Oklahoma Police Pension & Retirement System

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Investment Performance Review

September 30, 2020



We are proud to announce that ACG has been named a Greenwich Associates Quality Leader - recognized as one of the top consultants in the industry. This award is based on a number of factors, and a culmination of extensive nationwide interviews with institutional investors. We are grateful to have been given this honor.

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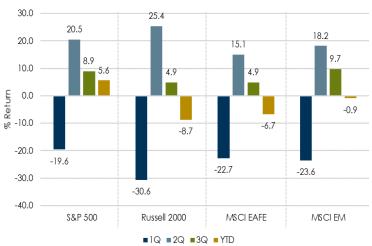
Global Long-Only Equity

Despite a weaker September, resulting in part from concerns around news of continued spread of COVID-19, 3Q global equity returns were positive as a broad appetite for risk remained through most of the quarter. Supporting the generally risk-on environment was the continued, unprecedented policy support, both fiscal and monetary, worldwide. Market volatility remains elevated compared to pre-COVID levels, as the market seems to be focusing on any news related to a COVID vaccine and the US elections. Given the many unknowns and unclear path of economic growth and recovery, Growth stocks also continued to lead the Value peers that tend to be more cyclical. Looking out for the balance of the year, we expect COVID vaccine progress and the upcoming US general elections will undoubtedly take center stage for investors and increase volatility.

US Large Caps led in 3Q within the Domestic space with an advance of 8.9% besting Small Caps 4.9% return by 400 bps. On a **YTD basis, Large Caps** have been able to overcome the 1Q challenges and return to **positive** territory in part due to the outsized strength and size of Tech related companies. Small Caps have not been as fortunate, sitting at the worst decline this year worldwide at -8.7% on the heels of significant pressure in 1Q.

International Markets advanced on **gains in both Emerging and Developed Markets**. Emerging Market equities (MSCI EM Index) posted a healthy 9.70% return, followed by International Developed equities (MSCI EAFE index), which posted a more modest 4.88% return. Currency translation boosted US Dollar-denominated returns in both regions but was more pronounced for the EM index.

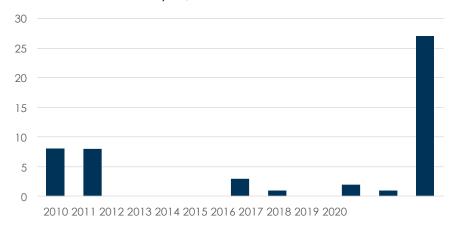
Global Equities Continued Higher in 3Q Following the 2Q Rapid Rise



Sources: Bloomberg, ACG Research

Global Long/Short Equity

Number of Days with Greater Than +/- 3% Moves in the S&P



Sources: Bloomberg, ACG Research

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Volatility in the market (measured by the VIX) returned to **near the 20-year historical average** in 3Q, and MSCI ACWI **global equity** performance is **just above zero** for the year. This current status, however, **does not reflect the day-to-day market turbulence** in the year so far, as noted in the chart on the left. We anticipate this **higher volatility to continue to be the norm** for the foreseeable future as the election draws closer and uncertainty continues to dominate in many areas. All else being equal, an increase in market **volatility helps generate opportunities** on both the long and short side so equity long/short managers stand to benefit.

Equity long/short managers generally **had a good quarter**, supported by strong downside protection in September. Despite the market volatility both gross and net **exposure remain higher** than the historical average. Typically in the quarter prior to the presidential election short exposure to indices increases as managers attempt to retain flexibility/liquidity if they need to reposition quickly.

Style exposure remains a major contributor to performance as managers continue to be **overweight to** momentum/growth, especially **Technology** (which is at its highest level in the past ten years).

Global positioning continues to be tilted toward the US but Asia exposure remains elevated relative to the historical average as managers search for new growth opportunities.

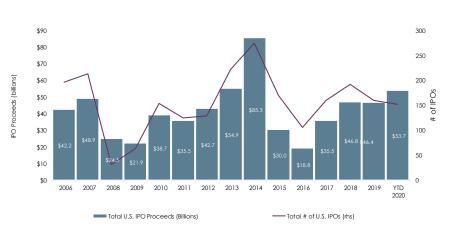
Global Private Equity

The pandemic-driven freeze in new private equity transaction activity in the second quarter began to thaw over the summer. Although private equity deal value through 3Q is down about 20% versus last year's total, momentum is clearly building behind the rebound and transaction activity appears to be poised for a very active fourth quarter. This dynamic breaks with typical election year patterns where private equity deal activity often slows toward year-end as sponsors take a wait and see approach.

The US IPO market is in full boom mode as the third quarter racked up 81 IPOs and \$28.5 billion of proceeds, the busiest third quarter since the Dot-com era. The market remains wide open for healthcare, technology and consumer companies. Moving into the fourth quarter the outlook remains good as numerous notable private companies are lined up to debut including Airbnb, DoorDash and others who have confidentially filed. In fact the IPO window is so open that alternative listing methods including SPACs and direct listings are experiencing a surge in investor interest.

Full year fundraising appears as if it will fall short of 2019's record pace but the V-shaped recovery of US equity markets will both comfort private equity investors and drive the need for continued new commitments to keep pace with their now recovered portfolio values. Like their public company counterparts, performance for most private equity funds made a strong recovery in 2Q which is poised to continue as 3Q returns benefit from better comps and a more stable economic outlook.

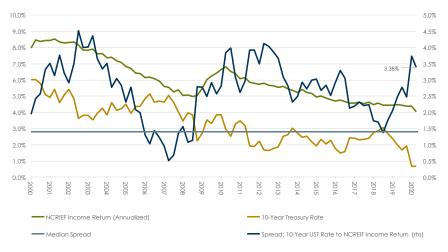
US IPO Market



Sources: Renaissance Capital, ACG Research

Global Real Assets

NCREIF Income Return Spread to Treasuries



Sources: NCREIF, ACG Research

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In the second quarter the NCREIF Property Index posted its first negative return in over a decade as the income return of 1.01% was not enough to overcome negative appreciation of 2.00%. The index ended the quarter down -0.99%. Returns were negative for all property types except industrial which delivered a modest 1.02% gain. Rent collections suffered across all property types. Apartment, industrial and office assets fared best with modest declines of 1% - 4%. However, rent collections for retail assets fell over 12% and over 48% for hotels. The drop in rent collections drove a decrease in the NCREIF annualized income return (a proxy for cap rates) from 4.40% in 1Q to 4.04% in 2Q.

Transaction activity stalled as only 30 properties (out of 8,652) in the index were bought or sold in the quarter. In most quarters well over 100 properties typically transact. Without normal activity, appraisers are finding it difficult to pinpoint values and depreciation risk will continue until the market reopens more fully.

The FTSE NAREIT US REIT index continued its rebound with a +1.5% return in the third quarter, but still remains one of the worst performing equity sectors with a negative - 13.8% YTD return.

The Bloomberg Commodity Index (BCOM) rose 9.1% in 3Q, outperforming the BloomBar US Aggregate Bond Index by 8.5% and the MSCI ACWI by 0.8% while underperforming the S&P 500 by 0.1%. Nymex oil rose 2.4% in 3Q but still remains down -34.1% for the year. **Gold continued its run with a +4.8% gain in the quarter and an impressive 23.9% gain for the year**.

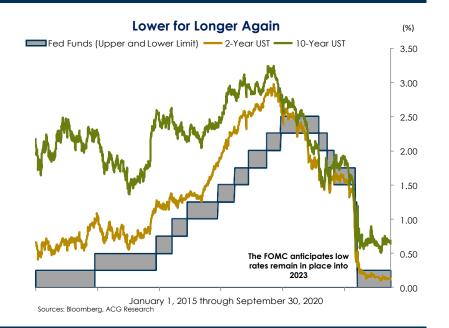
Global Traditional Bond Markets

During the quarter, the Fed formally announced its plan to transition to average inflation

targeting as part of its long-term policy framework. With this change, investors solidified expectations that **low rates will continue well into the future**, with the Fed's own expectations showing the Fed Funds rate remaining at the current target range of 0-0.25% through 2023. Yield on the 10-year US Treasury gained 3 basis points across the quarter, while 2 and 5-year rates fell slightly resulting in a slightly steeper slope on the 2-10 portion of the yield curve.

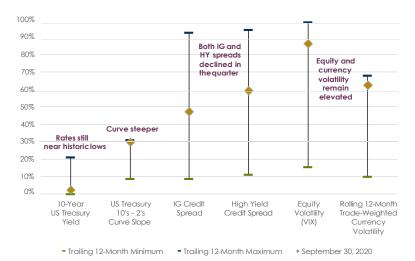
The Q2 rebound in credit assets continued into the first part of Q3, though overall tightening across the quarter proceeded at a more moderate pace than in Q2, particularly after weakness in September saw credit positions give back some of their gains from the first part of the quarter. The **BloomBar US Aggregate** rose 0.6% across the quarter while the index's yield-to-worst declined by about 7 basis points to 1.18% by the end of the quarter. Lower quality credit generated larger gains, as the **BloomBar US High Yield** index rose 4.6% for the quarter, despite the weakness in September. High yield spreads tightened from 626 to 477 basis points at the end of August, before widening back out in September to close the quarter at 517 basis points. Spreads remain above the pre-crisis low.

Municipal/treasury yield ratios saw further compression during the quarter but remain above long-term averages. The **BloomBar Municipal Bond** index gained 1.2% in Q3. **Unhedged Global** government bonds generated strong gains in Q3. **Emerging Market** bonds generated further gains and in some cases have recovered their Q1 losses.



Global Nontraditional Fixed Income

Percentile Rankings of Observations for Past 15-Years



Sources: Bloomberg, ACG Research

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Unconstrained fixed-income strategies continued the positive recovery momentum in the third quarter. Most managers outperformed the Bloombar US Aggregate index during the quarter. The average return for the group was similar to the BloomBar Multiverse index (+2.6% for our unconstrained manager group vs +2.7% for the Multiverse index). Most managers in the category are now in positive territory on a year-to-date basis. Given an expectation for low interest rates to continue for some time, the **low duration exposure in this category may move from being a hindrance to a benefit**. Market volatility could create **additional opportunities** as investors assess the impact of elections, Covid, and potential US fiscal policy support. We continue to believe that diversification of risk factors within portfolios remains valuable, as this aids in downside protection and reduces key correlations.

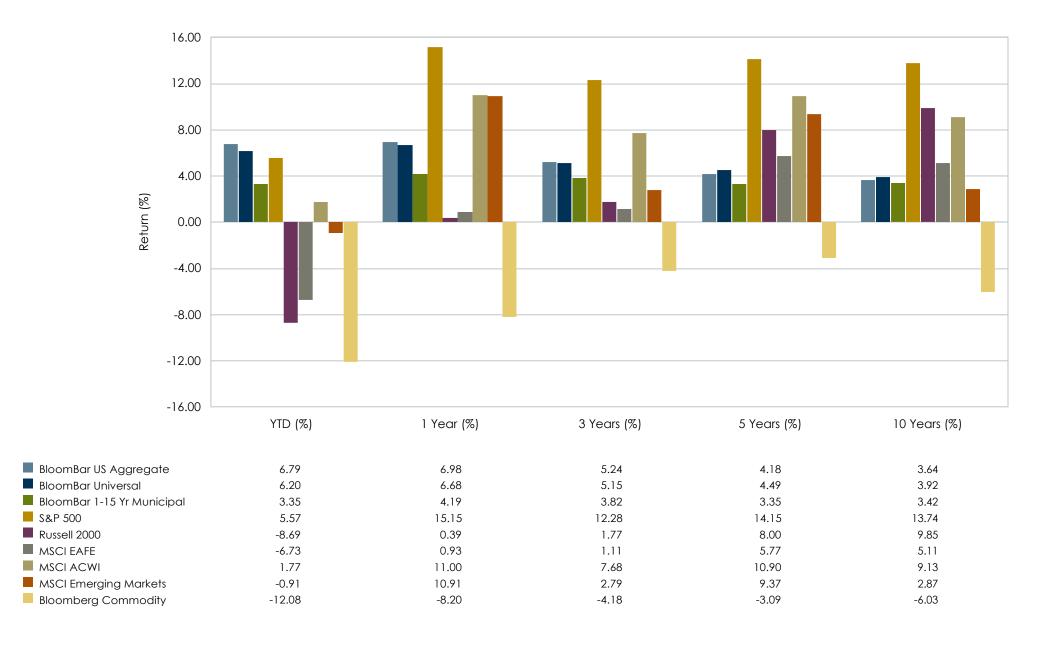
Long/Short Credit strategies continued their rebound in the third quarter and several funds have returned to profitability on a YTD basis. While the recovery in securitized credit was slow to got started after the March drawdown managers in the space saw agains continue into the

get started after the March drawdown, managers in the space saw gains continue into the third quarter, largely avoiding the volatility experienced by other spread-sensitive sectors in September. As spreads have tightened, managers have grown increasingly choosy about the positions they decide to keep in portfolios. Current sentiment favors maintaining liquidity and flexibility as investors look toward upcoming potential opportunities around market volatility and longer-term opportunities in distressed credit.

Although the third quarter brought a rebound in activity to the institutional loan market, the amount of new issue leveraged loans remained below normal levels due to a stalled M&A market. However, **improving market sentiment drove a pricing rebound. The average spread for a B+/B rated new loan tightened to L+388** by quarter end, well inside the L+600 levels seen in April.

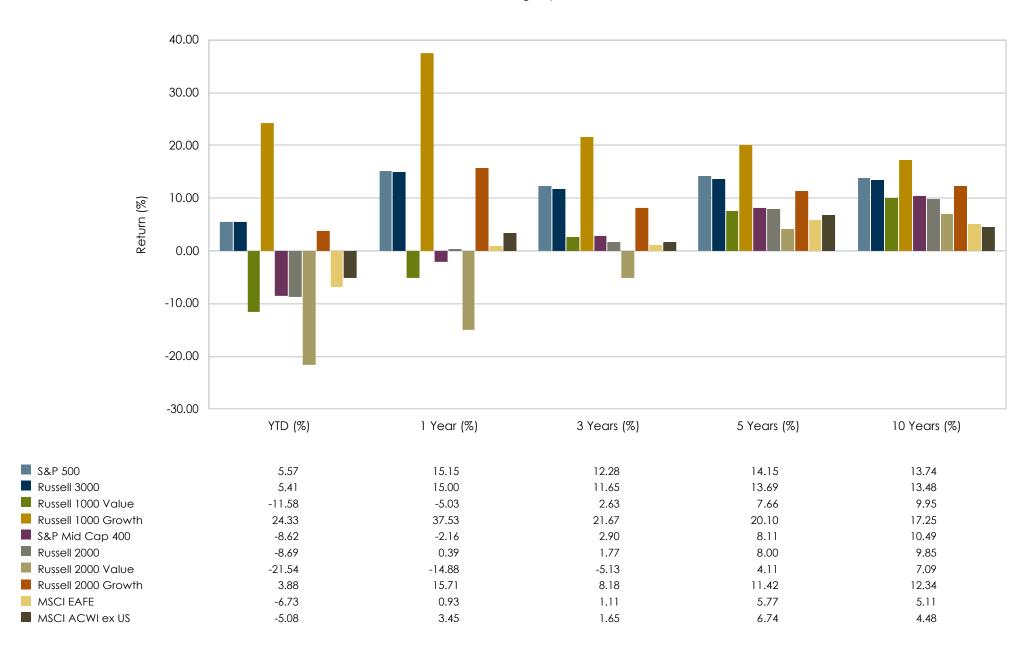
Market Environment

For the Periods Ending September 30, 2020



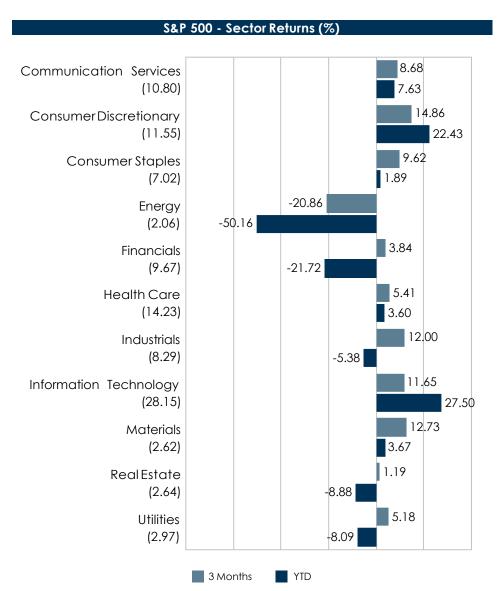
Equity Index Returns

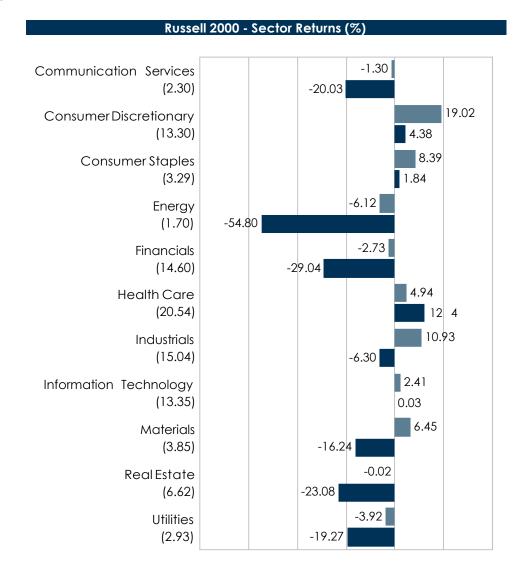
For the Periods Ending September 30, 2020



US Markets - Performance Breakdown

For the Periods Ending September 30, 2020

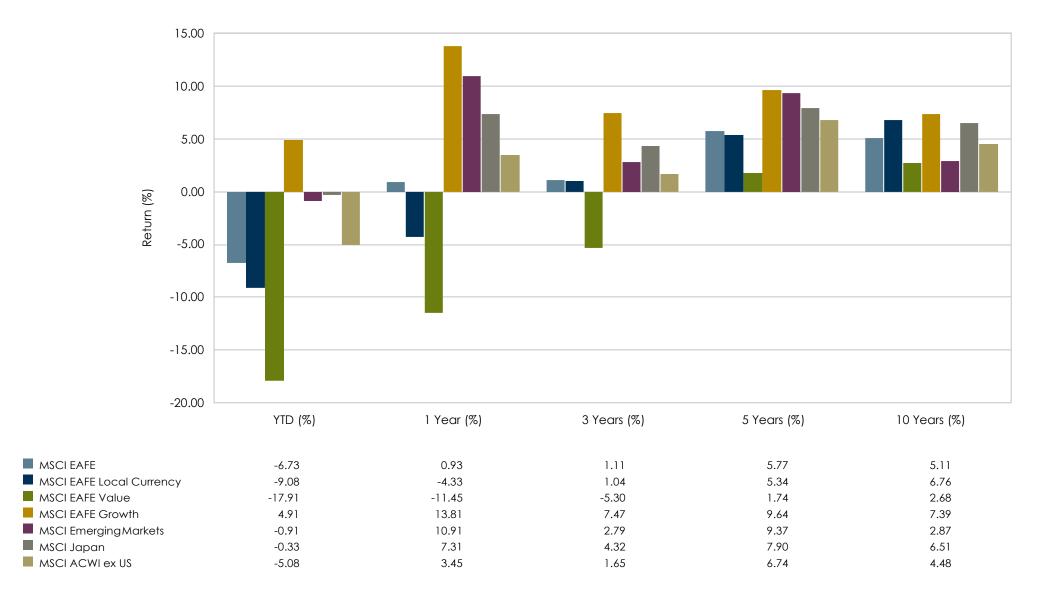




Numbers in parenthesis represent sector weightings of the index. Sector weights may not add to 100% due to rounding or securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

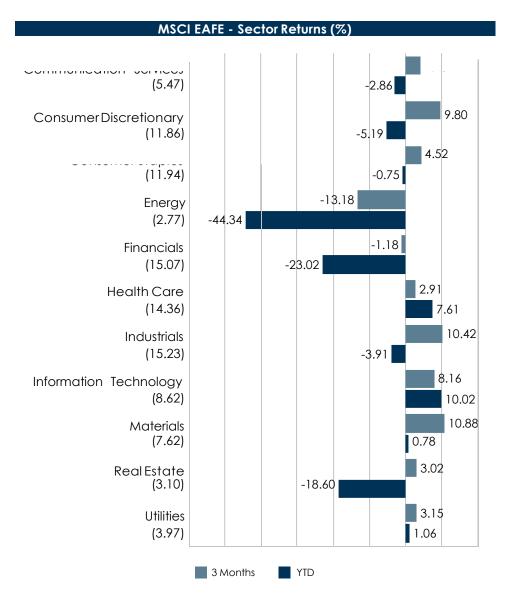
Non-US Equity Index Returns

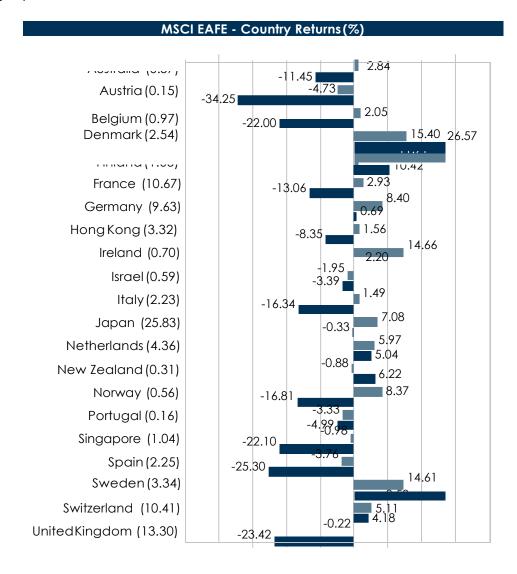
For the Periods Ending September 30, 2020



Non-US Equity - Performance Breakdown

For the Periods Ending September 30, 2020

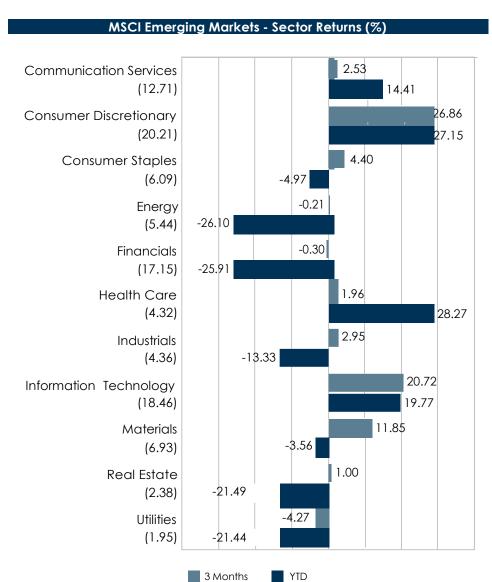




Numbers in parenthesis represent sector or country weights of the index. Sector or country weights may not add to 100% due to rounding.

