50	42	25	47	44	N/A	35	7	69	37	
Artisan Global Opportunities (CF)	\$11.66	9.28	9.28	0.59	-11.45	12.79	8.91	12.13	N/A	-29.59	15.09	41.51	11.12	05/01/2014
MSCI Wrld Index (USD) (Net)		7.73	7.73	1.40	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	7.73	
Difference		1.55	1.55	-0.81	-4.43	-3.61	0.90	2.39	N/A	-11.45	-6.73	25.61	3.39	
MSCI Wrld Grth Index (USD) (Net)		15.10	15.10	2.38	-9.82	15.93	10.37	11.80	10.81	-29.21	21.18	33.83	10.07	
Difference		-5.82	-5.82	-1.79	-1.63	-3.14	-1.46	0.33	N/A	-0.38	-6.09	7.68	1.05	
IM Global Large Cap Growth Equity (SA+CF) Median		8.88	8.88	2.06	-7.90	15.02	8.76	11.41	10.18	-23.38	17.80	30.10	9.31	
Rank		46	46	62	75	78	48	30	N/A	75	62	24	18	
NT Collective Daily ACW IM NL (CF)	\$16.12	7.00	7.00	1.19	-6.79	16.01	6.96	9.42	N/A	-17.76	18.14	16.75	7.42	03/01/2014
MSCI ACW IM Index (USD) (Net)		6.95	6.95	0.28	-7.68	15.64	6.58	8.97	7.95	-18.40	18.22	16.25	6.95	
Difference		0.05	0.05	0.91	0.89	0.37	0.38	0.45	N/A	0.64	-0.08	0.50	0.47	
IM Global Large Cap Core Equity (SA+CF) Median		6.75	6.75	1.78	-5.21	15.52	7.43	9.23	8.93	-16.49	19.99	15.13	7.73	
Rank		46	46	61	72	44	59	48	N/A	60	64	43	57	
WTC-CTF Global Perspectives (CF)	\$10.25	7.24	7.24	5.17	-3.54	N/A	N/A	N/A	N/A	-13.89	22.86	N/A	15.87	11/01/2020
MSCI ACW Sm Cap Index (USD) (Net)	, , ,	4.24	4.24	-2.27	-9.57	17.93	4.19	7.66	7.15	-18.67	16.10	16.33	8.51	
Difference		3.00	3.00	7.44	6.03	N/A	N/A	N/A	N/A	4.78	6.76	N/A	7.36	
IM Global Small Cap Equity (SA+CF) Median		6.42	6.42	-0.47	-7.28	18.20	5.34	8.37	8.25	-21.37	21.14	17.53	8.25	
Rank		25	25	24	21	N/A	N/A	N/A	N/A	32	40	N/A	17	
GQG Partners Emg Mkts Eq (CF)	\$5.40	3.64	3.64	-5.21	-10.84	N/A	N/A	N/A	N/A	-20.64	-0.82	N/A	-3.48	11/01/2020
MSCI Emg Mkts Index (USD) (Net)		3.96	3.96	-5.44	-10.70	7.83	-0.91	4.91	2.00	-20.09	-2.54	18.31	-2.12	
Difference		-0.32	-0.32	0.23	-0.14	N/A	N/A	N/A	N/A	-0.55	1.72	N/A	-1.36	
IM Emerging Markets Equity (SA+CF) Median		4.94	4.94	-2.82	-8.78	10.01	0.69	6.07	3.30	-19.72	0.75	18.93	-1.08	
Rank		76	76	74	73	N/A	N/A	N/A	N/A	57	59	N/A	72	





Kansas City Police Employees' Retirement Systems KCPERS Civilian Employees Asset Allocation & Performance - Gross of Fees

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Fixed Income														
FCI Advisors (SA)	\$32.10	3.09	3.09	-0.55	-4.89	-2.26	1.58	1.34	1.81	-13.42	-1.91	10.32	4.03	03/01/2001
Bloomberg US Gov't Crdt Bond Index		3.17	3.17	-0.88	-4.81	-2.63	1.16	1.10	1.50	-13.58	-1.75	8.93	3.77	
Difference		-0.08	-0.08	0.33	-0.08	0.37	0.42	0.24	0.31	0.16	-0.16	1.39	0.26	
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	3.66	
Difference		0.13	0.13	0.48	-0.11	0.51	0.68	0.46	0.45	-0.41	-0.36	2.81	0.37	
IM U.S. Broad Market Core Fixed Income (SA+CF) Median		3.16	3.16	-0.96	-4.67	-1.82	1.34	1.39	1.78	-12.96	-1.23	8.51	4.07	
Rank		65	65	17	74	75	25	56	46	78	93	8	56	
PIMCO:Income;Inst (PIMIX)	\$18.61	2.69	2.69	1.86	-0.80	4.10	2.79	N/A	N/A	-7.34	3.11	6.31	2.79	09/01/2017
Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	0.53	
Difference		-0.27	-0.27	2.89	3.98	6.87	1.89	N/A	N/A	5.67	4.66	-1.20	2.26	
IM Multi-Sector General Bond (MF) Median		2.97	2.97	-0.63	-3.55	3.88	2.48	3.68	3.24	-10.71	2.55	7.52	2.33	
Rank		65	65	8	13	41	35	N/A	N/A	20	45	66	29	
Direct Lending														
White Oak Fixed Income C LP	\$10.62	0.00	0.00	-3.48	-3.48	4.11	5.42	N/A	N/A	-2.75	6.86	3.68	5.42	04/01/2018
ICE BofAML 3 Mo US T-Bill Index+5%		0.00	0.00	4.75	5.19	5.13	5.99	5.93	5.67	6.53	5.05	5.70	5.99	
Difference		0.00	0.00	-8.23	-8.67	-1.02	-0.57	N/A	N/A	-9.28	1.81	-2.02	-0.57	
Real Estate														
Morgan Stanley Prime Property (CF)	\$13.09	-1.03	-1.03	-0.99	-0.99	9.81	8.88	9.25	N/A	7.38	22.89	2.32	10.29	10/01/2014
NCREIF ODCE Index (AWA) (Gross)		-3.16	-3.16	-3.07	-3.07	8.41	7.52	7.71	9.45	7.47	22.17	1.19	8.76	
Difference		2.13	2.13	2.08	2.08	1.40	1.36	1.54	N/A	-0.09	0.72	1.13	1.53	
PGIM Real Estate PRISA II (CF)	\$13.00	-2.08	-2.08	-2.67	-2.67	8.76	8.26	8.67	10.76	7.02	23.18	0.98	8.12	10/01/2004
NCREIF ODCE Index (AWA) (Gross)		-3.16	-3.16	-3.07	-3.07	8.41	7.52	7.71	9.45	7.47	22.17	1.19	7.88	
Difference		1.08	1.08	0.40	0.40	0.35	0.74	0.96	1.31	-0.45	1.01	-0.21	0.24	
Absolute Return														
Grosvenor FOB (CF) (Net)	\$16.75	1.82	1.82	1.31	0.18	7.18	3.36	4.54	N/A	-6.52	6.32	14.40	3.35	08/01/2014
HFN FOF Multi-Strat Index (Net)		0.10	0.10	0.18	-0.54	7.68	3.51	4.07	3.23	-1.35	6.77	9.79	2.89	
Difference		1.72	1.72	1.13	0.72	-0.50	-0.15	0.47	N/A	-5.17	-0.45	4.61	0.46	
ICE BofAML 3 Mo US T-Bill Index+5%		2.31	2.31	7.18	7.63	5.93	6.48	6.27	5.91	6.53	5.05	5.70	6.04	
Difference		-0.49	-0.49	-5.87	-7.45	1.25	-3.12	-1.73	N/A	-13.05	1.27	8.70	-2.69	
Private Equity														
Abbott Capital Private Equity LP (CF) (Net)	\$0.44	0.00	0.00	-11.78	-11.78	13.00	8.94	10.04	10.53	-15.39	21.08	22.82	5.94	12/01/2005
J.P. Morgan Private Equity III (CF) (Net)	\$0.18	-0.52	-0.52	-26.84	-27.10	7.07	7.16	8.17	10.34	-27.06	56.05	11.80	6.18	06/01/2006

Performance shown is gross of fees, unless otherwise noted. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on nonmarketable investments such as private equity is imperfect at best and can potentially be misleading. White Oak Fixed Income performance is currently unavailable.



