Investment Performance Review Period Ending September 30, 2019

Delray Beach Police Officers' Retirement System

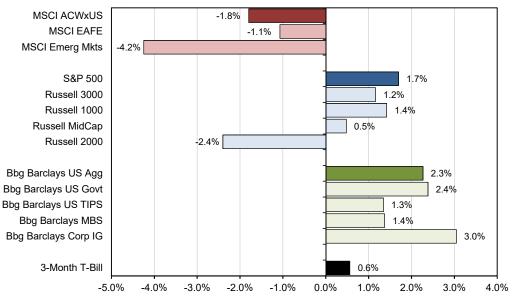


3rd Quarter 2019 Market Environment

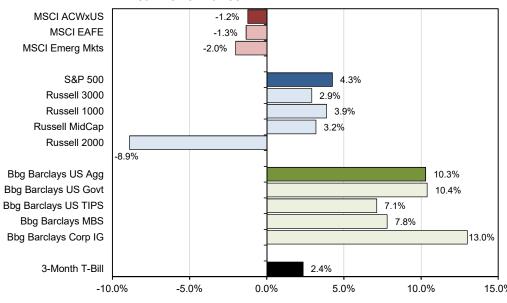


- Broad asset class returns were mixed during the 3rd quarter of 2019 with both US large cap equity and fixed income indices extending their year-to-date gains while US small cap and international indices declined. Volatility was high during the period as investors weighed the effects of ongoing trade disruption and slowing global economic data against the announcement of several new central bank stimulus measures. US stocks continued their year-to-date outperformance relative to international stocks during the period. US markets faced headwinds from continued escalation in the ongoing trade dispute with China, slowing economic data, particularly with regards to manufacturing, and political uncertainty following a late quarter impeachment inquiry against President Donald Trump. However, markets were supported by easing monetary policy from the Federal Reserve (Fed) which cut interest rates twice during the period. In general, lower risk assets performed better through the period as investors weighed the increased risk of a recession. Within domestic equity markets, large cap stocks outperformed small cap equities during the quarter with the S&P 500 Index returning 1.7% versus a -2.4% return on the small cap Russell 2000 Index. US equity returns over the 1-year period were positive for large and mid-cap stocks, returning 4.3% and 3.2% respectively, but small cap stocks posted a loss, falling -8.9%.
- International markets posted negative returns for the 3rd quarter. Similar to US markets, international returns were impacted by continued weakness in economic data, heightened geopolitical uncertainly around global trade and Brexit and newly announced stimulus measures from global central banks including the European Central Bank (ECB) and Peoples Bank of China (PBoC). International returns also faced headwinds from a strengthening US dollar (USD) which appreciated against most major currencies during the period. Developed markets continued their outperformance relative to emerging markets during the period with the MSCI EAFE Index falling -1.1% versus a -4.2% decline for the MSCI Emerging Markets Index. Both developing and emerging markets posted slight losses over the 1-year period, returning -1.3% and -2.0% respectively.
- Fixed income returns outperformed equities during the 3rd quarter as investors looked for relative safety amid the equity market volatility. The broad market Bloomberg Barclays Aggregate Index gained 2.3% as interest rates fell following central bank stimulus from the Fed and other global central banks. The US Treasury Yield Curve also inverted in August, contributing to growing concern around the potential for an upcoming recession. Investment grade corporate issues were the best performing securities for the third quarter in a row, returning 3.0%, outperforming Treasury and securitized issues. Corporate issues benefitted from their relatively high duration and yield. The bond market has meaningfully outperformed the equity market over the trailing 1-year period with the Bloomberg Barclays Aggregate posting a solid 10.3% return.

Quarter Performance

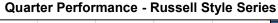


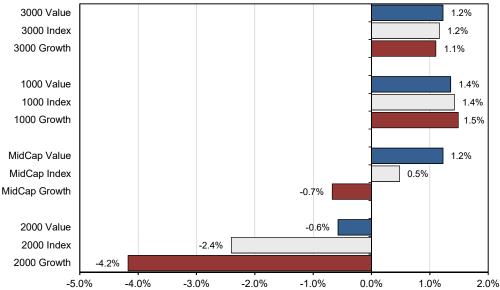
1-Year Performance



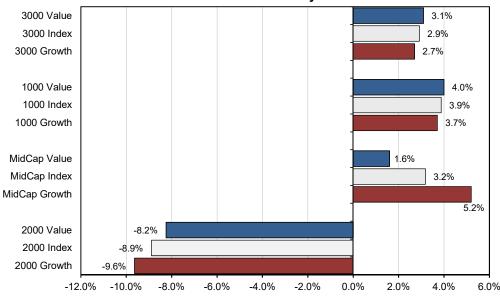


- US equity returns were modestly positive during the 3rd quarter, but results varied considerably across the style and capitalization spectrum. Data released during the quarter showed signs that the US economy could be slowing down. Weakening metrics around manufacturing and sentiment were particularly concerning and employment, typically a bright spot for the US economy, missed expectations for the pace of new jobs and hours worked. A likely contributor to the softening economic data is the ongoing trade war between the US and China. Despite last quarter's agreement to cease escalations following a meeting between President Trump and President Jinping at the G20 summit, the 3rd quarter saw the announcement and implementation of a series of new tariffs from both the US and China. Additionally, in response to new tariffs, the PBoC allowed the yuan to depreciate to its lowest level since 2008 leading US Treasury officials to accuse China of currency manipulation. Even with the apparent breakdown in relations between the two sides, both China and the US agreed to continue negotiations set to take place in October. Markets also reacted to the late quarter announcement of a formal impeachment inquiry against President Trump following a whistle blower report alleging that President Trump pressured the government of Ukraine to investigate the son of political opponent Joe Biden. Despite these substantial headwinds, the US equity market found support from Fed easing of monetary policy in the form of two separate interest rate cuts and ended the period with a gain. The Russell 3000 Index returned 1.2% and 2.9% for the quarter and 1-year period respectively.
- During the quarter, higher market cap stocks outperformed lower market cap stocks across the style spectrum. The large cap Russell 1000 Index gained 1.4% during the period versus a -2.4% return for the small cap Russell 2000 Index. Investors may have been attracted to large cap names as a result of the quarter's volatility as large cap stocks are typically viewed as less risky than their small cap counterparts. When viewed over the most recent 1-year period, large cap stocks significantly outperformed small cap stocks with the Russell 1000 posting a 3.9% gain while the while the Russell 2000 had considerable losses, declining -8.9%.
- In general, value stocks outperformed growth stocks during the 3rd quarter as investors gravitated toward the relative safety these securities typically provide. However, large cap growth stocks slightly outperformed large cap value stocks due to favorable holdings in the technology and industrials sectors as well as a large underweight to the underperforming energy sector. The Russell 1000 Growth Index was the best performing style index for the period, returning 1.5%, with the small cap growth index posting the lowest relative return, a loss of -4.2%. Results over the 1-year period are mixed with value stocks outperforming in large and small cap and growth stocks outperforming in midcap.



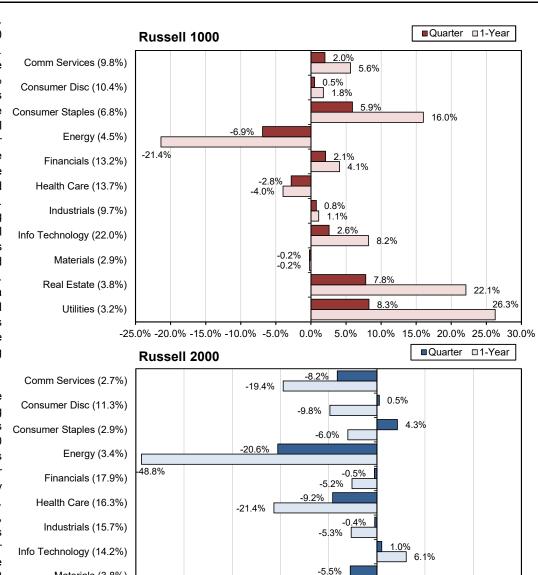


1-Year Performance - Russell Style Series





- Sector performance was mixed across large cap sectors for the 3rd quarter. There were gains for eight out of eleven sectors within the Russell 1000 Index during the period with six sectors outpacing the return of the index. Defensive sectors such as utilities, real estate and consumer staples were the best performers through the quarter returning 8.3%, 7.8% and 5.9% respectively as investors looked toward these sectors for their higher yields and lower historical volatility. Energy, health care and materials stocks were Consumer Staples (6.8%) the worst performers during the period. Energy stocks fell -6.9% as crude oil prices fell during the period despite a sharp upward spike in September following a terrorist attack in Saudi Arabia that temporarily reduced the country's oil production, causing a large disruption in supply. Health care stocks also lagged, declining -2.8%, as discussions in Washington around the potential for increased regulation on drug pricing acted as a headwind. Health care reform has also been a major topic of discussion among candidates for the 2020 US Presidential election, creating additional uncertainty within the sector. Materials returned -0.2% as demand concerns weighed on the economically sensitive sector. Returns over the 1-year period were also generally positive with eight out of eleven sectors posting gains. Similar to the quarter's results, defensive sectors outperformed by a considerable margin. Utilities, real estate and consumer staples performed well returning 26.3%, 22.1% and 16.0% respectively. Technology returns were also strong gaining 8.2%. Energy, health care and materials were the only sectors to post negative results over the 1-year period with energy falling -21.4%, health care dropping -4.0% and materials returning -0.2%.
- Quarterly results for small cap sectors were worse than their large capitalization counterparts with all eleven sectors trailing their corresponding large cap equivalents. Five of eleven economic sectors produced gains during the period with seven of eleven sectors outpacing the Russell 2000 Index return for the quarter. Similar to large caps, defensive sectors performed well as investors gravitated toward their relative safety and higher yields. Utilities were the best performers, returning 5.4% followed closely by REITs and consumer staples which returned 5.1% and 4.3% respectively. The cyclically oriented energy sector was the largest detractor for the period. posting a loss of -20.6%. Health care and communication services stocks also experienced notable declines, falling -9.2% and -8.2% respectively. Over the trailing 1-year period, returns were broadly negative. Utilities, real estate and technology were the only sectors to post gains returning 20.1% 7.3% and 6.1%. The energy sector was an outlier in terms of negative returns dropping -48.8% during the period. There were also notable losses in health care, communication services and materials which declined -21.4%, -19.4% and -18.7% respectively.