Emerging Markets - Performance Breakdown

For the Periods Ending September 30, 2020



MSCI Emerging Markets - Country Returns (%) 6.67 Argentina (0.12) Brazil (4.56) -40.81 -4.17 **■** Chile (0.51) -25.48 12.56 China (41.94) -1.22 Colombia (0.17) -45.26 **•** -5.02 Czech Republic (0.09) -27.52 4.58 Egypt (0.11) -18.20 3.41 Greece (0.13) -37.04 -8.94 Hungary (0.19) -36.53 15.11 India (8.25) -4.35 -6.81 Indonesia (1.24) -29.80 **■** 2.59 Malaysia (1.72) -5.82 4.65 Mexico (1.64) -25.00 12.38 Pakistan (0.02) -22.62 3.54 Peru (0.23) -26.59 -2.57 Philippines (0.74) -20.57 -0.87 Poland (0.64) -23.91 7.47 Qatar (0.81) Russia (3.03) -27.57 **•** 9.37 Saudi Arabia (2.78) -5.31 3.74 South Africa (3.54) -21.05 South Korea (12.09) Taiwan (12.78) Thailand (1.77) Turkey (0.34)

United Arab Emirates (0.56)

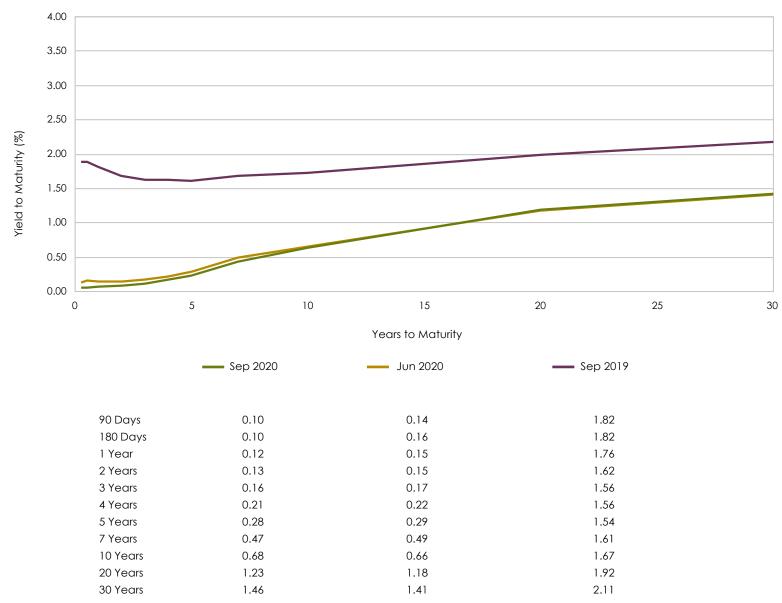
Numbers in parenthesis represent sector or country weights of the index. Sector or country weights may not add to 100% due to rounding.

6.21

- 0.44

Interest Rate Term Structure

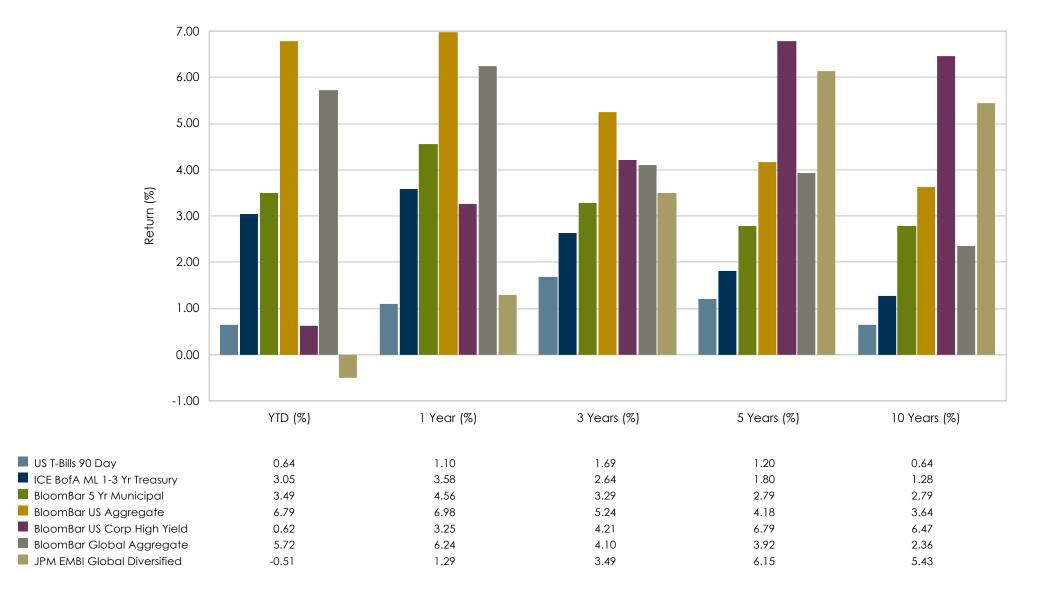
Government Issues - 3 Months to 30 Years Maturity



Source: Bloomberg

Fixed Income Index Returns

For the Periods Ending September 30, 2020



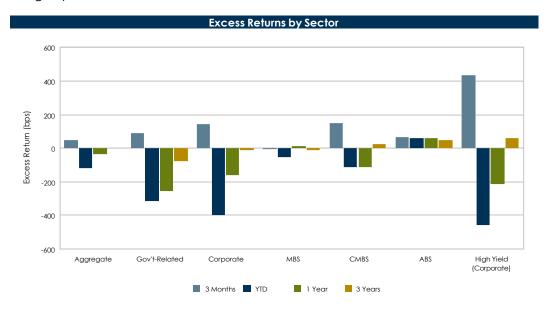
US Fixed Income Market Environment

For the Periods Ending September 30, 2020

No	minal Returns By S	Sector (%)		
	3 Months	<u>YTD</u>	1 Year	3 Years
US Aggregate	0.62	6.79	6.98	5.25
US Treasury	0.17	8.89	8.03	5.49
US Agg: Gov't-Related	1.07	4.98	5.23	4.81
US Corporate IG	1.53	6.61	7.88	6.39
MBS	0.11	3.63	4.37	3.69
CMBS	1.71	6.98	6.63	5.42
ABS	0.80	4.14	4.55	3.47
US Corp High Yield	4.60	0.64	3.28	4.21

	Nominal Returns by (Quality (%)		
	3 Months	<u>YTD</u>	<u>1 Year</u>	3 Years
AAA	0.20	6.77	6.58	4.78
AA	0.91	6.99	6.96	5.66
A	1.18	7.66	8.43	6.31
BAA	2.10	5.17	6.94	6.37
BA	4.02	4.25	6.80	5.66
В	4.53	-1.17	1.41	3.96
CAA	7.35	-6.95	-3.47	-0.33

	Nominal Returns by N	Maturity (%)		
	3 Months	<u>YTD</u>	1 Year	3 Years
1-3 Yr.	0.16	2.84	3.43	2.76
3-5 Yr.	0.36	5.01	5.57	4.01
5-7 Yr.	0.79	7.31	7.85	5.10
7-10 Yr.	1.31	9.37	9.34	6.45
10+ Yr.	1.22	14.22	12.94	10.26





Source: Bloomberg

Excess returns are relative to the duration-neutral Treasury.

Monthly Index Returns

For the Periods Ending September 30, 2020

Index Name	3 Months (%)	YTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)
Equity							
S&P 500	8.93	5.57	15.15	12.28	14.15	12.68	13.74
Russell 1000	9.47	6.40	16.01	12.38	14.09	12.54	13.76
Russell 1000 Growth	13.22	24.33	37.53	21.67	20.10	17.39	17.25
Russell 1000 Value	5.59	-11.58	-5.03	2.63	7.66	7.35	9.95
Russell 2500	5.88	-5.82	2.22	4.45	8.97	7.70	10.81
Russell 2000	4.93	-8.69	0.39	1.77	8.00	6.42	9.85
Russell 2000 Growth	7.16	3.88	15.71	8.18	11.42	9.22	12.34
Russell 2000 Value	2.56	-21.54	-14.88	-5.13	4.11	3.27	7.09
Wilshire 5000 Cap Wtd	9.14	5.54	15.12	11.70	13.83	12.25	13.50
MSCI ACWI	8.25	1.77	11.00	7.68	10.90	8.42	9.13
MSCI ACWI ex US	6.36	-5.08	3.45	1.65	6.74	3.66	4.48
MSCI EAFE	4.88	-6.73	0.93	1.11	5.77	3.49	5.11
MSCI EAFE Local Currency	1.30	-9.08	-4.33	1.04	5.34	5.55	6.76
MSCI EAFE Growth	8.48	4.91	13.81	7.47	9.64	6.61	7.39
MSCI EAFE Value	1.30	-17.91	-11.45	-5.30	1.74	0.24	2.68
MSCI Emerging Markets	9.70	-0.91	10.91	2.79	9.37	4.12	2.87
Fixed Income							
ICE BofA ML 1-3 Yr Treasury	0.10	3.05	3.58	2.64	1.80	1.52	1.28
BloomBar 5 Yr Municipal	1.28	3.49	4.56	3.29	2.79	2.82	2.79
BloomBar US Aggregate	0.62	6.79	6.98	5.24	4.18	3.97	3.64
BloomBar Gov't Bond	0.18	8.81	7.97	5.47	3.73	3.52	3.10
BloomBar US Credit	1.50	6.39	7.50	6.19	5.75	5.26	4.92
BloomBar 10 Yr Municipal	1.27	3.77	4.59	4.44	4.01	4.38	4.22
BloomBar US Corp High Yield	4.60	0.62	3.25	4.21	6.79	5.33	6.47
FTSE World Govt Bond	2.94	7.14	6.77	4.37	3.95	2.22	1.86
BloomBar Global Aggregate	2.66	5.72	6.24	4.10	3.92	2.47	2.36
BloomBar Multiverse	2.71	5.31	5.99	4.00	4.08	2.57	2.50
JPM EMBI Global Diversified	2.32	-0.51	1.29	3.49	6.15	5.64	5.43
Real Assets							
NCREIF Property	0.74	0.45	2.01	5.11	6.28	7.98	9.37
NFI ODCE Net	0.27	-0.75	0.51	4.25	5.69	7.62	9.25
FTSE NAREIT US Real Estate	1.44	-17.54	-18.16	0.20	3.95	6.05	7.90
Bloomberg Commodity	9.07	-12.08	-8.20	-4.18	-3.09	-7.24	-6.03
Cash and Equivalents							
US T-Bills 90 Day	0.04	0.64	1.10	1.69	1.20	0.86	0.64

Monthly Index Returns

For the Periods Ending October 31, 2020

Index Name	1 Month (%)	YTD (%)	1 Year (%)	3 Years (%)	5 Years (%)	7 Years (%)	10 Years (%)	
Equity								
S&P 500	-2.66	2.77	9.71	10.42	11.71	11.53	13.01	
Russell 1000	-2.41	3.83	10.87	10.63	11.79	11.46	13.05	
Russell 1000 Growth	-3.40	20.11	29.22	18.77	17.32	16.09	16.31	
Russell 1000 Value	-1.31	-12.74	-7.57	1.94	5.82	6.50	9.48	
Russell 2500	1.81	-4.11	2.12	4.54	8.18	7.48	10.60	
Russell 2000	2.09	-6.77	-0.14	2.19	7.27	6.36	9.64	
Russell 2000 Growth	0.76	4.67	13.37	7.90	10.36	9.06	11.95	
Russell 2000 Value	3.58	-18.74	-13.92	-4.05	3.71	3.32	7.06	
Wilshire 5000 Cap Wtd	-2.20	3.22	10.18	10.09	11.59	11.22	12.82	
MSCI ACWI	-2.41	-0.68	5.42	6.08	8.70	7.43	8.48	
MSCI ACWI ex US	-2.13	-7.11	-2.19	0.29	4.76	2.81	3.91	
MSCI EAFE	-3.98	-10.44	-6.46	-0.76	3.35	2.41	4.31	
MSCI EAFE Local Currency	-3.91	-12.64	-9.59	-1.26	2.92	4.47	6.14	
MSCI EAFE Growth	-3.95	0.76	5.53	5.25	7.04	5.61	6.61	
MSCI EAFE Value	-4.02	-21.21	-17.97	-6.82	-0.51	-0.92	1.87	
MSCI Emerging Markets	2.08	1.15	8.62	2.32	8.31	3.72	2.78	
Fixed Income								
ICE BofA ML 1-3 Yr Treasury	-0.05	3.00	3.19	2.64	1.81	1.50	1.25	
BloomBar Municipal	-0.30	3.02	3.59	4.09	3.70	4.16	3.99	
BloomBar US Aggregate	-0.45	6.32	6.19	5.06	4.08	3.78	3.55	
BloomBar Gov't Bond	-0.92	7.81	6.90	5.18	3.61	3.31	3.01	
BloomBar US Credit	-0.22	6.15	6.66	5.99	5.60	5.01	4.88	
BloomBar 10 Yr Municipal	-0.31	3.45	4.11	4.26	3.86	4.22	4.24	
BloomBar US Corp High Yield	0.51	1.13	3.49	4.24	6.32	5.03	6.25	
FTSE World Govt Bond	-0.18	6.95	6.00	4.49	3.92	2.05	1.70	
BloomBar Global Aggregate	0.10	5.82	5.63	4.26	3.90	2.35	2.24	
BloomBar Multiverse	0.09	5.41	5.34	4.15	4.02	2.43	2.38	
Real Assets								
Bloomberg Commodity	1.41	-10.85	-8.75	-4.41	-2.73	-6.86	-6.36	
Cash and Equivalents								
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Total Portfolio Summary

Total Portfolio

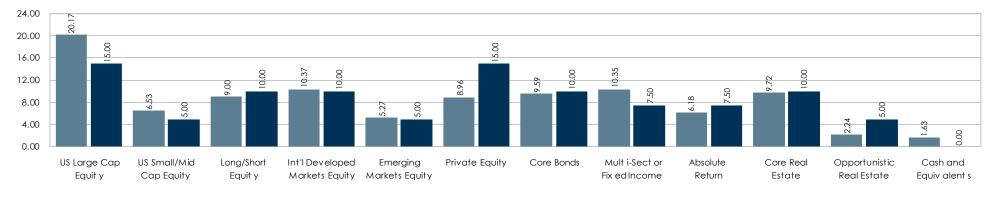
Dollar Reconciliation (\$000s)

For the Periods Ending September 30, 2020

	FYTD	YTD	5 Years	10 Years
Beginning Market Value	2,601,626	2,716,417	2,143,630	1,647,553
Net Additions	-23,335	-54,489	-288,691	-495,845
Return on Investment	136,448	52,812	859,800	1,563,031
Ending Market Value	2,714,739	2,714,739	2,714,739	2,714,739

Total Portfolio

For the Period Ending September 30, 2020



■ Actual Allocation ■ Target Allocation

	Market Value (\$000s)	Actual Allocation (%)	Target Allocation (%)	Over/Under Target (%)	Range Min-Max (%)
Total Portfolio	2,714,739	100.00	100.00		
Equity	1,636,755	60.29	60.00	0.29	50.00 - 70.00
US Large Cap Equity	547,442	20.17	15.00	5.17	10.00 - 20.00
US Small/Mid Cap Equity	177,354	6.53	5.00	1.53	0.00 - 15.00
Long/Short Equity	244,451	9.00	10.00	-1.00	5.00 - 15.00
Int'l Developed Markets Equity	281,406	10.37	10.00	0.37	5.00 - 15.00
Emerging Markets Equity	142,970	5.27	5.00	0.27	0.00 - 10.00
Private Equity	243,131	8.96	15.00	-6.04	5.00 - 20.00
Fixed Income	709,081	26.12	25.00	1.12	15.00 - 35.00
Core Bonds	260,383	9.59	10.00	-0.41	5.00 - 15.00
Multi-Sector Fixed Income	281,029	10.35	7.50	2.85	2.50 - 12.50
Absolute Return	167,669	6.18	7.50	-1.32	2.50 - 12.50
Real Assets	324,584	11.96	15.00	-3.04	10.00 - 20.00
Core Real Estate	263,867	9.72	10.00	-0.28	5.00 - 15.00
Opportunistic Real Estate	60,717	2.24	5.00	-2.76	0.00 - 10.00
Cash and Equivalents	44,320	1.63	0.00	1.63	

Total Portfolio

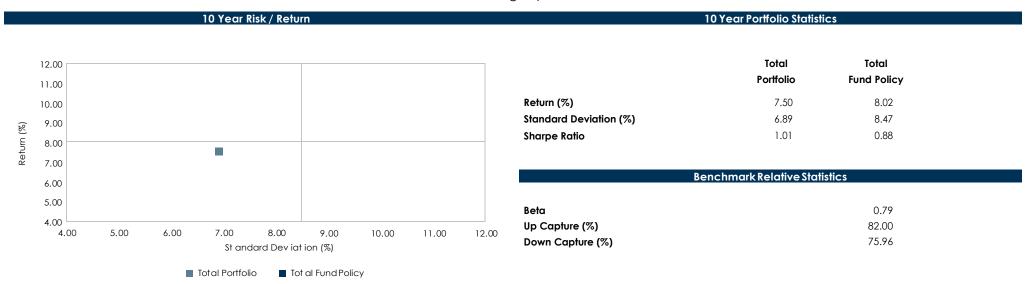
For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

Total Portfolio

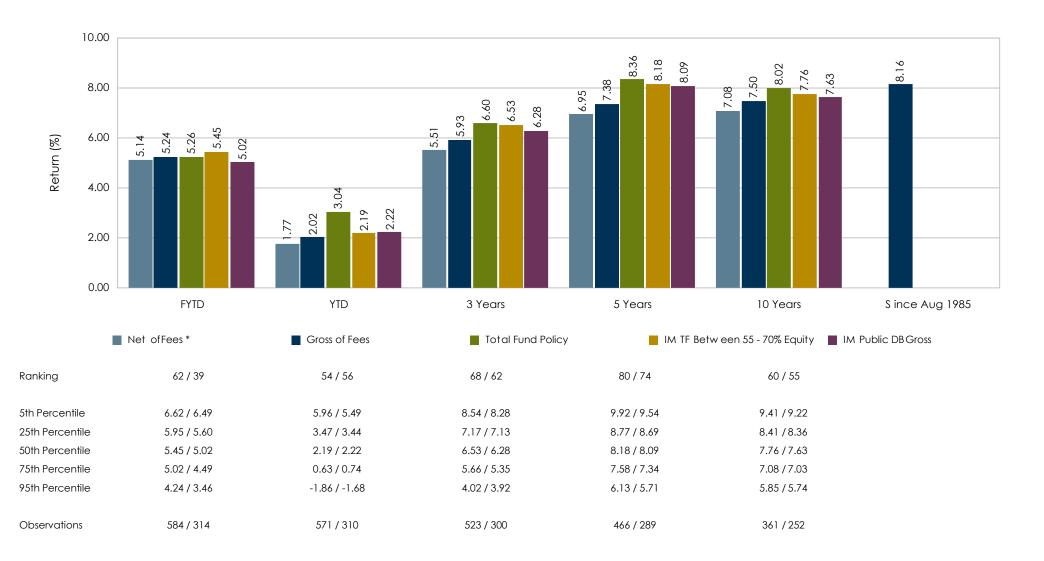
For the Periods Ending September 30, 2020





Total Portfolio

For the Periods Ending September 30, 2020

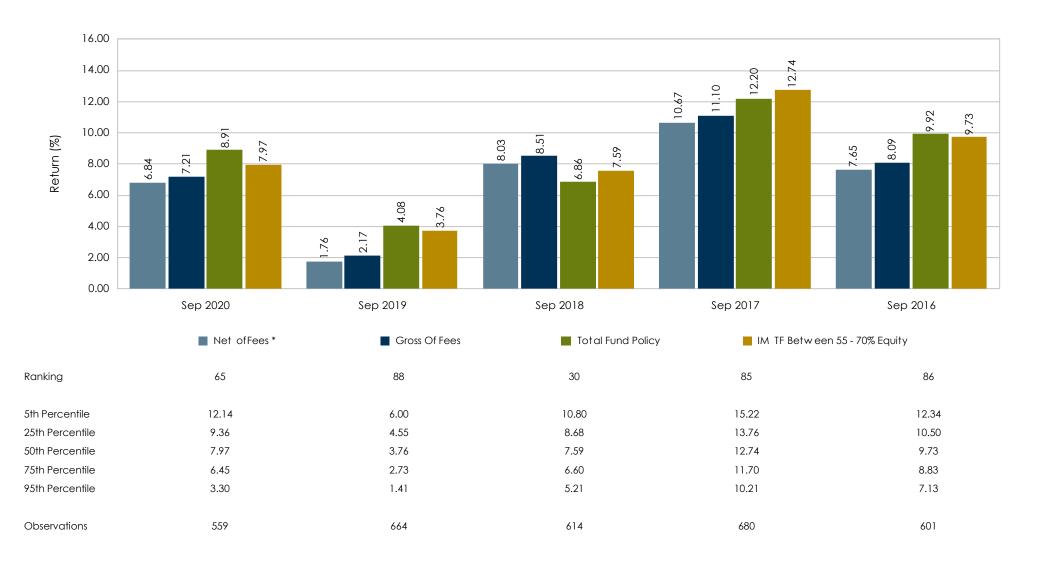


The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

^{*} Performance is calculated using net of fee returns.
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Total Portfolio

For the One Year Periods Ending September



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

^{*} Performance is calculated using net of fee returns. © 2020 Asset Consulting Group All Rights Reserved

For the Periods Ending September 30, 2020

	Market Value (\$000s)	Actual Allocation (%)	FYTD (%)	Rank	YTD (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)	Rank Sin	ce Incp (%)
Total Portfolio * (06/05) 1	2,714,739	100.00	5.14		1.77		5.51		6.95		7.08		6.24
Total Portfolio (08/85)			5.24 6	2 / 39	2.02 5	54 / 56	5.93	68 / 62	7.38 8	0 / 74	7.50	60 / 55	8.16
Total Fund Policy ²			5.26		3.04		6.60		8.36		8.02		
IM TF Between 55 - 70% Equity			5.45		2.19		6.53		8.18		7.76		
IM Public DB Gross			5.02		2.22		6.28		8.09		7.63		
Equity (01/98)	1,636,755	60.29	7.99		2.69		7.59		9.61		9.53		6.77
MSCI ACWI			8.25		1.77		<i>7</i> .68		10.90		9.13		6.53
US Large Cap Equity	547,442	20.17											
Northern Trust Russell 1000 Index (08/98) $^{\rm 3}$	547,442	20.17	9.45	30	6.36	35	12.37	35	14.09	29	13.76	38	7.42
Russell 1000			9.47		6.40		12.38		14.09		13.76		7.36
eA US Large Cap Core Equity			8.16		3.81		11.01		13.10		13.35		
US Small/Mid Cap Equity	177,354	6.53											
Boston Partners (01/98)	78,856	2.90	6.63	15 / 12	-19.59	83 / 48	-3.18	84 / 45	4.56	77 / 48	8.90	69 / 40	8.11
Russell 2500 Value			3.54		-18.39		-2.69		4.65		8.01		7.50
eA US Mid Cap Value Equity			5.08		-14.75		0.25		6.38		9.72		
eA US Small Cap Value Equity			2.55		-19.80		-3.58		4.45		8.56		
Silvercrest (02/14)	98,498	3.63	9.82	40	14.73	42	14.64	44	17.05	31			9.81
Russell 2000 Growth			7.16		3.88		8.18		11.42		12.34		8.71
eA US Small Cap Growth Equity			9.00		11.07		13.60		15.12		14.75		
Long/Short Equity	244,451	9.00											
K2 Mauna Kea LLC * (04/20)	186,625	6.87	5.99										21.84
MSCI ACWI			8.25		1.77		7.68		10.90		9.13		29.24
HFRI FOF: Strategic			5.91		3.50		3.05		3.79		3.23		17.45

FYTD: Fiscal year ending June.