Asset Allocation & Performance - Net of Fees

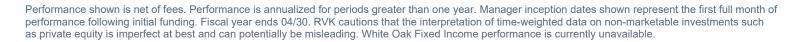
MSCI Wrid Index (USD) (Net) 7.73 7		Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
MSCI Wrid Index (USD) (Net)															
Difference -3.65 -3.65 -3.65 0.88 3.90 3.16 -2.05 -1.38 N/A 9.66 1.98 -13.49 -1.38 MSCI Wrid Val Index (USD) (Net) 0.92 0.92 -0.07 -5.05 15.90 4.99 7.17 6.54 -6.52 21.94 -1.16 5.00 Difference 3.16 3.16 2.35 1.93 3.66 0.97 1.19 N/A -2.06 1.86 3.57 1.35 Artisan Global Opportunities (CF) \$11.66 9.05 9.05 9.05 -0.19 -12.21 11.83 7.99 1.18 N/A -30.20 14.10 40.34 10.19 05/01/20 MSCI Wrid Index (USD) (Net) 7.73 7.73 1.40 -7.02 16.40 8.01 9.74 8.85 -18.14 21.82 15.90 7.73 Difference 1.32 1.32 1.59 5.19 4.57 -0.02 1.44 N/A -12.06 -7.72 24.44 2.46 MSCI Wrid Grih Index (USD) (Net) 15.10 15.10 2.38 -9.82 15.93 10.37 11.80 10.81 -2.92 12.118 33.83 10.07 Difference -6.05 -6.05 -2.57 -2.39 -4.10 -2.38 -0.62 N/A -0.99 -7.08 6.51 0.12 NT Collective Daily ACW IM NL (CF) \$16.12 6.98 6.98 1.11 -6.87 15.91 6.87 9.33 N/A -17.83 18.05 16.65 7.33 0.301/20 MSCI ACW IM Index (USD) (Net) 6.95 6.95 0.28 -7.68 15.64 6.58 8.97 7.95 -18.40 18.22 16.25 6.95 Difference 0.03 0.03 0.83 0.81 0.27 0.29 0.36 N/A 0.57 -0.17 0.40 0.38 WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A N/A N/A -1.4.63 21.83 N/A 14.90 11/01/20 MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A -7.85 -1.867 16.10 16.33 8.51 Difference -0.52		\$14.54	4.08	4.08	2.28	-3.12	19.56	5.96						6.35	05/01/2014
MSCI Wrid Val Index (USD) (Net) 0.92 0.92 0.07 0.75.05 15.90 0.99 7.17 6.54 0.652 21.94 1.16 5.00 Artisan Global Opportunities (CF) 11.66 0.05 0.05 0.09 1.19 0.04 0.09 1.19 0.04 0.09 1.19 0.07 0.19 0.10 0.19 0.10 0.19 0.10 0.19 0.10 0.10	MSCI Wrld Index (USD) (Net)														
Difference 3.16 3.16 2.35 1.93 3.66 0.97 1.19 N/A -2.06 1.86 3.57 1.35 Artisan Global Opportunities (CF) \$11.66 9.05 9.05 -0.19 -12.21 11.83 7.99 11.18 N/A -30.20 14.10 40.34 10.19 05/01/28 MSCI Wrid Index (USD) (Net) 7.73 7.73 1.40 -7.02 16.40 8.01 9.74 8.85 -18.14 21.82 15.90 7.73 Difference 1.32 1.59 -5.19 4.57 -0.02 1.44 N/A -12.06 -7.72 24.44 2.46 MSCI Wrid Grith Index (USD) (Net) 15.10 15.10 2.38 -9.82 15.93 10.37 11.80 10.81 -29.21 21.18 33.83 10.07 Difference -6.05 -6.05 -2.57 -2.39 4.10 -2.38 -0.62 N/A -0.99 -7.08 6.51 0.12 NT Collective Daily ACW IM NL (CF) \$16.12 6.98 6.98 1.11 -6.87 15.91 6.87 9.33 N/A -17.83 18.05 16.65 7.33 03/01/28 MSCI ACW IM Index (USD) (Net) 6.95 6.95 0.28 -7.68 15.64 6.58 8.97 7.95 -18.40 18.22 16.25 6.95 Difference 0.03 0.03 0.83 0.81 0.27 0.29 0.36 N/A 0.57 -0.17 0.40 0.38 WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A N/A N/A -14.63 21.83 N/A 4.90 11/01/28 MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A N/A 4.04 5.73 N/A 6.39 GGG Partners Emg Mkts Eq (CF) \$5.40 3.44 3.44 5.91 -11.56 N/A N/A N/A N/A N/A 2.1.28 -1.61 N/A 4.26 11/01/28 MSCI AcW IM Index (USD) (Net) 3.96 3.96 5.44 1-10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A -13.55 -2.05 10.16 1.95 07/01/28 Bloomberg US Agg Bond Index 2.96 2.96 1.03 4.78 2.77 0.90 0.88 1.36 -13.01 1.55 7.51 0.53	Difference		-3.65	-3.65	0.88	3.90	3.16	-2.05	-1.38	N/A	9.56	1.98	-13.49	-1.38	
Artisan Global Opportunities (CF) \$11.66 9.05 9.05 -0.19 -12.21 11.83 7.99 11.18 N/A -30.20 14.10 40.34 10.19 05/01/20 MSCI Wrld Index (USD) (Net) 7.73 7.73 1.40 -7.02 16.40 8.01 9.74 8.85 -18.14 21.82 15.90 7.73 Difference 1.32 1.32 -1.59 5.19 4.57 -0.02 1.44 N/A -12.06 -7.72 24.44 2.46 MSCI Wrld Grith Index (USD) (Net) 15.10 15.10 2.38 -9.82 15.93 10.37 11.80 10.81 -29.21 21.18 33.83 10.07 Difference -6.05 -6.05 -2.57 -2.39 4.10 -2.38 -0.62 N/A -0.99 -7.08 6.51 0.12 NT Collective Daily ACW IM NL (CF) \$16.12 6.98 6.98 1.11 -6.87 15.91 6.87 9.33 N/A -17.83 18.05 16.65 7.33 03/01/20 MSCI ACW IM Index (USD) (Net) 6.95 6.95 0.28 -7.68 15.64 6.58 8.97 7.95 -18.40 18.22 16.25 6.95 Difference 0.03 0.03 0.83 0.81 0.27 0.29 0.36 N/A 0.57 -0.17 0.40 0.38 WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A N/A N/A 14.63 21.83 N/A 14.90 11/01/20 N/A DIFFERENCE 2.78 2.78 6.63 5.21 N/A N/A N/A N/A N/A 4.04 5.73 N/A 6.39 GGG Partners Emg Mkts Eq (CF) \$5.40 3.44 3.44 -5.91 -11.56 N/A N/A N/A N/A N/A 1.19 0.93 N/A -2.14 Difference -0.52 0.52 0.052 0.047 0.086 N/A N/A N/A N/A N/A N/A 1.19 0.93 N/A -2.14 Fixed Income -0.52 0.052 0.052 0.047 0.086 N/A N/A N/A N/A N/A 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 Difference -0.011 0.011 0.020 0.022 0.23 0.27 0.08 N/A 0.03 0.30 0.30 0.30 0.30 0.30 0.30 0.3	MSCI Wrld Val Index (USD) (Net)		0.92		-0.07	-5.05	15.90	4.99	7.17		-6.52	21.94	-1.16	5.00	
MSCI Wrid Index (USD) (Net) 7.73 7.73 7.73 1.40 7.70 1.59 1.687 1.59 1.687 1.59 1.687 1.59 1.687 1.59 1.687 1.59 1.687 1.59 1.687 1	Difference		3.16	3.16	2.35	1.93	3.66	0.97	1.19	N/A	-2.06	1.86	3.57	1.35	
Difference	Artisan Global Opportunities (CF)	\$11.66	9.05	9.05	-0.19	-12.21	11.83	7.99	11.18	N/A	-30.20	14.10	40.34	10.19	05/01/2014
MSCI Wrid Grth Index (USD) (Net) 15.10 15.10 2.38 -9.82 15.93 10.37 11.80 10.81 -29.21 21.18 33.83 10.07	MSCI Wrld Index (USD) (Net)		7.73	7.73	1.40	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	7.73	
Difference -6.05 -6.05 -2.57 -2.39 -4.10 -2.38 -0.62 N/A -0.99 -7.08 6.51 0.12 NT Collective Daily ACW IM NL (CF) \$16.12 6.98 6.98 1.11 -6.87 15.91 6.87 9.33 N/A -17.83 18.05 16.65 7.33 03/01/20 MSCI ACW IM Index (USD) (Net) 6.95 6.95 0.28 -7.68 15.64 6.58 8.97 7.95 -18.40 18.22 16.25 6.95 Difference 0.03 0.03 0.83 0.81 0.27 0.29 0.36 N/A 0.57 -0.17 0.40 0.38 WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A N/A N/A -14.63 21.83 N/A 14.90 11/01/20 MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A N/A N/A 4.04 5.73 N/A 6.39 GQG Partners Emg Mkts Eq (CF) \$5.40 3.44 -5.91 -11.56 N/A N/A N/A N/A N/A -21.28 -1.61 N/A 4.26 11/01/20 Difference -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A -1.19 0.93 N/A -2.14 Fixed Income FCI Advisors (SA) \$32.10 3.06 3.06 -0.68 -5.03 -2.40 1.43 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 Difference -0.011 -0.011 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Difference -0.011 -0.011 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Difference -0.010 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCC:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A N/A N/A -7.81 2.61 5.79 2.27 09/01/20 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Difference		1.32	1.32	-1.59	-5.19	-4.57	-0.02	1.44	N/A	-12.06	-7.72	24.44	2.46	
NT Collective Daily ACW IM NL (CF) \$16.12 6.98 6.98 1.11 -6.87 15.91 6.87 9.33 N/A -17.83 18.05 16.65 7.33 03/01/20 MSCI ACW IM Index (USD) (Net) 6.95 6.95 0.28 -7.68 15.64 6.58 8.97 7.95 -18.40 18.22 16.25 6.95 Difference 0.03 0.03 0.83 0.81 0.27 0.29 0.36 N/A 0.57 -0.17 0.40 0.38 WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A N/A N/A -14.63 21.83 N/A 14.90 11/01/20 MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A N/A N/A 4.04 5.73 N/A 6.39 GQG Partners Emg Mkts Eq (CF) \$5.40 3.44 3.44 -5.91 -11.56 N/A N/A N/A N/A N/A N/A -21.28 -1.61 N/A -4.26 11/01/20 MSCI Emg Mkts Index (USD) (Net) 3.96 3.96 -5.44 -10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A N/A -1.19 0.93 N/A -2.14 Fixed Income FCI Advisors (SA) \$32.10 3.06 3.06 -0.68 -5.03 -2.40 1.43 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 MSCI Emg MSCI Gov't Crdt Bond Index 3.17 3.17 -0.88 -4.81 -2.63 1.16 1.10 1.50 -13.58 -1.75 8.93 1.80 Difference -0.11 -0.11 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	MSCI Wrld Grth Index (USD) (Net)		15.10	15.10	2.38	-9.82	15.93	10.37	11.80	10.81	-29.21	21.18	33.83	10.07	
MSCI ACW IM Index (USD) (Net) 6.95 6.95 0.28 -7.68 15.64 6.58 8.97 7.95 -18.40 18.22 16.25 6.95 Difference 0.03 0.03 0.83 0.81 0.27 0.29 0.36 N/A 0.57 -0.17 0.40 0.38 WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A N/A N/A -14.63 21.83 N/A 14.90 11/01/20 N/A MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A N/A N/A 4.04 5.73 N/A 6.39 GQG Partners Emg Mkts Eq (CF) \$5.40 3.44 3.44 -5.91 -11.56 N/A N/A N/A N/A N/A N/A -21.28 -1.61 N/A -4.26 11/01/20 N/A MSCI Emg Mkts Index (USD) (Net) 3.96 3.96 -5.44 -10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A N/A -1.19 0.93 N/A -2.14 Fixed Income FCI Advisors (SA) \$32.10 3.06 3.06 -0.68 -5.03 -2.40 1.43 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 Difference -0.11 -0.11 -0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Difference		-6.05	-6.05	-2.57	-2.39	-4.10	-2.38	-0.62	N/A	-0.99	-7.08	6.51	0.12	
Difference 0.03 0.03 0.83 0.81 0.27 0.29 0.36 N/A 0.57 -0.17 0.40 0.38 WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A N/A N/A -14.63 21.83 N/A 14.90 11/01/20 MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A N/A N/A 4.04 5.73 N/A 6.39 GQG Partners Emg Mkts Eq (CF) \$5.40 3.44 3.44 -5.91 -11.56 N/A N/A N/A N/A N/A N/A -21.28 -1.61 N/A -4.26 11/01/20 MSCI Emg Mkts Index (USD) (Net) 3.96 3.96 -5.44 -10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A N/A -1.19 0.93 N/A -2.14 Fixed Income FCI Advisors (SA) \$32.10 3.06 3.06 -0.68 -5.03 -2.40 1.43 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 MSCI Emg Mkts Index (USD) (Net) 3.97 0.88 -4.81 -2.63 1.16 1.10 1.50 -13.58 -1.75 8.93 1.80 Difference -0.11 -0.11 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference (D.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A 7.81 2.61 5.79 2.27 09/01/20 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	NT Collective Daily ACW IM NL (CF)	\$16.12	6.98	6.98	1.11	-6.87	15.91	6.87	9.33	N/A	-17.83	18.05	16.65	7.33	03/01/2014
WTC-CTF Global Perspectives (CF) \$10.25 7.02 7.02 4.36 -4.36 N/A N/A N/A -14.63 21.83 N/A 14.90 11/01/20 MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A 4.04 5.73 N/A 6.39 GQG Partners Emg Mkts Eq (CF) \$5.40 3.44 -3.91 -11.56 N/A N/A N/A N/A N/A N/A -1.61 N/A -4.26 11/01/20 MSCI Emg Mkts Index (USD) (Net) 3.96 3.96 -5.44 -10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A -1.19 0.93 N/A -2.	MSCI ACW IM Index (USD) (Net)		6.95	6.95	0.28	-7.68	15.64	6.58	8.97	7.95	-18.40	18.22	16.25	6.95	
MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A	Difference		0.03	0.03	0.83	0.81	0.27	0.29	0.36	N/A	0.57	-0.17	0.40	0.38	
MSCI ACW Sm Cap Index (USD) (Net) 4.24 4.24 4.24 -2.27 -9.57 17.93 4.19 7.66 7.15 -18.67 16.10 16.33 8.51 Difference 2.78 2.78 6.63 5.21 N/A N/A N/A N/A N/A N/A N/A N/	WTC-CTF Global Perspectives (CF)	\$10.25	7.02	7.02	4.36	-4.36	N/A	N/A	N/A	N/A	-14.63	21.83	N/A	14.90	11/01/2020
GQG Partners Emg Mkts Eq (CF) \$5.40 3.44 3.44 -5.91 -11.56 N/A N/A N/A N/A -21.28 -1.61 N/A -4.26 11/01/20 MSCI Emg Mkts Index (USD) (Net) 3.96 3.96 -5.44 -10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A N/A N/A -1.19 0.93 N/A -2.14 Fixed Income FCI Advisors (SA) \$32.10 3.06 3.06 -0.68 -5.03 -2.40 1.43 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 Bloomberg US Gov't Crdt Bond Index 3.17 3.17 -0.88 -4.81 -2.63 1.16 1.10 1.50 -13.58 -1.75 8.93 1.80 Difference -0.11 -0.11 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	MSCI ACW Sm Cap Index (USD) (Net)		4.24	4.24	-2.27	-9.57	17.93	4.19	7.66	7.15	-18.67	16.10	16.33	8.51	
MSCI Emg Mkts Index (USD) (Net) 3.96 3.96 -5.44 -10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A -1.19 0.93 N/A -2.14 Fixed Income FCI Advisors (SA) \$32.10 3.06 3.06 -0.68 -5.03 -2.40 1.43 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 Bloomberg US Gov't Crdt Bond Index 3.17 3.17 -0.88 -4.81 -2.63 1.16 1.10 1.50 -13.58 -1.75 8.93 1.80 Difference -0.11 -0.11 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Difference		2.78	2.78	6.63	5.21	N/A	N/A	N/A	N/A	4.04	5.73	N/A	6.39	
MSCI Emg Mkts Index (USD) (Net) 3.96 3.96 -5.44 -10.70 7.83 -0.91 4.91 2.00 -20.09 -2.54 18.31 -2.12 Difference -0.52 -0.52 -0.47 -0.86 N/A N/A N/A N/A N/A N/A N/A -1.19 0.93 N/A -2.14 Fixed Income FCI Advisors (SA) Bloomberg US Gov't Crdt Bond Index 3.17 3.17 -0.88 -4.81 -2.63 1.16 1.10 1.50 -13.58 -1.75 8.93 1.80 Difference -0.11 -0.11 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -1.30 -1.30 -7.81 2.61 5.79 2.27 0.9001/20 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -1.30 -1.30 -1.55 7.51 0.53	GQG Partners Emg Mkts Eq (CF)	\$5.40	3.44	3.44	-5.91	-11.56	N/A	N/A	N/A	N/A	-21.28	-1.61	N/A	-4.26	11/01/2020
Fixed Income FCI Advisors (SA) \$32.10	MSCI Emg Mkts Index (USD) (Net)		3.96	3.96	-5.44	-10.70	7.83	-0.91	4.91	2.00	-20.09	-2.54	18.31	-2.12	
FCI Advisors (SA) \$32.10 3.06 3.06 -0.68 -5.03 -2.40 1.43 1.18 N/A -13.55 -2.05 10.16 1.95 07/01/20 Bloomberg US Gov't Crdt Bond Index 3.17 3.17 -0.88 -4.81 -2.63 1.16 1.10 1.50 -13.58 -1.75 8.93 1.80 Difference -0.11 -0.11 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A -7.81 2.61 5.79 2.27 09/01/20	Difference		-0.52	-0.52	-0.47	-0.86	N/A	N/A	N/A	N/A	-1.19	0.93	N/A	-2.14	
Bloomberg US Gov't Crdt Bond Index 3.17 3.17 -0.88 -4.81 -2.63 1.16 1.10 1.50 -13.58 -1.75 8.93 1.80 Difference -0.11 -0.11 0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A -7.81 2.61 5.79 2.27 09/01/20 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Fixed Income														
Difference -0.11 -0.20 -0.22 0.23 0.27 0.08 N/A 0.03 -0.30 1.23 0.15 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A -7.81 2.61 5.79 2.27 09/01/20 Bloomberg US Agg Bond Index 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	FCI Advisors (SA)	\$32.10	3.06	3.06	-0.68	-5.03	-2.40	1.43	1.18	N/A	-13.55	-2.05	10.16	1.95	07/01/2013
Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 1.64 Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A -7.81 2.61 5.79 2.27 09/01/20 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Bloomberg US Gov't Crdt Bond Index		3.17	3.17	-0.88	-4.81	-2.63	1.16	1.10	1.50	-13.58	-1.75	8.93	1.80	
Difference 0.10 0.10 0.35 -0.25 0.37 0.53 0.30 N/A -0.54 -0.50 2.65 0.31 PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A -7.81 2.61 5.79 2.27 09/01/20 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Difference		-0.11	-0.11	0.20	-0.22	0.23	0.27	0.08	N/A	0.03	-0.30	1.23	0.15	
PIMCO:Income;Inst (PIMIX) \$18.61 2.56 2.56 1.39 -1.30 3.59 2.26 N/A N/A -7.81 2.61 5.79 2.27 09/01/20 Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Bloomberg US Agg Bond Index		2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	1.64	
Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	Difference		0.10	0.10	0.35	-0.25	0.37	0.53	0.30	N/A	-0.54	-0.50	2.65	0.31	
Bloomberg US Agg Bond Index 2.96 2.96 -1.03 -4.78 -2.77 0.90 0.88 1.36 -13.01 -1.55 7.51 0.53	PIMCO:Income;Inst (PIMIX)	\$18.61	2.56	2.56	1.39	-1.30	3.59	2.26	N/A	N/A	-7.81	2.61	5.79	2.27	09/01/2017
Difference -0.40 -0.40 2.42 3.48 6.36 1.36 N/A N/A 5.20 4.16 -1.72 1.74			2.96	2.96	-1.03	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	0.53	
	Difference		-0.40	-0.40	2.42	3.48	6.36	1.36	N/A	N/A	5.20	4.16	-1.72	1.74	