-18.7%

-20.0%

-10.0%

0.0%

-30.0%



30.0%

20.1%

20.0%

5.1%

5.4%

10.0%

7.3%

Services sector

Materials (3.8%)

Utilities (4.0%)

-50.0%

-40.0%

Real Estate (7.7%)

	Top 10 W	eighted Stoc	ks	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Microsoft Corp	3.82%	4.1%	22.9%	Information Technology
Apple Inc	3.68%	13.6%	0.8%	Information Technology
Amazon.com Inc	2.61%	-8.3%	-13.3%	Consumer Discretionary
Facebook Inc A	1.55%	-7.7%	8.3%	Communication Services
Berkshire Hathaway Inc B	1.48%	-2.4%	-2.8%	Financials
JPMorgan Chase & Co	1.36%	6.0%	7.4%	Financials
Alphabet Inc Class C	1.35%	12.8%	2.1%	Communication Services
Alphabet Inc A	1.33%	12.8%	1.2%	Communication Services
Johnson & Johnson	1.25%	-6.4%	-3.8%	Health Care
Procter & Gamble Co	1.12%	14.2%	54.0%	Consumer Staples

	Top 10 W	eighted Stoc	ks			
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector		
NovoCure Ltd	0.34%	18.3%	42.7%	Health Care		
Haemonetics Corp	0.33%	4.8%	4.8% 10.1% Health Care			
Trex Co Inc	0.28%	26.8%	18.1%	Industrials		
Science Applications International	0.27%	1.3%	10.4%	Information Technology		
Portland General Electric Co	0.26%	4.8%	27.2%	Utilities		
ONE Gas Inc	0.26%	7.0%	19.5%	Utilities		
First Industrial Realty Trust Inc	0.26%	8.3%	29.3%	Real Estate		
Southwest Gas Holdings Inc	0.26%	2.2%	18.2%	Utilities		
Maximus Inc	0.25%	6.9%	20.4%	Information Technology		
Teladoc Health Inc	0.25%	2.0%	-21.6%	Health Care		

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Тор	10 Performir	ig Stocks (by	/ Quarter)	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Insulet Corp	0.04%	38.2%	55.7%	Health Care
CyrusOne Inc	0.03%	37.9%	28.8%	Real Estate
KLA Corp	0.09%	35.7%	61.1%	Information Technology
New York Community Bancorp Inc	0.02%	27.6%	28.7%	Financials
Entegris Inc	0.02%	26.3%	63.9%	Information Technology
Pilgrims Pride Corp	0.01%	26.2%	77.1%	Consumer Staples
Western Digital Corp	0.06%	25.4%	5.6%	Information Technology
DocuSign Inc	0.03%	24.6%	17.8%	Information Technology
Target Corp	0.19%	24.4%	24.3%	Consumer Discretionary
XPO Logistics Inc	0.02%	23.8%	-37.3%	Industrials

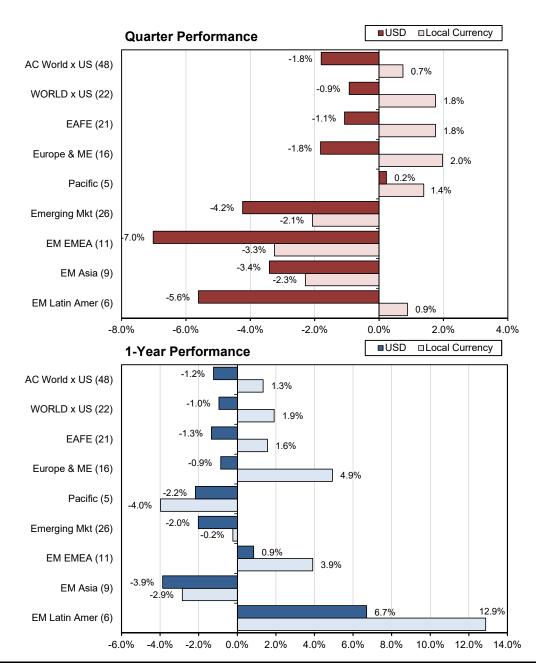
Тор	Top 10 Performing Stocks (by Quarter)							
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector				
NextCure Inc	0.00%	105.9%	N/A	Health Care				
Dova Pharmaceuticals Inc	0.01%	98.2%	33.3%	Health Care				
WW International Inc	0.09%	98.0%	-47.5%	Consumer Discretionary				
R.R.Donnelley & Sons Co	0.01%	94.7%	-27.6%	Industrials				
Infinera Corp	0.05%	87.3%	-25.3%	Information Technology				
Lannett Co Inc	0.02%	84.8%	135.8%	Health Care				
Owens & Minor Inc	0.02%	81.6%	-64.4%	Health Care				
Allakos Inc	0.08%	81.5%	74.8%	Health Care				
Solid Biosciences Inc	0.01%	79.8%	-78.1%	Health Care				
Ardelyx Inc	0.01%	74.7%	8.0%	Health Care				

Botton	n 10 Perform	ing Stocks (by Quarter)	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
2U Inc	0.00%	-56.7%	-78.3%	Information Technology
PG&E Corp	0.02%	-56.4%	-78.3%	Utilities
Covetrus Inc	0.00%	-51.4%	N/A	Health Care
Sarepta Therapeutics Inc	0.02%	-50.4%	-53.4%	Health Care
Nektar Therapeutics Inc	0.01%	-48.8%	-70.1%	Health Care
DXC Technology Co	0.03%	-46.2%	-67.9%	Information Technology
Antero Resources Corp	0.00%	-45.4%	-82.9%	Energy
Range Resources Corp	0.00%	-45.0%	-77.3%	Energy
Pluralsight Inc Class A	0.00%	-44.6%	-47.5%	Information Technology
Fluor Corp	0.01%	-42.5%	-66.1%	Industrials

Bottom 10 Performing Stocks (by Quarter)							
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector			
Tocagen Inc	0.00%	-90.1%	-95.8%	Health Care			
Waitr Holdings Inc Class A	0.00%	-79.6%	-88.1%	Consumer Discretionary			
McDermott International Inc	0.02%	-79.1%	-89.0%	Energy			
Sonim Technologies Inc	0.00%	-77.0%	N/A	Information Technology			
Synlogic Inc	0.00%	-74.8%	-83.9%	Health Care			
Mallinckrodt PLC	0.01%	-73.7%	-91.8%	Health Care			
Clovis Oncology Inc	0.01%	-73.6%	-86.6%	Health Care			
Bloom Energy Corp Class A	0.01%	-73.5%	-90.5%	Industrials			
Chaparral Energy Inc Class A	0.00%	-71.5%	-92.4%	Energy			
Pacific Drilling SA	0.01%	-69.3%	-99.7%	Energy			



- Broad international equity returns were negative in USD terms for the 3rd quarter as US investors in international markets faced a meaningful headwind from a USD that strengthened against most major currencies. In local currency terms, developed markets were generally positive while emerging markets posted losses. The MSCI ACWI ex US Index gained 0.7% in local currency terms, but a USD investor experienced a loss of -1.8% due to the currency effect. Similar to US markets, international equity markets balanced headwinds from slowing economic data and concerns around global trade with tailwinds from central bank shifts toward more accommodative policies. Among others, the ECB and PBoC announced new stimulus measures during the quarter. The ECB cut its policy rate and committed to a new quantitative easing program and the PBoC announced new stimulus measures designed to encourage bank lending and reduce borrowing costs as it tries to counteract a cooling economy and the effects of its ongoing trade war with the US. The recent USD strength can also be seen over the 1-year period with USD returns trailing most local currency returns. Returns for the MSCI ACWI ex US Index were 1.3% in local currency terms and -1.2% in USD terms for the trailing year.
- Results for developed market international indices were generally positive in local currency terms, but negative in USD terms for the 3rd quarter, with the MSCI EAFE Index returning 1.8% and -0.9% respectively. Outside of central bank policy and trade, there were notable developments within the political sphere. In Europe, Christine Lagarde was nominated to succeed Mario Draghi as the head of the ECB. Japanese stocks rose as election results appeared to support continuity for Prime Minister Abe's ongoing policy efforts. In the UK, pro-Brexit Boris Johnson was appointed to prime minister, replacing Theresa May. The UK continues to face uncertainty around Brexit as its late October deadline to agree to a withdrawal agreement with the European Union (EU) quickly approaches. Stocks in Hong Kong fell as the government dealt with major pro-democracy protests throughout the quarter. The MSCI EAFE Index returned 1.6% and -1.3% for the last twelve months in local currency and USD terms respectively.
- Emerging markets continued their trend of 2019 underperformance relative to developed markets during the 3rd quarter, posting negative returns in both local currency and USD terms. The MSCI Emerging Markets Index fell -2.1% and -4.2% respectively. As expected, geopolitical tensions around trade continued to put pressure on emerging market stocks. Countries with greater sensitivities to commodity prices or a strong USD tended to underperform during the period. Argentina's stock market fell -46.8% as primary elections in the country saw the defeat of the country's current market friendly president. One year returns for the MSCI Emerging Market Index were -0.2% in local currency terms and -2.0% in USD terms.



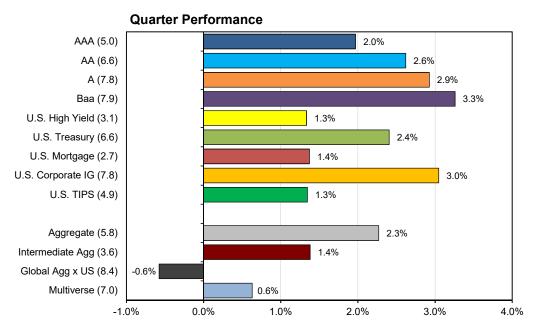


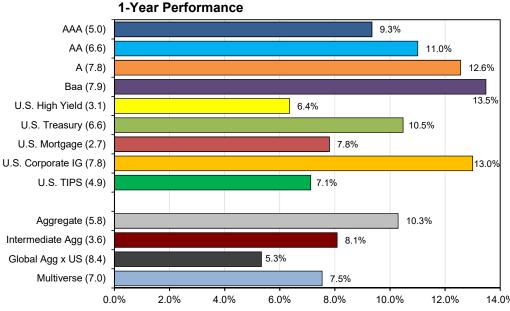
MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.4%	-0.9%	-0.7%
Consumer Discretionary	11.5%	0.3%	-2.0%
Consumer Staples	12.0%	1.9%	6.9%
Energy	5.1%	-6.5%	-14.5%
Financials	18.6%	-2.6%	-6.3%
Health Care	11.6%	2.4%	4.3%
Industrials	14.7%	-2.0%	-2.1%
Information Technology	6.7%	-0.5%	1.8%
Materials	7.0%	-5.4%	-5.7%
Real Estate	3.6%	-1.3%	4.3%
Utilities	3.8%	2.4%	13.2%
Total	100.0%	-1.1%	-1.3%
MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	6.8%	-2.9%	-1.0%
Consumer Discretionary	11.4%	-0.7%	-1.6%
Consumer Staples	10.2%	1.5%	6.8%
Energy	6.7%	-4.6%	-9.8%
Financials	21.6%	-3.6%	-3.2%
Health Care	8.5%	1.1%	0.9%
Industrials	11.9%	-2.5%	-2.4%
Information Technology	8.9%	2.2%	4.1%
Materials	7.3%	-6.5%	-7.2%
Real Estate	3.2%	-3.1%	5.0%
Utilities	3.5%	1.3%	12.6%
Total	100.0%	-1.8%	-1.2%
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	11.6%	-5.2%	-2.5%
Consumer Discretionary	13.1%	-3.1%	0.1%
Consumer Staples	6.9%	-0.8%	3.0%
Energy	7.7%	-4.0%	-2.3%
Financials	24.7%	-8.0%	1.6%
Health Care	2.6%	-6.6%	-24.2%
Industrials	5.4%	-5.2%	-4.4%
Information Technology	15.1%	5.6%	3.9%
Materials	7.3%	-10.7%	-15.9%
Real Estate	2.9%	-8.8%	6.8%
Utilities	2.8%	-3.6%	7.2%
Total	100.0%	-4.2%	-2.0%

