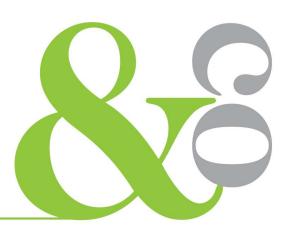
Investment Performance Review Period Ending September 30, 2022

The Woodlands Firefighters' Retirement System



3rd Quarter 2022 Market Environment



The Economy

- Broadly, global markets declined during the 3rd quarter as inflation remained elevated, causing global central banks further drain liquidity from the market, and geopolitical risks increased as the conflict in Ukraine escalated.
- While inflation moderated slightly in the US, it showed signs of increasing, especially in Europe, where UK and German inflation reached multi-decade highs. US CPI was 8.3% in August, down from 9.1% at the end of the 2nd quarter.
- The US Federal Reserve Bank (the Fed) continued to increase interest rates during the quarter by raising 0.75% at the July and September meetings. Importantly, the Fed signaled it was committed to fight inflation by additional rate hikes if needed.
- The US labor market showed its resiliency during the quarter by adding an estimated 1.1 million jobs. As a result, the unemployment rate fell to 3.5% in September. The number of workers re-entering the workforce increased slightly during the period as wage growth remained strong.
- Real estate markets were under pressure during the quarter as rising interest rates pushed mortgages to their highest levels since 2007. As of September, the average 30-year fixed mortgage was roughly 6.7%, up from roughly 3.0% last year at the same time.

Equity (Domestic and International)

- US equities declined during the 3rd quarter as concerns regarding inflation, the path of interest rates, and a slowing global economy acted as headwinds. Small cap growth was the best performing domestic segment of the equity market relative to other US market capitalizations and styles during the period while large cap value performed the worst.
- Momentum was decidedly negative in international stocks during the 3rd quarter. The escalating conflict in Ukraine, rising inflation in Europe, and tightening monetary policy all contributed to the decline. The continued strength of the US dollar, which rose against most major developed market and emerging market currencies, also acted as a headwind. Finally, China continued its zero-tolerance policy regarding Covid-19, which led to additional restrictions.

Fixed Income

- While inflation fell slightly during the quarter, the Fed continued increasing interest rates which acted as a headwind for fixed income performance during the quarter. US interest rates moved significantly higher during the quarter with the US 10-Year Treasury bond rising 83 basis points to close at 3.80%.
- Performance across all bond market sectors was negative during the quarter, with US high yield corporate bonds and US Treasury bonds down the least.
- The combination of higher coupons and a shorter maturity profile relative to high quality government bonds was the primary driver of the relative outperformance of high yield bonds during the period.
- US Treasury bonds declined less than other investment grade bond market sectors during the quarter. During periods of increased volatility, investors have historically preferred the safety of government bonds over those with credit risk.

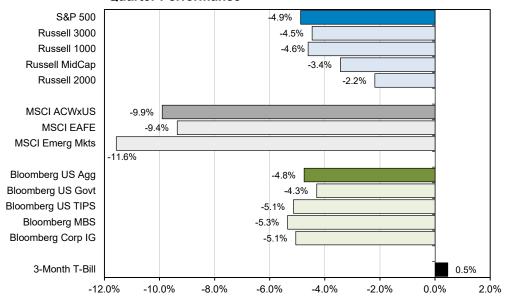
Market Themes

- Central banks remained hawkish during the quarter with several banks raising interest rates to fight higher inflation. The Fed, the Bank of England, and European Central Bank all raised rates during the quarter. Additionally, the Fed is currently allowing bonds to mature without reinvesting (quantitative tightening), while other banks are also considering similar actions. The outcome would be additional liquidity from the market.
- The escalating crisis in Ukraine spilled over as several gas pipelines were attacked in the Baltic Sea. The result was further disruption of energy supplies to Europe, Germany in particular. Energy costs have risen significantly since the start of the conflict which have negatively impacted economic activity in the region.
- US equity markets experienced their third consecutive quarter of negative performance during the 3rd quarter. Growth-oriented stocks outperformed value stocks as investors believe the Fed will begin slowing the rise of interest rates as economic growth declines. Historically, growth stocks have outperformed value stocks as the economy reaches the trough following a recession.
- Interest rates rose across the Treasury yield curve during the quarter as the Fed hiked interest rates by 0.75% at both the July and September meetings. The 3rd quarter marks the third consecutive quarter the bond market has suffered negative absolute returns. Long-term mortgage and investment grade corporate bonds underperformed during the quarter given their maturity profiles. High yield bonds outperformed primarily due to their shorter maturity profile and higher coupons.

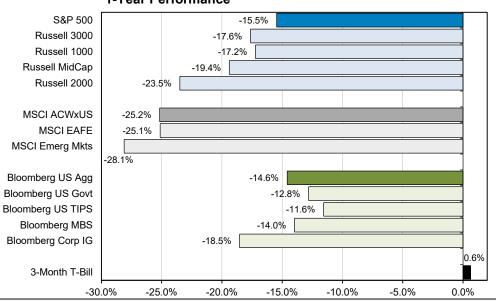


- Negative momentum continued during the 3rd quarter as broad US equity markets experienced negative returns. Factors that contributed to performance included elevated inflation, tighter monetary policy, continued geopolitical events in Ukraine, and expectations of slower economic growth. For the period, the S&P 500 large cap benchmark returned -4.9%, compared to -3.4% for mid-cap and -2.2% for small cap indices.
- Like domestic equities, developed markets international equities also suffered negative results for the 3rd quarter. Europe was negatively impacted by higher-than-expected inflation, the conflict in Ukraine, uncertainty regarding energy supplies, and rising interest rates. Emerging markets were also negatively impacted by war in Ukraine and a strengthening USD. During the period, the MSCI EAFE Index returned -9.4% while the MSCI Emerging Markets Index declined by -11.6%.
- For the quarter, performance of the bond market was broadly negative due to continued concerns about inflation and the FOMC's decision to raise interest rates twice during the period. The Bloomberg (BB) US Aggregate Index returned -4.8%, for the period while Investment Grade Corporate bonds posted a return of -5.1%.
- Performance for developed equity markets was strongly negative over the trailing 1-year period. The primary drivers of return during the period were weakening global economic growth, more restrictive monetary policy from global central banks, and elevated inflation. The S&P 500 large cap stock index led equity market performance for the year with a return of -15.5%. The outlier was the MSCI ACWI ex-US index which declined by -25.2% for the year.
- Over the trailing 1-year period, international markets fell with the developed market MSCI EAFE Index returning -25.1% while the MSCI Emerging Markets Index fell by -28.1%. Global economic growth slowed throughout the year and both developed and emerging markets were negatively impacted by a strong USD and continued geopolitical concerns.
- Bond market returns disappointed over the trailing 1-year period due primarily to concerns about rising inflation and the expectation of higher future interest rates. US TIPS were the best performing sector returning -11.6% while investment grade corporate bonds was the worst, falling -18.5%.

Quarter Performance



1-Year Performance



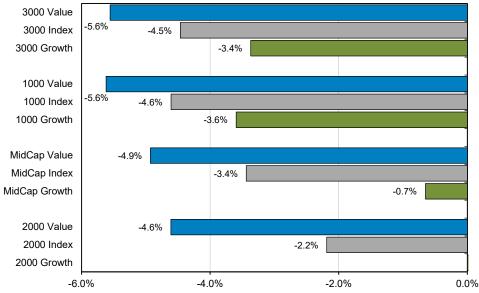
Source: Investment Metrics



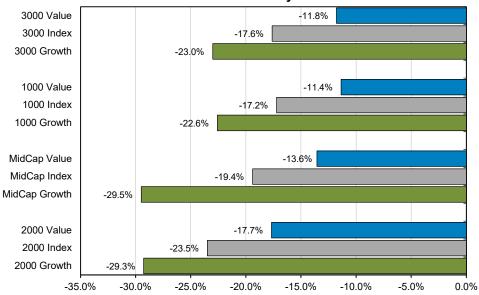
- Volatility was high during the 3rd quarter as broad US equity markets rose sharply before falling to close the period with negative results across both the style and market capitalization spectrums. Leadership switched during the quarter with small cap stocks outperforming, followed by mid and large cap issues. The Russell 2000 Index declined by -2.2% for the quarter while the Russell Mid Cap Index and the Russell 1000 Index fell by -3.4% and -4.6%, respectively.
- Performance across styles and market capitalizations was disparate during the quarter. Large, mid, and small cap growth stocks all outperformed their value counterparts. For the period, the Russell 2000 Growth Index was the best relative performing style index, posting a return of 0.0%. Large and mid cap value stocks were the laggards during the period with the Russell Large Cap Value Index and Russell Mid Cap Value Index falling by -5.6% and -4.9%, respectfully.

- Performance across all market capitalizations and styles was negative over the trailing 1-year period. Unlike the 3rd quarter, large cap stocks outperformed mid and small cap stocks for the year. The Russell 1000 Index return of -17.2% for the year, significantly outperformed both its mid and small cap growth index counterparts. The outlier during the period was the Russell 2000 Index which returned -23.5%.
- There was wide performance dispersion within across all style-based indexes. Value significantly outperformed growth over the year. Within large cap stocks, the Russell 1000 Value returned -11.4% compared to -22.6% for the Russell Large Cap Growth benchmark. The Russell Mid Cap Value Index returned -13.6% while the Russell 2000 Value Index returned -17.7% for the period. In comparison, the Russell Mid Cap Growth Index returned -29.5%, while the Russell 2000 Growth Index declined by -29.3%.

Quarter Performance - Russell Style Series



1-Year Performance - Russell Style Series

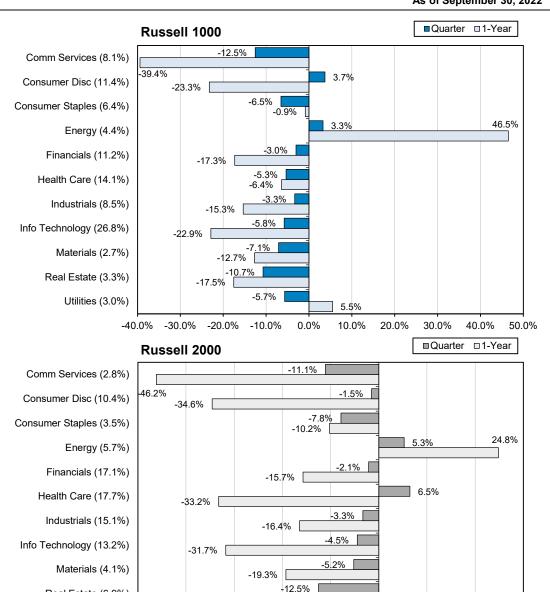


Source: Investment Metrics



- Economic sector performance was negative across nine of the eleven large cap economic sectors for the 3rd quarter. Four sectors outpaced the return of the broad index on a relative basis during the period.
- Consumer Discretionary (3.7%) and Energy (3.3%) were the only sectors with positive absolute performance during the period. Additionally, Financials (-3.0%) and Industrials (-3.3%) outperformed the broad index. Strong consumer demand acted as a tailwind for consumer-related stocks during the quarter. Energy continued its relative outperformance as the price of oil remained elevated.
- For the full year, six sectors exceeded the return of the broad large cap benchmark: Energy (46.5%), Utilities (5.5%), Consumer Staples (-0.9%), Health Care (-6.4%), Materials (-12.7%), and Industrials (-15.3%). The weakest economic sector performance in the Russell 1000 for the year was Communication Services which declined by returns (-39.4%).

- Small cap sector performance was also mixed during the quarter with two economic sectors posting positive performance relative to return of the broader Russell 2000 Index (-2.2%). Health Care (6.5%), and Energy (5.3%) were the best performing sectors for the period. Real Estate (-12.5%), and Communication Services (-11.1%) were the worst performing sectors for the quarter.
- For the trailing 1-year period, six of the eleven sectors outpaced the broad benchmark's return. Not surprisingly, sector performance was led by Energy (24.8%), Utilities (3.0%), Consumer Staples (-10.2%), Financials (-15.7%), and Industrials (-16.4%). The weakest sector over the full year was Communication Services (-46.2%), followed by Consumer Discretionary (-34.6%).