Performance shown is net of fees. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading. White Oak Fixed Income performance is currently unavailable.



Asset Allocation & Performance - Net of Fees

	Market Value (\$M)	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	Since Incep.	Inception Date
Direct Lending														
White Oak Fixed Income C LP	\$10.62	0.00	0.00	-3.48	-3.48	3.12	3.98	N/A	N/A	-2.75	4.60	2.66	3.98	04/01/2018
ICE BofAML 3 Mo US T-Bill Index+5%		0.00	0.00	4.75	5.19	5.13	5.99	5.93	5.67	6.53	5.05	5.70	5.99	
Difference		0.00	0.00	-8.23	-8.67	-2.01	-2.01	N/A	N/A	-9.28	-0.45	-3.04	-2.01	
Real Estate														
Morgan Stanley Prime Property (CF)	\$13.09	-1.24	-1.24	-2.05	-2.05	8.62	7.70	8.08	N/A	6.14	21.48	1.26	9.10	10/01/2014
NCREIF ODCE Index (AWA) (Net)		-3.33	-3.33	-3.86	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	7.79	
Difference		2.09	2.09	1.81	1.81	1.15	1.13	1.32	N/A	-0.41	0.46	0.92	1.31	
PGIM Real Estate PRISA II (CF)	\$13.00	-2.36	-2.36	-3.75	-3.75	7.57	7.07	7.48	N/A	5.86	21.86	-0.16	9.50	07/01/2013
NCREIF ODCE Index (AWA) (Net)		-3.33	-3.33	-3.86	-3.86	7.47	6.57	6.76	8.48	6.55	21.02	0.34	8.31	
Difference		0.97	0.97	0.11	0.11	0.10	0.50	0.72	N/A	-0.69	0.84	-0.50	1.19	
Absolute Return														
Grosvenor FOB (CF)	\$16.75	1.82	1.82	1.31	0.18	7.18	3.36	4.54	N/A	-6.52	6.32	14.40	3.35	08/01/2014
HFN FOF Multi-Strat Index (Net)		0.10	0.10	0.18	-0.54	7.68	3.51	4.07	3.23	-1.35	6.77	9.79	2.89	
Difference		1.72	1.72	1.13	0.72	-0.50	-0.15	0.47	N/A	-5.17	-0.45	4.61	0.46	
ICE BofAML 3 Mo US T-Bill Index+5%		2.31	2.31	7.18	7.63	5.93	6.48	6.27	5.91	6.53	5.05	5.70	6.04	
Difference		-0.49	-0.49	-5.87	-7.45	1.25	-3.12	-1.73	N/A	-13.05	1.27	8.70	-2.69	
Private Equity														
Abbott Capital Private Equity LP (CF)	\$0.44	0.00	0.00	-11.78	-11.78	13.00	8.94	10.04	N/A	-15.39	21.08	22.82	10.44	07/01/2013
J.P. Morgan Private Equity III (CF)	\$0.18	-0.52	-0.52	-26.84	-27.10	7.07	7.16	8.17	N/A	-27.06	56.05	11.80	10.35	07/01/2013