Description		MSCI-EAFE	MSCI-ACWIXUS	Quarter	1- Year
United Kingdom 16.4% 11.0% 2.25% 7.6% 1.17% 1.17% 1.18% Switzerland 9.4% 6.3% 0.3% 12.0% Germany 8.5% 5.7% 4.0% 7.7% 1.4% 6.1% Netherlands 4.0% 2.7% 2.4% 9.5% Possible 1.9% Spain 2.9% 2.9% 2.0% 3.8% 3.5% 2.4% 1.19% 3.8% 3.5% Spain 2.9% 2.0% 3.8% 3.5% Sweden 2.0% 1.7% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.17% 4.8% 4.8% 4.9% 1.18% 1.2% 1.19%	Country				
United Kingdom	Japan	24.6%	16.5%	3.1%	-4.7%
Switzerland	United Kingdom	16.4%	11.0%	-2.5%	-2.9%
Germany	France	11.4%	7.6%	-1.7%	-1.6%
Australia 7.0% 4.7% -1.4% 6.1% 6.1% Netherlands 4.0% 2.7% 2.4% 9.5% 1-18% 9.5% 1-18	Switzerland	9.4%	6.3%	0.3%	12.0%
Netherlands	Germany	8.5%	5.7%	-4.0%	-7.1%
Hong Kong	Australia	7.0%	4.7%	-1.4%	6.1%
Spain 2.9% 2.0% -3.8% -3.5%	Netherlands	4.0%	2.7%	2.4%	9.5%
Sweden 2.6% 1.7% 4.8% .9.0% 1.1aly 2.3% 1.6% .0.1% 3.9% 1.2% .1.0% 2.3% 3.9% 1.2% .1.0% 2.3% 3.9% 3.9% .1.2% .1.0% 2.3% 3.9% .1.2% .1.0% 2.3% 3.9% .1.2% .1.0% 2.3% 3.9% .0.2% .1.3% 0.9% .5.8% .0.2% .0.2% .3.4% .0.8% .1.0% 0.7% .1.8% .9.3% .1.2%	Hong Kong	3.5%	2.4%	-11.9%	-1.8%
Sweden	Spain	2.9%	2.0%	-3.8%	-3.5%
Denmark		2.6%	1.7%	-4.8%	-8.0%
Singapore 1,3% 0,9% -5,8% -0,2%	Italy	2.3%	1.6%	-0.1%	3.9%
Belgium	Denmark	1.8%	1.2%	-1.0%	2.3%
Finland	Singapore	1.3%	0.9%	-5.8%	-0.2%
Norway	Belgium	1.0%	0.7%	3.4%	-0.8%
Israel 0.6% 0.4% -3.7% -12.5% Ireland 0.5% 0.4% 0.6% -4.6% New Zealand 0.2% 0.2% -2.9% 10.0% Austria 0.2% 0.2% -3.1% -16.0% Portugal 0.2% 0.1% 1.6% -2.5% Total EAFE Countries 100.0% 67.0% 1.1% 1.3% Canada 7.0% 0.5% 3.0% Total Developed Countries 74.0% -0.9% -1.0% China 8.3% -4.7% -3.9% Korea 3.2% -4.5% -13.8% Taiwan 3.0% 5.2% -0.2% India 2.3% -5.2% 4.7% Brazil 2.3% -5.2% 4.7% Brazil 2.0% -4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -1.2.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% 0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -3.9% 3.4% Argentina 0.1% -4.6% -3.2.3% Czech Republic 0.0% -1.1% -12.6% Paksitan 0.0% -1.1% -12.6% Cach -1.2.6% -1.2.6% Cach -1.2.6	Finland	1.0%	0.7%	-1.8%	-9.3%
Ireland	Norway	0.7%	0.4%	-3.4%	-13.4%
New Zealand 0.2% 0.2% -2.9% 10.0% Austria 0.2% 0.2% 0.2% -3.1% -16.0% -16.0% 0.2% 0.1% 1.6% -2.5% 101.0% 1.6% -2.5% 101.0% 1.6% -2.5% 101.0% 1.6% -2.5% 101.0% 1.6% -2.5% 101.0% 1.1% -1.3% 1.3% 1.3% 1.0% 1.	Israel	0.6%	0.4%	-3.7%	-12.5%
Austria 0.2% 0.2% -3.1% -16.0% Portugal 0.2% 0.1% 1.6% -2.5% Total EAFE Countries 100.0% 67.0% 1.1% -1.3% Canada 7.0% 0.5% 3.0% Total Developed Countries 74.0% -0.9% -1.0% China 8.3% -4.7% -3.9% Korea 3.2% -4.5% -13.8% Taiwan 3.0% 5.2% -0.2% India 2.3% -5.2% 4.7% Brazil 2.0% -4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.3% -7.3% -16.8% United Arab Emirates 0.1% -7.3% -7.3% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.1% 6.8% Argentina 0.1% -3.9% 3.4% Argentina 0.1% -3.9% 3.4% Argentina 0.0% 7.4% 21.5% Pakistan 7.0da Emerging Countries 26.0% -4.2% -2.0% Total Emerging Countries 26.0% -4.2% -2.0%	Ireland	0.5%	0.4%	-0.6%	-4.6%
Portugal	New Zealand	0.2%	0.2%	-2.9%	10.0%
Portugal	Austria		0.2%	-3.1%	-16.0%
Canada 7.0% 0.5% 3.0% Total Developed Countries 74.0% 0.9% -1.0% China 8.3% 4.7% -3.9% Korea 3.2% 4.5% -13.8% Taiwan 3.0% 5.2% -0.2% India 2.3% -5.2% 4.7% Brazil 2.0% 4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -9.5% 4.0% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0%	Portugal	0.2%		1.6%	-2.5%
Total Developed Countries 74.0% -0.9% -1.0% China 8.3% -4.7% -3.9% Korea 3.2% -4.5% -13.8% Taiwan 3.0% 5.2% -0.2% India 2.3% -5.2% 4.7% Brazil 2.0% -4.6% 25,4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Qatar 0.3% -12.1% -12.2% Qatar 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% <td>Total EAFE Countries</td> <td>100.0%</td> <td>67.0%</td> <td>-1.1%</td> <td>-1.3%</td>	Total EAFE Countries	100.0%	67.0%	-1.1%	-1.3%
China 8.3% -4.7% -3.9% Korea 3.2% -4.5% -13.8% Taiwan 3.0% 5.2% -0.2% India 2.3% -5.2% -0.2% India 2.3% -5.2% 4.7% Brazil 2.0% -4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -9.5% 4.0% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Poland 0.3% -4.6% 13.1% Poland 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.2% 0.2% 5.0% Chile	Canada		7.0%	0.5%	3.0%
China 8.3% -4.7% -3.9% Korea 3.2% -4.5% -13.8% Taiwan 3.0% 5.2% -0.2% India 2.3% -5.2% -0.2% India 2.3% -5.2% 4.7% Brazil 2.0% -4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -9.5% 4.0% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Poland 0.3% -4.6% 13.1% Poland 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.2% 0.2% 5.0% Chile	Total Developed Countries		74.0%	-0.9%	-1.0%
Korea 3.2% -4.5% -13.8% Talwan 3.0% 5.2% -0.2% India 2.3% -5.2% 4.7% Brazil 2.0% -4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Polland 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3%	China		8.3%	-4.7%	-3.9%
India 2.3% -5.2% 4.7% Brazil 2.0% -4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8%	Korea			-4.5%	-13.8%
Brazil 2.0% -4.6% 25.4% South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% 4.0% Greece 0.1% -9.3% 3.4% Hungary 0.1% -3.1% 6.8%	Taiwan		3.0%	5.2%	-0.2%
South Africa 1.2% -12.6% -6.4% Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -6.1% -7.3% Peru 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3%	India		2.3%	-5.2%	4.7%
Russia 1.0% -1.4% 18.0% Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Czech Republic 0.0% -10.1% -12.6%	Brazil		2.0%	-4.6%	25.4%
Thailand 0.8% -6.0% -0.9% Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -3.9% 3.4% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7%	South Africa		1.2%	-12.6%	-6.4%
Saudi Arabia 0.7% -9.5% 4.0% Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -3.9% 3.4% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Total Emerging Countries 26.0% -4.2% -2.0%	Russia		1.0%	-1.4%	18.0%
Mexico 0.7% -1.7% -14.8% Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -3.9% 3.4% Zech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Total Emerging Countries 26.0% -4.2% -2.0%	Thailand		0.8%	-6.0%	-0.9%
Indonesia 0.5% -5.2% 11.9% Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Saudi Arabia		0.7%	-9.5%	4.0%
Malaysia 0.5% -6.3% -10.4% Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Mexico		0.7%	-1.7%	-14.8%
Philippines 0.3% -4.6% 13.1% Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Indonesia		0.5%	-5.2%	11.9%
Poland 0.3% -12.1% -12.2% Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Malaysia		0.5%	-6.3%	-10.4%
Qatar 0.3% -0.2% 5.0% Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Philippines		0.3%	-4.6%	13.1%
Chile 0.3% -7.3% -16.8% United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Poland		0.3%	-12.1%	-12.2%
United Arab Emirates 0.2% -0.2% -0.3% Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Qatar		0.3%	-0.2%	5.0%
Turkey 0.2% 11.7% 16.5% Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Chile		0.3%	-7.3%	-16.8%
Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	United Arab Emirates		0.2%	-0.2%	-0.3%
Colombia 0.1% -6.1% -7.3% Peru 0.1% -9.3% -4.0% Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Turkey		0.2%	11.7%	16.5%
Greece 0.1% -3.1% 6.8% Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Colombia		0.1%	-6.1%	-7.3%
Hungary 0.1% -3.9% 3.4% Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Peru		0.1%	-9.3%	-4.0%
Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Greece		0.1%		6.8%
Argentina 0.1% -46.8% -32.3% Czech Republic 0.0% -10.1% -12.6% Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Hungary		0.1%	-3.9%	3.4%
Egypt 0.0% 7.4% 21.5% Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Argentina		0.1%		-32.3%
Pakistan 0.0% 1.1% -32.7% Total Emerging Countries 26.0% -4.2% -2.0%	Czech Republic				
Total Emerging Countries 26.0% -4.2% -2.0%	Egypt				
7 M T T T T T T T T T T T T T T T T T T			0.0%	1.1%	-32.7%
Total ACWIxUS Countries 100.0% -1.8% -1.2%	Total Emerging Countries		26.0%	-4.2%	-2.0%
	Total ACWIxUS Countries		100.0%	-1.8%	-1.2%



- Broad fixed income benchmarks continued their trend of 2019 gains during the 3rd guarter. Interest rates fell across the US Treasury Yield Curve through the quarter as the Fed continued to shift toward an easing of monetary policy in an attempt to combat slowing economic data. The Fed cut short-term interest rates twice during the period following their July and September meetings. In addition, it ended its balance sheet reduction plan in September which represents a further easing of monetary policy. After its September meeting, the Fed issued a statement commenting that future changes to monetary policy are not on a preset course and will be evaluated as the Fed receives new information on the state of the economy, but that Fed officials "will continue to monitor the implications of incoming information for the economic outlook and will act as appropriate to sustain the expansion." The Fed response provided market support in a quarter where we saw the formal inversion of the yield curve. Treasury yields on 2-year issues briefly surpassed the yield on 10-year issues in August. This inversion of the yield curve has historically preceded a recession within the next 6-24 months. However, the magnitude of the inversion was mild and short in duration with rates on the 10year Treasury rising above the yield of the 2-year by early September. The bellwether Bloomberg Barclays US Aggregate Index posted positive returns for both the 3rd quarter and the 1-year period, returning 2.3% and 10.3% respectively.
- Within investment grade credit, lower quality issues outperformed higher quality issues during the quarter. Lower quality issues benefitted from their higher durations as interest rates fell during the quarter. On an absolute basis, without negating the duration differences in the sub-indices, Baa rated credit was the best performing investment grade credit quality segment returning 3.3% for the quarter, while AAA was the worst performing, returning 2.0%. High yield issues returned 1.3% for the quarter as these issues did not commensurately benefit from the drop in interest rates due to their relatively low durations. Returns over the 1-year period show lower quality securities outperforming higher quality issues with Baa rated issues returning 13.5% versus a 9.3% return for AAA securities.
- Investment grade corporates outperformed the more defensive Treasury and mortgage backed sectors of the Bloomberg Barclays US Aggregate Index's three broad sectors during the 3rd quarter. Investment grade corporate credit returned 3.0%, as they benefitted from their higher sensitivity to interest rates, low credit spreads and high investor demand for yield. When viewed over the 1-year period, corporate credit outperformed both Treasuries and mortgage backed securities. Corporate issues returned 13.0% versus a 7.8% return for mortgages and 10.5% gain on Treasury securities.