-26.3%

-30.0%

-7.6%

-20.0%

-10.0%

3.0%

10.0%

20.0%

0.0%

Real Estate (6.9%)

Utilities (3.5%)

-50.0%

-40.0%



As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.



30.0%

	Top 10 W	eighted Stoc	ks	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	6.31%	1.22%	-1.79%	Information Technology
Microsoft Corp	5.21%	-9.12%	-16.69%	Information Technology
Amazon.com Inc	3.00%	6.39%	-31.20%	Consumer Discretionary
Tesla Inc	2.02%	18.17%	2.61%	Consumer Discretionary
Alphabet Inc Class A	1.72%	-12.22%	-28.45%	Communication Services
Alphabet Inc Class C	1.55%	-12.09%	-27.85%	Communication Services
Berkshire Hathaway Inc Class B	1.44%	-2.20%	-2.17%	Financials
UnitedHealth Group Inc	1.41%	-1.36%	30.94%	Health Care
Johnson & Johnson	1.28%	-7.35%	3.82%	Health Care
Exxon Mobil Corp	1.09%	2.91%	55.15%	Energy

	Top 10 Weighted Stocks					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector		
ShockWave Medical Inc	0.45%	45.5%	35.1%	Health Care		
Biohaven Pharmaceutical Holding Co	0.43%	3.7%	8.8%	Health Care		
Chart Industries Inc	0.31%	10.1%	-3.5%	Industrials		
Karuna Therapeutics Inc	0.30%	77.8%	83.9%	Health Care		
Apellis Pharmaceuticals Inc	0.28%	51.0%	107.2%	Health Care		
Murphy USA Inc	0.28%	18.2%	65.3%	Consumer Discretionary		
Texas Roadhouse Inc	0.27%	19.8%	-2.4%	Consumer Discretionary		
SouthState Corp	0.27%	3.2%	8.5%	Financials		
RBC Bearings Inc	0.27%	12.4%	-2.1%	Industrials		
EMCOR Group Inc	0.27%	12.3%	0.5%	Information Technology		

Тор	Top 10 Performing Stocks (by Quarter)					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector		
Signify Health Inc Ordinary Shares	0.01%	111.23%	63.12%	Health Care		
First Solar Inc	0.04%	94.14%	38.56%	Information Technology		
Wolfspeed Inc	0.04%	62.90%	28.03%	Information Technology		
Penumbra Inc	0.02%	52.26%	-28.86%	Health Care		
Oak Street Health Inc Ordinary Shares	0.01%	49.15%	-42.35%	Health Care		
Sarepta Therapeutics Inc	0.03%	47.47%	19.53%	Health Care		
Constellation Energy Corp	0.08%	45.54%	N/A	Energy		
The Trade Desk Inc Class A	0.08%	42.64%	-15.01%	Information Technology		
Nutanix Inc Class A	0.01%	42.38%	-44.75%	Information Technology		
Enphase Energy Inc	0.11%	42.12%	85.02%	Energy		

Тор	Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector	
Akero Therapeutics Inc	0.04%	260.3%	52.3%	Health Care	
Forma Therapeutics Holdings Inc	0.03%	189.6%	-14.0%	Health Care	
Velo3D Inc	0.01%	185.5%	-52.9%	Industrials	
Ventyx Biosciences Inc	0.04%	185.4%	N/A	Health Care	
Verve Therapeutics Inc	0.06%	124.8%	-26.9%	Health Care	
AN2 Therapeutics Inc	0.00%	124.3%	N/A	Health Care	
Prothena Corp PLC	0.10%	123.3%	-14.9%	Health Care	
Target Hospitality Corp Class A	0.02%	121.0%	238.3%	Consumer Discretionary	
1Life Healthcare Inc Ordinary Shares	0.14%	118.8%	-15.3%	Health Care	
Global Blood Therapeutics Inc	0.19%	113.1%	167.3%	Health Care	

Botton	n 10 Perform	ing Stocks (by Quarter)	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Sotera Health Co Ordinary Shares	0.00%	-65.2%	-73.9%	Health Care
Novavax Inc	0.00%	-64.6%	-91.2%	Health Care
Spectrum Brands Holdings Inc	0.00%	-52.1%	-58.4%	Consumer Staples
AMC Entertainment Holdings Inc	0.01%	-48.6%	-81.7%	Communication Services
WeWork Inc	0.00%	-47.2%	N/A	Real Estate
The Scotts Miracle Gro Co A	0.01%	-45.4%	-70.1%	Materials
AppLovin Corp Ordinary Shares	0.01%	-43.4%	-73.1%	Information Technology
Azenta Inc	0.01%	-40.6%	-58.1%	Health Care
NCR Corp	0.01%	-38.9%	-51.0%	Information Technology
Enhabit Inc Shs	0.00%	-38.9%	N/A	Health Care

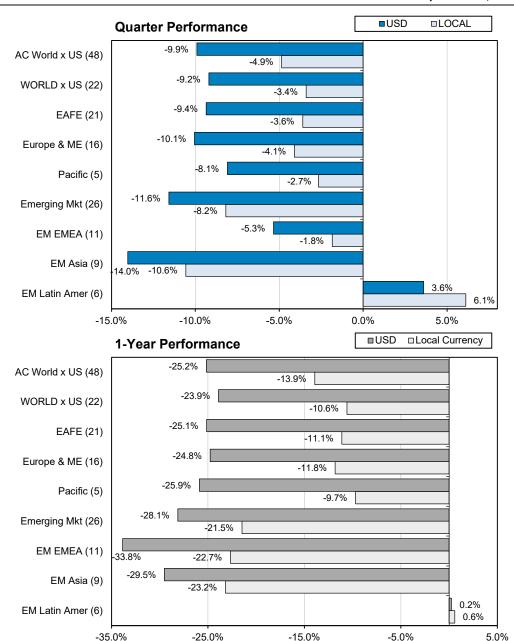
Botton	Bottom 10 Performing Stocks (by Quarter)					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector		
Leafly Holdings Inc	0.00%	-84.9%	0.0%	Communication Services		
VistaGen Therapeutics Inc	0.00%	-82.7%	N/A	Health Care		
Faraday Future Intelligent Electric Inc	0.00%	-75.5%	N/A	Consumer Discretionary		
SelectQuote Inc Ordinary Shares	0.00%	-70.6%	-94.4%	Financials		
IronNet Inc	0.00%	-68.8%	N/A	Information Technology		
Core Scientific Inc Ord Shs - Class A	0.00%	-67.9%	N/A	Consumer Discretionary		
Rockley Photonics Holdings Ltd	0.00%	-67.4%	N/A	Information Technology		
Loyalty Ventures Inc Ordinary Shares	0.00%	-66.1%	0.0%	Communication Services		
Cryptyde Inc	0.00%	-65.9%	0.0%	Materials		
Vintage Wine Estates Inc	0.00%	-64.8%	-72.9%	Consumer Staples		

Source: Morningstar Direct



Most developed and emerging market international equity indexes tracked in the chart posted negative returns in both US dollar (USD) and local currency (LC) terms for the 3rd quarter. The outlier during the period was the Latin America region. Higher commodity prices and demand benefited export-driven countries like Brazil. The developed market MSCI EAFE Index returned -9.4% in USD and -3.6% in LC terms for the period, while the MSCI Emerging Markets Index declined by -11.6% in USD and -8.2% in LC terms.

The trailing 1-year results for international developed and emerging markets were broadly negative across most regions and currencies. The MSCI EAFE Index returned -25.1% in USD for the year and -11.1% in LC terms. Similarly, returns across emerging markets were broadly lower with the exception being Latin America with the MSCI Emerging Markets Index declining by -28.1% in USD and -25.1% in LC terms. Latin America regional index's return were the outlier, rising by 0.2% in USD and 0.6% in LC term. In contrast, performance in the EMEA regional benchmark significantly detracted from emerging market index performance with the EMEA Index returning -33.8% in USD and -22.7% in LC terms, respectively, due primarily to concerns related to Ukraine.



Source: MSCI Global Index Monitor (Returns are Net)



MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	4.8%	-13.7%	-28.6%
Consumer Discretionary	11.3%	-9.8%	-32.3%
Consumer Staples	11.3%	-7.1%	-17.3%
Energy	4.9%	-5.0%	6.0%
Financials	17.6%	-9.6%	-22.1%
Health Care	13.5%	-10.6%	-19.8%
Industrials	15.0%	-8.3%	-31.5%
Information Technology	7.9%	-8.3%	-38.9%
Materials	7.5%	-8.9%	-21.3%
Real Estate	2.8%	-13.1%	-29.1%
Utilities	3.4%	-13.3%	-20.3%
Total	100.0%	-9.4%	-25.1%

MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	6.1%	-16.5%	-32.0%
Consumer Discretionary	11.4%	-13.0%	-32.3%
Consumer Staples	9.4%	-6.4%	-16.7%
Energy	6.2%	-6.3%	-5.0%
Financials	20.7%	-7.9%	-18.3%
Health Care	9.6%	-11.0%	-23.5%
Industrials	12.1%	-8.2%	-28.7%
Information Technology	10.8%	-12.1%	-39.3%
Materials	8.2%	-7.9%	-21.1%
Real Estate	2.4%	-14.5%	-29.8%
Utilities	3.4%	-10.9%	-16.0%
Total	100.0%	-9.9%	-25.2%

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	9.7%	-19.3%	-36.2%
Consumer Discretionary	14.0%	-18.7%	-33.7%
Consumer Staples	6.6%	-4.5%	-17.8%
Energy	5.3%	-2.6%	-30.1%
Financials	22.6%	-5.1%	-14.3%
Health Care	3.9%	-13.8%	-42.8%
Industrials	5.8%	-9.9%	-20.8%
Information Technology	18.3%	-15.5%	-36.1%
Materials	8.7%	-7.4%	-26.3%
Real Estate	2.0%	-19.3%	-31.9%
Utilities	3.2%	-4.3%	-8.0%
Total	100.0%	-11.6%	-28.1%

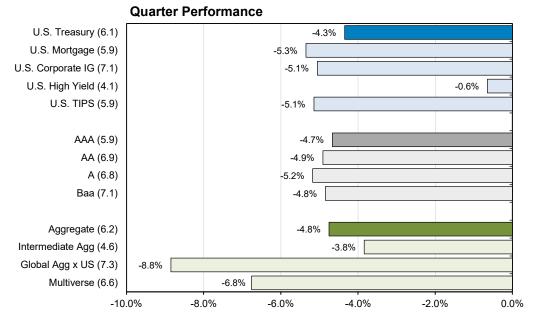
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Country	MSCI-EAFE	MSCI-ACWIxUS Weight	Quarter Return	1- Year
Country Japan	Weight 22.6%	14.1%	-7.7%	Return -29.3%
United Kingdom	15.5%	9.7%	-10.8%	-14.1%
France	11.3%	7.1%	-8.9%	-24.0%
Switzerland	10.7%	6.7%	-7.5%	-16.5%
Australia	8.0%	5.0%	-6.7%	-16.4%
Germany	7.6%	4.7%	-12.6%	-37.1%
Netherlands	4.1%	2.6%	-10.7%	-38.2%
Sweden	3.4%	2.1%	-8.8%	-35.7%
Hong Kong	3.0%	1.9%	-0.0%	-35.7%
Denmark		1.7%	-17.0%	
Spain	2.6%	1.5%	-12.3% -14.1%	-23.5% -25.6%
Italy	2.4%	1.4%	-14.1%	-28.5%
Singapore	1.6%	1.4%	-8.5% -1.5%	-28.5% -22.1%
Belgium	1.0%	0.6%	-13.2%	-22.1%
Finland Norway	1.0%	0.6%	-7.2% -15.3%	-25.0% -20.7%
· ·				
Israel	0.8%	0.5%	-1.9%	-21.8%
Ireland	0.6%	0.4%	-5.5%	-38.9%
Portugal	0.2%	0.1%	-11.0%	-12.9%
Austria	0.2%	0.1%	-15.2%	-40.9%
New Zealand	0.2%	0.1%	-8.6%	-33.4%
Total EAFE Countries	100.0%	62.5%	-9.4%	-25.1%
Canada		8.2%	-7.8%	-12.6%
Total Developed Countries		70.7%	-9.2%	-23.9%
China		9.2%	-22.5%	-35.4%
Taiwan		4.0%	-14.5%	-30.5%
India		4.5%	6.5%	-9.9%
Korea		3.1%	-16.4%	-40.7%
Brazil		1.7%	8.5%	4.3%
Saudi Arabia		1.4%	-0.1%	1.9%
South Africa		1.0%	-12.3%	-19.2%
Mexico		0.7%	-5.4%	-7.4%
Thailand		0.6%	-2.9%	-6.8%
Indonesia		0.6%	7.8%	14.3%
Malaysia		0.4%	-7.1%	-15.9%
United Arab Emirates		0.4%	-2.5%	5.1%
Qatar		0.4%	3.1%	12.7%
Kuwait		0.3%	-5.5%	6.4%
Philippines		0.2%	-13.6%	-26.3%
Poland		0.2%	-25.1%	-51.9%
Chile		0.2%	3.2%	0.6%
Turkey		0.1%	16.3%	3.8%
Peru		0.1%	-0.9%	3.0%
Greece		0.1%	-7.5%	-25.2%
Colombia		0.0%	-18.5%	-23.6%
Czech Republic		0.0%	-19.2%	-9.8%
Hungary		0.0%	-15.0%	-54.3%
Egypt		0.0%	-1.3%	-28.8%
Total Emerging Countries		29.3%	-11.6%	-28.1%
Total ACWIxUS Countries		100.0%	-9.9%	-25.2%

Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)

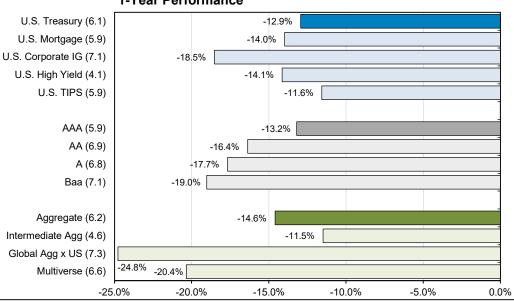
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- Fixed income market results were broadly negative during the 3rd quarter. Investors' concerns about rising inflation, combined with expectations of higher US interest rates, detracted from performance. As a result, US Treasury yields continued to rise across the maturity curve throughout the quarter.
- The return for the BB US Aggregate Bond Index, the bellwether investment grade benchmark, was down -4.8% for the period.
- Performance across the investment grade index's segments was also negative during the period with the US Corporate Investment Grade bonds returning -5.1% and the US Mortgage index component posting a return of -5.3%.
- High yield bonds outperformed their investment grade counterparts, but still
 declined by -0.6%. US TIPS, which have delivered strong performance in
 recent periods, posted a decline of -5.1% as investors' expectations of future
 inflation declined.
- Outside of domestic markets, the BB Global Aggregate ex US Index posted a return of -8.8% for the quarter. Like domestic bonds, global bond index performance was negatively impacted by rising interest rates and a strengthening USD, which acted as a drag on domestic index returns.
- Over the trailing 1-year period, domestic investment grade benchmark performance was negative, led lower by investment grade corporate bonds (-18.5%), followed by mortgage-backed bonds (-14.0%), US Treasury bonds (-12,9%), and US TIPS (-11.6%). The bellwether Bloomberg US Aggregate Bond Index (-14.6%) declined for the year.
- Lower quality high yield corporate bonds outperformed their investment grade counterparts on a relative basis with the Bloomberg US High Yield Index returning -14.1% for the period.
- Performance for non-US bonds was broadly negative for the year with the developed market Bloomberg Global Aggregate ex US Index falling by -24.9%. The combination of rising interest rates overseas, persistent inflation, and USD strength hindered index performance for the year.



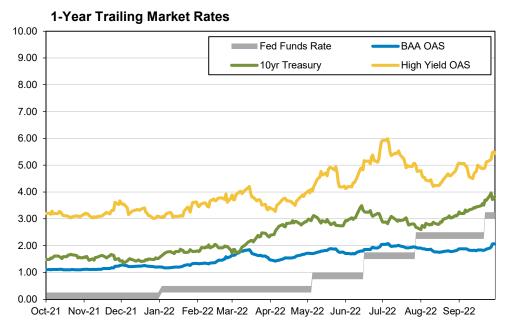
1-Year Performance

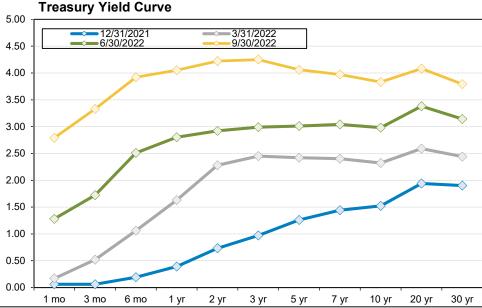


Source: Bloomberg



- The gray band across the graph illustrates the range of the current Fed Funds Rate. In the 3rd quarter this year, the Fed raised its target rate range from 1.75% to 3.25%. During its recent September meeting, the Federal Open Market Committee (FOMC) stated it intends to continue to remove liquidity from the market by raising interest rates and also allowing bonds held on its balance sheet to mature without reinvesting those proceeds. Importantly, the FOMC stated that it will remain vigilant in its fight against persistently higher inflation.
- The yield on the US 10-year Treasury (green line) ended the period higher as concerns over the pace of inflation, combined with the Fed's announced rate increase, drove yields higher. Interest rates continued to climb during the quarter, reaching a high of roughly 4.00% during the latter part of September 2022, before settling at 3.83% at the end of the month.
- The blue line illustrates changes in the BAA OAS (Option Adjusted Spread). This measure quantifies the additional yield premium that investors require to purchase and hold non-US Treasury investment grade issues. For the full year, the spread widened slightly from 1.10% to 2.06%. High Yield OAS was largely unchanged during the year as spreads rose from 3.17% to 5.43%. High Yield spreads reached as high as 5.80% in early July before trading lower the remainder of the quarter.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four quarters. Short-term rates continued to rise during the 3rd quarter as the FOMC continued raising rates to combat rising inflation. Both intermediate and longer-term rates were modestly higher across the curve, albeit less dramatically than short-term rates. The curve remained inverted between 2-year rates and 10-year rates. Said differently, the short-term rate was higher than the long-term rate. Historically, a persistent inversion of these two key rates has been an indication of a future recession withing 6- to 24-months.





Source: US Department of Treasury, FRED (Federal Reserve of St. Louis)

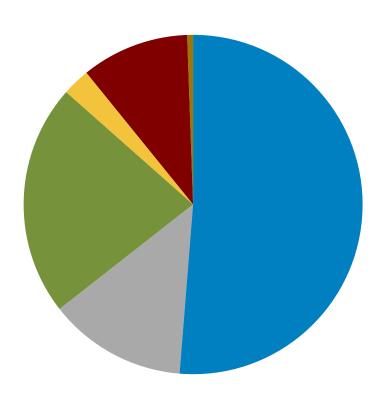


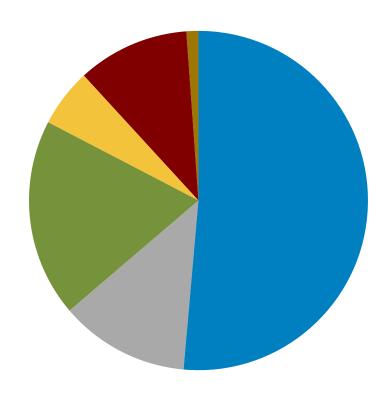
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Asset Allocation By Segment as of June 30, 2022 : \$54,467,032

Asset Allocation By Segment as of September 30, 2022 : \$52,617,810



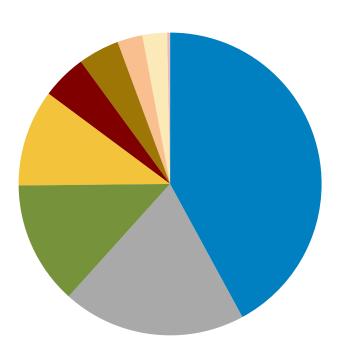


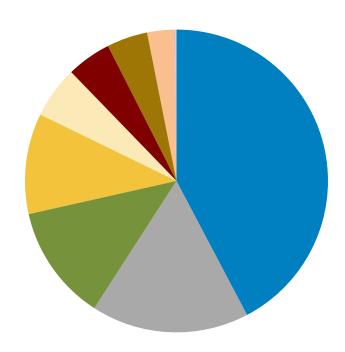
cation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
■ Domestic Equity	27,926,038	51.3	■ Domestic Equity	27,045,781	51.4
■ International Equity	7,173,089	13.2	International Equity	6,503,680	12.4
■ Domestic Fixed Income	12,025,255	22.1	Domestic Fixed Income	9,926,457	18.9
Other Fixed Income	1,436,274	2.6	Other Fixed Income	2,919,844	5.5
■ Real Estate	5,599,684	10.3	■ Real Estate	5,619,568	10.7
Cash Equivalent	306,693	0.6	■ Cash Equivalent	602,480	1.1



Asset Allocation By Manager as of June 30, 2022 : \$54,467,032

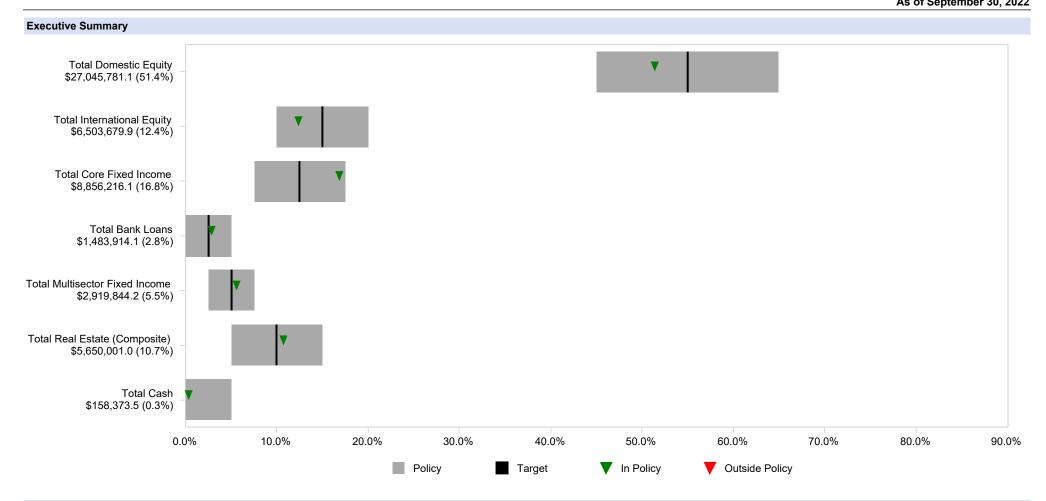
Asset Allocation By Manager as of September 30, 2022 : \$52,617,810