Kansas City Police Employees' Retirement Systems KCPERS Civilian Private Investment Lagged Performance Asset Allocation & Performance

	Market Value (M)	QTD	FYTD	CYTD	1 Year	3 Years	5 Years	7 Years	10 Years	2021	2020	2019	Since Incep.	Inception Date
Civilian - Private Equity	\$0.65	-0.56	-16.13	-18.78	-18.78	8.02	8.84	9.53	N/A	28.80	20.47	10.10	10.78	07/01/2013
Abbott Capital Private Equity LP (CF) (Net)	\$0.47	0.00	-11.78	-15.39	-15.39	7.96	9.36	10.01	N/A	21.08	22.82	10.96	10.73	07/01/2013
Cambridge US Prvt Eq Index		1.03	-2.99	-2.34	-2.34	18.89	16.14	16.04	15.05	40.61	22.37	13.84	14.98	
Difference		-1.03	-8.79	-13.05	-13.05	-10.93	-6.78	-6.03	N/A	-19.53	0.45	-2.88	-4.25	
J.P. Morgan Private Equity III (CF) (Net)	\$0.19	-2.20	-26.46	-27.06	-27.06	8.37	7.43	8.25	N/A	56.05	11.80	7.53	10.70	07/01/2013
Cambridge US Prvt Eq Index		1.03	-2.99	-2.34	-2.34	18.89	16.14	16.04	15.05	40.61	22.37	13.84	14.98	
Difference		-3.23	-23.47	-24.72	-24.72	-10.52	-8.71	-7.79	N/A	15.44	-10.57	-6.31	-4.28	
Civilian - Direct Lending	\$10.62	-2.72	-3.48	-2.75	-2.75	1.45	N/A	N/A	N/A	4.60	2.66	7.41	4.20	04/01/2018
White Oak Fixed Income C LP	\$10.62	-2.72	-3.48	-2.75	-2.75	1.45	N/A	N/A	N/A	4.60	2.66	7.41	4.20	04/01/2018
ICE BofAML 3 Mo US T-Bill Index+5%		2.08	4.75	6.53	6.53	5.76	6.33	6.12	5.80	5.05	5.70	7.39	6.32	
Difference		-4.80	-8.23	-9.28	-9.28	-4.31	N/A	N/A	N/A	-0.45	-3.04	0.02	-2.12	

Performance shown is net of fees, unless otherwise noted. Performance and market values are preliminary and subject to change. Performance is annualized for periods greater than one year. Manager inception dates shown represent the first full month of performance following initial funding. Fiscal year ends 04/30. RVK cautions that the interpretation of time-weighted data on non-marketable investments such as private equity is imperfect at best and can potentially be misleading.



Civilian Employees' Retirement System of the Police Department of Kansas City Alternative Investment Fund Performance Listing

Fund Name	Vintage	Asset Class	Commitment (\$)	Paid In Capital (\$)	Distributions (\$)	Valuation (\$)	Fund IRR (%)	Quartile	Index IRR (%)	Fund Multiple
J.P. Morgan European Corporate Financi Investors III	ce 2006	Private Equity - Non-US Private Equity	187,500	180,889	275,401	6,637	7.65	3rd	10.14	1.56
J.P. Morgan U.S. Corporate Finance Investors III	2006	Private Equity - Buyout	750,000	755,891	1,475,516	61,690	13.33	1st	8.83	2.03
J.P. Morgan Venture Capital Investors II	I 2006	Private Equity - Venture	312,500	318,571	478,284	117,033	9.32	2nd	11.40	1.87
Abbott Capital Private Equity VI LP	2008	Private Equity - Fund of Funds	1,250,000	1,243,761	1,927,389	466,599 *	12.96	2nd	13.22	1.92
			2,500,000	2,499,112	4,156,589	651,959	12.08		11.34	1.92

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 (Cap Wtd) 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.



Kansas City Police Employees' Retirement Systems KCPERS Civilian Employees Schedule of Investable Assets by Manager

	LSV Global Large Cap Value (SA)										
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return						
Quarter	13,949,093	22,147	567,880	14,539,120	4.08						

Artisan Global Opportunities (CF)											
Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return							
10,692,841	-	967,761	11,660,602	9.05							
_	Market Value (\$)	Beginning Net Market Value (\$) Cash Flow (\$)	Beginning Net Gain/Loss (\$) Market Value (\$) Cash Flow (\$)	Beginning Net Gain/Loss (\$) Ending Market Value (\$) Cash Flow (\$) Market Value (\$)							

NT Collective Daily ACW IM NL (CF)										
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return					
Quarter	15,061,824	3,065	1,051,671	16,116,560	6.98					

WTC-CTF Global Perspectives (CF)								
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	(fain/1 oss (%)					
Quarter	9,574,451	-	672,207	10,246,658	7.02			

GQG Partners Emg Mkts Eq (CF)									
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return				
Quarter	5,223,729	-	179,639	5,403,368	3.44				

FCI Advisors (SA)								
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	(\$) Ending Market Value (\$)				
Quarter	31,139,152	11,286	951,695	32,102,133	3.06			

Performance shown is net of fees and will not match subsequent comparative performance gross of fees.



PIMCO:Income;Inst (PIMIX)								
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	(fain/l ose (%)					
Quarter	18,465,858	-325,000	471,644	18,612,502	2.56			

Morgan Stanley Prime Property (CF)								
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return			
Quarter	13,677,339	-420,140	-169,680	13,087,519	-1.24			

PGIM Real Estate PRISA II (CF)								
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return			
Quarter	13,809,015	-485,621	<mark>-325,873</mark> 12,997,521		-2.36			

Grosvenor FOB (CF)								
Periods Ending	Beginning Market Value (\$)	Net Cash Flow (\$)	Gain/Loss (\$)	Ending Market Value (\$)	% Return			
Quarter	16,451,669	-	298,913	16,750,582	1.82			

Manager	Fee Schedule	Aggregate Assets (\$)	Estimated Annual Fee (%)	Market Value as of 03/31/2023	Estimated Annual Fee (\$)
LSV Global Large Cap Value (SA)	0.75 % of First \$25 M 0.65 % of Next \$25 M 0.55 % of Next \$50 M 0.45 % Thereafter	94,786,521	0.63	14,539,120	91,469
Artisan Global Opportunities (CF)	0.85% of Assets	11,660,602	0.85	11,660,602	99,115
NT Collective Daily ACW IM NL (CF)	0.10 % of First \$50 M 0.08 % Thereafter	111,661,389	0.09	16,116,560	14,337
WTC-CTF Global Perspectives (CF)	1.00 % of Assets	68,509,348	1.00	10,246,658	102,467
GQG Partners Emg Mkts Eq (CF)	0.85 % of First \$25 M 0.80 % Thereafter	36,869,604	0.83	5,403,368	45,059
FCI Advisors (SA)	0.50 % of First \$5 M 0.40 % of Next \$5 M 0.30 % of Next \$10 M 0.20 % of Next \$10 M 0.12 % Thereafter	215,342,244	0.15	32,102,133	47,318
PIMCO:Income;Inst (PIMIX)	0.50 % of Assets	106,129,930	0.50	18,612,502	93,063
White Oak Fixed Income C LP	1.00% of Assets	73,682,019	1.00	10,623,205	106,232
Morgan Stanley Prime Property (CF)	0.84 % of Assets	90,591,961	0.84	13,087,519	109,935



Manager	Fee Schedule	Aggregate Assets (\$)	Estimated Annual Fee (%)	Market Value as of 03/31/2023	Estimated Annual Fee (\$)
PGIM Real Estate PRISA II (CF)	1.20 % of First \$25 M 1.15 % of Next \$25 M 1.05 % of Next \$50 M 0.95 % of Next \$100 M 0.90 % of Next \$100 M 0.85 % Thereafter	90,351,048	1.12	12,997,521	145,465
Grosvenor FOB (CF)	1.15 % of First \$25 M 1.00 % of Next \$25 M 0.80 % of Next \$50 M 0.60 % Thereafter	125,762,306	0.87	16,750,582	145,456
Coltv. Short Term Invt. Fund	0.15 % of Assets	1,616,973	0.15	929,259	1,394

Fee Notes:

White Oak Fixed Income C LP - Fee structure is 1.25% when aggregate assets are below \$10M, and 1.00% when aggregate assets are above \$10M.

The incentive fee for Morgan Stanley Prime Property (CF) for each calendar year is capped at 35 basis points per annum.

The fee schedule shown for PGIM Real Estate PRISA II (CF) represents the maximum annual fee and may be lower depending on the fund's operating cash flow.

Grosvenor FOB (CF) fee has a 75 basis point minimum. The fee schedule shown for Grosvenor FOB (CF) excludes the underlying manager's fees.

Abbott Capital Private Equity LP (CF) consists of two separate funds: Abbott Capital Private Equity V LP and Abbott Capital Private Equity VI LP. The annual management fee for both funds is 1.00% with 0% carried interest for initial 8 years thereafter the fee is reduced by 10% per year.

JP Morgan Private Equity III (CF) consists of three separate funds: European Corporate Finance Investors III, U.S. Corporate Finance Investors III, and Venture Capital Investors III. The annual management fee pertains to the percentage of committed capital, is level for the first eight years, and is then reduced each successive year by 10% of the preceding year's fee. Each fund is also subject to an incentive/carried interest fee, which is 10% for secondary partnership investments and 20% for direct co-investments.