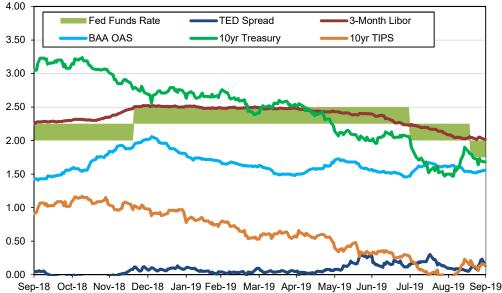




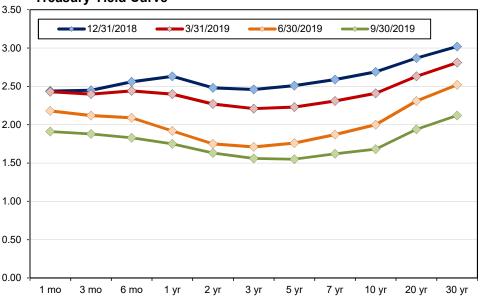


- Global fixed income returns underperformed their domestic counterparts during the 3rd quarter. These indices have lower, or in some cases (Germany, Japan), negative yields, but have higher durations. Given their higher durations, these issues would be expected to perform relatively well during periods of falling rates, however, the returns of these indices are also significantly influenced by fluctuations in their currency denomination relative to the USD. As mentioned, the USD appreciated against most other developed currencies during the quarter, acting as a headwind to global bond indices. The return on global bonds, as represented by the Bloomberg Barclays Global Aggregate ex US Index, was -0.6%. Global bonds also trailed over the 1-year period with the Global Aggregate ex US Index returning 5.3% versus a 10.3% return on the domestically focused Bloomberg Barclays Aggregate Index. As global growth has shown signs of stalling, several international central banks have started to step back from more restrictive postures. The ECB and the PBoC have moved toward an easing of monetary policy and implemented various stimulus programs designed to support their respective economies. The Bank of England and the Bank of Japan made no major policy changes during the quarter as they continue to review macroeconomic data within their respective countries.
- Much of the index performance detailed in the bar graphs on the previous page is visible on a time series basis by reviewing the line graphs to the right. The '1-Year Trailing Market Rates' chart illustrates that over the last year, the 10-year Treasury yield (green line) fell from high's greater than 3.0%, to yields below 1.5% before ending the guarter at 1.68%. 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-Treasury issues. This line illustrates an abrupt increase in credit spreads during the 4th quarter of 2018 as investors moved to higher quality assets during the quarter's risk-off environment. Subsequently, spreads declined steadily, remaining somewhat range bound with increases in May and August. There was little change through the quarter with spreads tightening by about 1 basis point. Spread tightening is equivalent to an interest rate decrease on corporate bonds, which produces an additional tailwind for corporate bond index returns. The green band across the graph illustrates the decrease in the Federal Funds Rate due to the recent easing in US monetary policy. The rate cuts in July and September have pushed the Fed Funds Rate to 1-year lows.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four calendar quarters. The downward shift in interest rates as well as a general flattening of the yield curve are clearly visible over the last quarter. As mentioned, the yield curve continues to invert as yields on shorterand middle-term maturities fell less than interest rates at the long-end of the curve.

1-Year Trailing Market Rates



Treasury Yield Curve





As of Sptember 30, 2019

Total Fund Compliance:	Yes	No	N/A
1. The Total Plan return equaled or exceeded the 7.25% actuarial earnings assumption over the trailing three and five year periods.		•	
2. The Total Plan return equaled or exceeded the total plan benchmark over the trailing three and five year periods.		•	
3. The Total Plan return ranked within the top 40th percentile of its peer group over the trailing three and five year periods.	•		

^{*} Based off gross of fees and public plan peer group.

Total Equity Compliance:	Yes	No	N/A
1. Total equity returns meet or exceed the benchmark over the trailing three and five year periods.		•	
2. Total equity returns ranked within the top 40th percentile of its peer group over the trailing three and five year periods.			•
3. The total equity allocation was less than 70% of the total plan assets at market.	•		
4. Total foreign equity was less than 25% of the total plan assets at market.	•		

Total Fixed Income Compliance:	Yes	No	N/A
1. Total fixed income returns meet or exceed the benchmark over the trailing three and five year periods.	•		
2. Total fixed income returns ranked within the top 40th percentile of its peer group over the trailing three and five year periods.	•		
3. No more than 15% of the fixed income portfolio was rated below BBB/Baa.	•		

	VG To	tal Stoc	k Mkt	Rhun	Rhumbline R1000V		Boston		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•			•			•
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•			•			•
3. Less than four consecutive quarters of under performance relative to the benchmark.			•			•	•		
4. Three and five-year down-market capture ratio less than the index.*			•			•			•
5. Manager reports compliance with PFIA.			•			•			•

	Rhun	nbline R1	000G	P	olen LC	G	VC	G Mid-Ca	р
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
Manager outperformed the index over the trailing three and five year periods.*			•			•		•	
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•			•	•		
3. Less than four consecutive quarters of under performance relative to the benchmark.			•	•			•		
4. Three and five-year down-market capture ratio less than the index.*			•			•		•	
5. Manager reports compliance with PFIA.			•	_		•			•



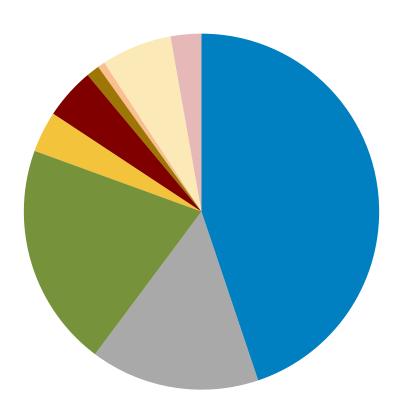
Delray Beach Police Pension Plan Compliance Checklist As of Sptember 30, 2019

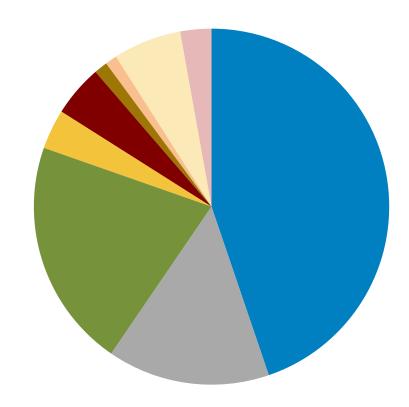
		С	larkston		H.L	. Intl Ed	quity	Blackro	ock Multi-	-Asset
		Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1.	Manager outperformed the index over the trailing three and five year periods.*			•			•			•
2	Manager ranked within the top 40th percentile over trailing three and five year periods.*			•			•			•
3	Less than four consecutive quarters of under performance relative to the benchmark.	•			•					•
4.	Three and five-year down-market capture ratio less than the index.*			•			•			•
5	Manager reports compliance with PFIA.			•			•			•

		GHA		Temp	oleton G	Global	Ame	erican Rea	alty
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
1. Manager outperformed the index over the trailing three and five year periods.*			•		•			•	
2. Manager ranked within the top 40th percentile over trailing three and five year periods.*			•		•			•	
3. Less than four consecutive quarters of under performance relative to the benchmark.		•		•			•		
4. Three and five-year down-market capture ratio less than the index.*			•	•					•
5. Manager reports compliance with PFIA.	•					•			•



June 30, 2019 : \$98,754,496 September 30, 2019 : \$98,710,739

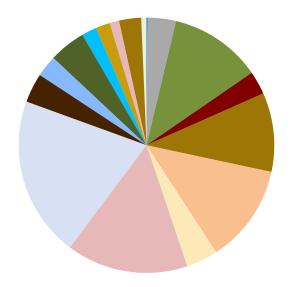


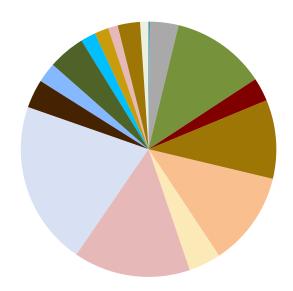


llocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ US Equity	44,275,333	44.8	■ US Equity	44,196,966	44.8
International Equity	15,199,942	15.4	International Equity	14,586,533	14.8
US Fixed Income	20,069,994	20.3	US Fixed Income	20,539,533	20.8
Global Fixed Income	3,678,747	3.7	Global Fixed Income	3,565,215	3.6
US Private Real Estate	4,588,173	4.6	US Private Real Estate	4,641,437	4.7
US Real Return	1,179,549	1.2	US Real Return	1,196,061	1.2
Cash	656,786	0.7	Cash	1,053,332	1.1
US Private Equity	6,338,742	6.4	US Private Equity	6,128,878	6.2
US Real Assets	2,767,230	2.8	US Real Assets	2,802,783	2.8