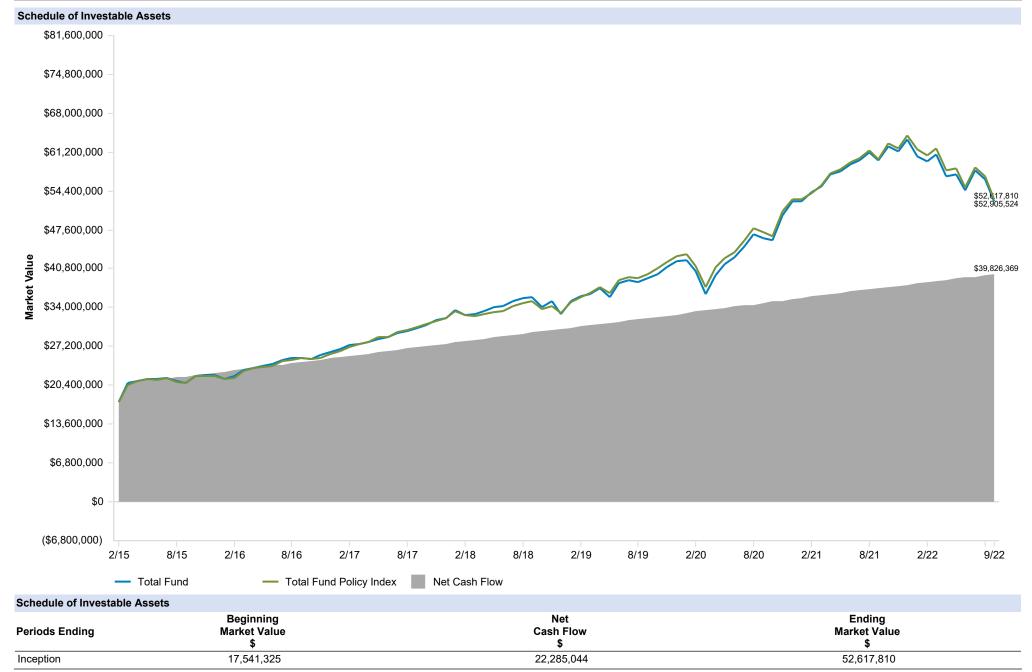
ocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Vanguard Total Stock Index (VITSX)	22,921,015	42.1	■ Vanguard Total Stock Index (VITSX)	22,252,842	42.3
■ Garcia Hamilton	10,669,717	19.6	■ Garcia Hamilton	8,856,216	16.8
■ EuroPacific Growth R6 (RERGX)	7,173,089	13.2	EuroPacific Growth R6 (RERGX)	6,503,680	12.4
Clarion (Core Real Estate)	5,628,958	10.3	Clarion (Core Real Estate)	5,650,001	10.7
■ American Beacon SC Value R6 (AASRX)	2,614,821	4.8	Apollo Total Return Fund	2,919,844	5.5
■ Conestoga Small Cap I (CCALX)	2,390,201	4.4	American Beacon SC Value R6 (AASRX)	2,503,896	4.8
Pacific Funds Floating Rate (PLFRX)	1,462,898	2.7	Conestoga Small Cap I (CCALX)	2,289,043	4.4
Apollo Total Return Fund	1,436,274	2.6	Pacific Funds Floating Rate (PLFRX)	1,483,914	2.8
Mutual Fund Cash	145,240	0.3	Mutual Fund Cash	100,785	0.2
Frost Bank Cash Account	24,820	0.0	Frost Bank Cash Account	57,589	0.1





Asset Allocation Compliance						
	Asset Allocation \$	Current Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)	Target Rebal. (\$000)
Total Fund	52,617,810	100.0	N/A	N/A	100.0	-
Total Domestic Equity	27,045,781	51.4	45.0	65.0	55.0	1,894,014
Total International Equity	6,503,680	12.4	10.0	20.0	15.0	1,388,992
Total Core Fixed Income	8,856,216	16.8	7.5	17.5	12.5	-2,278,990
Total Bank Loans	1,483,914	2.8	0.0	5.0	2.5	-168,469
Total Multisector Fixed Income	2,919,844	5.5	2.5	7.5	5.0	-288,954
Total Real Estate (Composite)	5,650,001	10.7	5.0	15.0	10.0	-388,220
Total Cash	158,373	0.3	0.0	5.0	0.0	-158,373







The Woodlands Firefighters' Retirement System Financial Reconciliation

1 Quarter Ending September 30, 2022

Financial Reconciliation One Quarter									
	Market Value 07/01/2022	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 09/30/2022
Total Fund	54,467,032	-	788,954	-132,054	-15,370	-38,540	258,675	-2,710,888	52,617,810
Total Domestic Equity	27,926,038	400,000	-	-	-	-	98,284	-1,378,540	27,045,781
Vanguard Total Stock Index (VITSX)	22,921,015	400,000	-	-	-	-	98,284	-1,166,457	22,252,842
American Beacon SC Value R6 (AASRX)	2,614,821	-	-	-	-	-	-	-110,925	2,503,896
Conestoga Small Cap I (CCALX)	2,390,201	-	-	-	-	-	-	-101,158	2,289,043
Total International Developed Equity	7,173,089	-	-	-	-	-	-	-669,409	6,503,680
EuroPacific Growth R6 (RERGX)	7,173,089	-	-	-	-	-	-	-669,409	6,503,680
Total Core Fixed Income	10,669,717	-1,250,000	-	-	-	-796	76,852	-639,556	8,856,216
Garcia Hamilton	10,669,717	-1,250,000	-	-	-	-796	76,852	-639,556	8,856,216
Total Bank Loans	1,462,898	-	-	-	-	-	22,994	-1,978	1,483,914
Pacific Funds Floating Rate (PLFRX)	1,462,898	-	-	-	-	-	22,994	-1,978	1,483,914
Total Multisector Fixed Income	1,436,274	1,482,166	-	-	-	-	17,834	-16,430	2,919,844
Apollo Total Return Fund	1,436,274	1,482,166	-	-	-	-	17,834	-16,430	2,919,844
Total Real Estate	5,628,958	-	-	-	-15,370	-	41,388	-4,975	5,650,001
Clarion	5,628,958	-	-	-	-15,370	-	41,388	-4,975	5,650,001
Total Cash	170,059	-632,166	788,954	-132,054		-37,744	1,323		158,373
Frost Bank Cash Account	24,820	166,000	-	-132,054	-	-1,354	177	-	57,589
Mutual Fund Cash	145,240	-798,166	788,954	-	-	-36,390	1,146	-	100,785



The Woodlands Firefighters' Retirement System Financial Reconciliation

Year To Date Ending September 30, 2022

Financial Reconciliation Year to Date									
	Market Value 01/01/2022	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Income	Apprec./ Deprec.	Market Value 09/30/2022
Total Fund	63,441,556	-	2,330,652	-280,088	-57,473	-136,425	718,024	-13,398,436	52,617,810
Total Domestic Equity	36,202,504	-250,000	-	-	•	-	274,277	-9,181,000	27,045,781
Vanguard Total Stock Index (VITSX)	29,247,917	250,000	-	-	-	-	274,277	-7,519,352	22,252,842
American Beacon SC Value R6 (AASRX)	3,586,523	-500,000	-	-	-	-	-	-582,627	2,503,896
Conestoga Small Cap I (CCALX)	3,368,064	-	-	-	-	-	-	-1,079,021	2,289,043
Total International Developed Equity	8,485,942	950,000	-	-	-	-	39,605	-2,971,866	6,503,680
EuroPacific Growth R6 (RERGX)	8,485,942	950,000	-	-	-	-	39,605	-2,971,866	6,503,680
Total Core Fixed Income	12,116,613	-1,750,000		-	-14,488	-2,509	201,305	-1,694,705	8,856,216
Garcia Hamilton	12,116,613	-1,750,000	-	-	-14,488	-2,509	201,305	-1,694,705	8,856,216
Total Bank Loans	1,536,887	-	-	-	-	-	54,292	-107,265	1,483,914
Pacific Funds Floating Rate (PLFRX)	1,536,887	-	-	-	-	-	54,292	-107,265	1,483,914
Total Multisector Fixed Income	-	2,982,166	-	-	-	-	17,834	-80,156	2,919,844
Apollo Total Return Fund	-	2,982,166	-	-	-	-	17,834	-80,156	2,919,844
Total Real Estate	4,927,376	-	-	-	-42,985	-	129,054	636,556	5,650,001
Clarion	4,927,376	-	-	-	-42,985	-	129,054	636,556	5,650,001
Total Cash	172,234	-1,932,166	2,330,652	-280,088	-	-133,916	1,657	-	158,373
Frost Bank Cash Account	30,383	311,000	-	-280,088	-	-3,944	238	-	57,589
Mutual Fund Cash	141,851	-2,243,166	2,330,652	-	-	-129,972	1,419	-	100,785



Asset Allocation & Performance										
	Allocation	n			All Per	formance Data	a is Net of Fee	s(%)		
	Market Value	%	QTR	YTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
Total Fund (Net)	52,617,810	100.0	-4.45 (51)	-19.74 (53)	-15.60 (45)	2.15 (23)	4.76 (18)	5.01 (30)	4.97 (43)	03/01/2015
Total Fund Policy Index All Public Plans-Total Fund (Net)			-4.80 (68) -4.44	-20.13 (60) -19.66	-15.36 (42) -16.08	1.44 (34) 0.47	4.51 (24) 3.38	5.16 (25) 4.50	5.10 (36) 4.74	
New Portfolio Structure 10/1/19	52,617,810	100.0	-4.45	-19.74	-15.60	2.15	4.76	-	4.76	10/01/2019
Total Fund Policy Index			-4.80	-20.13	-15.36	1.44	4.51	5.16	4.51	
Total Equity	33,549,461	63.8	-5.43	-26.38	-21.56	2.12	5.40	5.82	6.32	03/01/2015
Total Domestic Equity	27,045,781	51.4	-4.43	-24.95	-18.56	4.93	7.09	-	6.69	07/01/2019
Vanguard Total Stock Index (VITSX) CRSP U.S. Total Market TR Index IM U.S. Multi-Cap Core Equity (MF) Median	22,252,842	42.3	-4.46 (41) -4.44 (39) -4.63	-24.88 (59) -24.86 (58) -24.30	-18.00 (60) -17.98 (59) -17.30	4.08 (47) 4.09 (47) 3.97	7.61 (28) 7.60 (28) 6.41	- 8.56 (-)	7.36 (30) 7.36 (30) 6.33	07/01/2019
American Beacon SC Value R6 (AASRX) Russell 2000 Value Index IM U.S. Small Cap Value Equity (MF) Median	2,503,896	4.8	-4.24 (36) -4.61 (42) -5.41	-18.88 (32) -21.12 (74) -19.93	-13.40 (31) -17.69 (86) -15.25	18.00 (59) 16.16 (80) 18.57	5.76 (51) 4.72 (75) 5.76	2.87 (-)	4.95 (60) 4.17 (78) 5.32	07/01/2019
Conestoga Small Cap I (CCALX) Russell 2000 Growth Index IM U.S. Small Cap Growth Equity (MF) Median	2,289,043	4.4	-4.23 (87) 0.24 (24) -1.36	-32.04 (67) -29.28 (40) -30.40	-28.62 (43) -29.27 (54) -29.12	-0.77 (42) -2.91 (65) -1.49	2.86 (79) 2.94 (78) 4.73	3.60 (-)	1.48 (71) 1.37 (74) 2.86	07/01/2019
Total International Developed Equity	6,503,680	12.4	-9.33	-32.02	-32.78	-8.42	-1.18	-	-1.57	07/01/2019
EuroPacific Growth R6 (RERGX) MSCI AC World ex USA (Net) IM International Large Cap Core Equity (MF) Median	6,503,680	12.4	-9.33 (27) -9.91 (44) -10.18	-32.10 (92) -26.50 (33) -27.74	-32.87 (100) -25.17 (43) -25.40	-8.48 (95) -3.70 (46) -3.98	-1.25 (44) -1.52 (48) -1.80	-0.81 (-) -	-1.64 (43) -1.95 (49) -2.05	07/01/2019