European and U.S. Corporate Finance Investors III

Venture Capital Investors III

Management fee for initial 8 years: 1.10%

Management fee for initial 8 years: 0.90% Average fee over 15 years: 0.76%

Average fee over 15 years: 0.93%

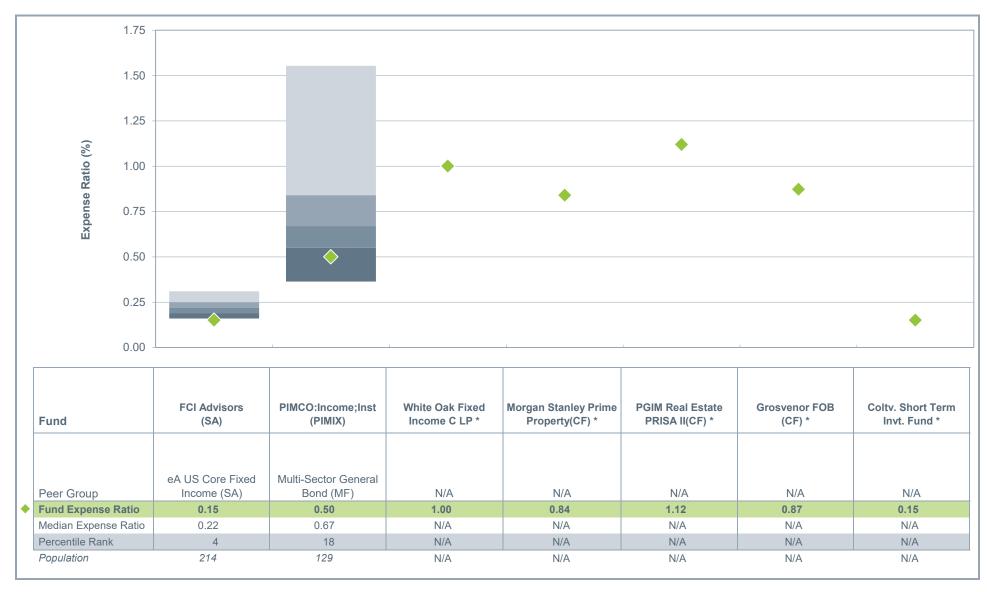
Mutual fund fees are sourced from Morningstar and/or the investment manager.





Fund Expense Ratios are intuitively ranked (i.e., a lower expense ratio yields a better percentile rank than a higher expense ratio). The fee peer groups consist of only institutional share classes.





Fund Expense Ratios are intuitively ranked (i.e., a lower expense ratio yields a better percentile rank than a higher expense ratio).

The fee peer groups consist of only institutional share classes. Funds with no applicable fee peer groups are denoted with an asterisk (*).



Investment Manager Profiles

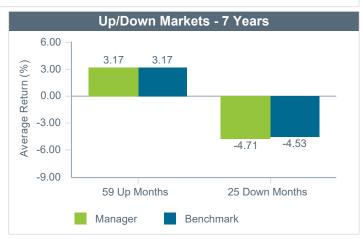


Manager: LSV Global Large Cap Value (SA)
Benchmark: MSCI Wrld Index (USD) (Net)

Peer Group: IM Global Large Cap Value Equity (SA+CF)

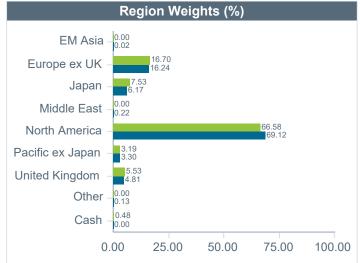
	Performance										
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018
Manager	3.79	-3.44	19.33	6.20	8.72	N/A	-8.13	22.90	2.87	26.36	-12.66
Benchmark	7.73	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	27.67	-8.71
Difference	-3.94	3.58	2.93	-1.81	-1.02	N/A	10.01	1.08	-13.03	-1.31	-3.95
Peer Group Median	5.93	-3.34	16.67	6.36	8.66	7.98	-10.16	18.77	6.78	24.33	-11.09
Rank	79	52	29	53	48	N/A	35	13	70	33	62
Population	118	118	111	104	98	82	121	124	132	138	140







Portfolio Characteristics	and Dist. of	Market Cap (%)		
	Portfolio	Benchmark		
Wtd. Avg. Mkt. Cap (\$M)	56,755	375,556		
Median Mkt. Cap (\$M)	13,148	17,000		
Price/Earnings Ratio	10.65	17.87		
Price/Book Ratio	2.04	3.55		
5 Yr. EPS Growth Rate (%)	16.15	15.84		
Current Yield (%)	3.39	2.16		
Beta (5 Years, Monthly)	1.03	1.00		
Number of Securities	236	1,509		
Active Share	86.33	N/A		
60.00 - 49.29 45.00 - 30.00 - 20.93 15.00 - 20.93 24.62 ^{27.45}	33.92 10.63 _{8.33} 9.13	6.77		
>\$100 Bil \$75 Bil - \$25 Bil - \$100 Bil \$75 Bil	\$15 Bil - \$2 Bil - \$25 Bil \$15 Bil	\$0 - Cash \$2 Bil		



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

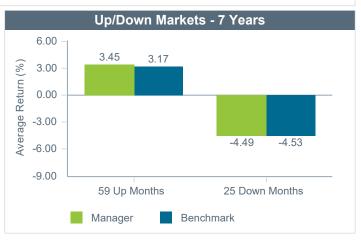


Manager: Artisan Global Opportunities (SA)
Benchmark: MSCI Wrld Index (USD) (Net)

Peer Group: IM Global Large Cap Growth Equity (SA+CF)

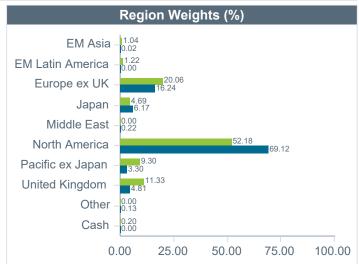
-		3		, (2.1) o uf o uso o u						
Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018
Manager	9.35	-11.32	13.02	9.07	12.23	N/A	-29.41	15.26	41.63	37.23	-7.87
Benchmark	7.73	-7.02	16.40	8.01	9.74	8.85	-18.14	21.82	15.90	27.67	-8.71
Difference	1.62	-4.30	-3.38	1.06	2.49	N/A	-11.27	-6.56	25.73	9.56	0.84
Peer Group Median	8.88	-7.90	15.02	8.76	11.41	10.18	-23.38	17.80	30.10	31.58	-7.23
Rank	46	75	77	47	28	N/A	74	61	24	15	55
Population	120	120	113	106	93	80	125	125	129	131	125







			Portfolio		Benchmark
Wtd. Avg. Mkt. Cap (\$M)			129,152 375,		
Median Mkt. Cap (\$M)			51,151		17,000
Price/Earnings Ratio			31.12		17.87
Price/Book Ratio			4.42		3.55
5 Yr. EPS Growth Rate (%)			18.79		15.84
Current Yield (%)			0.72		2.16
Beta (5 Years, Monthly))		0.98		1.00
Number of Securities			55		1,509
Active Share			92.17		N/A
60.00 — 45.00 —		44.43			
37.75					
30.00-		27.45			
15.00 —			11.92 8.33	9.13	
0.00	5.70 5.81		0.00	0.00	0.20 0.00
	\$75 Bil -	\$25 Bil -	\$15 Bil -	\$2 Bil -	Cash



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



Manager: WTC-CTF Global Perspectives (CF)
Benchmark: MSCI ACW Sm Cap Index (USD) (Net)
Peer Group: IM Global Small Cap Equity (SA+CF)

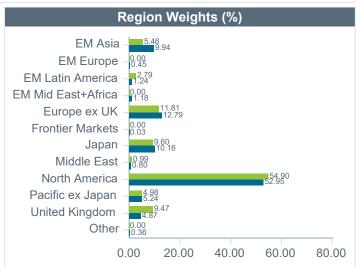
				P	erforma	псе					
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018
Manager	7.02	-4.36	23.37	5.80	9.86	9.82	-14.63	21.78	14.66	22.35	-13.82
Benchmark	4.24	-9.57	17.93	4.19	7.66	7.15	-18.67	16.10	16.33	24.65	-14.39
Difference	2.78	5.21	5.44	1.61	2.20	2.67	4.04	5.68	-1.67	-2.30	0.57
Peer Group Median	6.42	-7.28	18.20	5.34	8.37	8.25	-21.37	21.14	17.53	26.40	-14.30
Rank	32	27	15	38	19	9	32	44	56	70	41
Population	21	21	18	13	11	9	24	26	28	29	32







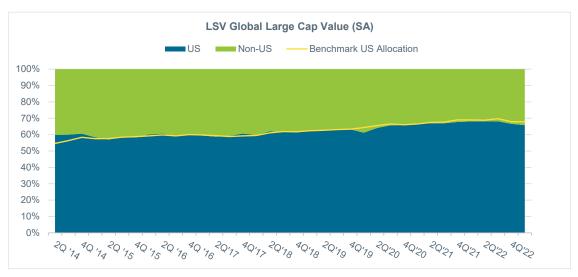
			Portfolio		Benchmark	
Wtd. Avg. Mkt. Cap (\$N		7,617		3,477		
Median Mkt. Cap (\$M)		4,440		1,140		
Price/Earnings Ratio		13.18		12.36		
Price/Book Ratio			2.25		2.39	
5 Yr. EPS Growth Rate	(%)		14.18		14.08	
Current Yield (%)			2.65		2.41	
Beta (5 Years, Monthly)		1.04		1.00	
Number of Securities			108		6,256	
Active Share			96.32		N/A	
60.00 — 45.00 —				37.87		
30.00 – 15.00 –		32.42 22.05	23.36	31.55	14.13	
0.00	4.54 2.58				0.00	
>\$15 Bil	\$10 Bil -	\$5 Bil -	\$3 Bil -	\$1 Bil -	\$0 -	
	\$15 Bil	\$10 Bil	\$5 Bil	\$3 Bil	\$1 Bil	

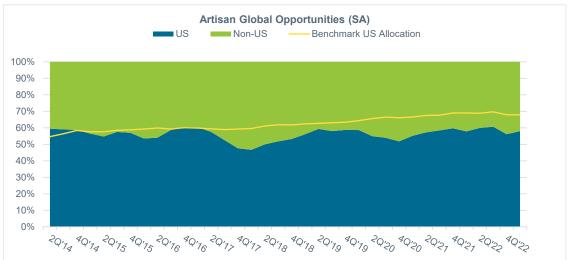


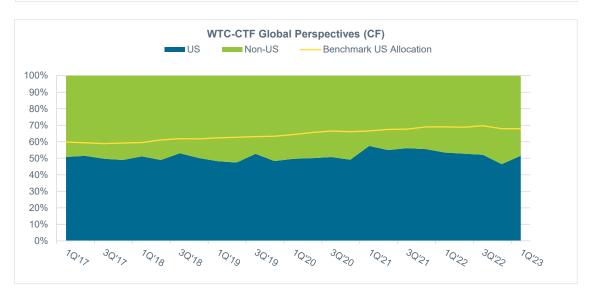
Performance shown is gross of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks.