June 30, 2019 : \$98,754,496



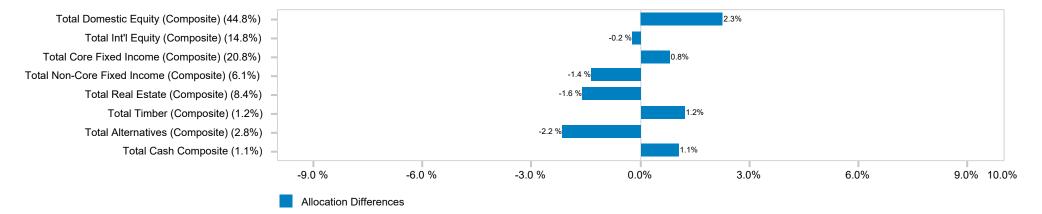


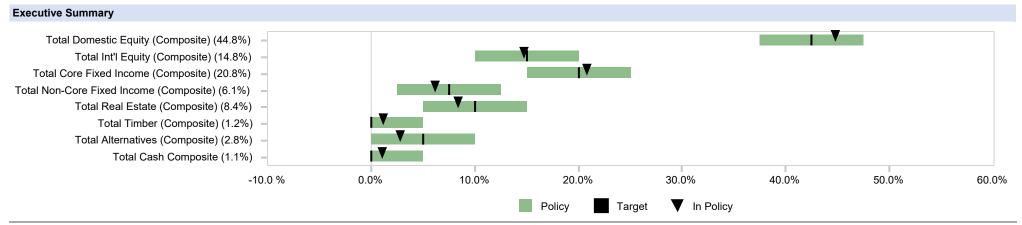
September 30, 2019 : \$98,710,739

Allocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Vanguard Total Stock Mkt (VTSAX)	118,055	0.1	■ Vanguard Total Stock Mkt (VTSAX)	122,233	0.1
■ Rhumbline R1000V	3,563,469	3.6	■ Rhumbline R1000V	3,611,780	3.7
■ Boston LCV	11,511,721	11.7	■ Boston LCV	11,819,262	12.0
Lazard SMid Cap Core	6,225	0.0	Lazard SMid Cap Core	-	0.0
■ Vanguard Mid-Cap Index (VIMAX)	2,920,370	3.0	■ Vanguard Mid-Cap Index (VIMAX)	2,938,078	3.0
■ Clarkston Partners (CISMX)	9,879,609	10.0	Clarkston Partners (CISMX)	9,867,232	10.0
Polen Capital LCG	12,304,938	12.5	Polen Capital LCG	11,808,249	12.0
Rhumbline R1000G	3,970,946	4.0	Rhumbline R1000G	4,030,132	4.1
Harding Loevner Intl Equity (HLMIX)	15,199,942	15.4	Harding Loevner Intl Equity (HLMIX)	14,586,533	14.8
Garcia Hamilton Fixed Income	20,069,994	20.3	Garcia Hamilton Fixed Income	20,539,533	20.8
■ Templeton Global Total Return (FTTRX)	3,678,747	3.7	■ Templeton Global Total Return (FTTRX)	3,565,215	3.6
Crescent Direct Lending Levered Fund	2,679,056	2.7	Crescent Direct Lending Levered Fund	2,499,801	2.5
■ American Core Realty	4,588,173	4.6	American Core Realty	4,641,437	4.7
Angelo Gordon Net Lease Realty Fund III, L.P.	1,860,168	1.9	Angelo Gordon Net Lease Realty Fund III, L.P.	1,860,168	1.9
■ Dune Real Estate Fund III	1,799,518	1.8	Dune Real Estate Fund III	1,768,909	1.8
Molpus Woodlands Timber	1,179,549	1.2	Molpus Woodlands Timber	1,196,061	1.2
■ Blackrock Multi-Asset Income (BKMIX)	2,767,230	2.8	■ Blackrock Multi-Asset Income (BKMIX)	2,802,783	2.8
Mutual Fund Cash	3,756	0.0	Mutual Fund Cash	3,855	0.0
R&D	653,030	0.7	R&D	1,049,477	1.1



	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
otal Fund (Composite)	98,710,739	100.00	100.00	0.00	-
otal Domestic Equity (Composite)	44,196,966	44.77	42.50	2.27	-2,244,902
otal Int'l Equity (Composite)	14,586,533	14.78	15.00	-0.22	220,078
otal Core Fixed Income (Composite)	20,539,533	20.81	20.00	0.81	-797,386
otal Non-Core Fixed Income (Composite)	6,065,016	6.14	7.50	-1.36	1,338,289
otal Real Estate (Composite)	8,270,515	8.38	10.00	-1.62	1,600,559
otal Timber (Composite)	1,196,061	1.21	0.00	1.21	-1,196,061
otal Alternatives (Composite)	2,802,783	2.84	5.00	-2.16	2,132,754
otal Cash Composite	1,053,332	1.07	0.00	1.07	-1,053,332







Comparative Performance																	
	Q	TR	Y	ΓD	FY	TD	1 \	/R	2 `	ΥR	3 \	/R	5 Y	′R	Ince	ption	Inception Date
Total Fund (Net)	0.92	(51)	13.51	(31)	4.38	(45)	4.38	(45)	6.23	(15)	7.82	(13)	6.14	(19)	5.32	(52)	10/01/2005
Total Fund Policy	0.94	(50)	13.71	(28)	5.02	(34)	5.02	(34)	6.79	(11)	8.47	(7)	7.20	(5)	6.33	(17)	
Difference	-0.02		-0.20		-0.64		-0.64		-0.56		-0.65		-1.06		-1.01		
IM Mixed-Asset Target Alloc Moderate (MF) Median	0.93		12.51		4.00		4.00		4.60		6.35		4.98		5.35		
Total Fund (Gross)	0.98	(38)	13.72	(33)	4.65	(39)	4.65	(39)	6.55	(27)	8.17	(41)	6.57	(43)	5.78	(84)	10/01/2005
Total Fund Policy	0.94	(41)	13.71	(33)	5.02	(29)	5.02	(29)	6.79	(17)	8.47	(25)	7.20	(16)	6.33	(57)	
Difference	0.04		0.01		-0.37		-0.37		-0.24		-0.30		-0.63		-0.55		
All Public Plans-Total Fund Median	0.83		12.90		4.31		4.31		5.90		8.00		6.45		6.42		
Total Equity (Composite)	0.61		19.64		2.91		2.91		7.78		10.57		7.78		6.78		10/01/2005
Total Equity Policy	0.12		17.57		1.49		1.49		7.37		11.10		7.83		6.38		
Difference	0.49		2.07		1.42		1.42		0.41		-0.53		-0.05		0.40		
Total Domestic Equity (Composite)	1.62	(25)	21.69	(27)	5.16	(20)	5.16	(20)	10.33	(31)	11.86	(45)	9.18	(40)	7.79	(49)	10/01/2005
Total Domestic Equity Policy	0.75	(48)	19.62	(45)	2.36	(41)	2.36	(41)	9.78	(36)	12.65	(35)	10.15	(29)	8.64	(33)	
Difference	0.87		2.07		2.80		2.80		0.55		-0.79		-0.97		-0.85		
IM U.S. All Cap Equity (SA+CF+MF) Median	0.67		18.95		0.96		0.96		8.20		11.37		8.55		7.72		
Total Int'l Equity (Composite)	-2.39	(86)	13.79	(46)	-3.33	(73)	-3.33	(73)	1.16	(37)	6.69	(44)	3.69	(59)	3.77	(11)	05/01/2007
Total Int'l Policy	-1.80	(64)	11.56	(72)	-1.23	(47)	-1.23	(47)	0.26	(53)	6.33	(52)	2.90	(82)	1.04	(98)	
Difference	-0.59		2.23		-2.10		- 2.10		0.90		0.36		0.79		2.73		
IM International Large Cap Core Equity (SA+CF) Median	-1.42		13.38		-1.56		-1.56		0.38		6.45		3.87		2.71		
Total Fixed Income (Composite)	1.39	(79)	5.85	(93)	7.21	(81)	7.21	(81)	4.05	(57)	4.00	(21)	3.97	(22)	5.15	(25)	10/01/2005
Total Fixed Policy	2.27	(34)	8.52	(64)	10.30	(28)	10.30	(28)	4.38	(38)	2.92	(70)	3.38	(54)	4.34	(68)	
Difference	-0.88		-2.67		-3.09		-3.09		-0.33		1.08		0.59		0.81		
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	2.10		8.85		9.65		9.65		4.17		3.28		3.44		4.65		
Total Real Estate (Composite)	2.16	(34)	4.62	(77)	6.42	(86)	6.42	(86)	8.24	(53)	8.77	(34)	9.99	(49)	4.54	(100)	07/01/2007
NCREIF ODCE	1.38	(86)	4.47	(79)	6.16	(87)	6.16	(87)	7.48	(78)	7.59	(80)	9.59	(73)	5.51	(74)	
Difference	0.78		0.15		0.26		0.26		0.76		1.18		0.40		-0.97		
IM U.S. Open End Private Real Estate (SA+CF) Median	1.80		5.34		7.05		7.05		8.35		8.43		9.97		5.83		
Total Timber (Composite)	1.40		1.40		5.63		5.63		-2.16		-1.35		1.75		2.88		07/01/2007
NCREIF Timberland Index	0.18		1.34		2.10		2.10		3.05		3.12		4.36		5.07		
Difference	1.22		0.06		3.53		3.53		-5.21		-4.47		-2.61		-2.19		
Total Alternatives (Composite)	1.28		12.34		5.25		5.25		5.09		6.11		4.65		1.74		08/01/2010
Alternatives Policy	2.01		14.66		7.72		7.72		7.89		8.27		7.22		4.67		
Difference	-0.73		-2.32		-2.47		-2.47		-2.80		-2.16		-2.57		-2.93		



Comparative Performance Total Fund Trailing Returns As of September 30, 2019

	Q	TR	Y	ΤD	FY	TD	1 \	/R	2 \	/R	3 \	/R	5 Y	/R	Ince	ption	Inception Date
Total Domestic Equity (Composite)	1.62		21.69		5.16		5.16		10.33		11.86		9.18		7.79		10/01/2005
Vanguard Total Stock Mkt (VTSAX)	1.08	(38)	N/A		5.21	(36)	04/01/2019										
CRSP U.S. Total Market TR Index	1.11	(38)	20.03	(37)	2.92	(34)	2.92	(34)	10.02	(30)	12.82	(28)	10.43	(25)	5.24	(36)	
Difference	-0.03		N/A		-0.03												
IM U.S. Equity (MF) Median	0.37		18.14		0.13		0.13		6.71		9.99		8.29		3.96		
Rhumbline R1000V	1.36	(58)	17.76	(50)	4.00	(37)	4.00	(37)	N/A		N/A		N/A		4.54	(47)	01/01/2018
Russell 1000 Value Index	1.36	(58)	17.81	(50)	4.00	(37)	4.00	(37)	6.69	(52)	9.43	(69)	7.79	(63)	4.54	(47)	
Difference	0.00		-0.05		0.00		0.00		N/A		N/A		N/A		0.00		
IM U.S. Large Cap Value Equity (SA+CF) Median	1.63		17.67		2.14		2.14		6.75		10.45		8.20		4.28		
Boston LCV	2.78	(20)	20.07	(28)	3.28	(42)	3.28	(42)	N/A		N/A		N/A		5.32	(36)	01/01/2018
Russell 1000 Value Index	1.36	(58)	17.81	(50)	4.00	(37)	4.00	(37)	6.69	(52)	9.43	(69)	7.79	(63)	4.54	(47)	
Difference	1.42		2.26		-0.72		-0.72		N/A		N/A		N/A		0.78		
IM U.S. Large Cap Value Equity (SA+CF) Median	1.63		17.67		2.14		2.14		6.75		10.45		8.20		4.28		
Fotal Growth (Composite)	1.10	(28)	25.05	(18)	11.10	(5)	11.10	(5)	16.51	(16)	15.90	(49)	11.79	(60)	6.63	(96)	07/01/2007
Russell 1000 Growth Index	1.49	(20)	23.30	(28)	3.71	(39)	3.71	(39)	14.45	(35)	16.89	(30)	13.39	(27)	10.12	(30)	
Difference	-0.39		1.75		7.39		7.39		2.06		-0.99		-1.60		-3.49		
IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	0.16		21.59		2.72		2.72		13.35		15.78		12.33		9.55		
Rhumbline R1000G	1.49	(31)	23.27	(37)	3.70	(54)	3.70	(54)	N/A		N/A		N/A		11.72	(51)	01/01/2018
Russell 1000 Growth Index	1.49	(31)	23.30	(37)	3.71	(54)	3.71	(54)	14.45	(44)	16.89	(37)	13.39	(39)	11.73	(51)	
Difference	0.00		-0.03		-0.01		-0.01		N/A		N/A		N/A		-0.01		
IM U.S. Large Cap Growth Equity (SA+CF) Median	0.74		22.15		3.90		3.90		14.02		16.14		12.77		11.79		
Polen Capital LCG	0.97	(45)	25.64	(21)	N/A		25.64	(21)	01/01/2019								
Russell 1000 Growth Index	1.49	(31)	23.30	(37)	3.71	(54)	3.71	(54)	14.45	(44)	16.89	(37)	13.39	(39)	23.30	(37)	
Difference	-0.52		2.34		N/A		2.34										
IM U.S. Large Cap Growth Equity (SA+CF) Median	0.74		22.15		3.90		3.90		14.02		16.14		12.77		22.17		
/anguard Mid-Cap Index (VIMAX)	0.61	(61)	22.60	(20)	3.65	(23)	3.65	(23)	8.42	(15)	10.67	(21)	N/A		8.47	(21)	07/01/2015
CRSP U.S. Mid Cap TR Index	0.62	(60)	22.66	(18)	3.70	(21)	3.70	(21)	8.46	(14)	10.70	(19)	9.24	(16)	8.51	(19)	
Difference	-0.01		-0.06		-0.05		-0.05		-0.04		-0.03		N/A		-0.04		
IM U.S. Mid Cap Core Equity (MF) Median	0.91		19.69		0.93		0.93		5.67		8.76		6.92		6.28		
Clarkston Partners (CISMX)	1.51	(13)	15.89	(29)	3.45	(2)	3.45	(2)	N/A		N/A		N/A		4.27	(4)	01/01/2018
Russell 2500 Value Index	0.13	(28)	15.41	(31)	-4.35	(22)	-4.35	(22)	2.69	(21)	6.87	(23)	6.98	(27)	0.65	(49)	
Difference	1.38		0.48		7.80		7.80		N/A		N/A		N/A		3.62		
IM U.S. SMID Cap Value Equity (MF) Median	-1.09		12.93		-9.44		-9.44		-1.16		5.10		5.10		0.52		