	Allocation	All Performance Data is Net of Fees(%)								
	Market Value	%	QTR	YTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
Total Fixed Income	13,259,974	25.2	-3.98	-11.32	-11.27	-6.26	-2.26	-0.09	0.50	03/01/2015
Total Core Fixed Income	8,856,216	16.8	-5.35	-12.89	-12.90	-7.56	-2.94	-	-2.02	07/01/2019
Garcia Hamilton BImbg. U.S. Aggregate Index IM U.S. Broad Market Core Fixed Income (SA+CF) Median	8,856,216	16.8	-5.35 (97) -4.75 (73) -4.57	-12.78 (7) -14.61 (69) -14.42	-12.74 (6) -14.60 (66) -14.36	-7.30 (40) -8.00 (80) -7.56	-2.72 (51) -3.26 (95) -2.70	-0.27 (-) -	-1.81 (51) -2.34 (96) -1.81	07/01/2019
Total Bank Loans	1,483,914	2.8	1.44	-3.45	-2.73	1.99	1.33	-	1.60	07/01/2019
Pacific Funds Floating Rate (PLFRX) Credit Suisse Leveraged Loan Index IM U.S. Bank Loans (MF) Median	1,483,914	2.8	1.44 (18) 1.18 (37) 1.05	-3.45 (13) -3.32 (11) -4.58	-2.73 (11) -2.63 (10) -4.19	1.99 (31) 2.77 (15) 1.40	1.33 (24) 2.12 (2) 0.79	3.00 (-)	1.61 (22) 2.24 (2) 0.95	07/01/2019
Total Multisector Fixed Income	2,919,844	5.5	0.37	-	-	-	-	-	-3.90	04/01/2022
Apollo Total Return Fund Blmbg. Global Multiverse	2,919,844	5.5	0.37 -6.76	- -19.78	- -20.34	- -10.95	- -5.63	- -2.26	-3.90 -14.61	04/01/2022
Total Real Estate	5,650,001	10.7	0.65 (44)	15.56 (1)	24.59 (1)	20.09 (28)	13.80 (16)	-	13.80 (16)	10/01/2019
NCREIF Fund Index-ODCE (VW) IM U.S. Open End Private Real Estate (SA+CF) Median			0.52 (57) 0.58	13.08 (39) 12.57	22.09 (17) 20.33	18.30 (51) 18.30	12.37 (50) 12.37	10.24 (-)	12.37 (50) 12.37	
Clarion NCREIF Fund Index-ODCE (VW) IM U.S. Open End Private Real Estate (SA+CF) Median	5,650,001	10.7	0.65 (44) 0.52 (57) 0.58	15.56 (1) 13.08 (39) 12.57	24.59 (1) 22.09 (17) 20.33	20.09 (28) 18.30 (51) 18.30	13.80 (16) 12.37 (50) 12.37	- 10.24 (-) -	13.80 (16) 12.37 (50) 12.37	10/01/2019
Total Cash	158,373	0.3	0.61	0.75	0.76	0.41	0.61	-	0.75	07/01/2019
Frost Bank Cash Account	57,589	0.1	0.63	0.79	0.80	0.41	0.60	-	0.72	07/01/2019
Mutual Fund Cash	100,785	0.2	0.60	0.75	0.75	0.39	0.60	-	0.73	07/01/2019



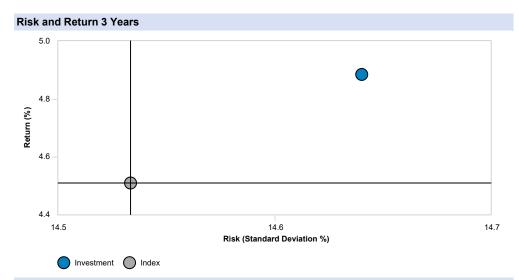
Parentheses contain percentile rankings.
Calculation based on <Periodicity> periodicity.

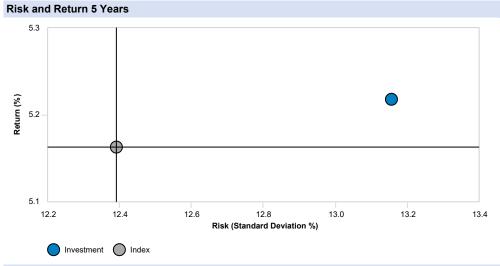


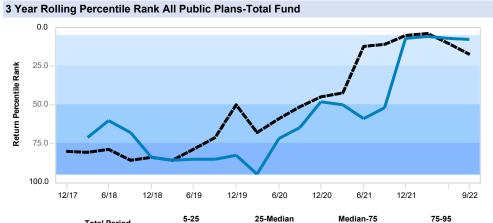
As of	September	30.	2022	

Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	4.89	14.64	0.36	100.91	8	99.07	4
Index	4.51	14.53	0.33	100.00	8	100.00	4

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	5.22	13.16	0.36	105.45	14	106.62	6
Index	5.16	12.39	0.37	100.00	14	100.00	6







Count

2 (11%)

3 (15%)

Count

6 (32%)

7 (35%)

Count

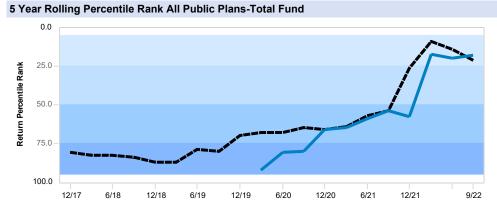
7 (37%)

4 (20%)

Count

4 (21%)

6 (30%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	11	3 (27%)	0 (0%)	5 (45%)	3 (27%)	
Index	20	3 (15%)	1 (5%)	8 (40%)	8 (40%)	



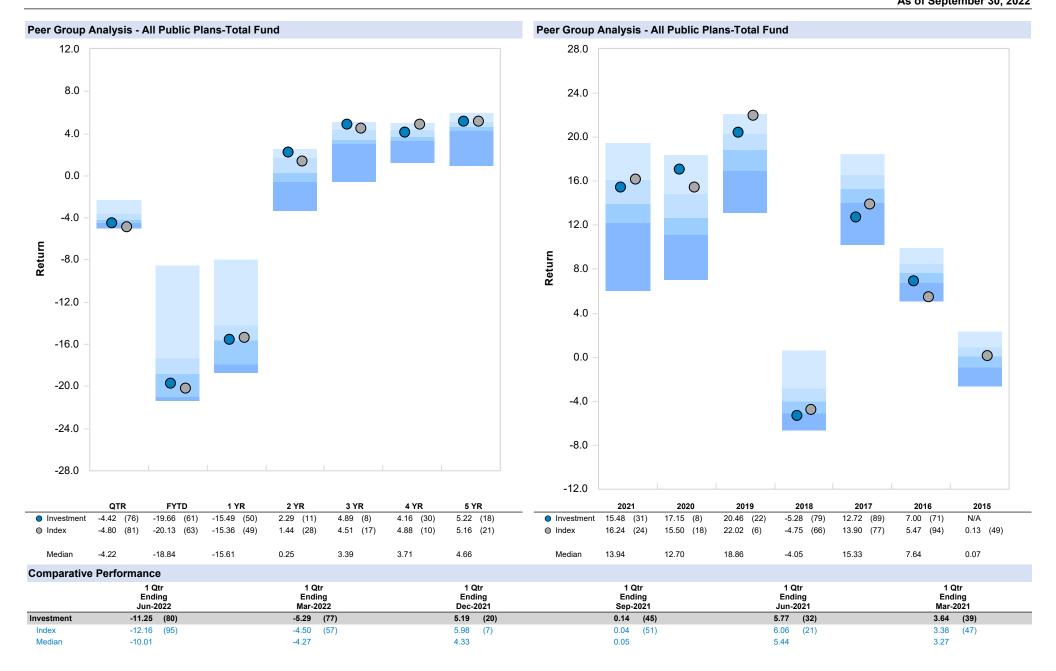
Investment

__ Index

Total Period

19

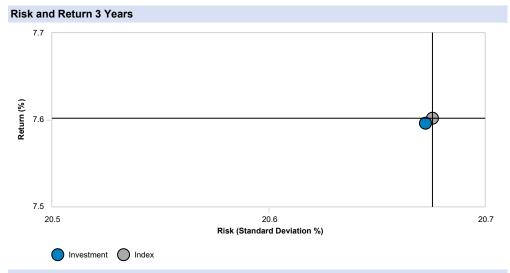
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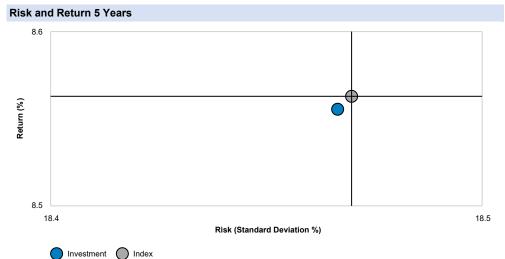


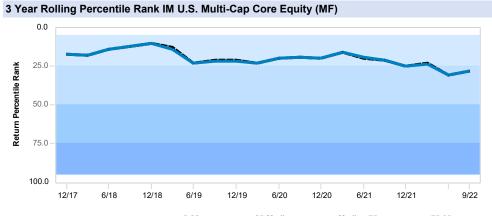


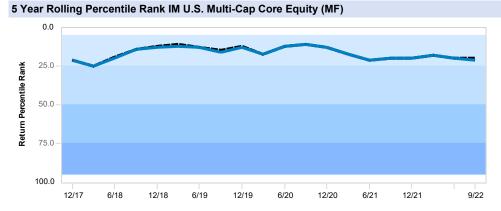
Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.60	20.67	0.43	99.99	7	100.00	5
Index	7.60	20.68	0.43	100.00	7	100.00	5

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.56	18.47	0.48	99.97	13	100.00	7
Index	8.56	18.47	0.48	100.00	13	100.00	7





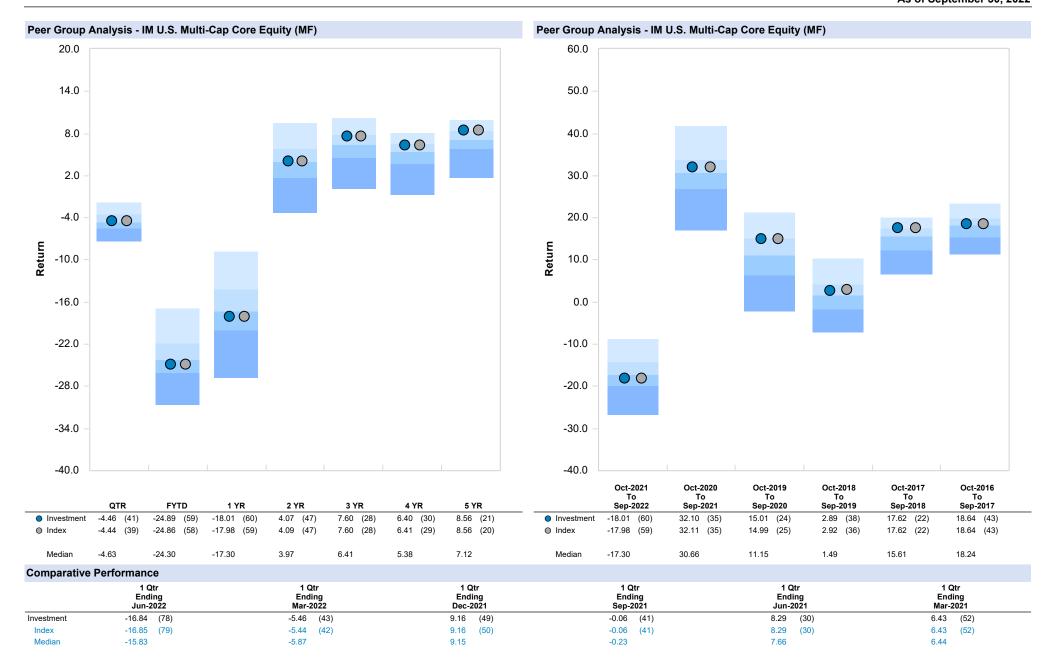




	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	20	18 (90%)	2 (10%)	0 (0%)	0 (0%)	
Index	20	18 (90%)	2 (10%)	0 (0%)	0 (0%)	

	Total Period	5-25 Count	Count	Count	Count	
Investment	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)	
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)	

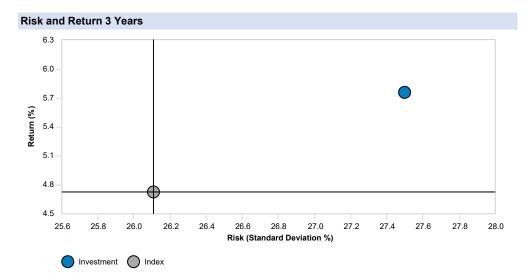


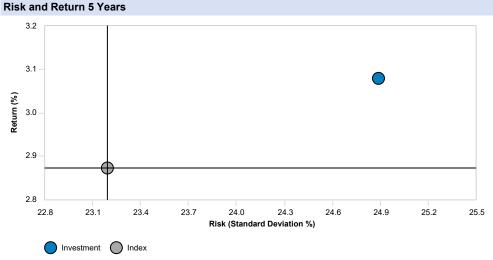


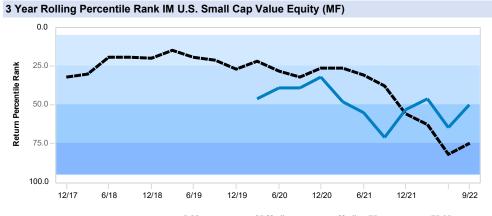


Historical Statistics 3 Years											
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters				
Investment	5.76	27.50	0.33	104.97	7	101.56	5				
Index	4.72	26.11	0.29	100.00	7	100.00	5				