^{*} Net of fee return data.

For the Periods Ending September 30, 2020

	Market Value (\$000s)	Actual Allocation (%)	FYTD (%)	Rank	YTD (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)	Rank	Since Incp (%)
Grosvenor Long/Short Equity (11/03)	57,825	2.13	7.35		5.30		6.34		6.41		6.36		5.40
MSCI ACWI			8.25		1.77		7.68		10.90		9.13		8.08
HFRI FOF: Strategic			5.91		3.50		3.05		3.79		3.23		3.68
International Developed Market	281,406	10.37											
Mondrian International (05/04)	123,888	4.56	1.37	94	-18.69	98	-3.74	62	2.47	64	3.57	62	5.01
MSCI EAFE Value			1.30		-17.91		-5.30		1.74		2.68		3.97
eA EAFE All Cap Value Equity			3.48		-13.35		-3.24		2.94		4.68		
Barings Focused EAFE Plus Equity (03/12)	157,519	5.80	6.31	53	-1.52	35	3.45	33	7.95	29			5.42
MSCI EAFE NetDiv			4.80		-7.09		0.62		5.26		4.62		4.88
eA EAFE All Cap Equity			6.42		-3.98		2.01		6.37		6.28		
Emerging Markets Equity	142,970	5.27											
Wasatch Emerging Markets (09/12)	45,604	1.68	8.45	67	12.55	7	9.65	6	10.72	31			6.85
MSCI EM SC			12.04		-2.12		-0.73		4.95		1.34		3.49
eA Global Emerging Mkts Equity			9.56		-1.36		2.45		9.10		3.53		
AB EM Strategic Core Equity Fund (11/16)	97,367	3.59	12.51	16	2.46	29	1.20	64					5.86
MSCI Emerging Markets			9.70		-0.91		2.79		9.37		2.87		7.59
eA Global Emerging Mkts Equity			9.56		-1.36		2.45		9.10		3.53		
Private Equity (07/03)	243,131	8.96	8.74		4.39		11.14		8.76		11.14		11.66

For the Periods Ending September 30, 2020

	Market Value (\$000s)	Actual Allocation (%)	FYTD (%)	Rank	YTD (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)	Rank	Since Incp (%)
Fixed Income (01/98)	709,081	26.12	2.35		4.09		4.34		4.27		4.14		5.61
BloomBar Universal			0.99		6.20		5.15		4.49		3.92		5.23
Core Bonds	260,383	9.59											
Agincourt Core Fixed Income (10/99)	260,383	9.59	0.81	77	7.97	29	5.99	26	4.86	34	4.24	44	5.56
BloomBar US Aggregate			0.62		6.79		5.24		4.18		3.64		5.11
eA US Core Fixed Income			1.11		7.45		5.68		4.70		4.18		
Multi Sector Fixed Income	281,029	10.35											
Multi Sector Fixed Income													
Oaktree Global Credit Fund (02/98)	139,244	5.13	4.30		-1.89		1.80		4.80		5.36		6.51
Custom Blended Index ⁴			4.53		-0.19		1.86		2.16		2.63		4.56
Loomis Sayles (06/08)	88,932	3.28	4.11	36	8.30	12	5.10	29	5.39	38	3.12	62	4.03
FTSE World Govt Bond			2.94		7.14		4.37		3.95		1.86		2.76
eA All Global Fixed Income			3.50		4.09		4.21		4.85		3.72		
Private Credit (10/16)	52,853	1.95	2.76		5.70		7.82						7.85

For the Periods Ending September 30, 2020

	Market Value (\$000s)	Actual Allocation (%)	FYTD (%)	Rank	YTD (%)	Rank	3 Years (%)	Rank	5 Years (%)	Rank	10 Years (%)	Rank Since Incp
Absolute Return	167,669	6.18										
PAAMCO (10/02)	89,806	3.31	4.02		-0.58		1.62		1.80		3.26	4.51
BloomBar US Aggregate			0.62		6.79		5.24		4.18		3.64	4.40
HFRI FOF: Conservative			2.56		0.49		2.31		2.35		2.59	2.97
Wellington Global Total Return (12/16)	77,863	2.87	0.05	97	1.32	64	4.67	18				3.64
US T-Bills 90 Day + 4%			1.02		3.64		5.75		5.24		4.66	5.54
eA Global Unconstrained Fixed Income			2.79		2.44		3.25		4.05		3.36	
Real Assets (01/98)	324,584	11.96	-0.13		-1.88		3.23		4.54		5.42	5.35
Real Assets Blended Index ⁵			0.27		-0.75		2.47		2.92		5.04	5.60
Core Real Estate	263,867	9.72										
JP Morgan Strategic Property (12/07)	150,423	5.54	-0.03		-0.51		4.53		6.15		10.19	5.42
NFI ODCE Net			0.27		-0.75		4.25		5.69		9.25	4.17
NCREIF Property			0.74		0.45		5.11		6.28		9.37	6.05
Blackstone Property Partners (01/15)	113,444	4.18	-0.34		-1.39		6.23		8.97			10.12
NFI ODCE Net			0.27		-0.75		4.25		5.69		9.25	6.77
NCREIF Property			0.74		0.45		5.11		6.28		9.37	7.22
Opportunistic Real Estate	60,717	2.24										
Private Real Estate (08/11)	56,150	2.07	0.29		-0.18		8.50		8.89			8.46
Private Real Estate Direct												
Columbus Square (01/98)	4,567	0.17	-7.19		-5.83		1.96		5.01		8.86	12.19
NCREIF Property			0.74		0.45		5.11		6.28		9.37	8.88
NFI ODCE Net			0.27		-0.75		4.25		5.69		9.25	7.44
Cash and Equivalents	44,320	1.63										

For the Periods Ending September 30, 2020

Notes:

- ¹ Total Fund Policy Index history available in appendix.
- 2 Total Fund Policy: Effective September 2019, the index consists of 60.0% MSCI ACWI, 25.0% BloomBar Universal, 15.0% NFI ODCE Net.
- ³ Performance data prior to October 31, 2014 is reflective of the Mellon Capital Passive Index fund. Due to contributions and withdrawals in this account, the returns may differ from the performance of the fund.
- ⁴ Custom Blended Index: Effective November 2018, the index consists of 50.0% ICE BofA ML Global HY Const, 50.0% CSFB Leveraged Loan.
- 5 Real Assets Blended Index: Effective September 2019, the index consists of 100% NFI ODCE Net.

Equity Manager Performance

Northern Trust Russell 1000 Index

For the Periods Ending September 30, 2020

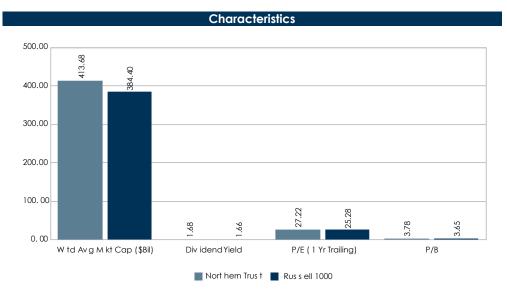
Account Description

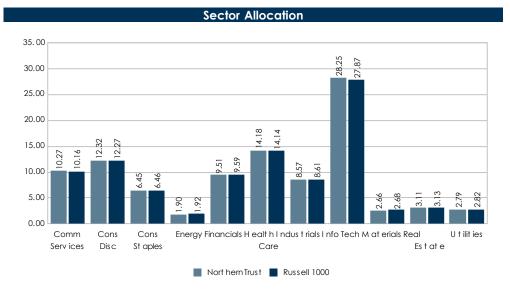
- Strategy US Large Cap Core
- Vehicle Non-Mutual Commingled
- Benchmark Russell 1000
- Performance Inception Date August 1998
- Fees 1 bps

Performance Goals

- Mirror the risk/return profile of the Russell 1000.
- Over rolling three year periods, rank above the median in the eA US Large Cap Core Equity universe.

Pollar Growth Summary (\$000s) FYTD YTD Beginning Market Value 500,201 514,727 Net Additions -13 -36 Return on Investment 47,254 32,751 Ending Market Value 547,442 547,442



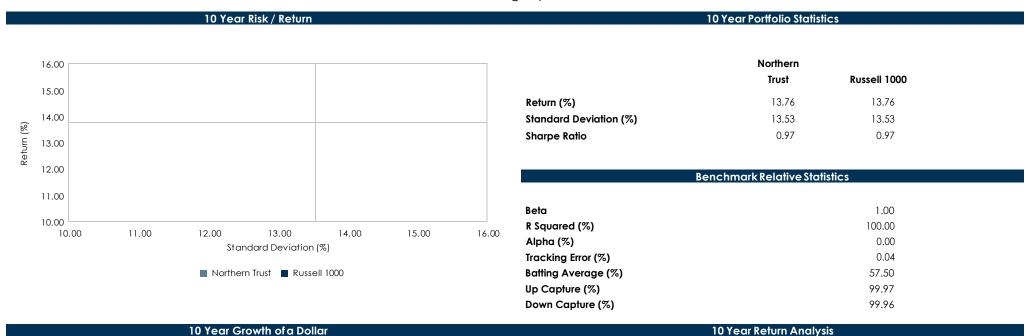


Characteristic and allocation charts represents data of the NorthernTrust Russell 1000 Index Fund (Non-Mutual Commingled).

Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

Northern Trust Russell 1000 Index

For the Periods Ending September 30, 2020

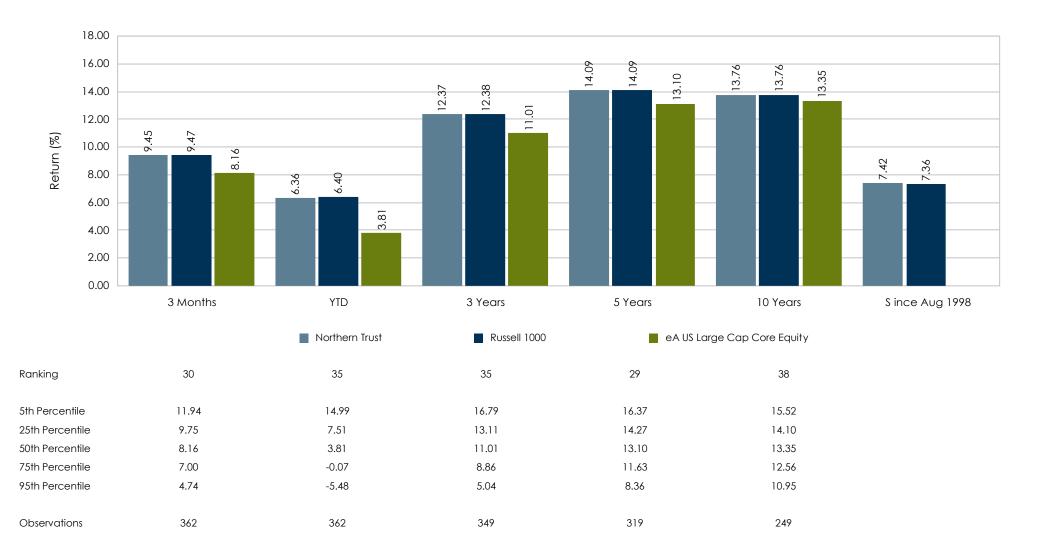


\$4.00						
\$3.60						
\$3.20					- ^~	
\$2.80					$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	-V
\$2.40					•	
\$2.00			~~~	,_ ~		
\$1.60						
\$1.20	~~~					
\$0.80						
M ar-10	Dec-11	Sep-13	Jun-15	M ar-17	Dec-18	Sep-20
		Northe	n Trust — Russ	all 1000		
		140111101	11 11 0 31	011 1 0 0 0		

	Northern Trust	Russell 1000
Number of Months	120	120
Highest Monthly Return (%)	13.21	13.21
Lowest Monthly Return (%)	-13.21	-13.21
Number of Positive Months	87	87
Number of Negative Months	33	33
% of Positive Months	72.50	72.50

Northern Trust Russell 1000 Index

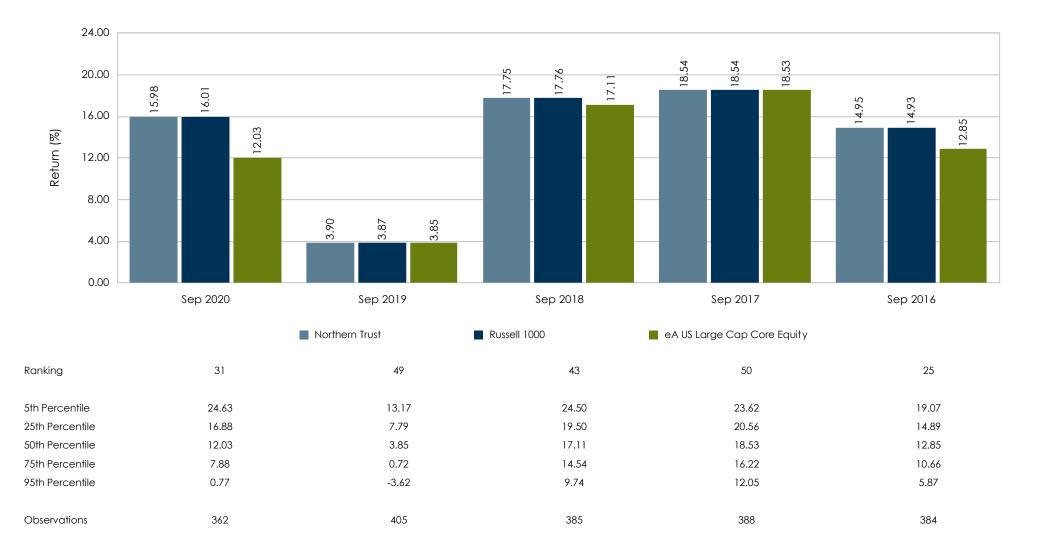
For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

Northern Trust Russell 1000 Index

For the One Year Periods Ending September



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the Periods Ending September 30, 2020

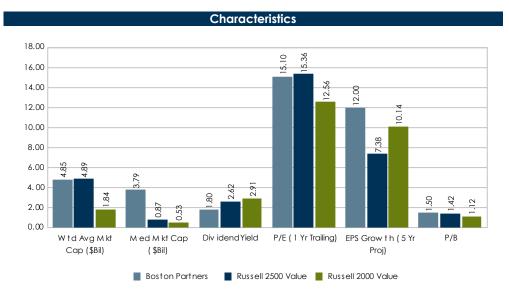
Account Description

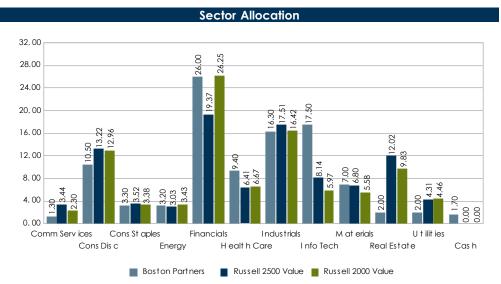
- Strategy US Small/Mid Cap Value
- Vehicle Separately Managed Account
- Benchmarks Russell 2500 Value and Russell 2000 Value
- Performance Inception Date January 1998
- Fees 60 bps base fee with annual performance fee

Performance Goals

- Outperform the Russell 2500 Value and Russell 2000 Value.
- Over rolling three year periods, rank above the median in the eA US Mid Cap Value Equity universe.

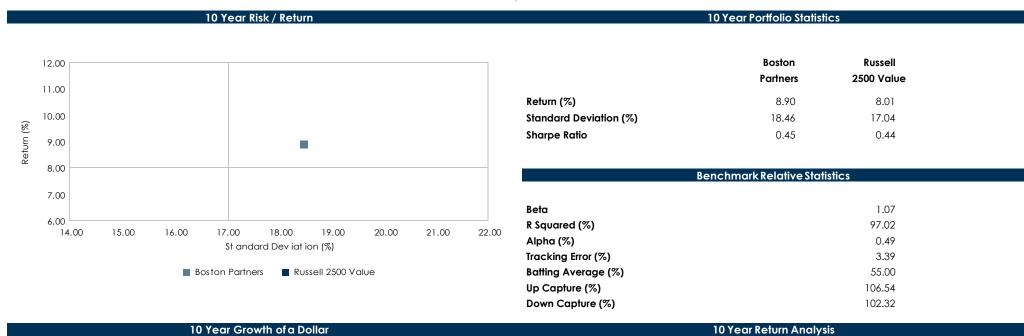
Dollar Growth Summary (\$000s) FYTD YTD **Beginning Market Value** 74.055 83.751 Net Additions -110 9,563 4,911 -14,458 Return on Investment 336 1.037 Income Gain/Loss 4,575 -15,495 **Ending Market Value** 78.856 78.856

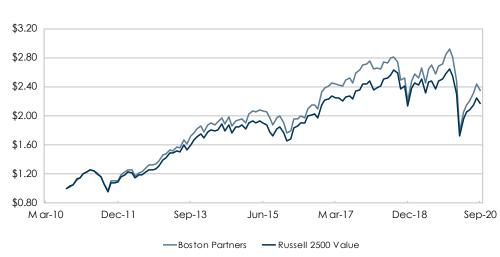




Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

For the Periods Ending September 30, 2020





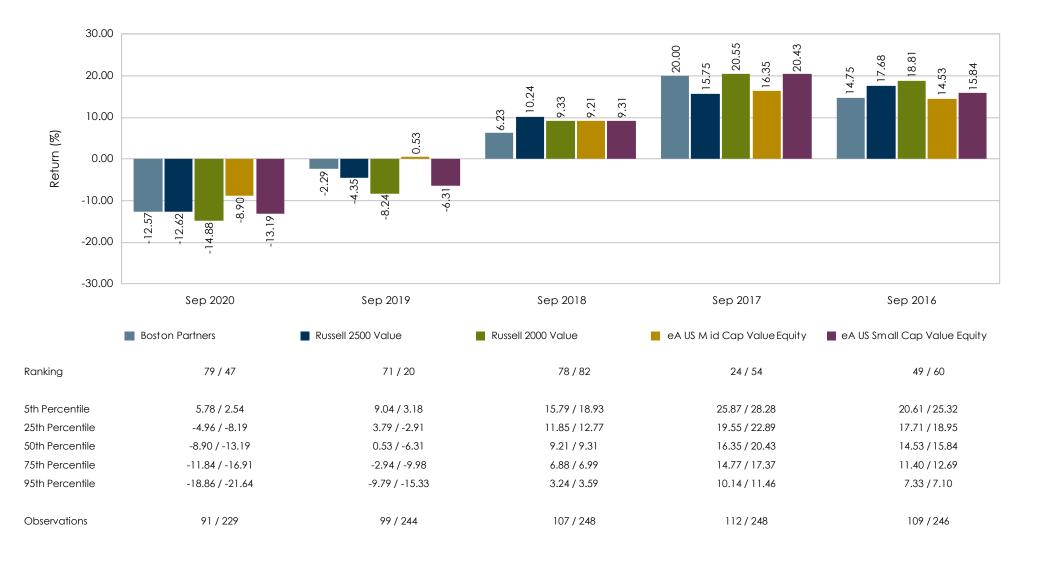
	Boston Partners	Russell 2500 Value
Number of Months	120	120
Highest Monthly Return (%)	14.97	13.92
Lowest Monthly Return (%)	-28.24	-24.93
Number of Positive Months	79	80
Number of Negative Months	41	40
% of Positive Months	65.83	66.67

For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the One Year Periods Ending September



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

Silvercrest

For the Periods Ending September 30, 2020

Account Description

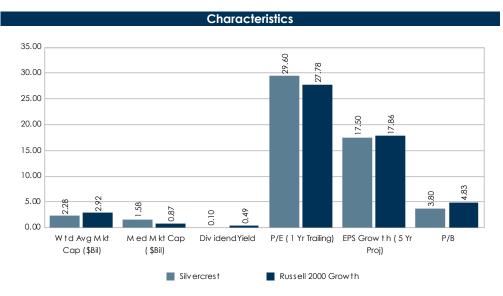
- Strategy US Small/Mid Cap Growth
- Vehicle Separately Managed Account
- Benchmark Russell 2000 Growth
- Performance Inception Date February 2014
- Fees First \$25M at 100 bps, next \$25M at 90 bps, balance at 80 bps

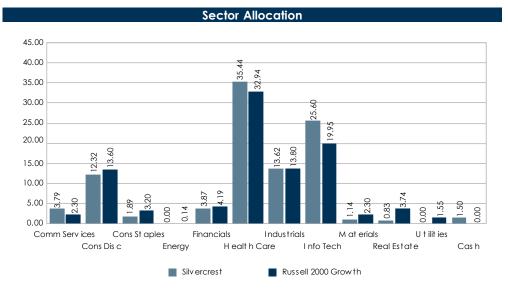
Performance Goals

- Outperform the Russell 2000 Growth.
- Over rolling three year periods, rank above median in the eA US Small Cap Growth Equity universe.

FYTD YTD Beginning Market Value 89.879 86.383 Net Additions -198 -535 Return on Investment 8,818 12,650 20 83 Income Gain/Loss 8,798 12.567 98,498 **Ending Market Value** 98.498

Dollar Growth Summary (\$000s)

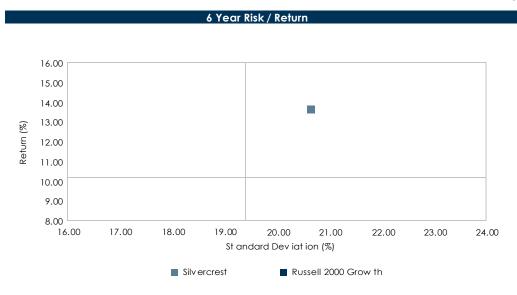




Sector weights may not add to 100% due to securities that are not assigned to a Global Industry Classification Standard (GICS) sector.