Comparative Performance Total Fund Trailing Returns As of September 30, 2019

	Q	TR	Y	TD	FY	TD	1 Y	Y R	2 Y	/R	3 \	/R	5 \	/R	Ince	ption	Inception Date
Total Int'l Equity (Composite)	-2.39	(86)	13.79	(46)	-3.33	(73)	-3.33	(73)	1.16	(37)	6.69	(44)	3.69	(59)	3.77	(11)	05/01/2007
Total Int'l Policy	-1.80	(64)	11.56	(72)	-1.23	(47)	-1.23	(47)	0.26	(53)	6.33	(52)	2.90	(82)	1.04	(98)	
Difference	-0.59		2.23		-2.10		-2.10		0.90		0.36		0.79		2.73		
IM International Large Cap Core Equity (SA+CF) Median	-1.42		13.38		-1.56		-1.56		0.38		6.45		3.87		2.71		
Harding Loevner Intl Equity (HLMIX)	-2.40	(61)	13.78	(31)	-3.34	(62)	-3.34	(62)	1.15	(26)	6.68	(29)	N/A		6.63	(34)	09/01/2016
MSCI AC World ex USA (Net)	-1.80	(47)	11.56	(49)	-1.23	(44)	-1.23	(44)	0.26	(35)	6.33	(34)	2.90	(48)	6.58	(36)	
Difference	-0.60		2.22		-2.11		-2.11		0.89		0.35		N/A		0.05		
IM International Equity (MF) Median	-1.90		11.44		-1.94		-1.94		-1.10		5.44		2.81		5.82		



	Q	TR	Υ٦	ΓD	FY	TD	1 Y	/R	2 \	Y R	3 \	/R	5 `	/R	Ince	ption	Inception Date
Total Core Fixed Income (Composite)	2.40		7.38		8.75		8.75		3.92		2.86		3.64		4.33		10/01/2005
Total Fixed Policy	2.27		8.52		10.30		10.30		4.38		2.92		3.38		4.34		
Difference	0.13		-1.14		-1.55		-1.55		-0.46		-0.06		0.26		-0.01		
Garcia Hamilton Fixed Income	2.40	(36)	7.38	(97)	8.75	(96)	8.75	(96)	N/A		N/A		N/A		4.75	(84)	01/01/2018
Blmbg. Barc. U.S. Aggregate Index	2.27	(73)	8.52	(83)	10.30	(70)	10.30	(70)	4.38	(85)	2.92	(92)	3.38	(91)	4.79	(81)	
Difference	0.13		-1.14		-1.55		-1.55		N/A		N/A		N/A		-0.04		
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	2.34		9.01		10.48		10.48		4.71		3.38		3.76		5.09		
Total Non-Core Fixed Income (Composite)	-1.80		1.12		2.29		2.29		3.63		6.09		4.30		7.46		07/01/2010
Bloomberg Barclays Global Aggregate	0.71		6.32		7.60		7.60		3.05		1.59		2.00		2.66		
Difference	-2.51		-5.20		-5.31		-5.31		0.58		4.50		2.30		4.80		
Templeton Global Total Return (FTTRX)	-3.09	(100)	0.24	(100)	2.49	(99)	2.49	(99)	0.27	(94)	4.60	(6)	1.51	(75)	3.05	(31)	07/01/2011
Blmbg. Barc. Global Multiverse	0.63	(58)	6.45	(69)	7.54	(51)	7.54	(51)	3.02	(52)	1.81	(65)	2.14	(51)	1.93	(64)	
Difference	-3.72		-6.21		-5.05		-5.05		-2.75		2.79		-0.63		1.12		
IM Global Fixed Income (MF) Median	1.01		7.12		7.65		7.65		3.05		2.29		2.16		2.29		
Total Real Estate (Composite)	2.16		4.62		6.42		6.42		8.24		8.77		9.99		4.54		07/01/2007
American Core Realty	1.44	(81)	4.78	(75)	6.81	(60)	6.81	(60)	7.65	(75)	7.61	(78)	9.14	(84)	5.55	(69)	07/01/2007
NCREIF ODCE	1.38	(86)	4.47	(79)	6.16	(87)	6.16	(87)	7.48	(78)	7.59	(80)	9.59	(73)	5.51	(74)	
Difference	0.06		0.31		0.65		0.65		0.17		0.02		-0.45		0.04		
IM U.S. Open End Private Real Estate (SA+CF) Median	1.80		5.34		7.05		7.05		8.35		8.43		9.97		5.83		
Total Timber (Composite)	1.40		1.40		5.63		5.63		-2.16		-1.35		1.75		2.88		07/01/2007
Molpus Woodlands Timber	1.40		1.35		5.91		5.91		1.53		1.42		2.38		2.68		06/01/2008
NCREIF Timberland Index	0.18		1.34		2.10		2.10		3.05		3.12		4.36		3.85		
Difference	1.22		0.01		3.81		3.81		-1.52		-1.70		-1.98		-1.17		
Alternatives																	
Blackrock Multi-Asset Income (BKMIX)	1.28	(34)	N/A		N/A		N/A		N/A		N/A		N/A		4.09	(32)	04/01/2019
50% MSCI World Ind(Net TR)/50% Bar US Agg Ind	1.43	(31)	13.22	(29)	6.40	(18)	6.40	(18)	5.66	(11)	6.70	(19)	5.46	(19)	5.15	(19)	
Difference	-0.15		N/A	•	N/A		N/A		N/A		N/A		N/A		-1.06		
IM Flexible Portfolio (MF) Median	0.72		11.20		2.58		2.58		3.14		5.02		3.91		3.05		



[^] Some products shown on IRR page.

Comparative Performance - IRR

As of September 30, 2019

Comparative Performance - IRR			
	QTR	Inception	Inception Date
Molpus Woodlands Timber	1.40	2.22	06/24/2008
Angelo Gordon Net Lease Realty Fund III, L.P.	6.04	8.05	03/10/2014
Dune Real Estate Fund III	0.00	12.57	11/06/2014
Crescent Direct Lending Levered Fund	0.00	7.58	10/09/2014

Comparative Performance											
	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010
Total Fund (Net)	4.38 (45)	4.38 (45)	8.11 (14)	11.07 (30)	8.82 (51)	-1.22 (28)	10.01 (29)	10.96 (41)	16.79 (51)	1.26 (20)	8.88 (57)
Total Fund Policy	5.02 (34)	5.02 (34)	8.59 (12)	11.90 (17)	10.34 (19)	0.55 (5)	10.23 (26)	10.24 (52)	15.21 (75)	2.15 (12)	9.18 (53)
Difference	-0.64	-0.64	-0.48	-0.83	-1.52	-1.77	-0.22	0.72	1.58	-0.89	-0.30
IM Mixed-Asset Target Alloc Moderate (MF) Median	4.00	4.00	5.07	10.00	8.82	-2.35	8.37	10.34	16.89	-0.53	9.34
Total Fund (Gross)	4.65 (39)	4.65 (39)	8.47 (25)	11.48 (58)	9.41 (61)	-0.72 (49)	10.58 (38)	11.52 (58)	17.35 (53)	1.61 (34)	9.34 (65)
Total Fund Policy	5.02 (29)	5.02 (29)	8.59 (24)	11.90 (50)	10.34 (33)	0.55 (21)	10.23 (46)	10.24 (71)	15.21 (77)	2.15 (24)	9.18 (69)
Difference	-0.37	-0.37	-0.12	-0.42	-0.93	-1.27	0.35	1.28	2.14	-0.54	0.16
All Public Plans-Total Fund Median	4.31	4.31	7.09	11.82	9.74	-0.78	9.93	12.00	17.58	0.67	9.90
Total Equity (Composite)	2.91	2.91	12.88	16.39	11.59	-3.61	13.96	21.06	25.94	-0.85	11.43
Total Equity Policy	1.49	1.49	13.60	18.94	13.34	-6.20	11.73	19.62	22.72	-4.71	11.22
Difference	1.42	1.42	-0.72	-2.55	-1.75	2.59	2.23	1.44	3.22	3.86	0.21
Total Domestic Equity (Composite)	5.16 (20)	5.16 (20)	15.75 (47)	14.97 (79)	12.80 (36)	-1.73 (53)	17.23 (34)	22.56 (56)	27.44 (46)	3.01 (15)	11.37 (37)
Total Domestic Equity Policy	2.36 (41)	2.36 (41)	17.73 (32)	18.62 (46)	14.77 (18)	-1.18 (47)	17.67 (29)	22.03 (60)	29.64 (25)	0.48 (32)	11.12 (39)
Difference	2.80	2.80	-1.98	-3.65	-1.97	-0.55	-0.44	0.53	-2.20	2.53	0.25
IM U.S. All Cap Equity (SA+CF+MF) Median	0.96	0.96	15.09	18.19	11.49	-1.47	15.77	23.35	26.94	-1.62	10.02
Total Int'l Equity (Composite)	-3.33 (73)	-3.33 (73)	5.86 (14)	18.68 (69)	7.98 (50)	-8.63 (65)	6.07 (50)	16.67 (89)	21.58 (5)	-10.95 (69)	9.69 (16)
Total Int'l Policy	-1.23 (47)	-1.23 (47)	1.76 (60)	19.61 (59)	9.26 (33)	-12.16 (90)	4.77 (63)	16.48 (90)	14.49 (83)	-10.81 (69)	5.94 (55)
Difference	-2.10	-2.10	4.10	-0.93	-1.28	3.53	1.30	0.19	7.09	-0.14	3.75
IM International Large Cap Core Equity (SA+CF) Median	-1.56	-1.56	2.46	20.20	7.91	-7.16	6.04	22.60	17.31	-9.42	6.30
Total Fixed Income (Composite)	7.21 (81)	7.21 (81)	0.97 (13)	3.91 (19)	5.81 (48)	2.09 (44)	6.00 (22)	2.81 (8)	11.79 (14)	3.12 (76)	9.16 (67)
Total Fixed Policy	10.30 (28)	10.30 (28)	-1.22 (64)	0.07 (84)	5.19 (68)	2.94 (17)	3.96 (74)	-2.35 (90)	5.75 (84)	5.96 (9)	8.63 (76)
Difference	-3.09	-3.09	2.19	3.84	0.62	-0.85	2.04	5.16	6.04	-2.84	0.53
IM U.S. Broad Market Fixed Income (SA+CF+MF) Median	9.65	9.65	-0.90	1.29	5.72	1.84	4.74	-0.97	7.75	4.40	9.99
Total Real Estate (Composite)	6.42 (86)	6.42 (86)	10.09 (27)	9.82 (31)	9.06 (97)	14.70 (62)	12.33 (69)	8.10 (100)	13.00 (46)	14.11 (90)	10.94 (9)
NCREIF ODCE	6.16 (87)	6.16 (87)	8.82 (59)	7.81 (60)	10.62 (69)	14.71 (62)	12.39 (68)	12.47 (67)	11.77 (63)	18.03 (44)	6.14 (55)
Difference	0.26	0.26	1.27	2.01	-1.56	-0.01	-0.06	-4.37	1.23	-3.92	4.80
IM U.S. Open End Private Real Estate (SA+CF) Median	7.05	7.05	9.04	8.29	11.32	15.45	12.78	13.18	12.87	16.96	6.43
Total Timber (Composite)	5.63	5.63	-9.38	0.28	6.48	6.70	9.49	4.51	-5.86	3.87	-0.21
NCREIF Timberland Index	2.10	2.10	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26	-3.93
Difference	3.53	3.53	-13.38	-3.00	3.20	-2.56	-0.89	-5.17	-8.11	3.61	3.72
Total Alternatives (Composite)	5.25	5.25	4.93	8.16	9.11	-3.68	6.84	-9.88	-8.55	-0.85	N/A
Alternatives Policy	7.72	7.72	8.07	9.04	10.41	1.10	7.56	-3.91	-2.59	1.58	N/A
Difference	-2.47	-2.47	-3.14	-0.88	-1.30	-4.78	-0.72	-5.97	- 5.96	-2.43	N/A