Global Equity - KCPERS
Benchmark: MSCI Wrld Index (USD) (Net)
Historical US vs. Non-US Allocations







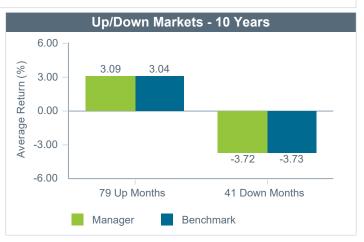
Global allocations shown for WTC-CTF Global Perspectives (CF) prior to KCPERS inception are provided by the manager.



Manager: NT Collective Daily ACW IM NL (CF)
Benchmark: MSCI ACW IM Index (USD) (Net)
Peer Group: IM International Equity (SA+CF)

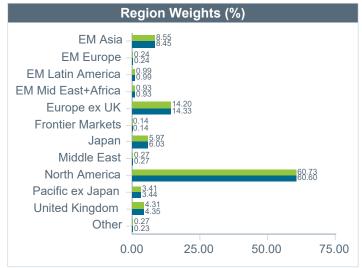
	Performance												
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018		
Manager	7.07	-6.87	16.07	6.98	9.43	8.40	-17.93	18.50	16.78	26.83	-9.61		
Benchmark	6.95	-7.68	15.64	6.58	8.97	7.95	-18.40	18.22	16.25	26.35	-10.08		
Difference	0.12	0.81	0.43	0.40	0.46	0.45	0.47	0.28	0.53	0.48	0.47		
Peer Group Median	7.96	-3.46	13.43	3.62	6.84	6.00	-16.60	11.51	11.75	23.40	-14.60		
Rank	62	74	24	12	14	12	58	12	35	31	15		
Population	665	662	642	618	579	502	713	743	811	852	885		







			Portfolio		Benchmark
Ntd. Avg. Mkt. Cap (\$N	A)		306,793		306,686
Median Mkt. Cap (\$M)			1,831		1,809
Price/Earnings Ratio			16.24		16.23
Price/Book Ratio			3.27		3.27
Yr. EPS Growth Rate	(%)		15.66		15.60
Current Yield (%)			2.30		2.30
Beta (5 Years, Monthly)		1.00		1.00
Number of Securities			9,290		9,144
Active Share			0.80		N/A
60.00					
45.00 – 41.13 41.18					
30.00-		24.12 24.24			
45.00				18.10 18.08	
15.00 —	4.88 4.76		7.69 7.71		4.08 4.03
0.00					1.00 4.00
>\$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: GQG Partners Emg Mkts Eq (CF)
Benchmark: MSCI Emg Mkts Index (USD) (Net)
Peer Group: IM Emerging Markets Equity (SA+CF)

	Performance												
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018		
Manager	3.79	-10.79	11.12	2.62	N/A	N/A	-20.68	-0.61	34.80	23.62	-13.41		
Benchmark	3.96	-10.70	7.83	-0.91	4.91	2.00	-20.09	-2.54	18.31	18.42	-14.57		
Difference	-0.17	-0.09	3.29	3.53	N/A	N/A	-0.59	1.93	16.49	5.20	1.16		
Peer Group Median	4.94	-8.78	10.01	0.69	6.07	3.30	-19.72	0.75	18.93	20.64	-15.23		
Rank	75	73	42	18	N/A	N/A	57	58	15	35	27		
Population	277	276	259	232	217	174	291	306	334	358	358		







			Portfolio		Benchmark
Ntd. Avg. Mkt. Cap (\$M)			98,287		102,229
Median Mkt. Cap (\$M)			44,018		6,315
Price/Earnings Ratio			8.01		11.01
Price/Book Ratio			3.01		2.42
5 Yr. EPS Growth Rate (%)		20.98		15.03
Current Yield (%)			7.89		3.35
Beta (5 Years, Monthly)			0.78		1.00
Number of Securities			60		1,379
Active Share			86.86		N/A
80.00 – 60.00 –		55.14			
40.00-		26.59		35.50	
20.00 - 20.45 23.55	1.01		14.89 11.74	9.47	
0.00	0.00 1.81				0.06 0.81
>\$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.



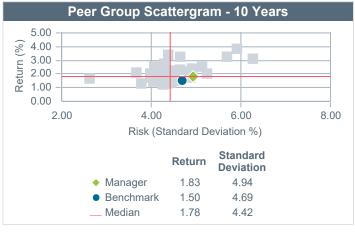
As of March 31, 2023

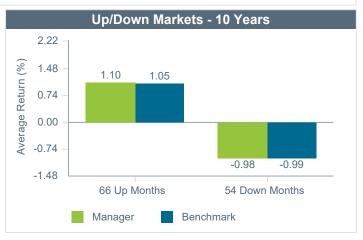
Manager: FCI Advisors (SA)

Benchmark: Bloomberg US Gov't Crdt Bond Index

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

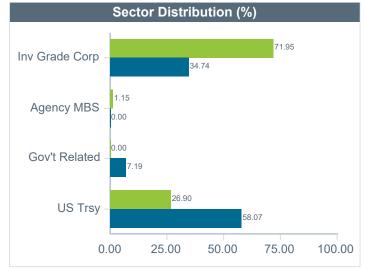
	Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018	
Manager	3.18	-4.78	-2.18	1.62	1.38	1.83	-13.41	-1.92	10.49	10.01	0.22	
Benchmark	3.17	-4.81	-2.63	1.16	1.10	1.50	-13.58	-1.75	8.93	9.71	-0.42	
Difference	0.01	0.03	0.45	0.46	0.28	0.33	0.17	-0.17	1.56	0.30	0.64	
Peer Group Median	3.16	-4.67	-1.82	1.34	1.39	1.78	-12.96	-1.23	8.51	9.18	0.06	
Rank	45	64	74	23	51	44	78	93	6	9	33	
Population	130	130	130	127	125	122	140	147	155	157	164	







	Portfolio	Benchmark
Effective Duration	6.33	6.55
Spread Duration	N/A	6.58
Avg. Maturity	8.10	9.02
Avg. Quality	A1	Aa2/Aa3
Yield To Maturity (%)	4.67	4.34
Coupon Rate (%)	3.10	2.77
Current Yield (%)	3.38	N/A
Holdings Count	91	9,108

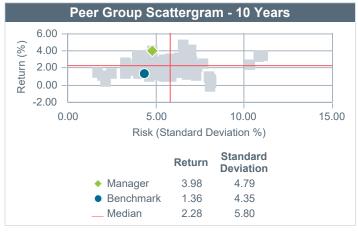


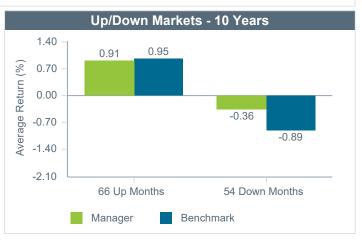
Performance shown is gross of fees and client specific. Calculation is based on monthly periodicity.



Manager: PIMCO:Income;Inst (PIMIX)
Benchmark: Bloomberg US Agg Bond Index
Peer Group: IM Multi-Sector General Bond (MF)

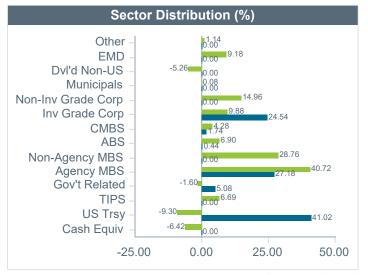
	Performance												
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018		
Manager	2.56	-1.30	3.59	2.28	3.76	3.98	-7.81	2.61	5.80	8.07	0.63		
Benchmark	2.96	-4.78	-2.77	0.90	0.88	1.36	-13.01	-1.55	7.51	8.72	0.01		
Difference	-0.40	3.48	6.36	1.38	2.88	2.62	5.20	4.16	-1.71	-0.65	0.62		
Peer Group Median	2.75	-4.47	2.79	1.40	2.57	2.28	-11.72	1.51	6.47	9.98	-1.59		
Rank	60	10	30	17	8	2	18	33	59	77	18		
Population	477	466	375	317	274	186	466	446	402	387	384		







Portfol	io Characteristic	S
	Portfolio	Benchmark
Effective Duration	3.03	6.33
Spread Duration	4.29	N/A
Avg. Maturity	4.54	8.50
Avg. Quality	A2	Aa1/Aa2
Yield To Maturity (%)	5.86	4.40
Coupon Rate (%)	3.50	2.79
Current Yield (%)	N/A	N/A
Holdings Count	7,625	13,278

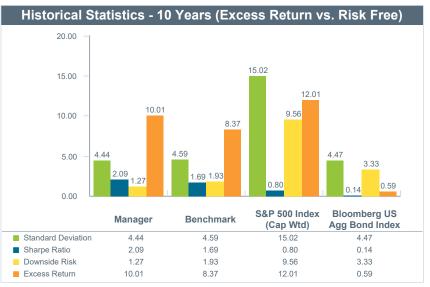


Performance shown is net of fees and product specific. Calculation is based on monthly periodicity. Parentheses contain percentile ranks. Allocation to "Other" consists of convertible bonds and preferred stock. Negative sector allocation reflects manager's use of derivatives, short selling, or interest rate swaps.