Silvercrest

For the Periods Ending September 30, 2020



		Russell
	Silvercrest	2000 Growth
Return (%)	13.68	10.16
Standard Deviation (%)	20.64	19.39
Sharpe Ratio	0.62	0.48

6 Year Portfolio Statistics

6 Year Return Analysis

	benchmark kelalive statistics	
Beta	1.02	
R Squared (%)	91.25	
Alpha (%)	3.26	
Tracking Error (%)	6.11	
Batting Average (%)	61.11	
Up Capture (%)	106.20	
Down Capture (%)	94.02	

\$2.40 \$2.20 \$2.00 \$1.80 \$1.60 \$1.40 \$1.20 \$1.00 \$0.80 M ar-14 Apr-15 May-16 Jun-17 Jul-18 Aug-19 Sep-20

- Russell 2000 Grow th

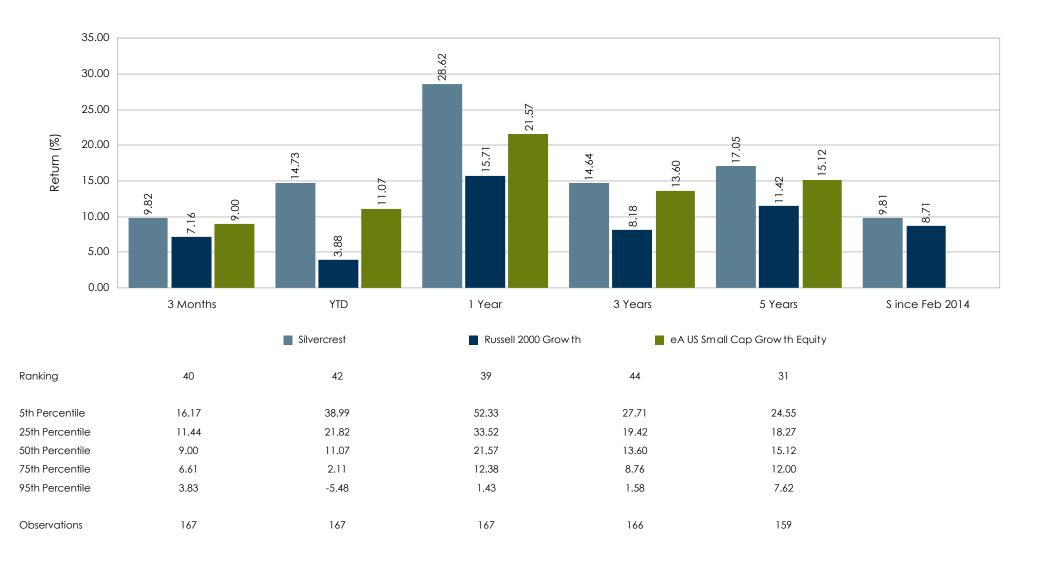
6 Year Growth of a Dollar

	Silvercrest	Russell 2000 Growth
Number of Months	72	72
Highest Monthly Return (%)	19.44	14.89
Lowest Monthly Return (%)	-21.44	-19.10
Number of Positive Months	49	49
Number of Negative Months	23	23
% of Positive Months	68.06	68.06

- Silv ercrest

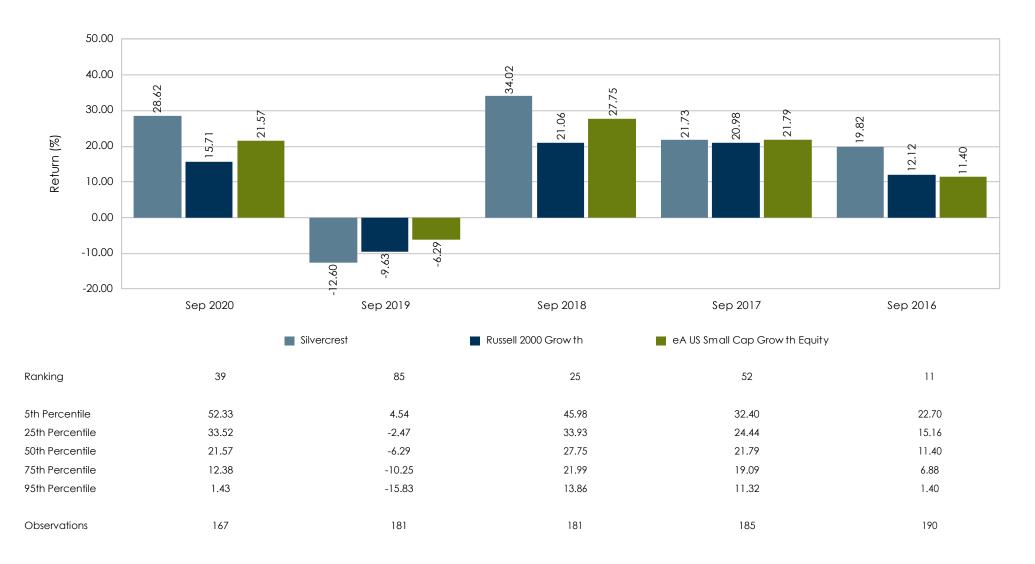
Silvercrest

For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

SilvercrestFor the One Year Periods Ending September



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

K2 Mauna Kea LLC

For the Periods Ending September 30, 2020

Account Description

- **Strategy** Long/Short Equity
- Benchmarks MSCI ACWI and HFRI FOF: Strategic
- Performance Inception Date April 2020
- Vehicle Non-Mutual Commingled
- Fees 20 bps

Performance Goals

 Perform similar to the broad Global Equity Markets as measured by the MSCI ACWI index.

Exhibit annualized volatility of approximately two-thirds or less than that of the MSCI ACWI Index as measured by standard deviation.

Exhibit low relative beta and correlation to the MSCI ACWI Index.

FYT Beginning Market Value 144,0 Net Additions 32,7		\$1.35
	54 0	
Not Additions 32.7	•	\$1.30
Net Additions 52,7	63 160,763	
Return on Investment 9,8	09 25,862	\$1.25
Ending Market Value 186,6	25 186,625	\$1.20
		\$1.15
		\$1.10
		\$1.05
		\$1.00
		Mar-20 Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20

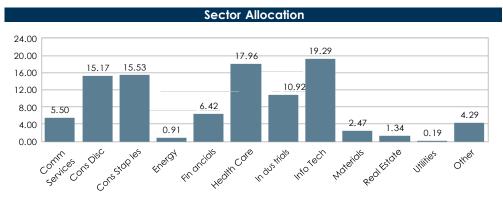
^{*} Performance is calculated using net of fee returns.
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K2 Mauna Kea LLC

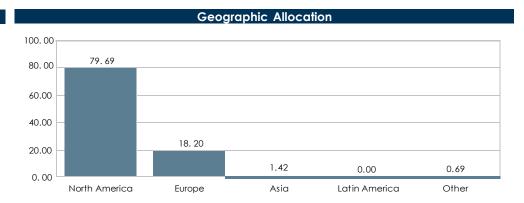
For the Periods Ending September 30, 2020

Manager Allocation					
Manager Alloca	alion				
	Market	Allocation			
Name	Value (\$000s)	(%)			
Total	186,625	100.00			
Southpoint Qualified Fund	22,081	11.83			
AKO Partners	21,685	11.62			
Engaged Capital Flagship Fund	21,420	11.48			
Tremblant Partners	19,451	10.42			
Suvretta Partners	17,988	9.64			
Starboard Value and Opportunity Fund	17,877	9.58			
Swiftcurrent Partners	15,493	8.30			
Trian Partners	15,111	8.10			
Jet Capital Concentrated Fund	13,579	7.28			
SQN Investors Fund	11,239	6.02			
Redmile Capital Fund	10,700	5.73			



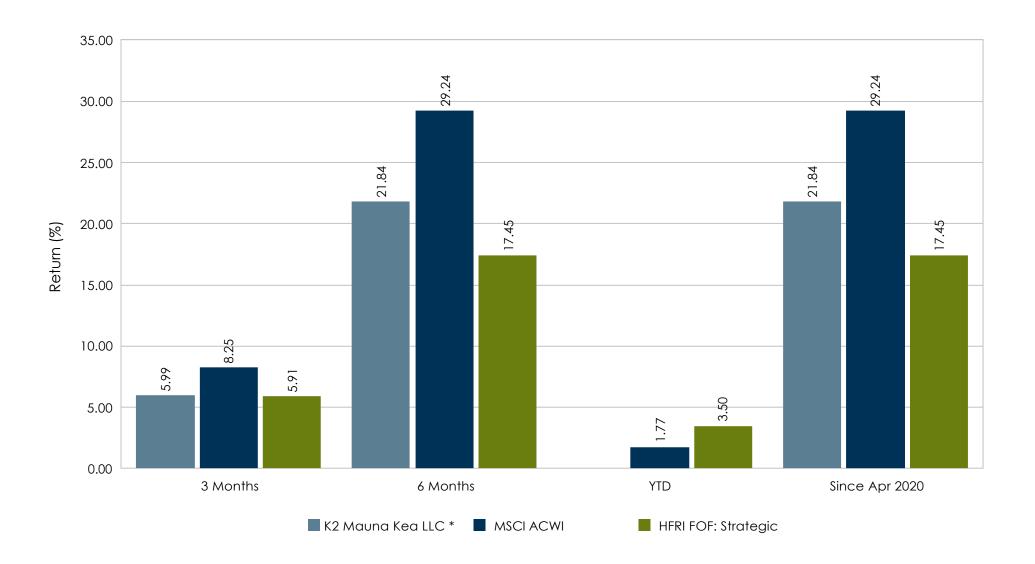


Net Dollar Growth Summary (\$000s)				
	3 Months	FYTD		
Beginning Market Value	144,054	144,054		
Net Additions	32,763	32,763		
Return on Investment	9,809	9,809		
Ending Market Value	186,625	186,625		



K2 Mauna Kea LLC

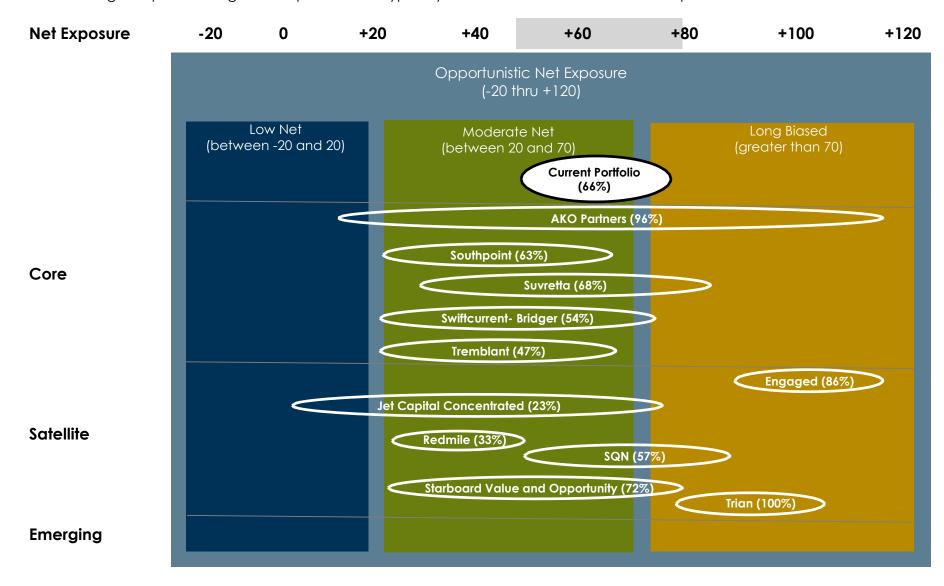
For the Periods Ending September 30, 2020



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Oklahoma Police Pension & Retirement System

When investing in the equity long/short asset class ACG recommends a portfolio that targets 2/3rds of the risk of the global equity market. The target exposure range of the portfolio will typically be between 50% and 80% net exposure.



Numbers in parentheses are the manager's current net exposure. The ellipticals illustrate the historical range of net exposure for each manager.

Core: typically fund is diversified by sector and /or region; Satellite: typically fund is concentrated and/or focused by sector/region or strategy; Emerging: typically fund has a short track record or small dollar amount.

Net Exposure equals Long Exposure minus Short Exposure. Gross Exposure equals Long Exposure plus Short Exposure.

Oklahoma Police Pension & Retirement System

When investing in the equity long/short asset class ACG recommends a portfolio of multiple managers that is **considers the following guidelines** in constructing a diversified portfolio.

Parameter	Guidelines/ Target Ranges	Current Weights
Number of Funds	Minimum 8, Maximum 20	11
Allocation per Fund	Minimum 5%, Maximum 20%	Within target range
Total Allocation per Type of Fund ¹	Core 40 to 80% Satellite 20 to 60% Emerging 0 to 20%	Core 52% Satellite 48% Emerging 0%
Diversification	Diversify by region, sector, market cap, idea generation	Diversified by region, sector, market cap, idea generation

Core: typically fund is diversified by sector and /or region; Satellite: typically fund is concentrated and/or focused by sector/region or strategy; Emerging: typically fund has a short track record or small dollar amount

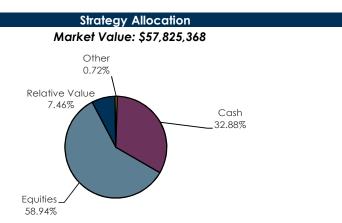
Net Exposure equals long positions minus short positions. Gross Exposure equals long positions plus short positions.

Summary of Underlying Fund Terms

Manager	Lockup	Post-Lock Liquidity	Management Fee	Incentive Fee	Redemption Penalty	Side Pocket
AKO	None	Quarterly	1.50%	17.50%	NA	None
Engaged	None	Quarterly w/ 25% investor level gate	1.75%	20% over 90% of the R2000	NA	None
Jet	One Year Soft	Monthly	1.50%	15%	3% in year one	None
Redmile	Two Year	Quarterly w/ 25% investor level gate	1.00%	20%	NA	None
Southpoint	None	Quarterly w/ 25% investor level gate	1.50%	20%	NA	None
SQN	One Year	Quarterly w/ 25% investor level gate	1.50%	20%	NA	Yes but no intention to use
Starboard	None	Quarterly	2.00%	20%	NA	None
Suvretta	One Year Soft	Quarterly	1.50%	20%	3% in year one	None
Swiftcurrent	One Year	Rolling One Year	1.50%	20%	5%*	None
Tremblant	None	Quarterly	1.00%	20%	NA	None
Trian	None	Quarterly	2.00%	20%	NA	None

^{* 5%} redemption penalty incurred if redeemed prior to anniv ersary date of any year

For the Periods Ending September 30, 2020



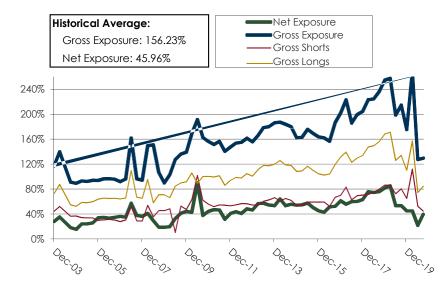
Strategy

- Equity Long/Short Hedge Fund of Funds
- Performance Inception Date: November 2003

Exposure

Net Exposure: 39.7%Gross Exposure: 129.5%

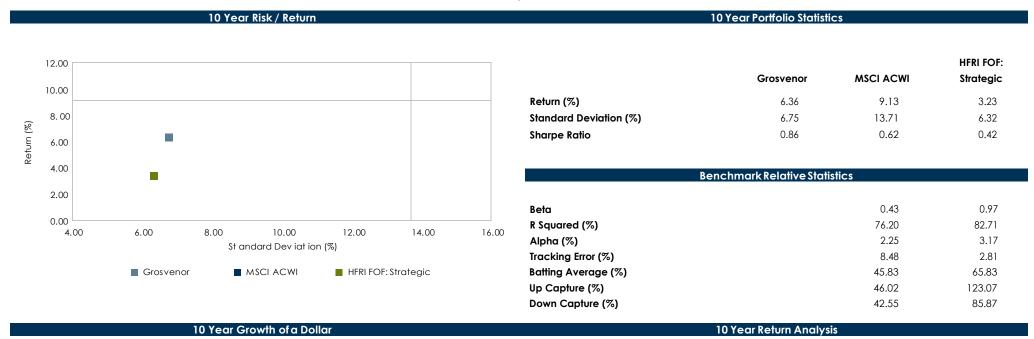
Historical Net & Gross Exposure



Performance Goals

- Meet or exceed the return of the MSCI All Country World, over extended time periods (5 to 10 years).
- The volatility (standard deviation) of the portfolio should be less than two-thirds the volatility of the MSCI All Country World.
- The Beta of the portfolio relative to the MSCI All Country World Index should be < 0.7.

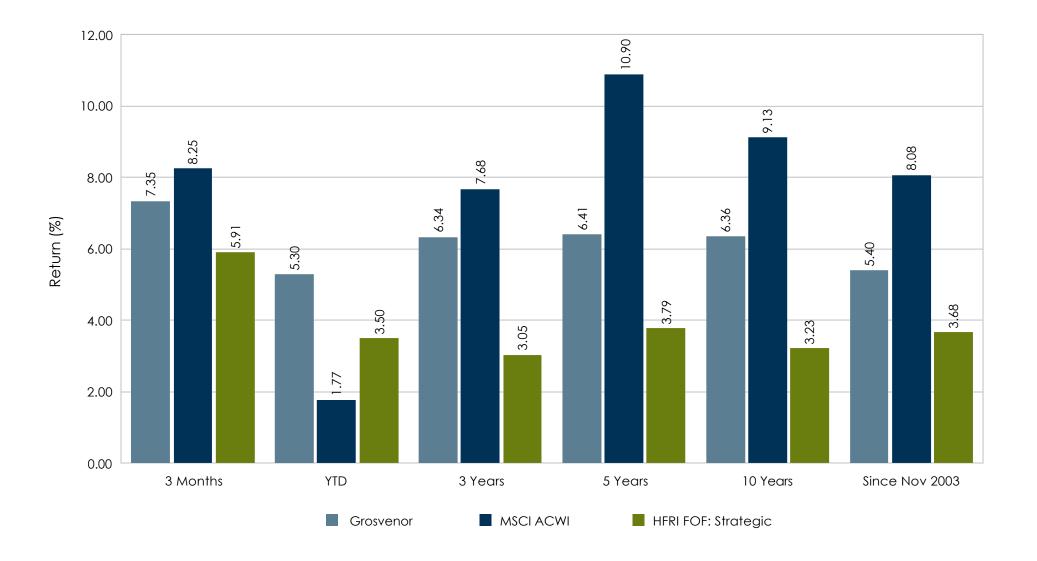
For the Periods Ending September 30, 2020



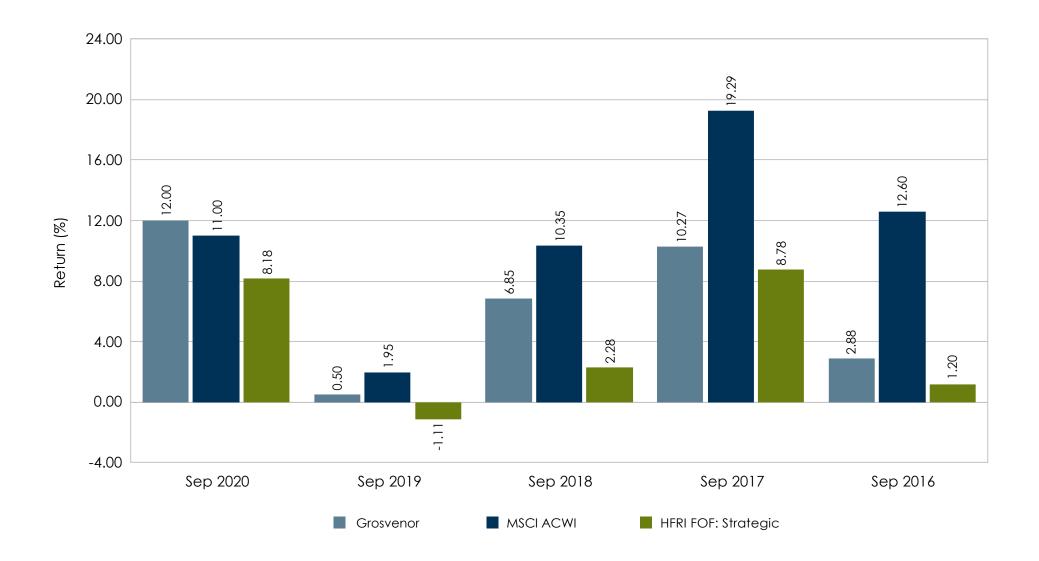
\$2.60						
\$2.40						
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\$2.00					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
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\$1.20	^ ~ ~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~		~~~	
\$1.00				~		
\$0.80						,
M ar-10	Dec-11	Sep-13	Jun-15	M ar-17	Dec-18	Sep-20
	— Grosve	nor —	MSCI ACWI	—HFRI FOF:	Strategic	

	Grosvenor	MSCI ACWI	HFRI FOF: Strategic
Number of Months	120	120	120
Highest Monthly Return (%)	5.18	10.76	5.01
Lowest Monthly Return (%)	-6.74	-13.44	-9.70
Number of Positive Months	80	78	73
Number of Negative Months	40	42	47
% of Positive Months	66.67	65.00	60.83

For the Periods Ending September 30, 2020



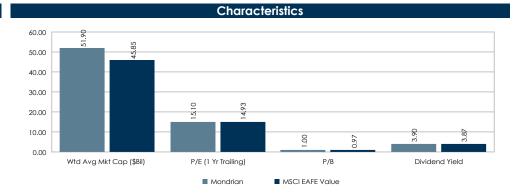
For the One Year Periods Ending September



For the Periods Ending September 30, 2020

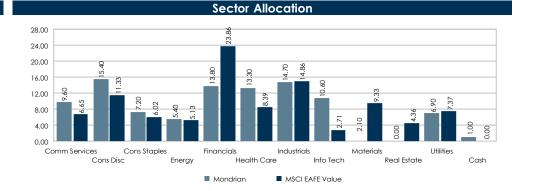
Account Description

- Strategy Int'l Developed Markets Equity
- Vehicle Limited Partnership
- Benchmark MSCI EAFE Value
- Performance Inception Date May 2004
- Fees 70 bps on the first \$20 million, 50 bps on the next \$30 million, 40 bps on the next \$50 million, 30 bps thereafter

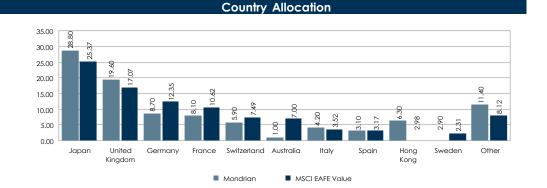


Performance Goals

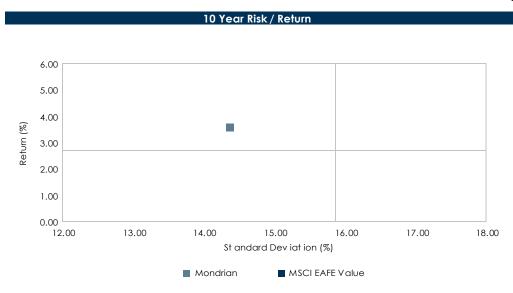
- Outperform the MSCI EAFE Value.
- Over rolling three year periods, rank above the median in the eA EAFE All Cap
 Value Equity universe.