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	3.08	24.89	0.21	107.21	12	106.27	8
Index	2.87	23.19	0.19	100.00	12	100.00	8





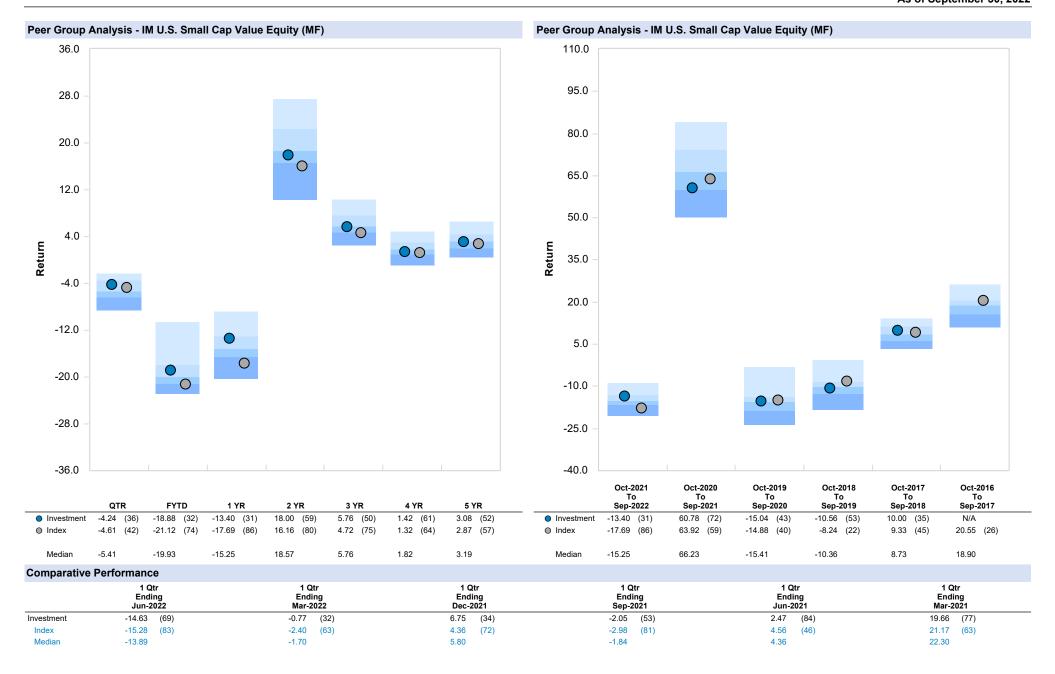


5 Ye	ear Ro	lling Pe	ercentile	Rank IM	U.S. Sm	nall Cap \	/alue Eq	uity (MF)			
	0.0										
Rank	25.0 -		· prome				~~~~				
Return Percentile Rank	50.0 -										
Retur	75.0										
	100.0	12/17	6/18	12/18	6/19	12/19	6/20	12/20	6/21	12/21	9/22

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	11	0 (0%)	7 (64%)	4 (36%)	0 (0%)	
Index	20	7 (35%)	9 (45%)	3 (15%)	1 (5%)	

	Total Period	5-25 Count		25-Me Cou		Media		75-S Cou		
Investment	3	0 (0)%)	0	(0%)	3	(100%)	0	(0%)	
Index	20	11 (5	55%)	7	(35%)	2	(10%)	0	(0%)	

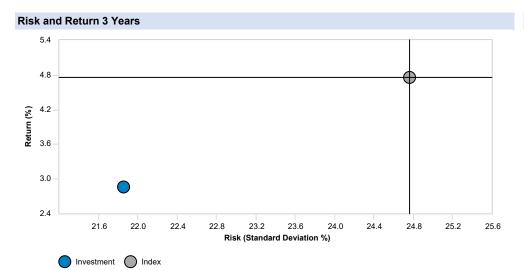


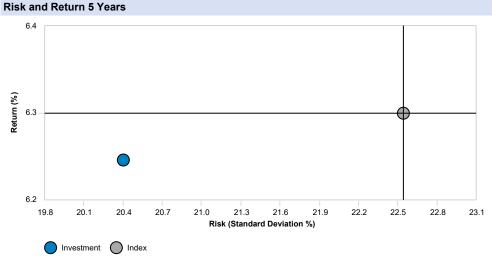


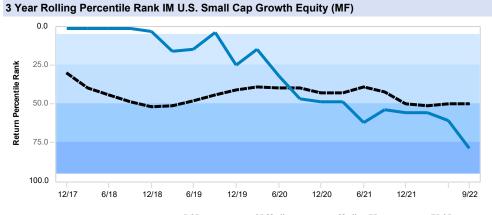


Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.86	21.86	0.21	82.21	8	86.07	4
Index	4.76	24.76	0.29	100.00	7	100.00	5

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	6.25	20.40	0.34	90.38	14	89.08	6
Index	6.30	22.54	0.33	100.00	13	100.00	7





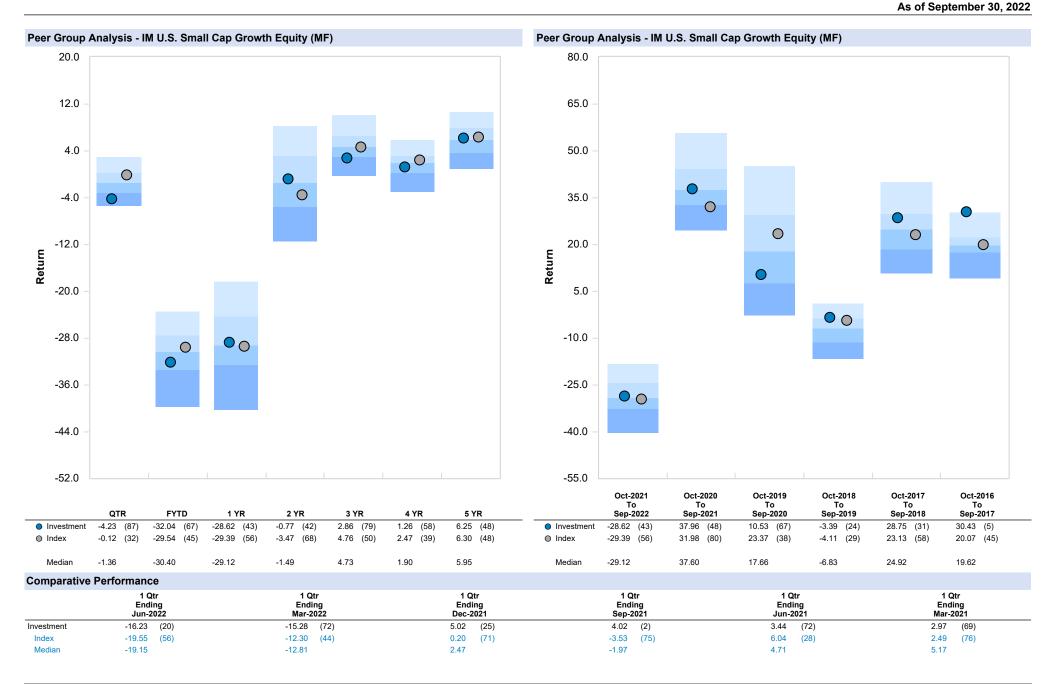


5 Y	ear Ro	lling P	ercentile	Rank IM	U.S. Sm	nall Cap (Frowth E	Equity (M	F)		
	0.0										
le Rank	25.0 -	===	·~~~								
Return Percentile Rank	50.0 -										
Retur	75.0-										
	100.0	12/17	6/18	12/18	6/19	12/19	6/20	12/20	6/21	12/21	9/22

	Total Period	5-2 Cou		25-Me Cou		Media Cou		75- Coւ		
Investment	20	10	(50%)	4	(20%)	5	(25%)	1	(5%)	
Index	20	0	(0%)	17	(85%)	3	(15%)	0	(0%)	

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	13	5 (38%)	8 (62%)	0 (0%)	0 (0%)
Index	20	5 (25%)	14 (70%)	1 (5%)	0 (0%)



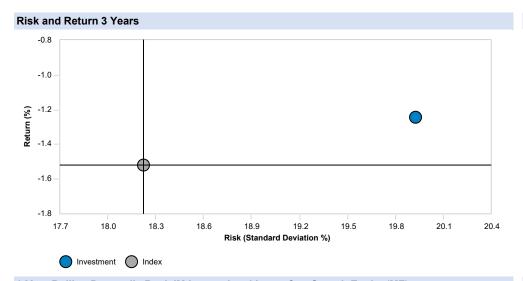


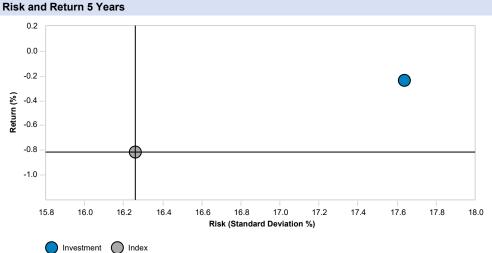


As of September 30, 2022

Historical Statistics 3 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	-1.24	19.93	0.01	110.18	5	107.80	7			
Index	-1.52	18.22	-0.02	100.00	7	100.00	5			

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	-0.23	17.64	0.01	107.31	9	103.73	11
Index	-0.81	16.26	-0.04	100.00	11	100.00	9







Count

10 (50%)

4 (20%)

Count

0 (0%)

10 (50%)

Count

5 (25%)

5 (25%)

Count

5 (25%)

1 (5%)

5 Y	ear Ro	lling Pe	rcentile	Rank IM	Internat	tional Lar	ge Cap	Growth E	quity (N	1F)	
	0.0										
ntile Rank	25.0 -					~					
Return Percentile Rank	50.0 - 75.0 -				·			· · · · · ·			
	100.0	12/17	6/18	12/18	6/19	12/19	6/20	12/20	6/21	12/21	9/22

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	7 (35%)	12 (60%)	1 (5%)	0 (0%)
Index	20	0 (0%)	1 (5%)	13 (65%)	6 (30%)