	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010
Total Domestic Equity (Composite)	5.16	5.16	15.75	14.97	12.80	-1.73	17.23	22.56	27.44	3.01	11.37
Rhumbline R1000V Russell 1000 Value Index Difference IM U.S. Large Cap Value Equity (SA+CF) Median	4.00 (37)	4.00 (37)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4.00 (37)	4.00 (37)	9.45 (77)	15.12 (75)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)	8.90 (56)
	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.14	2.14	11.72	17.89	13.33	-3.29	18.40	23.73	28.15	-0.98	9.32
Boston LCV Russell 1000 Value Index Difference IM U.S. Large Cap Value Equity (SA+CF) Median	3.28 (42)	3.28 (42)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4.00 (37)	4.00 (37)	9.45 (77)	15.12 (75)	16.19 (26)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)	8.90 (56)
	-0.72	-0.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.14	2.14	11.72	17.89	13.33	-3.29	18.40	23.73	28.15	-0.98	9.32
Total Growth (Composite) Russell 1000 Growth Index Difference IM U.S. Large Cap Growth Equity (SA+CF+MF) Median	11.10 (5) 3.71 (39) 7.39 2.72	11.10 (5) 3.71 (39) 7.39 2.72	22.18 (73) 26.30 (38) -4.12 24.86	14.68 (95) 21.94 (31) -7.26 20.27	7.63 (88) 13.76 (19) -6.13 11.16	4.20 (36) 3.17 (48) 1.03 3.02	18.19 (40) 19.15 (28) -0.96 17.25	18.74 (62) 19.27 (56) -0.53 19.76	29.37 (35) 29.19 (37) 0.18 27.49	8.43 (2) 3.78 (22) 4.65 0.80	7.97 (79) 12.65 (29) -4.68 10.58
Vanguard Total Stock Mkt (VTSAX) CRSP U.S. Total Market TR Index Difference IM U.S. Equity (MF) Median	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2.92 (34)	2.92 (34)	17.62 (31)	18.64 (40)	14.99 (27)	-0.55 (46)	17.77 (23)	21.59 (55)	29.96 (29)	0.46 (32)	11.68 (45)
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	0.13	0.13	13.30	17.48	12.13	-0.93	13.75	22.53	27.33	-1.87	10.88
Rhumbline R1000G Russell 1000 Growth Index Difference IM U.S. Large Cap Growth Equity (SA+CF) Median	3.70 (54)	3.70 (54)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.71 (54)	3.71 (54)	26.30 (36)	21.94 (37)	13.76 (23)	3.17 (54)	19.15 (40)	19.27 (64)	29.19 (39)	3.78 (30)	12.65 (36)
	-0.01	-0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.90	3.90	24.38	20.81	11.64	3.53	18.19	20.25	27.69	1.38	11.29
Sawgrass Large Cap Growth Russell 1000 Growth Index Difference IM U.S. Large Cap Growth Equity (SA+CF) Median	N/A 3.71 (54) N/A 3.90	N/A 3.71 (54) N/A 3.90	21.71 (66) 26.30 (36) -4.59 24.38	(,	7.63 (87) 13.76 (23) -6.13 11.64	4.20 (40) 3.17 (54) 1.03 3.53	18.19 (51) 19.15 (40) -0.96 18.19	18.74 (69) 19.27 (64) -0.53 20.25	29.37 (38) 29.19 (39) 0.18 27.69	N/A 3.78 (30) N/A 1.38	N/A 12.65 (36) N/A 11.29
Polen Capital LCG Russell 1000 Growth Index Difference IM U.S. Large Cap Growth Equity (SA+CF) Median	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.71 (54)	3.71 (54)	26.30 (36)	21.94 (37)	13.76 (23)	3.17 (54)	19.15 (40)	19.27 (64)	29.19 (39)	3.78 (30)	12.65 (36)
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3.90	3.90	24.38	20.81	11.64	3.53	18.19	20.25	27.69	1.38	11.29
Vanguard Mid-Cap Index (VIMAX) CRSP U.S. Mid Cap TR Index Difference IM U.S. Mid Cap Core Equity (MF) Median	3.65 (23) 3.70 (21) -0.05 0.93	3.65 (23) 3.70 (21) -0.05 0.93	13.42 (30) 13.44 (29) -0.02 10.79		12.63 (39) 12.68 (37) -0.05 11.77	N/A 1.76 (21) N/A -1.16	N/A 15.94 (14) N/A 12.42	N/A 28.08 (42) N/A 27.52	N/A 26.23 (50) N/A 26.18	N/A -0.18 (21) N/A -3.68	N/A 18.04 (10) N/A 13.75



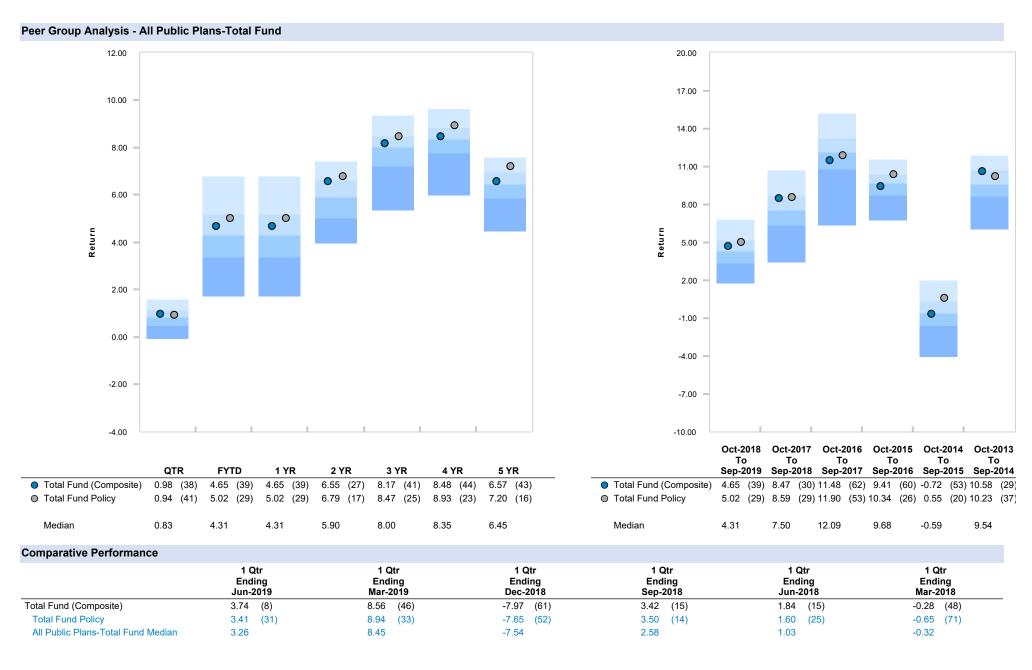
Comparative Performance Total Fund Trailing Returns As of September 30, 2019

	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010
Clarkston Partners (CISMX)	3.45 (2)	3.45 (2)	N/A								
Russell 2500 Value Index	-4.35 (22)	-4.35 (22)	10.24 (26)	15.75 (53)	17.68 (8)	-2.44 (41)	9.88 (83)	27.58 (59)	32.15 (42)	-4.70 (18)	14.74 (58)
Difference	7.80	7.80	N/A								
IM U.S. SMID Cap Value Equity (MF) Median	-9.44	-9.44	8.40	16.72	11.53	-2.57	13.27	27.99	31.14	-7.93	15.33
Total Int'l Equity (Composite)	-3.33 (73)	-3.33 (73)	5.86 (14)	18.68 (69)	7.98 (50)	-8.63 (65)	6.07 (50)	16.67 (89)	21.58 (5)	-10.95 (69)	9.69 (16)
Total Int'l Policy	-1.23 (47)	-1.23 (47)	1.76 (60)	19.61 (59)	9.26 (33)	-12.16 (90)	4.77 (63)	16.48 (90)	14.49 (83)	-10.81 (69)	5.94 (55)
Difference	-2.10	-2.10	4.10	-0.93	-1.28	3.53	1.30	0.19	7.09	-0.14	3.75
IM International Large Cap Core Equity (SA+CF) Median	-1.56	-1.56	2.46	20.20	7.91	-7.16	6.04	22.60	17.31	-9.42	6.30
Harding Loevner Intl Equity (HLMIX)	-3.34 (62)	-3.34 (62)	5.85 (10)	18.65 (58)	N/A						
MSCI AC World ex USA (Net)	-1.23 (44)	-1.23 (44)	1.76 (34)	19.61 (48)	9.26 (51)	-12.16 (64)	4.77 (43)	16.48 (56)	14.49 (65)	-10.81 (38)	7.56 (55)
Difference	-2.11	-2.11	4.09	-0.96	N/A						
IM International Equity (MF) Median	-1.94	-1.94	0.08	19.36	9.32	-8.75	4.26	17.81	16.20	-12.08	8.61