PYTD YTD Beginning Market Value 122,217 152,373 Net Additions 0 0 Return on Investment 1,671 -28,485 Ending Market Value 123,888 123,888



For the Periods Ending September 30, 2020



		MSCI	
	Mondrian	EAFE Value	
Return (%)	3.57	2.68	
Standard Deviation (%)	14.36	15.86	
Sharpe Ratio	0.21	0.13	

10 Year Portfolio Statistics

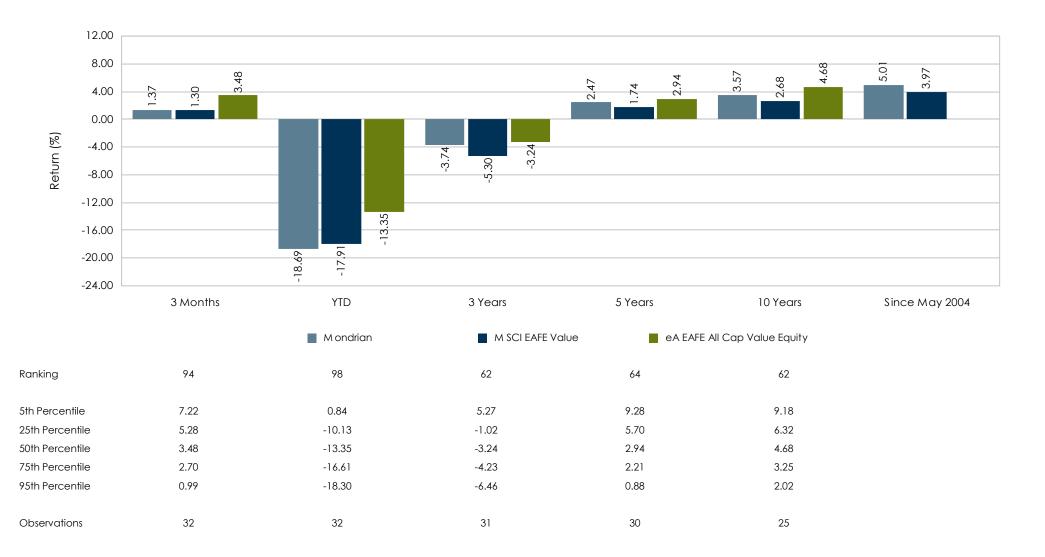
Benchmark Relative Statistics
0.88
93.49
1.13
4.16
52.50
87.66
87.10

10 Year Growth of a Dollar 10 Year Return Analysis



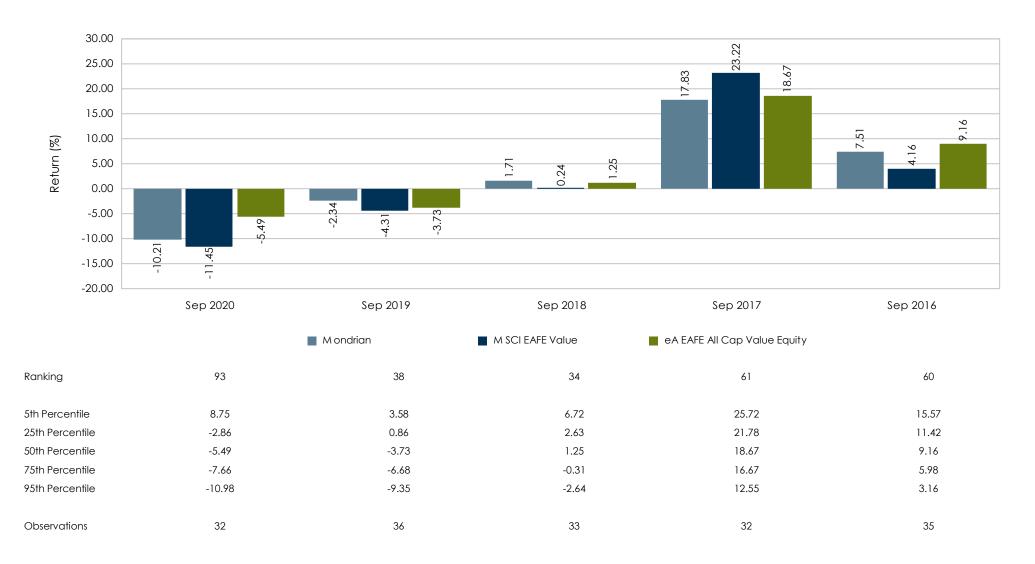
	MSCI
Mondrian	EAFE Value
120	120
8.03	9.18
-16.55	-17.61
69	67
51	53
57.50	55.83
	120 8.03 -16.55 69 51

For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the One Year Periods Ending September

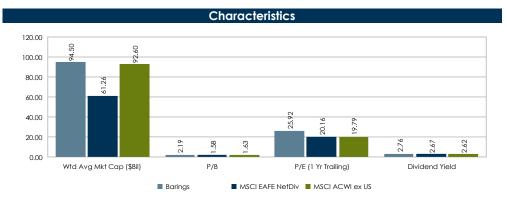


The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the Periods Ending September 30, 2020

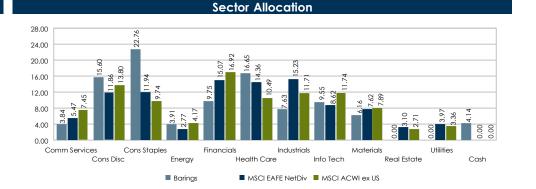
Account Description

- Strategy Int'l Developed Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmarks MSCI EAFE NetDiv and MSCI ACWI ex US
- Performance Inception Date March 2012
- Fees 40 bps base fee plus performance based fee

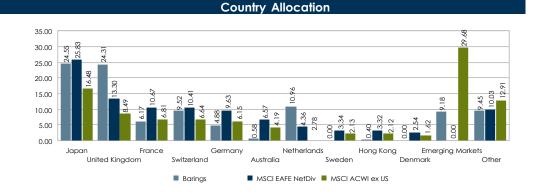


Performance Goals

- Outperform the MSCI EAFE NetDiv and MSCI ACWI ex US.
- Over rolling three year periods, rank above the median in the eA EAFE All Cap Equity universe.



Dollar Growth Summary (\$000s) FYTD YTD Beginning Market Value 148,738 129,779 Net Additions -612 29,130 Return on Investment 9,393 -1,390 Ending Market Value 157,519 157,519



For the Periods Ending September 30, 2020



		MSCI	MSCI
	Barings	EAFE NetDiv	ACWI ex US
Return (%)	5.96	5.40	5.24
Standard Deviation (%)	12.62	13.20	13.43
Sharpe Ratio	0.42	0.36	0.34

8 Year Portfolio Statistics

Benchmark Relative Statistics		
0.90	0.87	
89.45	86.66	
1.05	1.34	
4.29	4.91	
55.21	51.04	
96.63	90.27	
93.98	87.08	
	0.90 89.45 1.05 4.29 55.21 96.63	

8 Year Return Analysis

\$1.70 \$1.60 \$1.50 \$1.40 \$1.30 \$1.20 \$1.10 \$1.00 \$0.90 M ar-12 Aug-13 Jan-15 Jun-16 Nov-17 Apr-19 Sep-20

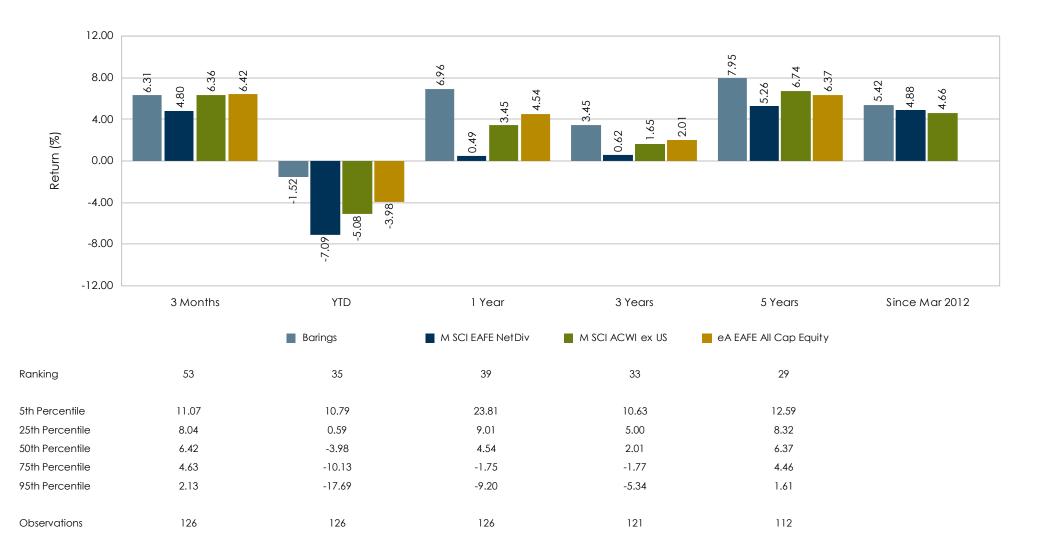
-M SCI EAFENet Div -M SCI ACWI ex US

8 Year Growth of a Dollar

	_
Barings EAFE NetDiv ACWI ex U	S
Number of Months 96 96 96	
Highest Monthly Return (%) 8.31 7.82 8.21	
Lowest Monthly Return (%) -9.15 -13.35 -14.40	
Number of Positive Months 55 55 58	
Number of Negative Months 41 41 38	
% of Positive Months 57.29 57.29 60.42	

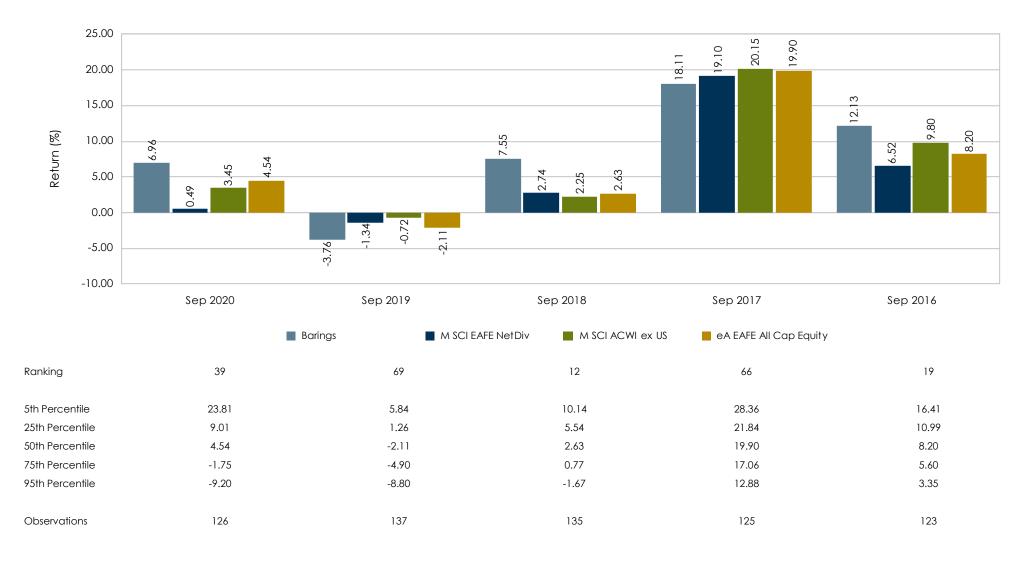
- Barings

For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the One Year Periods Ending September

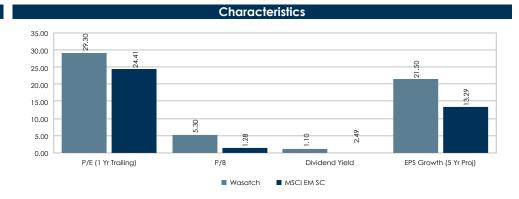


The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the Periods Ending September 30, 2020

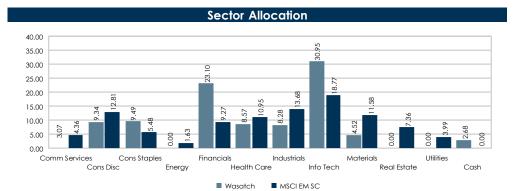
Account Description

- **Strategy** Emerging Markets Equity
- Vehicle Non-Mutual Commingled
- Benchmark MSCI EM SC
- **Performance Inception Date** September 2012
- **Fees** 135 bps

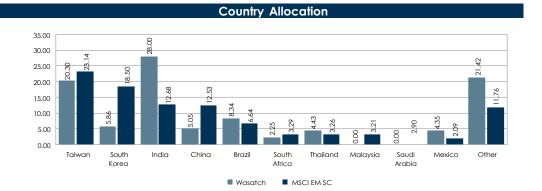


Performance Goals

- Outperform the MSCI EM SC over a market cycle.
- Rank above median in the eA Global Emerging Mkts Equity universe over a market cycle.



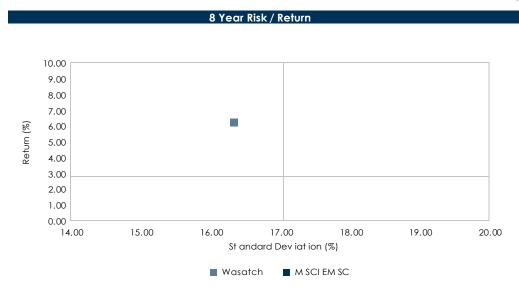
PYTD YTD Beginning Market Value 42,193 40,933 Net Additions -154 -414 Return on Investment 3,565 5,085 Ending Market Value 45,604 45,604



Characteristic and allocation charts represents data of the Wasatch Emerging Markets Small Cap CIT (Non-Mutual Commingled).

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For the Periods Ending September 30, 2020



	Wasatch	MSCI EM SC
Return (%)	6.28	2.75
Standard Deviation (%)	16.33	17.04
Sharpe Ratio	0.34	0.12

8 Year Portfolio Statistics

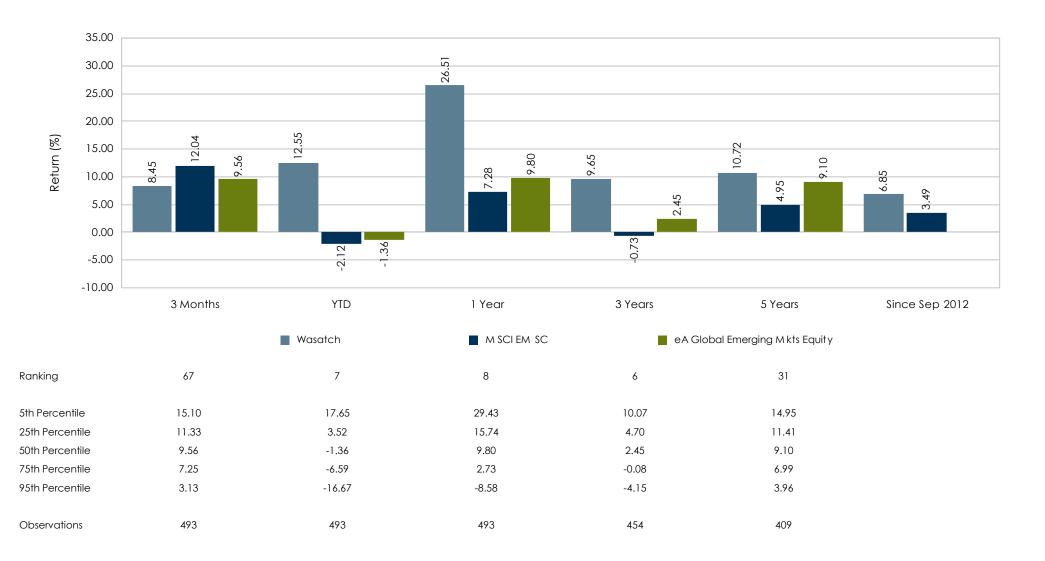
	Benchmark Relative Statistics
Beta	0.86
R Squared (%)	81.31
Alpha (%)	3.90
Tracking Error (%)	7.43
Batting Average (%)	51.04
Up Capture (%)	100.62
Down Capture (%)	86.64

8 Year Growth of a Dollar 8 Year Return Analysis



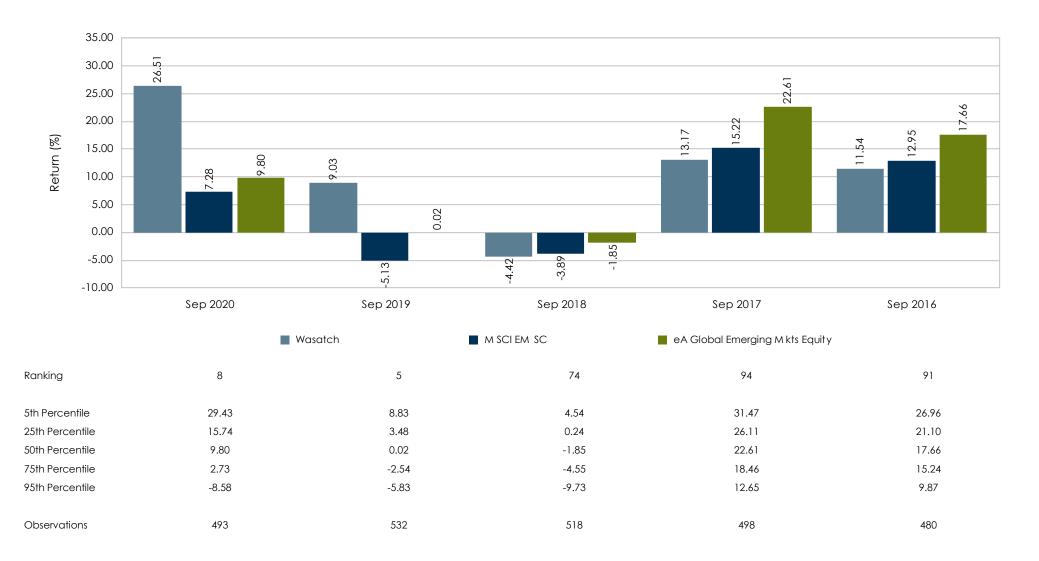
	Wasatch	MSCI EM SC
Number of Months	96	96
Highest Monthly Return (%)	12.22	13.97
Lowest Monthly Return (%)	-20.86	-23.07
Number of Positive Months	56	57
Number of Negative Months	40	39
% of Positive Months	58.33	59.38

For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the One Year Periods Ending September



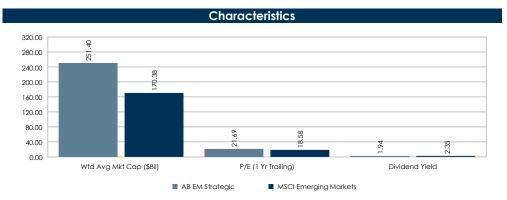
The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

AB EM Strategic Core Equity Fund

For the Periods Ending September 30, 2020

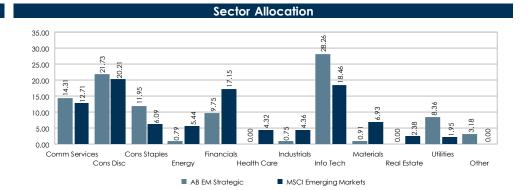
Account Description

- **Strategy** Emerging Markets Equity
- Vehicle Non-Mutual Commingled
- **Benchmark** MSCI Emerging Markets
- Performance Inception Date November 2016
- Fees 65 bps (preferred fee)



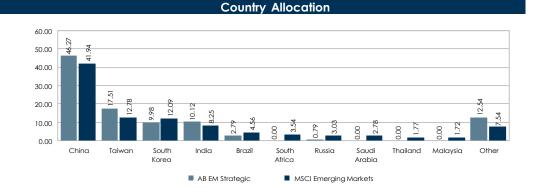
Performance Goals

- Outperform the MSCI Emerging Markets.
- Over rolling three year periods, rank above the median in the eA Global Emerging Mkts Equity universe.