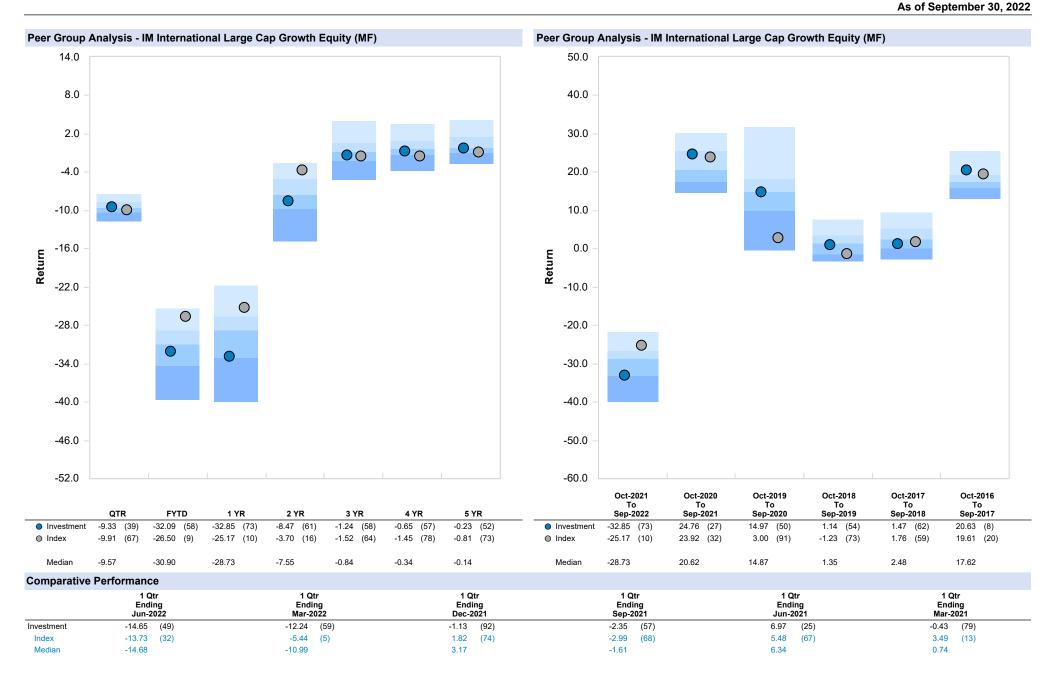
Investment

__ Index

Total Period

20

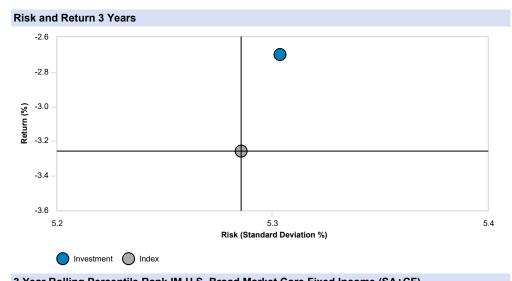
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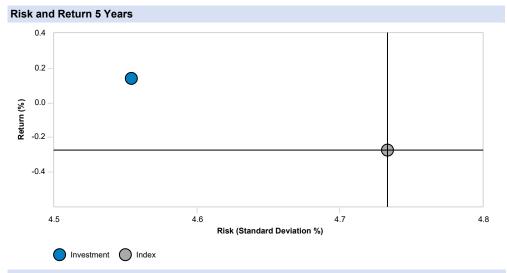




Historical Statistics 3 Years												
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters					
Investment	-2.70	5.30	-0.59	103.27	5	95.23	7					
Index	-3.26	5.29	-0.70	100.00	8	100.00	4					

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	0.14	4.55	-0.20	94.65	11	88.12	9
Index	-0.27	4.73	-0.28	100.00	14	100.00	6







Count

5 (25%)

1 (5%)

Count

9 (45%)

19 (95%)

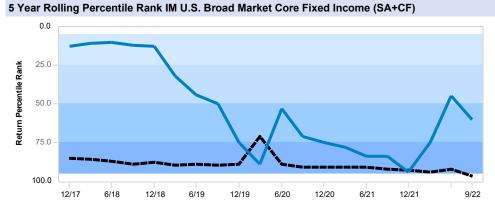
Count 5 (25%)

0 (0%)

Count

1 (5%)

0 (0%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	5 (25%)	4 (20%)	6 (30%)	5 (25%)
Index	20	0 (0%)	0 (0%)	1 (5%)	19 (95%)

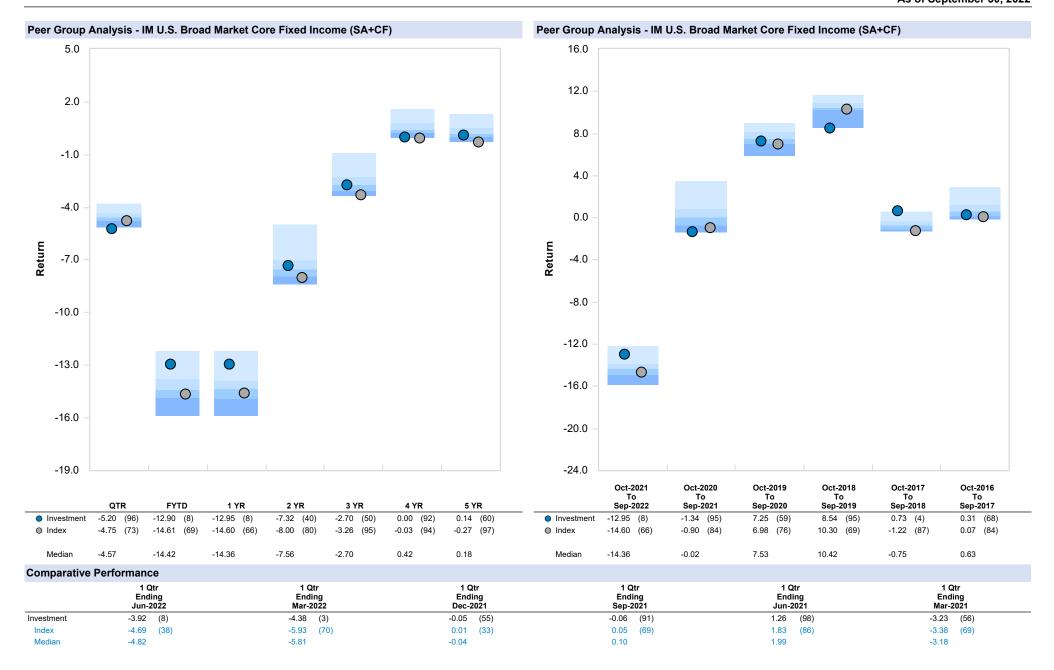


Investment

__ Index

20

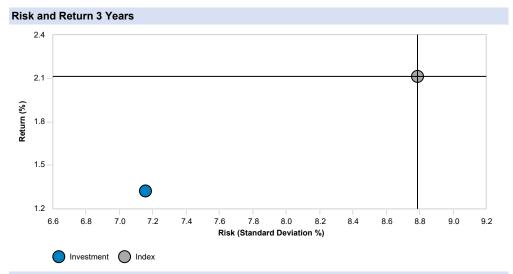
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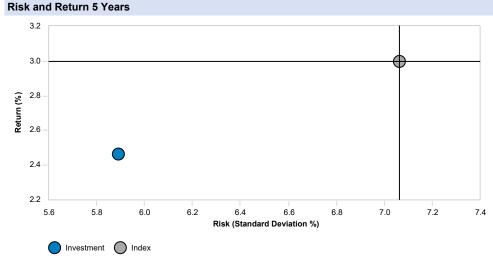


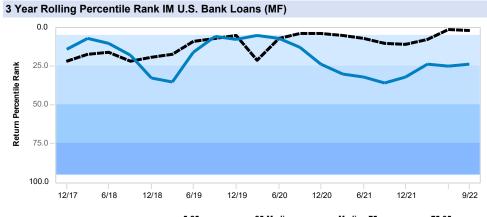


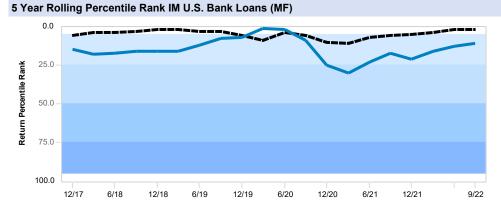
Historical Statistics 3 Years											
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters				
Investment	1.33	7.16	0.14	79.88	10	85.64	2				
Index	2.12	8.78	0.21	100.00	9	100.00	3				

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.46	5.89	0.25	85.87	17	88.86	3
Index	3.00	7.06	0.29	100.00	16	100.00	4









	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	20	14 (70%)	6 (30%)	0 (0%)	0 (0%)	
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)	

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	19 (95%)	1 (5%)	0 (0%)	0 (0%)
Index	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)

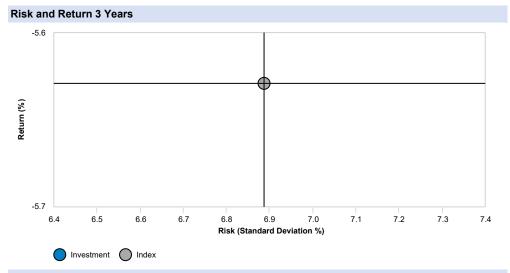


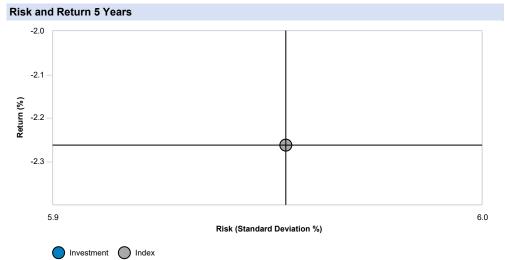




Historical Statistics 3 Years											
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters				
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Index	-5.63	6.89	-0.88	100.00	5	100.00	7				

Historical Statistics 5 Years											
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters				
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Index	-2.26	5.95	-0.55	100.00	11	100.00	9				





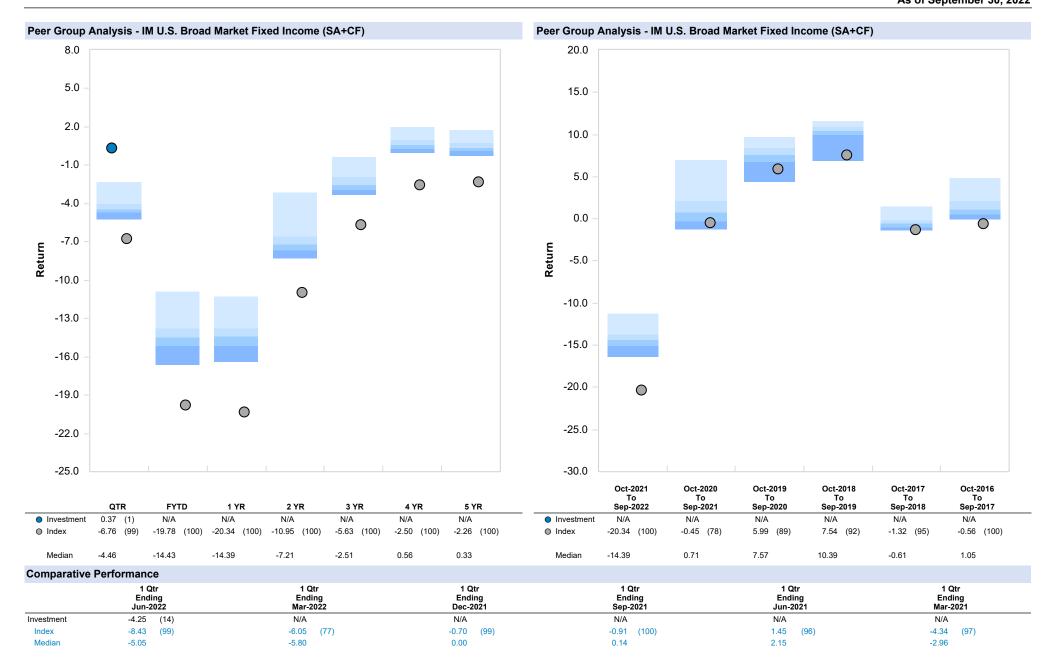




	Total Period	Count	Count	Count	Count	
Investment	0	0	0	0	0	
Index	20	1 (5%)	3 (15%)	1 (5%)	15 (75%)	

Median-75 5-25 25-Median 75-95 **Total Period** Count Count Count Count Investment 0 20 0 (0%) 1 (5%) 19 (95%) __ Index 0 (0%)



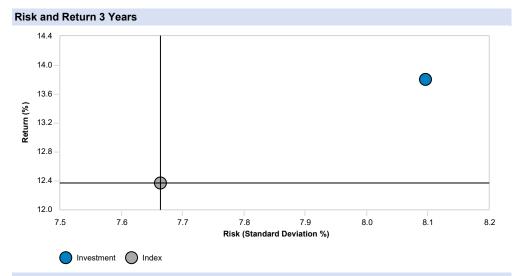


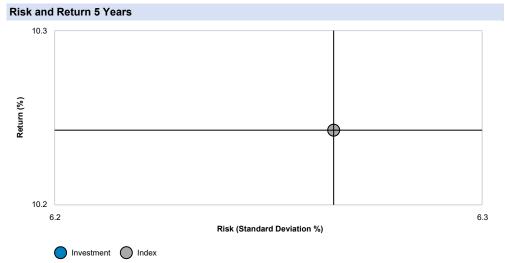


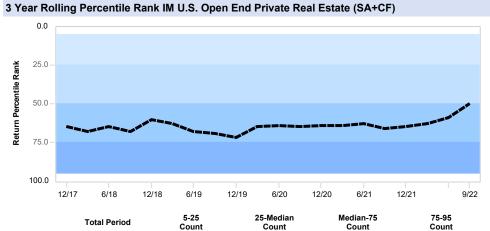
As of September 30, 2022

Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.80	8.10	1.57	111.18	11	116.86	1
Index	12.37	7.66	1.48	100.00	11	100.00	1