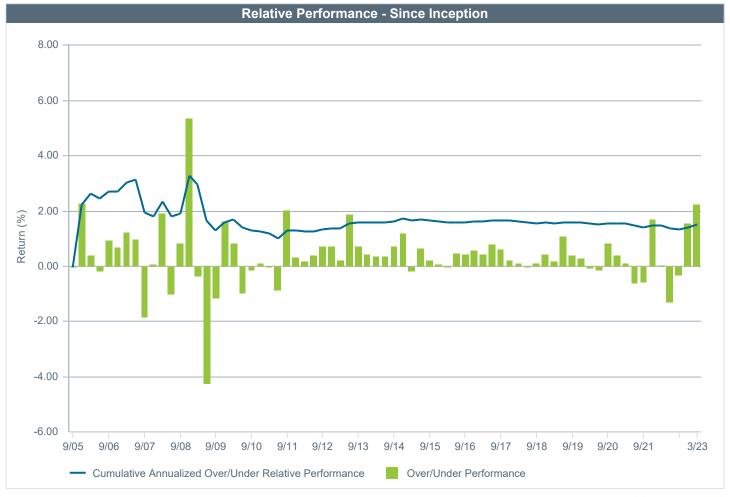


Manager: Morgan Stanley Prime Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

	Performance												
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018		
Manager	-1.00	-1.02	9.77	8.84	9.21	11.23	7.38	22.87	2.18	7.40	8.99		
Benchmark	-3.16	-3.07	8.41	7.52	7.71	9.45	7.47	22.17	1.19	5.34	8.35		
Difference	2.16	2.05	1.36	1.32	1.50	1.78	-0.09	0.70	0.99	2.06	0.64		



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.96
S&P 500 Index (Cap Wtd)	-0.14
Russell 2000 Index	-0.19
MSCI EAFE Index (USD) (Net)	-0.28
MSCI Emg Mkts Index (USD) (Net)	-0.33
Bloomberg US Agg Bond Index	-0.36
Bloomberg US Trsy US TIPS Index	-0.30
Wilshire US REIT Index	0.07
HFRI FOF Comp Index	-0.21
Bloomberg Cmdty Index (TR)	0.08
ICE BofA 3 Mo US T-Bill Index	-0.60
Cons Price Index (Unadjusted)	0.24



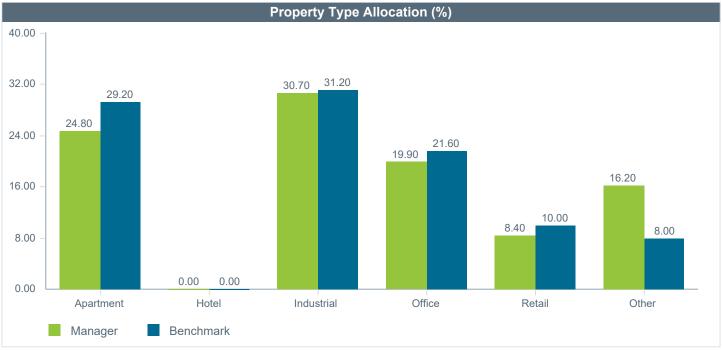


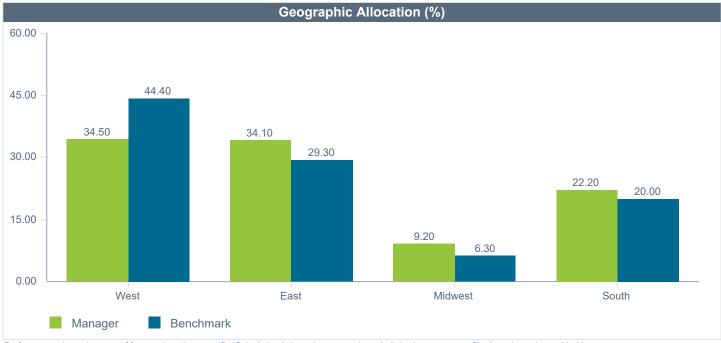
Manager: Morgan Stanley Prime Property (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

Investment Strategy

The Fund pursues a diversified core real estate strategy that invests in assets with stable, highly predictable cash flow returns. The Fund targets high quality office, Class A multifamily, warehouse distribution, and top-tier super regional malls in addition to storage facilities in targeted primary markets. The Fund favors investing in major metropolitan markets and secondary markets expected to achieve above-average economic performance and believes that those cities offer better liquidity, more diverse tenant bases, and stronger resilience to market cycles. It operates with leverage of 50% or less and may invest up to 15% of its gross assets in higher-risk, value-added real estate investment opportunities.

Investment Profile	
Fund Inception	1973
Legal Structure	LLC
Fund Structure	Open-End
Gross Real Estate Assets (mm) \$	44,064
Fund Leverage %	19.70
Portfolio Occupancy %	94.20
Cash Reserve %	1.10
Number of Investments	543
Number of Limited Partners	456



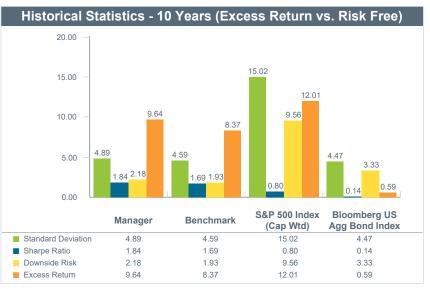


Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists of self-storage, health care, student housing, land held for potential development, and hotel. 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.

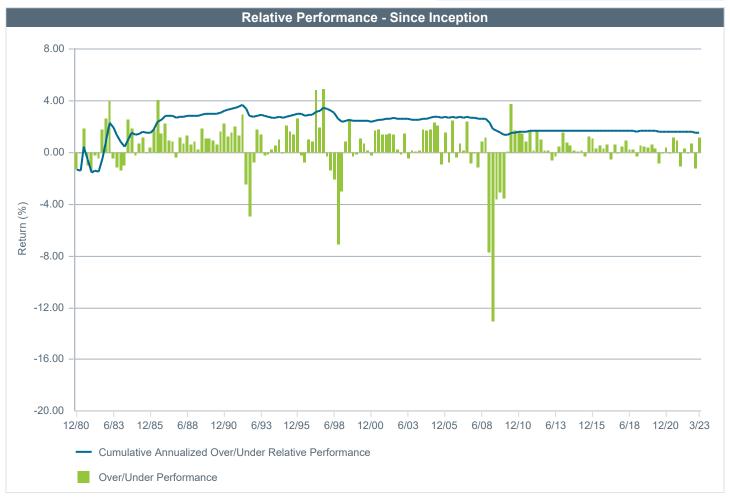


Manager: PGIM Real Estate PRISA II (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

	Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018	
Manager	-2.02	-2.56	8.88	8.34	8.73	10.80	7.13	23.30	1.03	7.52	9.48	
Benchmark	-3.16	-3.07	8.41	7.52	7.71	9.45	7.47	22.17	1.19	5.34	8.35	
Difference	1.14	0.51	0.47	0.82	1.02	1.35	-0.34	1.13	-0.16	2.18	1.13	



	Actual Correlation
NCREIF ODCE Index (AWA) (Gross)	0.97
S&P 500 Index (Cap Wtd)	-0.24
Russell 2000 Index	-0.25
MSCI EAFE Index (USD) (Net)	-0.37
MSCI Emg Mkts Index (USD) (Net)	-0.39
Bloomberg US Agg Bond Index	-0.39
Bloomberg US Trsy US TIPS Index	-0.31
Wilshire US REIT Index	-0.01
HFRI FOF Comp Index	-0.24
Bloomberg Cmdty Index (TR)	0.12
ICE BofAML 3 Mo US T-Bill Index	-0.62
Cons Price Index (Unadjusted)	0.28



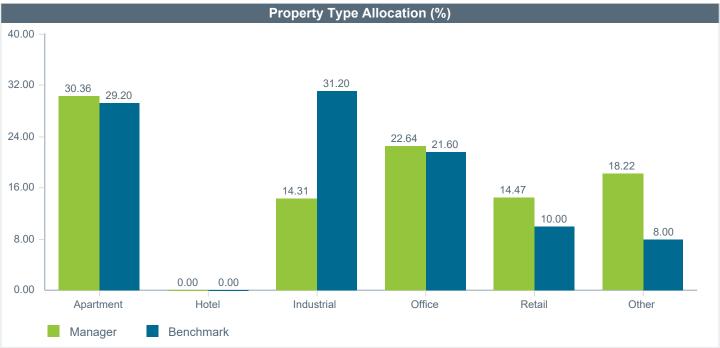


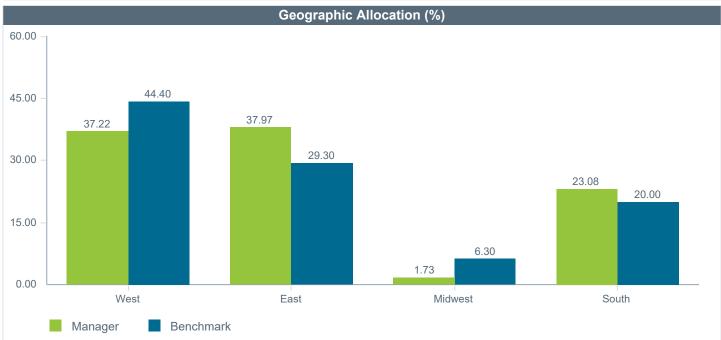
Manager: PGIM Real Estate PRISA II (CF)
Benchmark: NCREIF ODCE Index (AWA) (Gross)

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 (mm) \$	17,546
Fund Leverage %	34.20
Portfolio Occupancy %	90.51
Cash Reserve %	1.95
Number of Investments	160
Number of Limited Partners	112





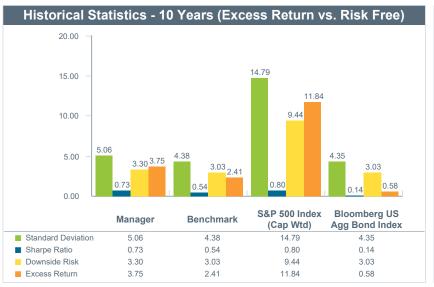
Performance shown is gross of fees and product specific. Calculation is based on quarterly periodicity. Investment profile data shown is provided by the investment manager and is as of the most recently available quarter end. Allocation data shown is based on NAV. Manager allocation to "Other" consists 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.



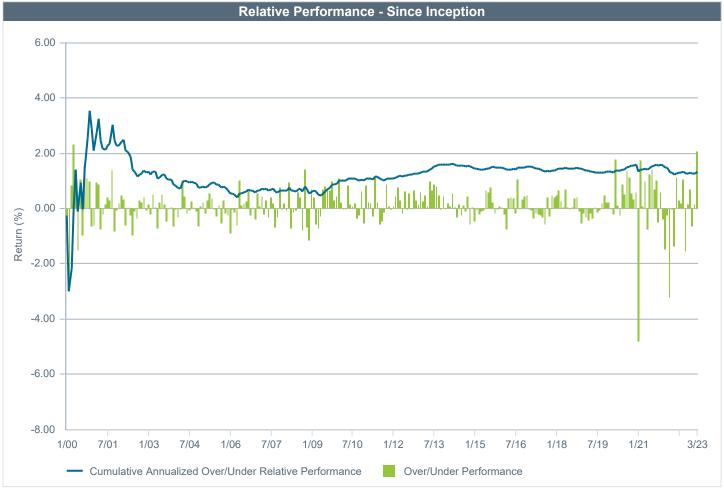
Manager: Grosvenor Institutional Partners (CF)

Benchmark: HFN FOF Multi-Strat Index (Net)

Performance											
	QTD	1 Year	3 Years	5 Years	7 Years	10 Years	2022	2021	2020	2019	2018
Manager	1.62	1.44	8.77	4.51	5.33	4.59	-5.76	7.87	17.24	6.14	-1.38
Benchmark	0.10	-0.54	7.68	3.51	4.07	3.23	-1.35	6.77	9.79	6.75	-3.58
Difference	1.52	1.98	1.09	1.00	1.26	1.36	-4.41	1.10	7.45	-0.61	2.20



Actual Correlation - 10) Years
	Actual Correlation
HFN FOF Multi-Strat Index (Net)	0.84
S&P 500 Index (Cap Wtd)	0.61
Russell 2000 Index	0.61
MSCI EAFE Index (USD) (Net)	0.60
MSCI Emg Mkts Index (USD) (Net)	0.48
Bloomberg US Agg Bond Index	0.10
Bloomberg US Trsy US TIPS Index	0.16
Wilshire US REIT Index	0.36
HFRI FOF Comp Index	0.84
Bloomberg Cmdty Index (TR)	0.31
ICE BofAML 3 Mo US T-Bill Index	-0.14
Cons Price Index (Unadjusted)	-0.08



Performance shown is net of fees and product specific. Calculation is based on monthly periodicity.