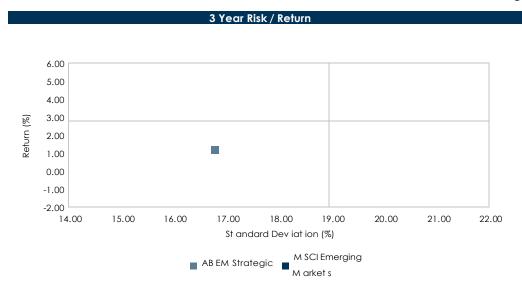
FYTD YTD Beginning Market Value 86,540 85,079 Net Additions 0 10,000 Return on Investment 10,827 2,288 Ending Market Value 97,367 97,367

Dollar Growth Summary (\$000s)



AB EM Strategic Core Equity Fund

For the Periods Ending September 30, 2020



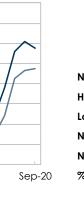
	AB EM Strategic	MSCI Emerging Markets
Return (%)	1.20	2.79
Standard Deviation (%)	16.76	18.95
Sharpe Ratio	-0.02	0.06

3 Year Portfolio Statistics

3 Year Return Analysis

Deficilitat Relative Statistics	
Beta	0.86
R Squared (%)	94.58
Alpha (%)	-1.30
Tracking Error (%)	4.72
Batting Average (%)	41.67
Up Capture (%)	74.39
Down Capture (%)	86.27

3 Year Growth of a Dollar

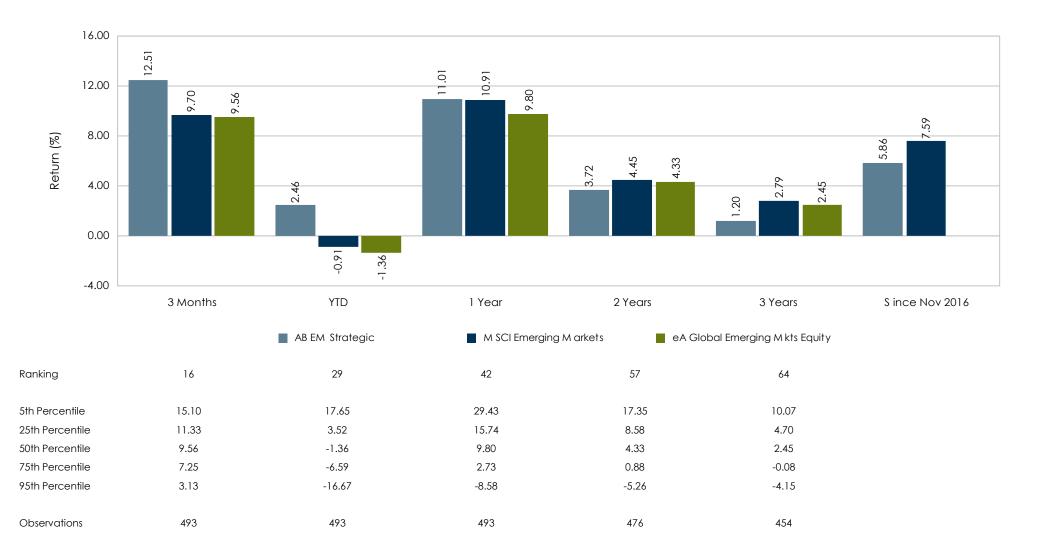


		MSCI Emerging	
	AB		
	EM Strategic	Markets	
Number of Months	36	36	
Highest Monthly Return (%)	9.99	9.18	
Lowest Monthly Return (%)	-14.60	-15.38	
Number of Positive Months	21	19	
Number of Negative Months	15	17	
% of Positive Months	58.33	52.78	

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	ar-1 <i>7</i>	Oct-17	M ay-18	Dec-18	Jul-19	Feb-20	Sep-20
			AB EM Str	ategic M SCI Eme M ark	erging et s		

AB EM Strategic Core Equity Fund

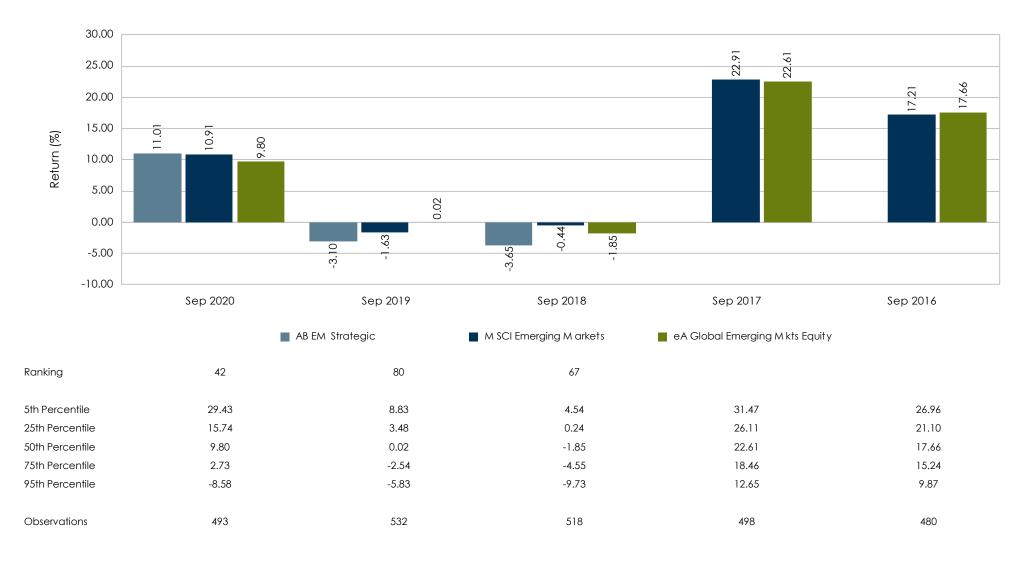
For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

AB EM Strategic Core Equity Fund

For the One Year Periods Ending September



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

Private Equity - Active Funds

For the Period Ending September 30, 2020

Summary of Cash Flows for 6 Months

Cash Outflows	Cash Inflows	Net Cash Flows
-30,827,267	26,317,611	-4,509,656

Summary of Portfolio Inception to Date (Category totals include active and closed funds)

	Inception Date	Committed	Drawn to Date	Remaining Commitment	Distributions to Date	Adjusted Ending Value	Total Value	Total Value to Paid-in
Total Total	Feb-98	860,700,000	631,110,162	254,608,379	695,929,704	243,130,528	939,060,232	1.49x
Buyout	Apr-99	278,200,000	212,779,483	80,136,035	264,503,835	68,588,338	333,092,173	1.57x
Levine Leichtman	Feb-03	10,000,000	10,612,096	-	18,280,716	34,008	18,314,724	1.73x
Thompson Street C.P. II	Dec-06	10,000,000	10,020,777	655,026	19,113,247	2,119,656	21,232,903	2.12x
Arsenal Capital Partners II	Dec-06	15,000,000	15,032,366	668,860	36,302,596	126,178	36,428,774	2.42x
Sun Capital Partners V	May-07	12,500,000	12,634,496	750,745	11,662,688	2,513,287	14,175,975	1.12x
Calera Capital Fund IV	Apr-08	10,000,000	8,835,037	2,727,541	13,709,533	-	13,709,533	1.55x
Levine Leichtman IV	Sep-08	10,000,000	9,284,222	1,065,574	15,390,212	954,152	16,344,364	1.76x
Thompson Street Capital III	Oct-11	7,500,000	7,686,352	449,665	8,653,172	2,969,653	11,622,825	1.51x
Arsenal Capital Partners III	Apr-12	7,500,000	7,926,445	991,423	14,464,653	2,206,240	16,670,893	2.10x
Apollo Investment Fund VIII	Feb-14	7,500,000	7,719,011	1,028,079	4,389,849	5,330,024	9,719,873	1.26x
Francisco Partners Fund IV	Apr-15	8,000,000	7,796,000	204,000	6,756,104	11,270,776	18,026,880	2.31x
CenterOak Equity Fund I	Dec-15	7,500,000	7,363,140	719,485	2,087,662	7,688,199	9,775,861	1.33x
Thompson Street Capital Partners IV	Jan-16	7,500,000	7,270,965	936,721	1,562,736	8,855,290	10,418,026	1.43x
Leonard Green Equity Investors VII	May-17	7,500,000	6,382,304	1,191,001	73,305	7,820,189	7,893,494	1.24x
Francisco Partners Fund V	Jul-18	10,000,000	7,100,000	2,900,000	-	7,707,077	7,707,077	1.09x
Thompson Street Capital V	Aug-18	12,700,000	5,428,104	7,271,896	-	4,924,313	4,924,313	0.91x
Apollo Investment Fund IX	Mar-19	13,000,000	3,506,146	9,753,655	328,458	2,989,852	3,318,310	0.95x
Leonard Green Jade	Apr-20	10,000,000	877,636	9,122,364	-	779,444	779,444	0.89x
Francisco Partners Agility II	Sep-20	5,000,000	300,000	4,700,000	-	300,000	300,000	1.00x
Leonard Green VIII	Oct-20	15,000,000	-	15,000,000	-	-	-	-
Francisco Partners VI		20,000,000	-	20,000,000	-	-	-	-

Private Equity - Active Funds

For the Period Ending September 30, 2020

Summary of Portfolio Inception to Date (Category totals include active and closed funds)

	Inception		Drawn	Remaining	Distributions	Adjusted		Total Value to
	Date	Committed	to Date	Commitment	to Date	Ending Value	Total Value	Paid-in
Distressed	Feb-98	203,500,000	136,956,690	66,834,090	168,614,038	27,926,910	196,540,948	1.44x
Oaktree Opportunities Fund V	Jun-04	4,000,000	4,000,000	-	6,608,433	1,597	6,610,030	1.65x
Oaktree Opportunities Fund VI	Aug-05	4,000,000	4,000,000	-	6,326,002	129	6,326,131	1.58x
Oaktree Opportunities VII A	Mar-07	7,500,000	7,500,000	-	10,299,308	53,608	10,352,916	1.38x
Oaktree Opportunities VII B	Jun-08	7,500,000	6,750,000	375,000	11,680,007	13,516	11,693,523	1.73x
Siguler Guff Dist Opp III	Sep-08	15,000,000	14,550,000	450,000	21,325,680	2,795,409	24,121,089	1.66x
Oaktree Opportunities VIII	Dec-09	7,500,000	7,500,000	-	10,687,675	167,972	10,855,647	1.45x
Oaktree Opportunities IX	Mar-13	7,500,000	7,500,000	-	3,801,313	4,547,050	8,348,363	1.11x
Oaktree European Dislocation Fund	Nov-13	7,500,000	4,293,000	750,000	4,570,399	208,509	4,778,908	1.11x
Oaktree Opportunities Fund X	Jul-15	7,500,000	6,975,000	1,275,000	2,095,449	6,209,571	8,305,020	1.19x
Apollo EPF III	Jan-18	10,000,000	9,190,274	3,614,090	3,121,551	6,854,761	9,976,312	1.09x
Oaktree Opportunities Fund Xb	Jun-18	7,500,000	4,125,000	3,375,000	-	4,069,788	4,069,788	0.99x
CarVal Credit Value Fund V	Jul-20	30,000,000	1,505,000	28,495,000	-	1,505,000	1,505,000	1.00x
Oaktree Opportunities XI	Aug-20	30,000,000	1,500,000	28,500,000	-	1,500,000	1,500,000	1.00x
merging Markets Focused	Mar-12	7,500,000	8,341,918	754,383	6,347,302	4,154,852	10,502,154	1.26x
Actis EM IV	Mar-12	7,500,000	8,341,918	754,383	6,347,302	4,154,852	10,502,154	1.26x
ezzanine	Mar-99	49,500,000	51,446,479	4,726,007	73,038,422	1,280,033	74,318,455	1.44x
TCW Mezzanine Fund V	Mar-08	10,000,000	7,507,009	2,492,991	10,456,648	404,423	10,861,071	1. 4 5x
Newstone Capital Partners II	Dec-10	7,500,000	10,036,257	311,940	11,607,974	875,610	12,483,584	1.24x
ther	Feb-13	71,500,000	35,490,395	39,106,056	9,682,126	25,977,205	35,659,331	1.00x
EnCap Energy Fund IX	Feb-13	6,500,000	7,410,932	325,483	5,132,653	2,253,533	7,386,186	1.00x
EnCap Energy Fund X	Apr-15	7,500,000	6,923,926	1,078,114	1,513,167	4,741,948	6,255,115	0.90x
ArcLight Energy Partners VI	Aug-15	7,500,000	7,807,282	1,050,714	3,036,306	4,980,144	8,016,450	1.03x
EnCap Energy Fund XI	Jul-17	10,000,000	3,163,014	6,836,986	-	1,936,381	1,936,381	0.61x
North Sky Clean Growth V	Sep-19	25,000,000	8,750,000	16,250,000	-	11,121,920	11,121,920	1.27x
ArcLight Energy Partners Fund VII, L.P	Feb-20	15,000,000	1,435,241	13,564,759	-	943,279	943,279	0.66x
econdary Fund of Funds	Dec-05	20,000,000	21,226,531	-	28,281,361	1,213,172	29,494,533	1.39x
Lexington VI	Dec-05	20,000,000	21,226,531	-	28,281,361	1,213,172	29,494,533	1.39x

Private Equity - Active Funds

For the Period Ending September 30, 2020

Summary of Portfolio Inception to Date (Category totals include active and closed funds)

	Inception		Drawn	Remaining	Distributions	Adjusted		Total Value to
	Date	Committed	to Date	Commitment	to Date	Ending Value	Total Value	Paid-in
Venture Capital	Jul-99	230,500,000	164,868,666	63,051,808	145,462,620	113,990,018	259,452,638	1.57x
Accel Europe	May-01	10,000,000	10,000,000	-	12,403,731	806,638	13,210,369	1.32x
Knightsbridge Fund VI	Dec-04	12,000,000	10,960,000	1,040,000	12,976,368	5,535,220	18,511,588	1.69x
Firstmark I (Pequot, Firstmark IV)	Nov-05	5,000,000	4,950,000	50,000	31,731,918	3,777,643	35,509,561	7.17x
Weathergage Venture Capital	Mar-07	7,500,000	6,862,500	637,500	10,530,343	4,274,203	14,804,546	2.16x
Warburg Pincus	Oct-07	15,000,000	15,000,000	-	23,948,898	1,714,246	25,663,144	1.71x
Weathergage Venture Cap II	Apr-11	7,500,000	6,975,000	525,000	7,068,452	10,537,210	17,605,662	2.52x
Firstmark II (Firstmark V)	Aug-11	5,000,000	5,022,365	-	1,593,159	9,672,880	11,266,039	2.24x
Warburg Pincus XI	Nov-12	7,500,000	7,500,000	-	7,963,418	3,726,430	11,689,848	1.56x
Firstmark Capital Fund III	Feb-14	5,000,000	4,900,000	100,000	407,170	9,173,113	9,580,283	1.96x
Firstmark Capital Opportunity Fund I	Jun-14	5,000,000	5,150,000	111,808	2,349,381	6,428,404	8,777,785	1.70x
Warburg Pincus XII	Dec-15	10,000,000	9,705,000	295,000	1,170,230	10,876,480	12,046,710	1.24x
Weathergage Venture Capital IV	Dec-16	10,000,000	7,200,000	2,800,000	-	10,603,530	10,603,530	1.47x
FirstMark Capital Fund IV	Apr-17	7,500,000	5,700,000	1,800,000	-	7,222,842	7,222,842	1.27x
FirstMark Capital Opportunity Fund II	Jan-18	7,500,000	7,500,000	-	274,865	11,063,801	11,338,666	1.51x
Warburg Pincus Global Growth	Mar-19	40,000,000	12,120,000	27,880,000	-	11,427,200	11,427,200	0.94x
TA XIII	Dec-19	10,000,000	4,000,000	6,000,000	-	3,977,548	3,977,548	0.99x
FirstMark Capital Opportunity Fund III	Jun-20	12,500,000	2,437,500	10,062,500	-	2,422,630	2,422,630	0.99x
FirstMark Capital Fund V	Jul-20	12,500,000	750,000	11,750,000	-	750,000	750,000	1.00x

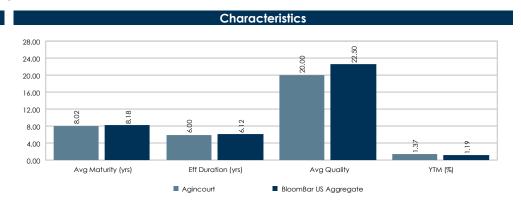
Oklahoma Police Pension & Retirement System

Fixed Income Manager Performance

For the Periods Ending September 30, 2020

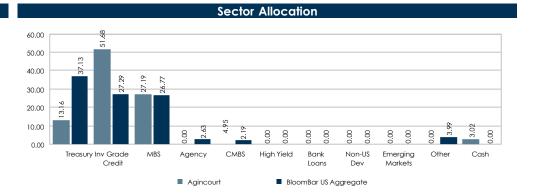
Account Description

- Strategy Core Bonds
- Vehicle Separately Managed Account
- Benchmark BloomBar US Aggregate
- Performance Inception Date October 1999
- Fees 25 bps on the first \$25 million, 20 bps on the next \$75 million, 15 bps on the next \$50 million, and 10 bps on the next \$50 million



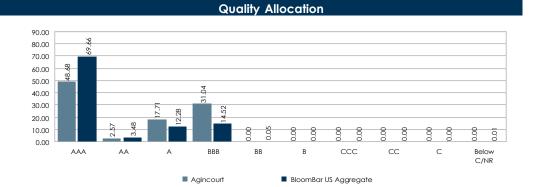
Performance Goals

- Outperform the BloomBar US Aggregate.
- Over rolling three year periods, rank above the median in the eA US Core
 Fixed Income universe.



20	(4000)	
	FYTD	YTD
Beginning Market Value	258,369	241,418
Net Additions	-91	-271
Return on Investment	2,105	19,236
Income	2,112	6,217
Gain/Loss	-7	13,019
Ending Market Value	260,383	260,383

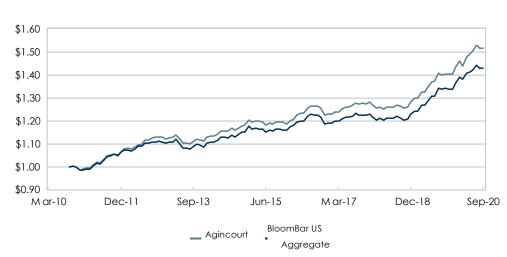
Dollar Growth Summary (S000s)



The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

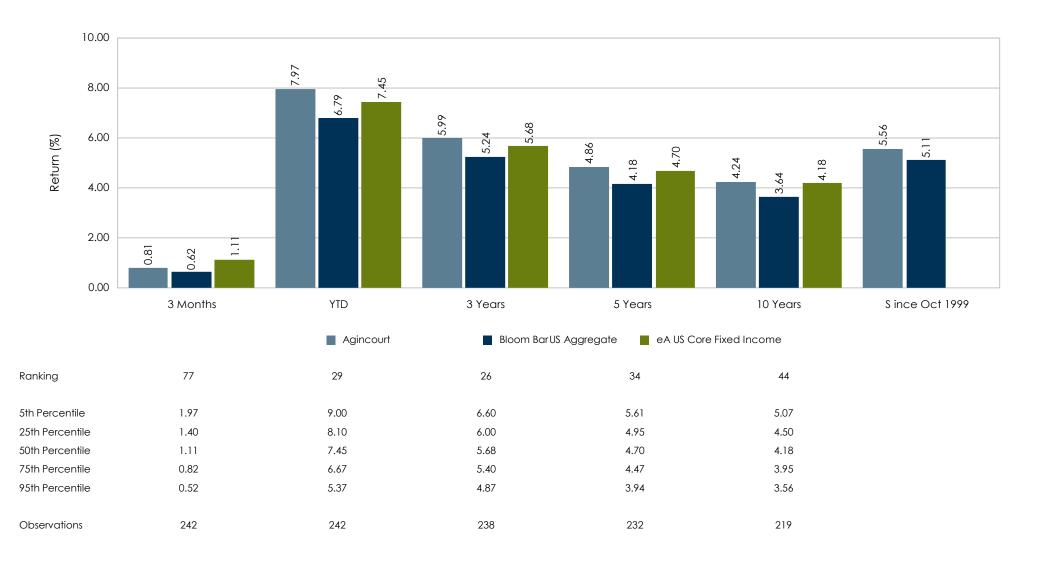
For the Periods Ending September 30, 2020





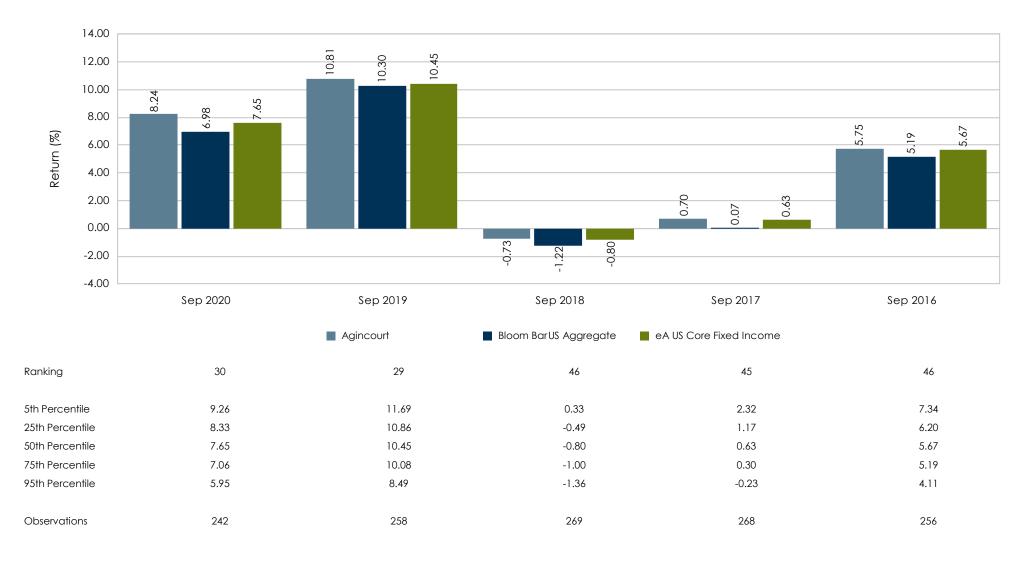
	Agincourt	BloomBar US Aggregate
Number of Months	120	120
Highest Monthly Return (%)	2.71	2.59
Lowest Monthly Return (%)	-2.37	-2.37
Number of Positive Months	77	76
Number of Negative Months	43	44
% of Positive Months	64.17	63.33

For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the One Year Periods Ending September

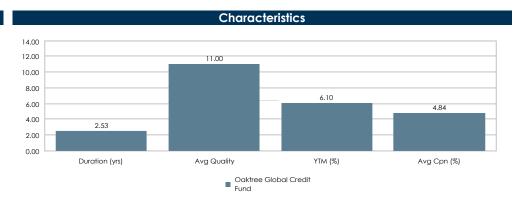


The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the Periods Ending September 30, 2020

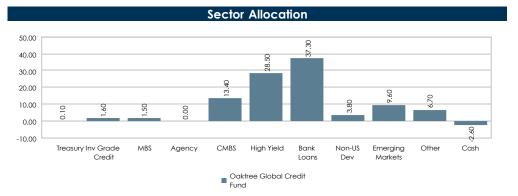
Account Description

- Strategy Multi-Sector Fixed Income
- Vehicle Limited Partnership
- **Benchmark** Custom Blended Index
- Performance Inception Date February 1998
- Fees 50 bps plus operating expenses

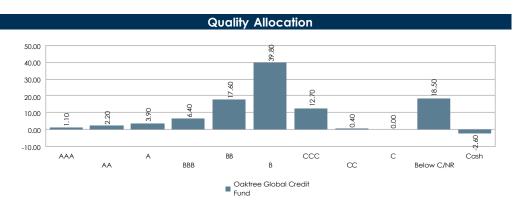


Performance Goals

Outperform the Custom Blended Index.



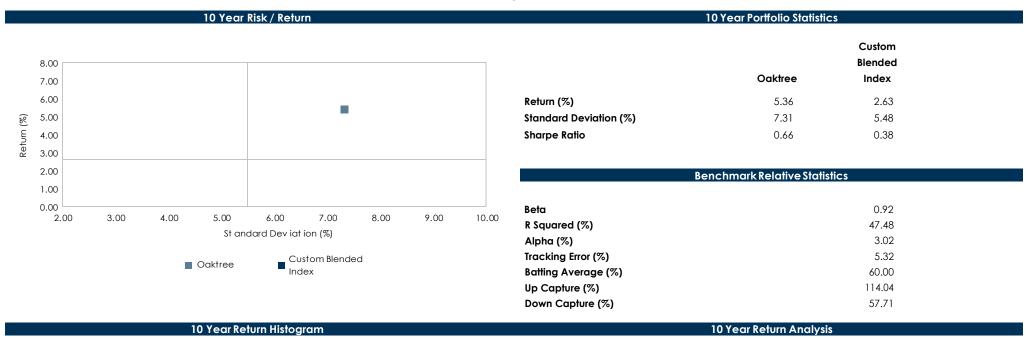
Dollar Growth Summary (\$000s)						
	FYTD	YTD				
Beginning Market Value	133,698	131,118				
Net Additions	-201	9,425				
Return on Investment	5,746	-1,299				
Ending Market Value	139,244	139,244				



Characteristic and allocation charts represents the composite data of the Oaktree Capital Management, L.P.\Global Credit.