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	10.24	6.27	1.40	100.00	19	100.00	1







0 (0%)

1 (5%)

0 (0%)

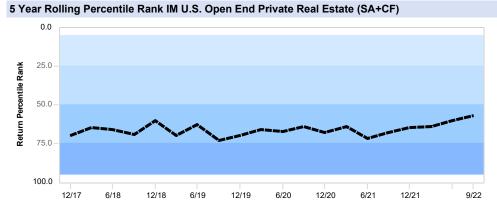
19 (95%)

0 (0%)

0 (0%)

1 (100%)

0 (0%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	0 (0%)	0 (0%)	20 (100%)	0 (0%)



Investment

__ Index

20





Comparative Performance								
	QTR	YTD	1 YR	2 YR	3 YR	5 YR	Inception	Inception Date
Domestic Equity								
Vanguard Total Stock Index (VITSX)	-4.46	-24.89	-18.01	4.07	7.60	8.56	7.57	08/01/1997
CRSP U.S. Total Market TR Index	-4.44	-24.86	-17.98	4.09	7.60	8.56	N/A	
American Beacon SC Value R6 (AASRX)	-4.24	-18.88	-13.40	18.00	5.76	3.08	3.45	03/01/2017
Russell 2000 Value Index	-4.61	-21.12	-17.69	16.16	4.72	2.87	3.45	
Conestoga Small Cap I (CCALX)	-4.23	-32.04	-28.62	-0.77	2.86	6.25	9.95	09/01/2014
Russell 2000 Growth Index	0.24	-29.28	-29.27	-2.91	2.94	3.60	5.94	
International Equity								
EuroPacific Growth R6 (RERGX)	-9.33	-32.09	-32.85	-8.47	-1.24	-0.23	5.50	06/01/2009
MSCI AC World ex USA (Net)	-9.91	-26.50	-25.17	-3.70	-1.52	-0.81	4.28	
Core Fixed Income								
Garcia Hamilton (Gross of Fees)	-5.20	-12.90	-12.95	-7.32	-2.70	0.14	5.34	01/01/1992
Blmbg. U.S. Aggregate Index	-4.75	-14.61	-14.60	-8.00	-3.26	-0.27	4.62	
Bank Loans								
Pacific Funds Floating Rate (PLFRX)	1.41	-3.45	-2.74	1.99	1.33	2.46	3.75	07/01/2011
Credit Suisse Leveraged Loan Index	1.18	-3.32	-2.63	2.77	2.12	3.00	3.88	
Real Estate								
Clarion Lion Properties Fund	0.60	15.58	24.60	20.61	14.13	11.85	8.58	04/01/2000
NCREIF Fund Index-ODCE (VW)	0.52	13.08	22.09	18.30	12.37	10.24	8.70	

Returns for periods greater than one year are annualized. Returns are expressed as percentages.



	YTD	2021	2020	2019	2018	2017	2016	2015
Domestic Equity								
Vanguard Total Stock Index (VITSX)	-24.89	25.73	21.00	30.81	-5.16	21.17	12.67	0.42
CRSP U.S. Total Market TR Index	-24.86	25.72	20.99	30.84	-5.17	21.19	12.68	0.40
American Beacon SC Value R6 (AASRX)	-18.88	28.21	4.03	23.50	-15.59	N/A	N/A	N/A
Russell 2000 Value Index	-21.12	28.27	4.63	22.39	-12.86	7.84	31.74	-7.47
Conestoga Small Cap I (CCALX)	-32.04	16.37	30.59	25.42	0.81	28.74	14.30	8.26
Russell 2000 Growth Index	-29.28	2.83	34.63	28.48	-9.31	22.17	11.32	-1.38
International Developed Equity								
EuroPacific Growth R6 (RERGX)	-32.09	2.84	25.27	27.40	-14.91	31.17	1.01	-0.48
MSCI AC World ex USA (Net)	-26.50	7.82	10.65	21.51	-14.20	27.19	4.50	-5.66
Core Fixed Income								
Garcia Hamilton (Gross of Fees)	-12.90	-2.11	8.10	7.25	0.97	3.81	3.17	0.84
Blmbg. U.S. Aggregate Index	-14.61	-1.55	7.51	8.72	0.01	3.54	2.65	0.55
Bank Loans								
Pacific Funds Floating Rate (PLFRX)	-3.45	4.62	1.59	8.30	0.41	4.33	8.91	0.75
Credit Suisse Leveraged Loan Index	-3.32	5.41	2.78	8.16	1.14	4.25	9.87	-0.41
Real Estate								
Clarion Lion Properties Fund	15.58	23.38	2.24	7.26	9.66	8.99	9.09	15.71
NCREIF Fund Index-ODCE (VW)	13.08	22.17	1.19	5.34	8.35	7.62	8.77	15.02

Returns for periods greater than one year are annualized. Returns are expressed as percentages.



Woodlands Fire Retirement System Fee Analysis

As of September 30, 2022

	Estimated Annual Fee (%)	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Venguard Total Steek Index (VITSV)	0.03	22.252.842	6.676	0.03 % of Assets
Vanguard Total Stock Index (VITSX) American Beacon SC Value R6 (AASRX)	0.03	22,252,842 2,503,896	6,676 19,530	0.78 % of Assets
Conestoga Small Cap I (CCALX)	0.70	2,289,043	20,601	0.90 % of Assets
Total Domestic Equity	0.17	27,045,781	46,808	0.00 % of Associa
EuroPacific Growth R6 (RERGX)	0.49	6,503,680	31,868	0.49 % of Assets
Total International Equity	0.49	6,503,680	31,868	
Garcia Hamilton	0.25	8,856,216	22,141	0.25 % of First \$25 M
				0.20 % of Next \$25 M 0.18 % of Next \$50 M 0.15 % of Next \$100 M 0.12 % Thereafter
Pacific Funds Floating Rate (PLFRX)	0.72	1,483,914	10,684	0.72 % of Assets
Apollo Total Return Fund	0.80	2,919,844	23,359	0.80 % of First \$100 M 0.75 % of Next \$100 M 0.70 % Thereafter
Total Fixed Income	0.42	13,259,974	56,183	
0	4.0-			
Clarion (Core Real Estate)	1.25	5,650,001	70,625	1.25 % of Assets
Total Real Estate	1.25	5,650,001	70,625	
Frost Bank Cash Account		57,589	-	
Mutual Fund Cash		100,785	-	
Total Cash		158,373	-	
Total Fund	0.39	52,617,810	205,484	



No

N/A

Yes

1. The Total Plan return equaled or exceeded the 7% actuarial earnings assumption over the trailing three year period. 2. The Total Plan return equaled or exceeded the 7% actuarial earnings assumption over the trailing five year period. 3. The Total Plan return equaled or exceeded the 7% actuarial earnings assumption over the trailing ten year period. 4. The Total Plan return equaled or exceeded the total plan benchmark over the trailing three year period. 5. The Total Plan return equaled or exceeded the total plan benchmark over the trailing five year period. 6. The Total Plan return equaled or exceeded the total plan benchmark over the trailing ten year period. 7. The Total Plan return ranked within the top 50th percentile of its peer group over the trailing three year period. 8. The Total Plan return ranked within the top 50th percentile of its peer group over the trailing five year period. 9. The Total Plan return ranked within the top 50th percentile of its peer group over the trailing ten year period. No Yes N/A **Equity Compliance:** 1. All investments are U.S. dollar denominated except for certain equities and sovereign foreign bonds as delineated in Permitted Asset Classes. 2. Less than or equal to 5% of the voting securities of any corporation are owned. 3. Securities have not been purchased on margin or leverage excluding alternative investments. 4. Short sale transactions have not been executed except by approved alternative investment managers. 5. Transactions in financial futures have not been executed unless used to equitize cash, reduce risk, or by approved alternative investment managers. 6. Less than or equal to 30% of the aggregated equity portfolio is invested in any one sector of the MSCI World at market. 7. Less than or equal to 5% of the aggregated equity portfolio is invested in securities of any one company at market. 8. Privately held securities are not included in the Plan except by approved alternative investment managers. 9. Options have not been traded except for covered calls or put hedges on a one to one ratio. No **Fixed Income Compliance:** Yes N/A 1. All investments are U.S. dollar denominated except for certain equities and sovereign foreign bonds as delineated in Permitted Asset Classes. 2. Commercial paper rated P1 by Moody's or A1 or A2 by Standard & Poor's. 3. Privately held securities are not included in the Plan except by approved alternative investment managers. Vang. Total Stk** Am. Beacon **EuroPacific Garcia Hamilton Pacific Funds** Conestoga Manager Compliance*: Yes No N/A ✓ ✓ 1. Manager outperformed the index over the trailing three year period. ✓ 2. Manager outperformed the index over the trailing five year period. 3. Manager ranked above the 50th percentile over the trailing three year period. 4. Manager ranked above the 50th percentile over the trailing five year period. 5. Less than four consecutive guarters of under performance relative to the benchmark. 6. Three year volatility less than the index, as measured by standard deviation. 7. Five year volatility less than the index, as measured by standard deviation.

Total Fund Compliance:



^{*}Historical manager data was used to complete this portion of the questionnaire being that funds have performance history of less than 3 years.

^{**} Index Fund

Manager Compliance:		Clario	n		Apollo	,												
manager compliance.	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three year period.	✓					✓												
2. Manager outperformed the index over the trailing five year period.			✓			✓												
3. Manager ranked above the 50th percentile over the trailing three year period.	✓					✓												
4. Manager ranked above the 50th percentile over the trailing five year period.			✓			✓												
5. Less than four consecutive quarters of under performance relative to the benchmark.	✓					✓												
6. Three year volatility less than the index, as measured by standard deviation.		✓				✓												
7. Five year volatility less than the index, as measured by standard deviation.			✓			✓												

^{*}Historical manager data was used to complete this portion of the questionnaire being that funds have performance history of less than 3 years.



^{**} Index Fund

Historical Hybrid Composition		
Allocation Mandate	Weight (%)	
Jan-1973		
MSCI World (net)	60.00	
Bloomberg Intermediate US Govt/Credit Idx	40.00	
Jun-2019		
Russell 3000 Index	62.50	
MSCI AC World ex USA (Net)	15.00	
Blmbg. U.S. Aggregate Index	22.50	
Oct-2019		
Russell 3000 Index	55.00	
MSCI AC World ex USA (Net)	15.00	
Blmbg. U.S. Aggregate Index	22.50	
NCREIF Fund Index-ODCE (VW)	7.50	
Mar-2022		
Russell 3000 Index	55.00	
MSCI AC World ex USA (Net)	15.00	
Blmbg. U.S. Aggregate Index	20.00	
NCREIF Fund Index-ODCE (VW)	7.50	
Blmbg. Global Multiverse	2.50	
Sep-2022		
Russell 3000 Index	55.00	
MSCI AC World ex USA (Net)	15.00	
Blmbg. U.S. Aggregate Index	20.00	
NCREIF Fund Index-ODCE (VW)	10.00	

- Historical data through April 2019 was provided by South Texas Money Management.
- Assets were transferred to Frost Bank as the new custodian in the months of May, June and July 2019.
- Performance and cash flow data as of May 2019 is calculated by AndCo using custodial statements from Pershing and Frost Bank.



Active	Return
--------	--------

- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.

Alpha

- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.

Beta

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

Consistency

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

Distributed to Paid In (DPI)

- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.

Down Market Capture

- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance

Downside Risk

- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.

Excess Return

- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.

Excess Risk

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

Information Ratio

- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.

Public Market Equivalent (PME)

- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.

R-Squared

- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.

Return

- Compounded rate of return for the period.

Sharpe Ratio

- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.

Standard Deviation

- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.

Total Value to Paid In (TVPI)

- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life

Tracking Error

- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.

Treynor Ratio

- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.

Up Market Capture

- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.



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