Kansas City Police Employees' Retirement Systems Grosvenor FOB

Investment Strategy

Grosvenor manages a customized hedge fund of fund portfolio for KCPERS, Grosvenor FOB Fund. The customized portfolio is structured to meet KCPERS specific needs of seeking a superior absolute and risk-adjusted rate of return, with low performance volatility, low correlations with global equity and fixed-income markets, over a full market cycle, and to preserve capital during challenging market environments. Specifically, the Fund seeks to generate a return of treasury bills + 600 basis points over a full market cycle, an annualized standard deviation of less than 10%, and a beta to equity markets of less than 0.4.

Fund Details as of 3/31/2023

Asset Allocation

Fund Assets (USD millions): 126 Inception Date: August 1, 2014

Currency: USD

Number of Investment Managers: 23 Number of Portfolio Funds: 23

Style Mandate: Broad Mandate Multi-Strategy Portfolios

Portfolio Type: Offshore Non-Plan Asset Top 10 Investment Managers % of NAV: 58.60 Top 20 Investment Managers % of NAV: 91.12

Strategy		А	llocation as of 3/31/2023		
Equities		40.7%			
Macro			4.3%		
Credit			12.7%		
Relative Value			28.5%		
Multi-Strategy			9.0%		
Quantitative			0.0%		
Uninvested			4.1%		
Other			0.8%		
	Strategy Pe	erformance At	tribution		
	QTD Rate Of Return	QTD Contrib to Rate Of Return	YTD Contrib to Rate Of Return	Allocation as of 3/31/2023	
Equities	3.33%	1.34%	1.34%	40.7%	
Macro	-9.22%	-0.53%	-0.53%	4.3%	
Credit	1.48%	0.14%	0.14%	12.7%	
Relative Value	3.34%	0.97%	0.97%	28.5%	
Multi-Strategy	1.51%	0.13%	0.13%	9.0%	
Quantitative				0.0%	
Commodities				0.0%	
Uninvested				4.1%	
Other	-1.18%	-0.01%	-0.01%	0.8%	
TOTAL	1.82%	2.04%	2.04%	100%	

0.0%4.1%0.8%	■Equities
9.0%	■Macro
	■ Credit
40.7%	■ Relative Value
28.5%	■ Multi-Strategy
	■Quantatative
	■Uninvested
12.7%	Other

Derivatives Report - Exposure Table					
Exposure Category			Notional		
Exposure Category	Long	Short	Gross	Net	
U.S. / Canada	98.9	83.9	182.8	15.0	
Latin America	1.2	1.0	2.2	0.2	
Europe - Developed	62.6	33.8	96.4	28.8	
Europe - Emerging	0.2	0.4	0.6	-0.2	
Asia - Japan	5.1	19.6	24.7	-14.5	
Asia - Developed ex Japan	11.1	3.3	14.4	7.8	
Asia - Emerging	4.0	2.9	6.9	1.1	
Middle East/Africa	0.1	0.2	0.3	-0.1	
Global	29.2	23.5	52.7	5.7	
Portfolio Fund Cash	-	-	-	-	
Grosvenor Fund Cash	-	-	-	-	
Tail Risk Protection	-	-	-	-	
Total Grosvenor Fund	212.4	168.6	381.0		

Fund Liquidity Schedule as of 3/31/2023 - (with lockup)						
	Amount	%	Cumulative %			
Daily	5,111	4.06	4.06			
Monthly	13,473	10.71	14.77			
Quarterly	42,028	33.40	48.17			
Semi-annually	13,144	10.45	58.61			
Annually	25,266	20.08	78.69			
Every 18 Months	3,902	3.10	81.79			
Biannually	3,902	3.10	84.89			
Triannually	0	0.00	84.89			
Other	12,263	9.75	94.64			
Designated/Illiquid	6,746	5.36	100.00			

Data is as of 3/31/2023 unless otherwise noted. Notional exposures will differ slightly from Grosvenor due to rounding.



Addendum & Glossary



As of March 31, 2023

Kansas City Police Employees' Retirement Systems Addendum

Performance Related Comments

- Performance shown for composites is net of fees, unless otherwise noted. Performance shown for managers is gross of fees except for Grosvenor Institutional Partners (CF) and Private Equity, which are shown net of fees.
- RVK began monitoring the assets and performance of Kansas City Police Employees' Retirement System in 07/2013.
- Performance shown on manager pages reflect the Police Retirement System for all funds.
- Gross performance shown for White Oak Fixed Income C LP differs from the manager's due to a difference in performance calculation methods.
- Performance shown for Financial Counselors may differ from what is reported by the manager due to differences in bond pricing between the manager and the custodian.
- Performance for White Oak Fixed Income C LP, Morgan Stanley Prime Property (CF), PGIM Real Estate PRISA II (CF), Abbott Capital Private Equity LP (CF), and J.P. Morgan Private Equity III (CF) is reported on a quarterly basis. Performance for Direct Lending and Private Equity is not yet available.

Index Comments

- The Target Allocation Indices are calculated monthly and currently consists of 38% MSCI ACW IM Index (USD) (Net), 31% Bloomberg US Agg Bond Index, 7% ICE BofAML 3 Mo US T-Bill Index+5%, 13% NCREIF ODCE Index (AWA) (Net), and 11% Long Term Absolute Return Custom Benchmark.
 - Prior to 07/2020, the Target Allocation Indices consisted of 37% MSCI ACW IM Index (USD) (Net), 30% Bloomberg US Agg Bond Index, 5% ICE BofAmL 3 Mo US T-Bill Index+5%, 11% NCREIF ODCE Index (AWA) (Net), 15% Long Term Absolute Return Custom Benchmark, and 2% Cambridge US Prvt Eq Index (1 Qtr Lag).
 - Prior to 04/2018, the Target Allocation Indices consisted of 37% MSCI ACW IM Index (USD) (Net), 30% Bloomberg US Agg Bond Index, 5% Real Return Custom Benchmark, 11%NCREIF ODCE Index (AWA) (Net), 15% Long Term Absolute Return Custom Benchmark, and 2% Cambridge US Prvt Eq Index (1 Qtr Lag).
 - Prior to 07/2017, the Target Allocation Indices consisted of 35% MSCI ACW IM Index (USD) (Net),
 30% Bloomberg US Agg Bond Index, 5% Real Return Custom Benchmark, 10% NCREIF ODCE Index (AWA) (Net),
 15% Long Term Absolute Return Custom Benchmark, and 5% Cambridge US Prvt Eq Index (1 Qtr Lag).
 - Prior to 11/2014, the Target Allocation Indices consisted of 35% MSCI ACW IM Index (USD) (Net),
 30% Bloomberg US Agg Bond Index, 5% Real Return Custom Benchmark, 10% NCREIF Property Index,
 15% Long Term Absolute Return Custom Benchmark, and 5% Cambridge US Prvt Eq Index (1 Qtr Lag).
 - Prior to 07/2014, the Target Allocation Indices consisted of 35% MSCI ACW IM Index (USD) (Net),
 30% Bloomberg US Agg Bond Index, 5% Real Return Custom Benchmark, 10% NCREIF Property Index, 15% HFRI FOF Comp Index, and 5% Cambridge US Prvt Eq Index (1 Qtr Lag).
 - Prior to 03/2014, the Target Allocation Indices consisted of 15% S&P 500 Index (Cap Wtd), 11% Russell 2000 Index, 10% MSCI EAFE Index (USD) (Net), 10% MSCI Emg Mkts Index (USD) (Net), 24% Bloomberg A+ US Gov't/Crdt Index, 5% ICE BofAML US Hi Yld Master II Index, 5% Real Return Custom Benchmark, 5% NCREIF Property Index, 10% HFRI FOF Composite Index, 3% Venture Economics All Private Equity Index (1 Qtr Lag), and 2% FTSE 3 Mo T-Bill Index.
- The Long Term Absolute Return Custom Benchmark consists of 100% ICE BofAML 3 Mo US T-Bill Index+5.
 - Prior to 07/2020, the Long Term Absolute Return Custom Benchmark consisted of 70% ICE BofAML 3 Mo US T-Bill Index+5% and 30% Consumer Price Index+5%.
- The Absolute Return Custom Benchmark is calculated monthly using beginning of month manager weights applied to each corresponding benchmark return.
- ICE BofAML 3 Mo US T-Bill Index+5% benchmark for Direct Lending and White Oak Fixed Income Fund C L.P. assumes a 0.00% return during interim quarter months and when corresponding fund performance is not yet available.

Market Value Comments

- Market values shown for White Oak Fixed Income C LP is as of 12/31/2022.
- Market values shown for Abbott Capital Private Equity LP (CF) and J.P. Morgan Private Equity III (CF) are as of 12/31/2022, adjusted for subsequent cash flows.

Miscellaneous Comments

- Fidelity Strat RI Rtn (FSRRX) was liquidated on 03/30/2018 and White Oak Fixed Income C LP was funded with the proceeds.
- ICE BofAML 3 Mo US T-Bill Index+5% benchmark for Direct Lending and White Oak Fixed Income C LP assumes a 0.00% return during interim quarter months and when corresponding fund performance is not yet available.
- GMO:Bchmk-Fr All;III (GBMFX) was liquidated on 06/24/2020.
- GQG Partners Emg Mkts Eq (CF) was incepted on 10/21/2020.
- On 10/30/2020, assets invested in WTC-CIF II US Sm Cap 2000 Series 1 (CF) and WTC-CTF Intl Sm Cap Research Equity (CF) were liquidated and used to fund WTC-CTF Global Perspectives (CF). LSV Emg Mkts Equity (CF) and LSV Emg Mkts Sm Cap Equity (CF) were liquidated on 11/23/2020 and 11/20/2020, respectively.



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	Explanation	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
<u>Liquid Investments</u>		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	5
US SMid Cap Equity	85	Private Credit	5
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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