The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

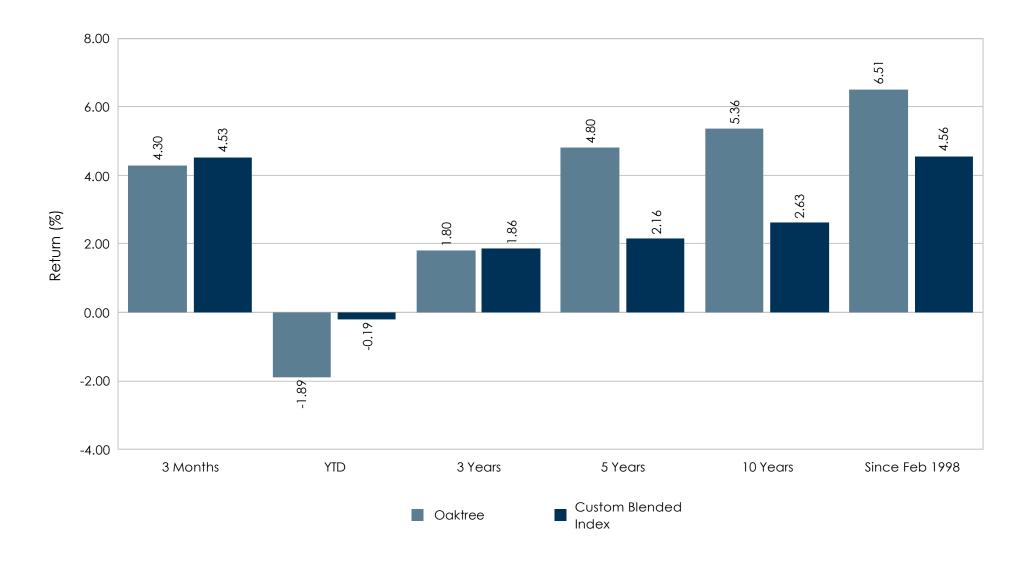
For the Periods Ending September 30, 2020



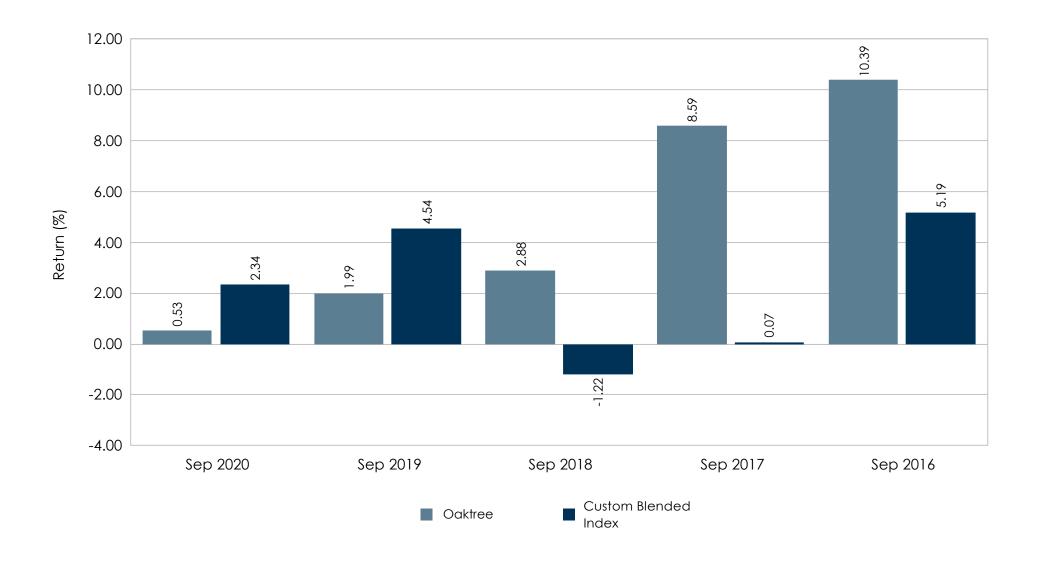
60 50 40 30 20 10	1 1	2 0	71	10 7	35	39	24	13	4 2	2 2
	Less than -4%	-4% to -3%	-3% to -2%	-2% to -1%	-1% to 0%	0% to 1%	1% to 2%	2% to 3%	3% to 4%	Great er than 4%
				■ Oaktre	е	Custon Index	n Blended			

		Custom Blended
	Oaktree	Index
Number of Months	120	120
Highest Monthly Return (%)	5.85	4.42
Lowest Monthly Return (%)	-14.98	-12.62
Number of Positive Months	82	76
Number of Negative Months	38	44
% of Positive Months	68.33	63.33

For the Periods Ending September 30, 2020



For the One Year Periods Ending September

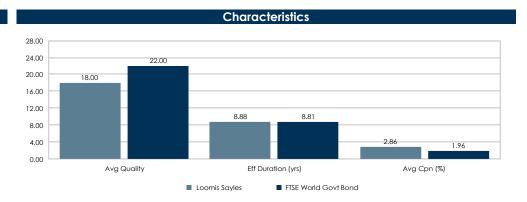


Loomis Sayles

For the Periods Ending September 30, 2020

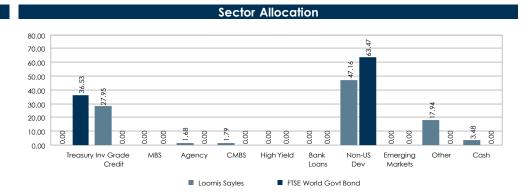
Account Description

- Strategy Multi-Sector Fixed Income
- Vehicle Non-Mutual Commingled
- Benchmark FTSE World Govt Bond
- Performance Inception Date June 2008
- Fees First \$75M at 35 bps, balance at 25 bps

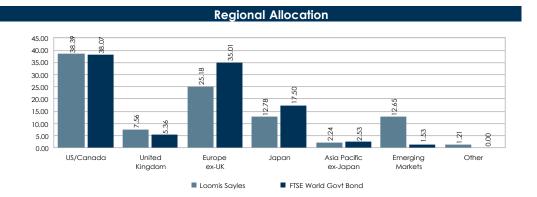


Performance Goals

- Outperform the FTSE World Govt Bond.
- Over rolling three year periods, rank above the median in the eA All Global Fixed Income universe.



Dollar Growth Summary (\$000s) FYTD YTD Beginning Market Value 85,485 82,322 Net Additions -70 -210 Return on Investment 3,517 6,821 Ending Market Value 88,932 88,932



Characteristic and allocation charts represents data of the Loomis World Bond NH Trust (Non-Mutual Commingled).

The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

Loomis Sayles

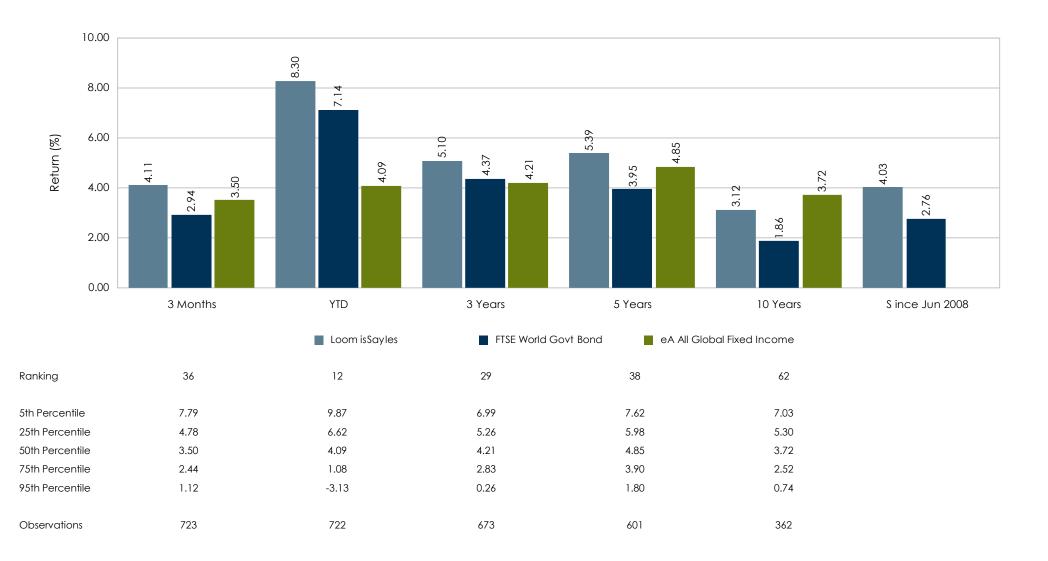
For the Periods Ending September 30, 2020





Loomis Sayles

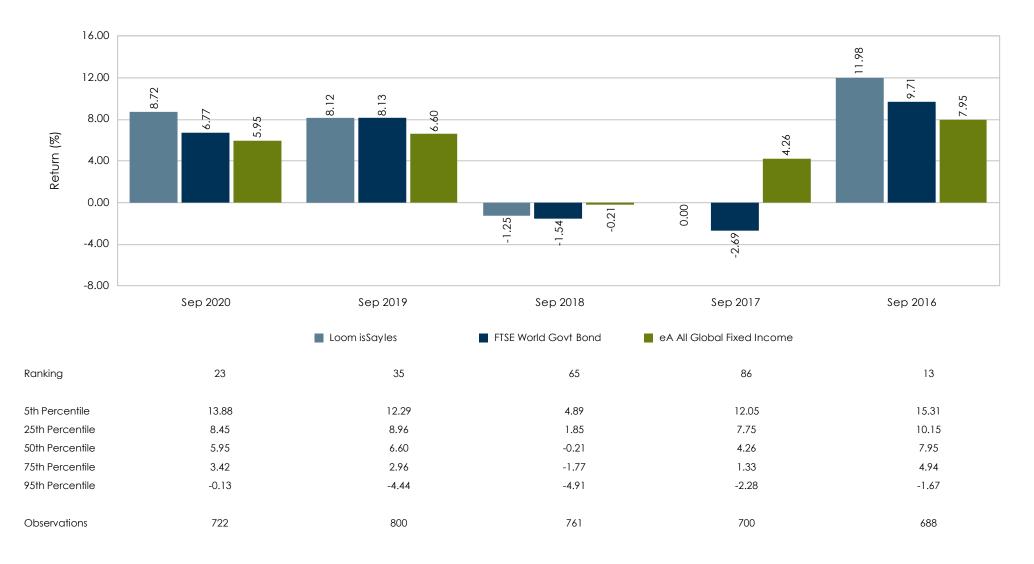
For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

Loomis Sayles

For the One Year Periods Ending September



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

Private Credit - Active Funds

For the Period Ending September 30, 2020

Summary of Cash Flows for 6 Months

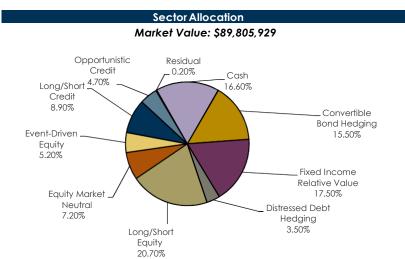
Cash Outflows	Cash Inflows	Net Cash Flows
-5,069,323	15,903,192	10,833,869

Summary of Portfolio Inception to Date (Category totals include active and closed funds)

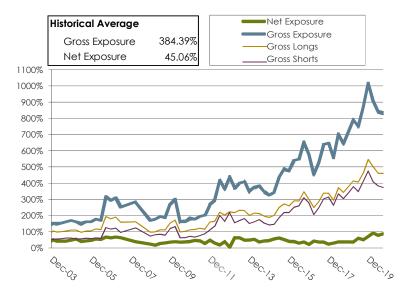
	Inception		Drawn	Remaining	Distributions	Adjusted		Total Value to
	Date	Committed	to Date	Commitment	to Date	Ending Value	Total Value	Paid-in
Total	Sep-16	115,000,000	90,088,318	43,276,281	48,722,524	52,852,840	101,575,364	1.13x
Mezzanine	Jan-17	20,000,000	19,988,318	1,471,536	8,729,108	15,478,148	24,207,256	1.21x
Newstone Capital Partners III	Jan-17	20,000,000	19,988,318	1,471,536	8,729,108	15,478,148	24,207,256	1.21x
Other	Sep-16	95,000,000	70,100,000	41,804,745	39,993,416	37,374,692	77,368,108	1.10x
LBC Credit Partners Fund IV	Sep-16	40,000,000	36,000,000	12,826,227	16,346,791	24,341,414	40,688,205	1.13x
Apollo Accord II	Oct-18	11,400,000	10,500,000	900,000	11,686,222	-	11,686,222	1.11x
Apollo Accord III	Oct-19	18,600,000	18,600,000	8,078,518	11,960,403	7,947,554	19,907,957	1.07x
Apollo Accord Fund III B	May-20	25,000,000	5,000,000	20,000,000	-	5,085,724	5,085,724	1.02x

PAAMCO

For the Periods Ending September 30, 2020







Characteristic data provided by manager.

Strategy

- Low Volatility Hedge Fund of Funds
- Performance Inception Date: October 2002
- Redemption: Quarterly with 60 days written notice

Objectives and Constraints

- Target annualized return: 10-12%
- Target annualized standard deviation: approximate the standard deviation of the Barclays Capital Aggregate
- Maximum number of managers: 55
- Allocation to any manager: not to exceed 5% at cost or 7% at market value
- Allocation to Convertible Bond Hedging: 20-40%
- Allocation to Sovereign Debt & Mortgage Hedging: 0-10%
- Allocation to Credit Hedging & Distressed Debt Hedging: 0-25%
- Allocation to Merger Arbitrage: 0-20%
- Allocation to Equity Market Neutral & Long/Short Equity: 20-45%
- Allocation to Short Biased: 0-5%
- Allocation to Cash: 0-5%

Exposure

Net Exposure: 87.80%Gross Exposure: 836.60%

PAAMCO

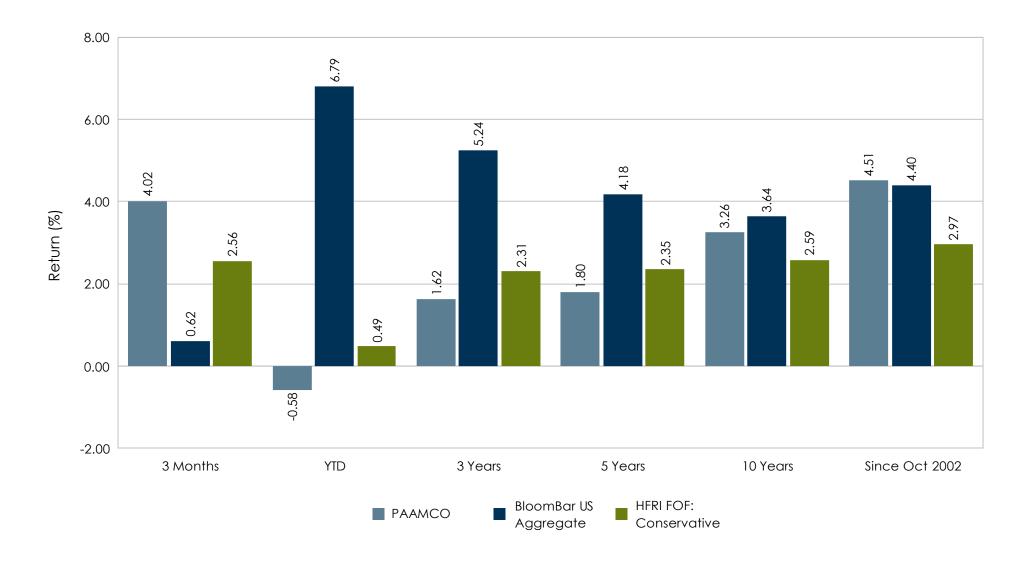
For the Periods Ending September 30, 2020



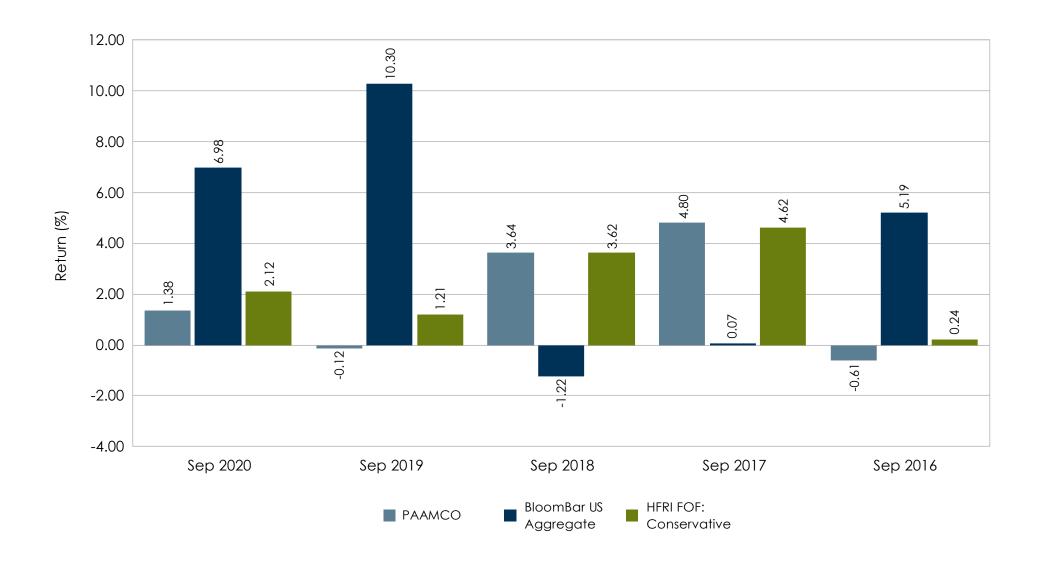


	PAAMCO	BloomBar US Aggregate	HFRI FOF: Conservative
Number of Months	120	120	120
Highest Monthly Return (%)	2.84	2.59	2.00
Lowest Monthly Return (%)	-8.32	-2.37	-6.78
Number of Positive Months	80	76	84
Number of Negative Months	40	44	36
% of Positive Months	66.67	63.33	70.00

PAAMCOFor the Periods Ending September 30, 2020



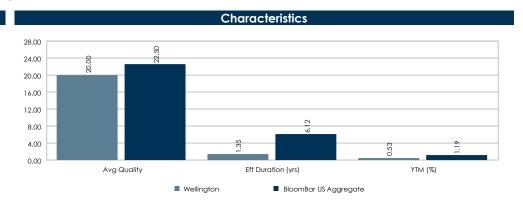
PAAMCOFor the One Year Periods Ending September



For the Periods Ending September 30, 2020

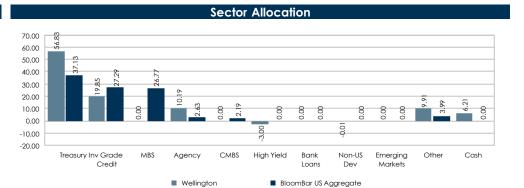
Account Description

- **Strategy** Absolute Return
- Vehicle Non-Mutual Commingled
- Benchmarks US T-Bills 90 Day + 4% and BloomBar US Aggregate
- Performance Inception Date December 2016
- Fees 25 bps, plus 20% of excess return beyond cash + 1%

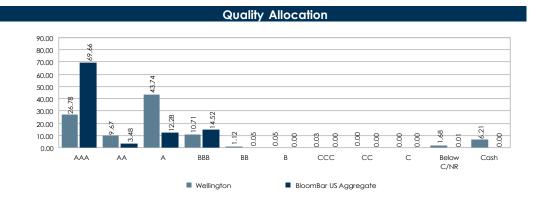


Performance Goals

- Outperform the US T-Bills 90 Day + 4%.
- Over rolling three year periods, rank above the median in the eA Global Unconstrained Fixed Income universe.



Dollar Growth Summary (\$000s) FYTD YTD Beginning Market Value 77,871 76,991 Net Additions -49 -142 Return on Investment 41 1,014 Ending Market Value 77,863 77,863



The Other sector consists of ABS, CMO, Convertibles, Municipals, Private Placements/144As and TIPS.

For the Periods Ending September 30, 2020



	Wellington	US T-Bills 90 Day + 4%	BloomBar US Aggregate
Return (%)	4.67	5.75	5.24
Standard Deviation (%)	2.33	0.25	3.37
Sharpe Ratio	1.33	16.73	1.09

3 Year Portfolio Statistics

Benchmark Rel	ative Statistics	
Beta	0.43	-0.09
R Squared (%)	0.22	1.78
Alpha (%)	2.19	5.19
Tracking Error (%)	2.33	4.34
Batting Average (%)	41.67	47.22
Up Capture (%)	81.17	28.26
Down Capture (%)		-113.57

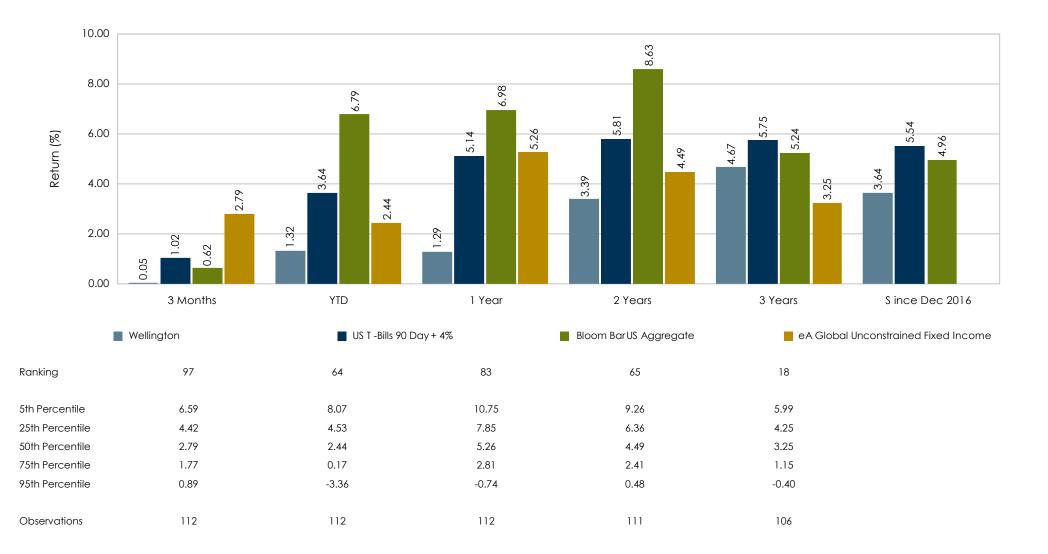
3 Year Return Analysis

\$1.20 \$1.16 \$1.12 \$1.08 \$1.04 \$1.00 \$0.96 M ar-17 Jul-19 Feb-20 Oct-17 May-18 Dec-18 Sep-20 _US T-Bills 90 Day + 4% BloomBar US __ Wellington Aggregate

3 Year Growth of a Dollar

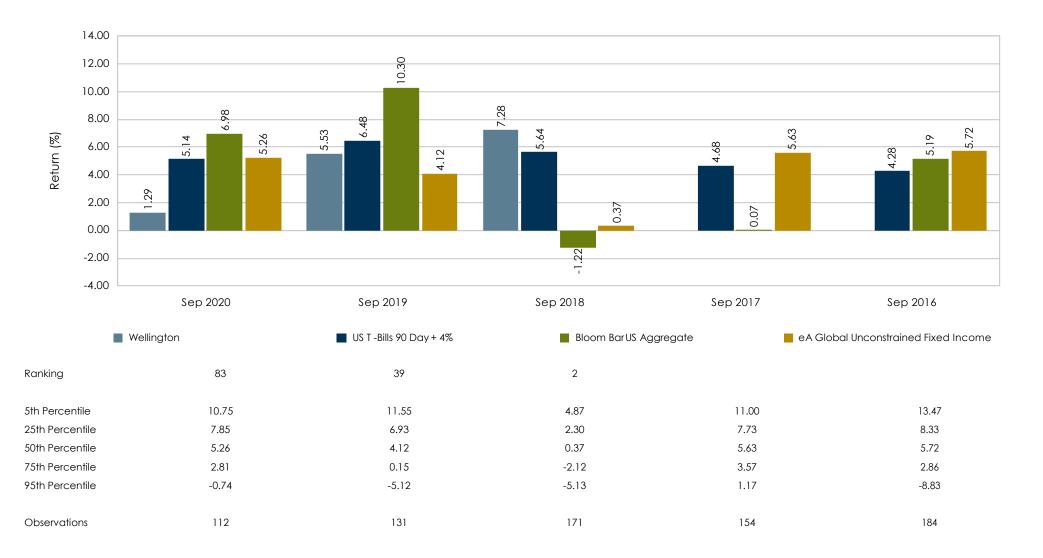
	Wellington	US T-Bills 90 Day + 4%	BloomBar US Aggregate
Number of Months	36	36	36
Highest Monthly Return (%)	2.45	0.62	2.59
Lowest Monthly Return (%)	-0.54	0.33	-1.15
Number of Positive Months	25	36	22
Number of Negative Months	11	0	14
% of Positive Months	69.44	100.00	61.11

For the Periods Ending September 30, 2020



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

For the One Year Periods Ending September



The rankings represent the portfolio's returns versus a peer universe. The rankings are on a scale of 1 to 100 with 1 being the best.

Real Assets Manager Performance

JP Morgan Strategic Property

For the Periods Ending September 30, 2020

Ending Market Value

of Participants

Account Description

- **Strategy** Core Real Estate
- Vehicle Non-Mutual Commingled
- Benchmarks NFI ODCE Net and NCREIF Property
- Performance Inception Date December 2007
- Fees First \$100M at 92 bps, next \$150M at 80 bps, next \$250M at 70 bps, balance at 50 bps

Performance Goals

Outperform the NFI ODCE Net.



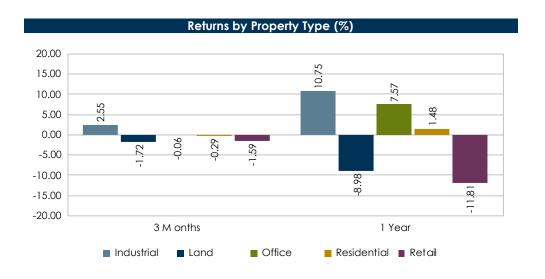
Account Information

Fund Information

\$150,422,798

371

100

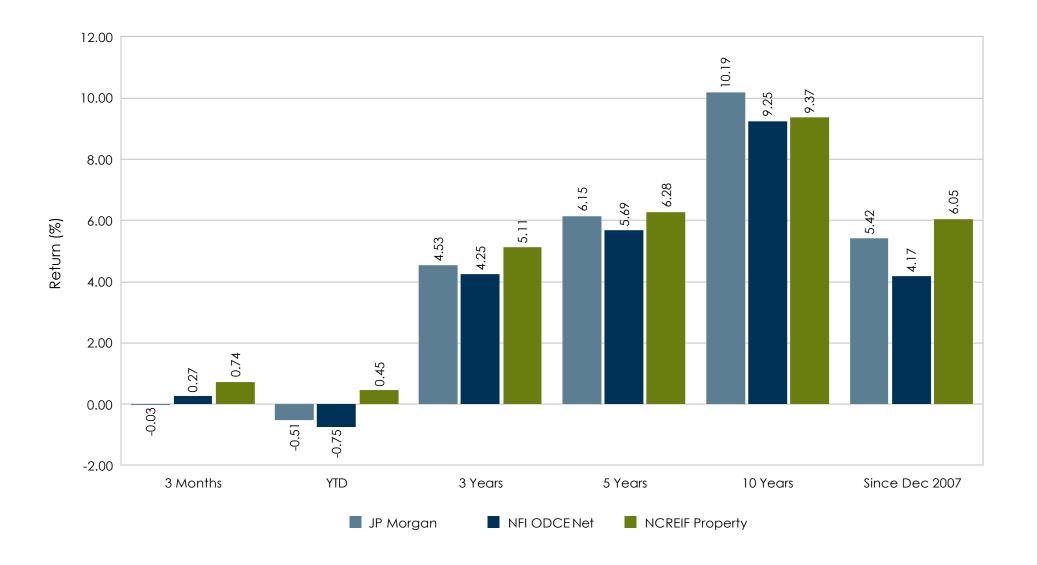




Characteristic and allocation charts represents data of the Strategic Property Fund FIV1 (Comminged Pension Fund Trust Fund) (Non-Mutual Commingled).

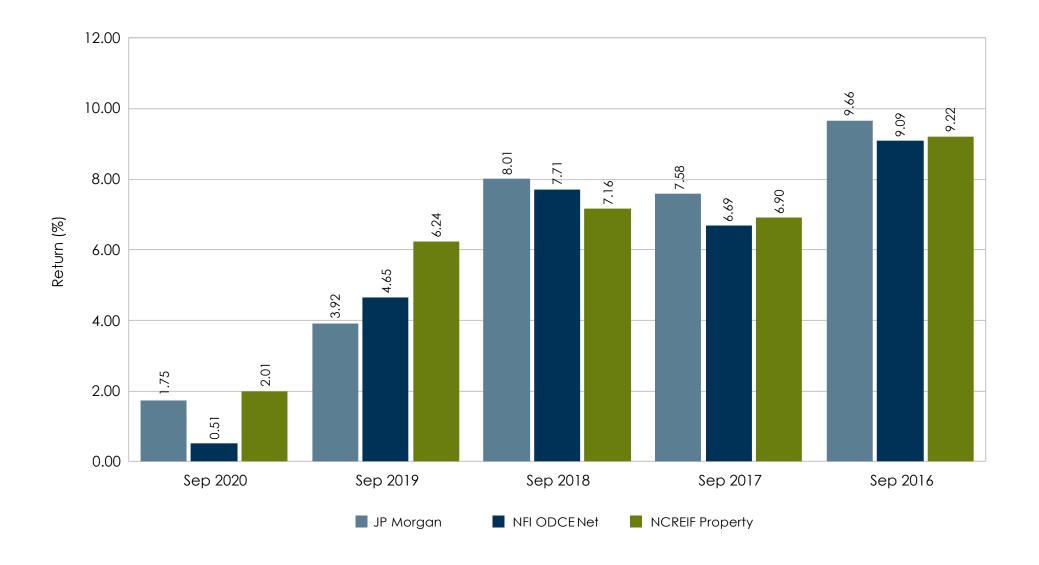
JP Morgan Strategic Property

For the Periods Ending September 30, 2020



JP Morgan Strategic Property

For the One Year Periods Ending September



Blackstone Property Partners

For the Periods Ending September 30, 2020

Account Description

- **Strategy** Core Real Estate
- Vehicle Limited Partnership
- Benchmarks NFI ODCE Net and NCREIF Property
- Performance Inception Date January 2015

Account Information

Ending Market Value

\$113,444,291

Fund Information

Net Market Value

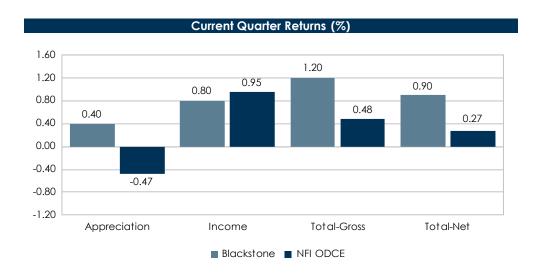
\$11,200,000,000

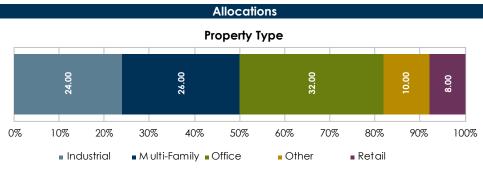
of Properties

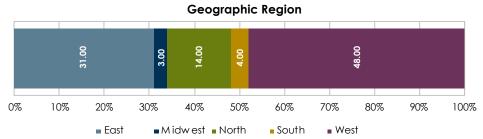
42

Performance Goals

Outperform the NFI ODCE Net and NCREIF Property.

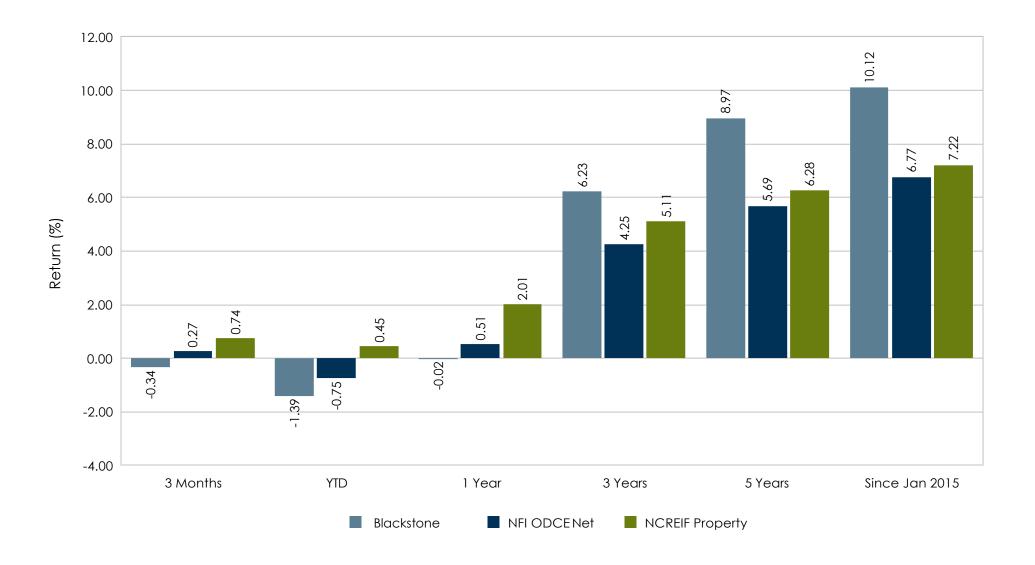






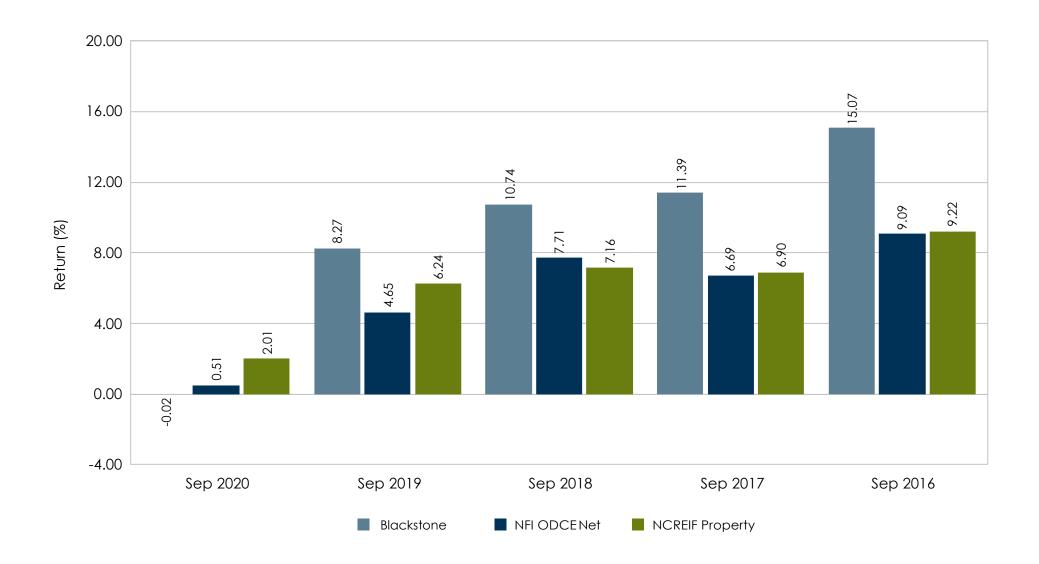
Blackstone Property Partners

For the Periods Ending September 30, 2020



Blackstone Property Partners

For the One Year Periods Ending September



Private Real Estate - Active Funds

For the Period Ending September 30, 2020

Summary of Cash Flows for 6 Months

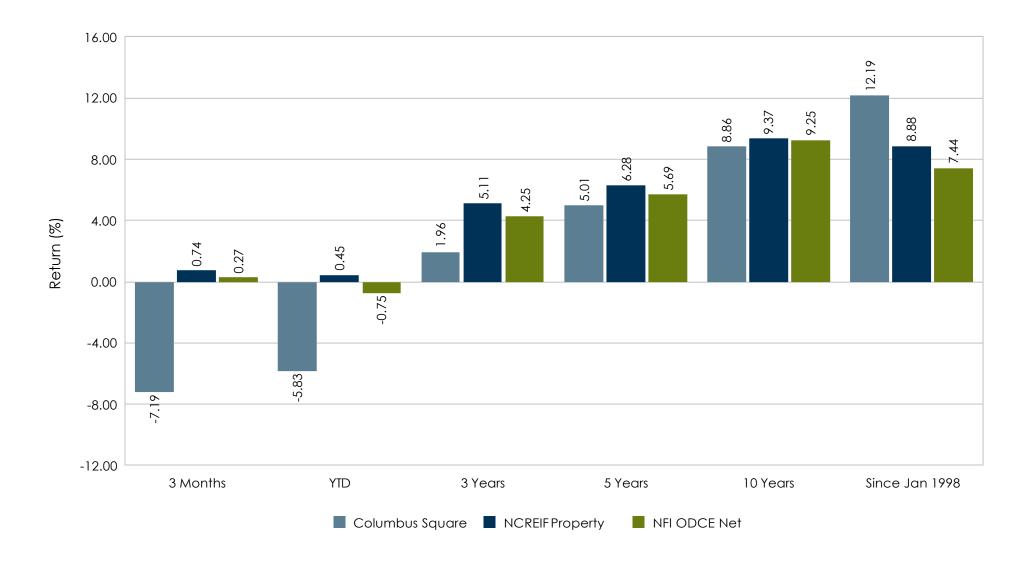
Cash Outflows	Cash Inflows	Net Cash Flows
-6,427,199	2,330,000	-4,097,199

Summary of Portfolio Inception to Date (Category totals include active and closed funds)

	Inception		Drawn	Remaining	Distributions	Adjusted		Total Value to
	Date	Committed	to Date	Commitment	to Date	Ending Value	Total Value	Paid-in
Total	Aug-11	130,500,000	100,999,410	41,902,804	80,470,443	56,149,825	136,620,268	1.35x
Real Estate	Aug-11	130,500,000	100,999,410	41,902,804	80,470,443	56,149,825	136,620,268	1.35x
Siguler Guff Dist. Real Estate Opp.	Aug-11	10,000,000	9,250,000	750,000	12,406,132	3,750,017	16,156,149	1.75x
TA Associates Realty X	Jan-13	20,000,000	20,000,000	-	30,020,786	2,200,315	32,221,101	1.61x
Cerberus Real Estate Fund III	Jul-13	20,000,000	25,185,319	4,871,659	27,414,249	8,612,100	36,026,349	1.43x
Hall Capital Fund III	Nov-14	7,500,000	7,080,261	419,739	2,880,272	5,615,852	8,496,124	1.20x
Siguler Guff Dist. Real Estate Opp. II	Dec-14	10,000,000	8,715,000	1,285,000	5,314,783	6,372,662	11,687,445	1.34x
Cerberus Institutional Real Estate Partners 4	Jun-16	15,000,000	12,738,859	3,824,590	1,563,559	12,065,889	13,629,448	1.07x
Siguler Guff Dist. Real Estate Opp. II B	Dec-17	10,000,000	6,230,000	3,770,000	-	6,624,354	6,624,354	1.06x
Angelo Gordon Realty Value Fund X	Jun-19	20,000,000	5,950,000	14,050,000	52,310	5,770,486	5,822,796	0.98x
Blackstone Real Estate Partners Fund IX, L.P	Sep-19	18,000,000	5,849,971	12,931,816	818,352	5,138,150	5,956,502	1.02x

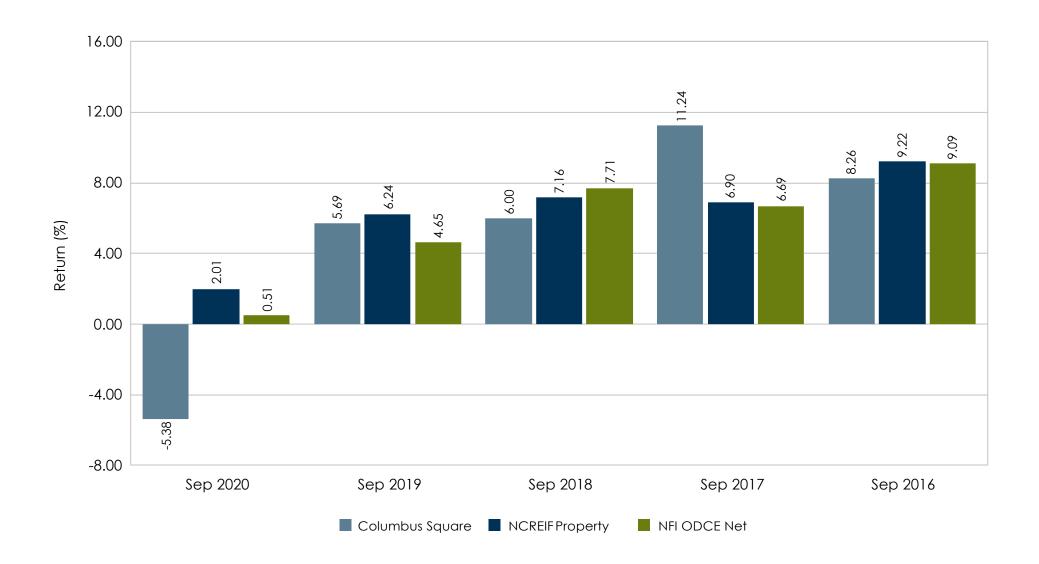
Columbus Square

For the Periods Ending September 30, 2020



Columbus Square

For the One Year Periods Ending September



Appendix

Securities Lending Income

	<u>Domestic Equity</u>	<u>Fixed Income</u>	<u>Tota</u> l
2019			
Q1	\$0	\$0	\$0
Q2	\$0	\$0	\$0
Q3	\$12,071	\$1,047	\$13,117
Q4	\$8,463	\$599	\$9,062
2019 Total	\$20,533	\$1,645	\$22,179
2020			
Q1	\$15,261	\$817	\$16,078
Q2	\$14,226	\$5,598	\$19,824
Q3	\$19 <i>,7</i> 81	\$4,948	\$24,729
Q4			\$0
2020 Total	\$49,268	\$11,362	\$60,631

Definitions of Statistical Measures

Alpha - the annualized difference between the manager's actual return and the manager's expected return given its relative risk vs. the benchmark (which is represented by beta, a measure that tracks volatility to an index).

Batting Average - a measure used to quantify a manager's ability to meet or beat a benchmark. A manager who outperforms the benchmark 20 out of a possible 40 times has a batting average of 50.

Beta - measures the portfolio's sensitivity of returns to market movements represented by the primary benchmark.

Down Capture - demonstrates the ratio of the portfolio's average returns relative to the benchmark in periods in which the benchmark had a negative return. For instance, a down-capture of 96% indicates that, on average, the portfolio is down 96% when the benchmark is down 100%. Lower portfolio down-capture is preferred.

R Squared - the amount of the manager's return that can be explained by the benchmark. A R Squared of 100 indicates a perfect correlation, while a R Squared of 0 indicates no correlation at all.

Sharpe Ratio - a measure of return per unit of risk. Higher sharpe ratios are preferred while negative ratios are generally meaningless and cannot be used for comparison purposes.

Standard Deviation - a measure of the portfolio's volatility. A large standard deviation relative to the benchmark represents volatile portfolio returns.

Tracking Error - a measure that reports the difference between the return of a manager that is received and that of a benchmark that the manager is attempting to track.

Up Capture - demonstrates the ratio of the portfolio's average returns relative to the benchmark in periods in which the benchmark had a positive return. For instance, an up-capture of 96% indicates that, on average, the portfolio is up 96% when the benchmark is up 100%. Higher portfolio up-capture is preferred.

Quality Rating Scale

Moody's Rating	S&P Rating	Prior to 1Q09	Beginning 1Q09	Beginning 3Q11	Moody's Rating	S&P Rating	Prior to 1Q09	Beginning 1Q09	Beginning 3Q11
TSY	TSY	10	26	24	Ва2	ВВ	6	13	13
AGY	AGY	10	25	24	Ва	ВВ		13	13
Aaa	AAA	10	24	24	MIG4		6	13	13
Aal	AA+	9.3	23	23	ВаЗ	BB-	5.7	12	12
Aa2	AA		22	22	В1	B+	5.3	11	11
Aa	AA	9	22	22	B2	В	5	10	10
MIG1		9	22	22	В	В		10	10
Aa3	AA-	8.7	21	21	В3	B-	4.7	9	9
A1	A+	8.3	20	20	Caal	CCC+	4.3	8	8
A-1			20	20	Caa2	CCC	4	7	7
A2	Α	8	19	19	Caa	CCC		7	7
Α	Α		19	19	Caa3	CCC-	3.7	6	6
MIG2		8	19	19	Ca	CC	3	5	5
A3	A-		18	18	С	С	2	4	4
Baal	BBB+	7.7	17	17		DDD	1	3	3
Baa2	BBB	7.3	16	16		DD		2	2
Baa	BBB	7	16	16		D		1	1
MIG3			16	16	NR	NR	N/A	-1	-1
Baa3	BBB-	7	15	15	NA	NA	N/A		
Ba1	BB+	6.7	14	14	N/A	N/A			

Historical Benchmark Composition

Total Fund Policy

10/31/1990	The index consists of 55.0% Russell 3000, 35.0% BloomBar US Aggregate, 10.0% MSCI EAFE.
06/30/2007	The index consists of 55.0% Russell 3000, 35.0% BloomBar Universal, 10.0% MSCI EAFE.
11/30/2007	The index consists of 55.0% Russell 3000, 10.0% MSCI EAFE, 30.0% BloomBar Universal, 5.0% NFI ODCE Net.
08/31/2012	The index consists of 65.0% MSCI ACWI, 30.0% BloomBar Universal, 5.0% NFI ODCE Net.
08/31/2014	The index consists of 60.0% MSCI ACWI, 30.0% BloomBar Universal, 5.0% NFI ODCE Net, 5.0% Bloomberg Commodity.
04/30/2016	The index consists of 60.0% MSCI ACWI, 25.0% BloomBar Universal, 10.0% NFI ODCE Net, 5.0% Bloomberg Commodity.
09/30/2019	The index consists of 60.0% MSCI ACWI, 25.0% BloomBar Universal, 15.0% NFI ODCE Net.

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