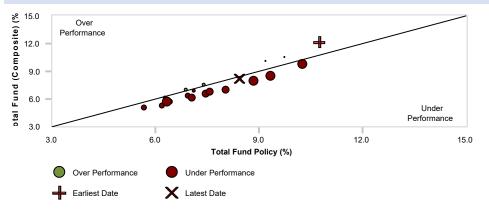
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	FYTD	Oct-2018 To Sep-2019	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010
Total Core Fixed Income (Composite)	8.75	8.75	-0.70	0.79	5.78	3.88	4.40	-1.26	7.71	4.42	8.29
Total Fixed Policy	10.30	10.30	-1.22	0.07	5.19	2.94	3.96	-2.35	5.75	5.96	8.63
Difference	-1.55	-1.55	0.52	0.72	0.59	0.94	0.44	1.09	1.96	-1.54	-0.34
Garcia Hamilton Fixed Income	8.75 (96)	8.75 (96)	N/A								
Blmbg. Barc. U.S. Aggregate Index	10.30 (70)	10.30 (70)	-1.22 (89)	0.07 (87)	5.19 (81)	2.94 (61)	3.96 (81)	-1.68 (79)	5.16 (91)	5.26 (50)	8.16 (86)
Difference	-1.55	-1.55	N/A								
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	10.48	10.48	-0.73	0.63	5.67	3.02	4.51	-1.23	6.61	5.26	9.26
Total Non-Core Fixed Income (Composite)	2.29	2.29	4.99	11.18	6.07	-2.56	9.33	11.74	24.76	-3.22	N/A
Bloomberg Barclays Global Aggregate	7.60	7.60	-1.31	-1.26	8.83	-3.26	1.19	-2.64	5.07	4.00	6.06
Difference	-5.31	-5.31	6.30	12.44	-2.76	0.70	8.14	14.38	19.69	-7.22	N/A
Templeton Global Total Return (FTTRX)	2.49 (99)	2.49 (99)	-1.90 (66)	13.82 (1)	2.64 (94)	-8.23 (95)	5.71 (22)	5.29 (2)	15.90 (3)	N/A	N/A
Blmbg. Barc. Global Multiverse	7.54 (51)	7.54 (51)	-1.32 (51)	-0.56 (77)	9.23 (25)	-3.56 (42)	1.40 (79)	-2.22 (56)	5.57 (81)	3.85 (11)	6.42 (76)
Difference	-5.05	-5.05	-0.58	14.38	-6.59	-4.67	4.31	7.51	10.33	N/A	N/A
IM Global Fixed Income (MF) Median	7.65	7.65	-1.29	1.02	7.42	-3.85	3.37	-1.81	7.17	1.74	7.68
Total Real Estate (Composite)	6.42	6.42	10.09	9.82	9.06	14.70	12.33	8.10	13.00	14.11	10.94
American Core Realty	6.81 (60)	6.81 (60)	8.50 (66)	7.53 (66)	9.04 (97)	13.98 (69)	12.49 (64)	12.27 (70)	11.56 (65)	16.11 (65)	2.71 (77)
NCREIF ODCE	6.16 (87)	6.16 (87)	8.82 (59)	7.81 (60)	10.62 (69)	14.71 (62)	12.39 (68)	12.47 (67)	11.77 (63)	18.03 (44)	6.14 (55)
Difference	0.65	0.65	-0.32	-0.28	-1.58	-0.73	0.10	-0.20	-0.21	-1.92	-3.43
IM U.S. Open End Private Real Estate (SA+CF) Median	7.05	7.05	9.04	8.29	11.32	15.45	12.78	13.18	12.87	16.96	6.43
Total Timber (Composite)	5.63	5.63	-9.38	0.28	6.48	6.70	9.49	4.51	-5.86	3.87	-0.21
Amsouth Timber Fund	N/A	N/A	-15.26	-0.52	6.12	11.73	7.98	3.85	-1.33	2.00	1.17
NCREIF Timberland Index	2.10	2.10	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26	-3.93
Difference	N/A	N/A	-19.26	-3.80	2.84	2.47	-2.40	-5.83	-3.58	1.74	5.10
Molpus Woodlands Timber	5.91	5.91	-2.66	1.18	6.08	1.64	10.96	5.25	-10.32	5.68	-1.66
NCREIF Timberland Index	2.10	2.10	4.00	3.28	3.28	9.26	10.38	9.68	2.25	0.26	-3.93
Difference	3.81	3.81	-6.66	-2.10	2.80	-7.62	0.58	-4.43	-12.57	5.42	2.27
Alternatives											
Blackrock Multi-Asset Income (BKMIX)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50% MSCI World Ind(Net TR)/50% Bar US Agg Ind	6.40 (18)	6.40 (18)	4.93 (36)	8.80 (53)	8.47 (51)	-0.98 (19)	8.10 (49)	8.84 (46)	13.48 (64)	0.72 (35)	7.98 (72)
Difference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM Flexible Portfolio (MF) Median	2.58	2.58	3.38	9.02	8.55	-4.22	7.99	8.17	15.66	-0.87	9.52
Westwood Income Opportunity Fund (WHGIX)	N/A	N/A	4.93 (36)	8.14 (60)	9.20 (40)	-3.83 (46)	N/A	N/A	N/A	N/A	N/A
Alternatives Policy	7.72 (15)	7.72 (15)	8.07 (18)	9.04 (50)	10.41 (24)	1.10 (11)	7.56 (55)	-3.91 (95)	-2.59 (100)	1.58 (24)	N/A
Difference	N/A	N/A	-3.14	-0.90	-1.21	-4.93	N/A	N/A	N/A	N/A	N/A
IM Flexible Portfolio (MF) Median	2.58	2.58	3.38	9.02	8.55	-4.22	7.99	8.17	15.66	-0.87	9.52



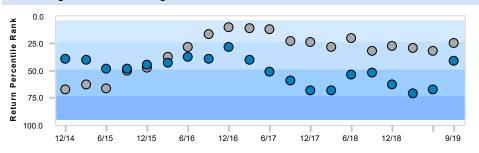




3 Yr Rolling Under/Over Performance - 5 Years

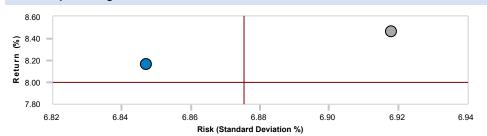


3 Yr Rolling Percentile Ranking - 5 Years



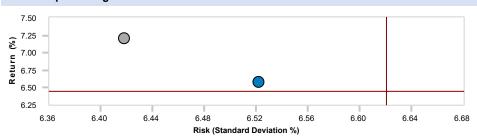
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Total Fund (Composite)	20	0 (0%)	11 (55%)	9 (45%)	0 (0%)	
 Total Fund Policy 	20	8 (40%)	9 (45%)	3 (15%)	0 (0%)	

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
Total Fund (Composite)	8.17	6.85
 Total Fund Policy 	8.47	6.92
Median	8.00	6.88

Peer Group Scattergram - 5 Years



	Return	Deviation Standard
Total Fund (Composite)	6.57	6.52
 Total Fund Policy 	7.20	6.42
Median	6.45	6.62

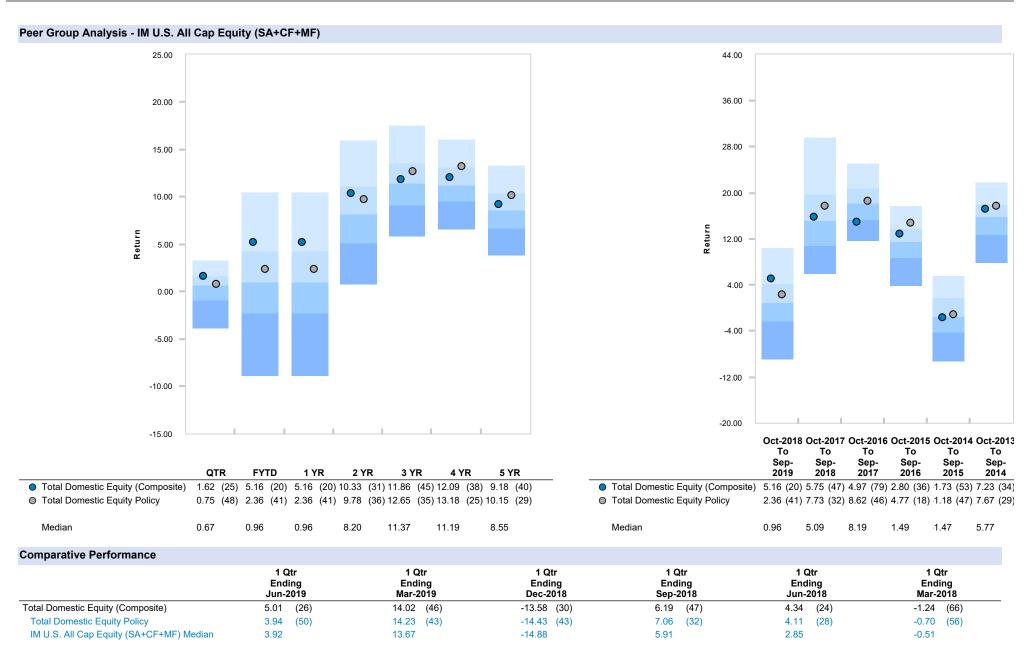
Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fund (Composite)	1.01	97.56	98.87	-0.11	-0.28	0.96	0.98	4.54
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.99	1.00	4.49

Historical Statistics - 5 Years

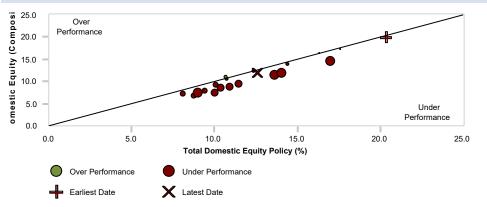
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fund (Composite)	0.93	95.65	107.02	-0.63	-0.63	0.87	1.01	4.16
Total Fund Policy	0.00	100.00	100.00	0.00	N/A	0.98	1.00	3.85



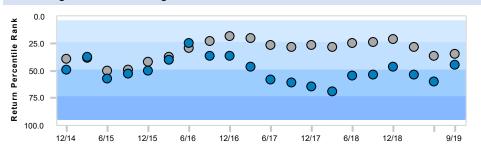




3 Yr Rolling Under/Over Performance - 5 Years

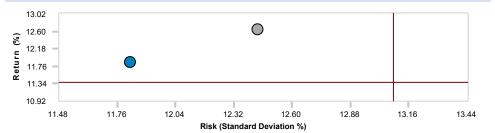


3 Yr Rolling Percentile Ranking - 5 Years



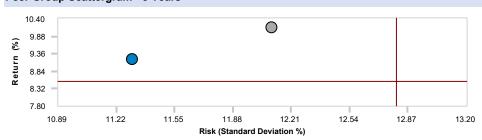
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
 Total Domestic Equity (Composite) 	20	1 (5%)	9 (45%)	10 (50%)	0 (0%)	
 Total Domestic Equity Policy 	20	6 (30%)	14 (70%)	0 (0%)	0 (0%)	

Peer Group Scattergram - 3 Years



Return	Standard Deviation
11.86	11.82
12.65	12.43
11.37	13.09
	11.86 12.65

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
 Total Domestic Equity (Composite) 	9.18	11.31
 Total Domestic Equity Policy 	10.15	12.10
Median	8.55	12.81

Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Domestic Equity (Composite)	1.75	93.76	93.72	-0.05	-0.45	0.88	0.94	8.00
Total Domestic Equity Policy	0.00	100.00	100.00	0.00	N/A	0.90	1.00	8.40

Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Domestic Equity (Composite)	2.07	91.14	91.65	-0.17	-0.47	0.75	0.92	7.37
Total Domestic Equity Policy	0.00	100.00	100.00	0.00	N/A	0.78	1.00	7.83



Peer Group Analysis - IM U.S. Equity (MF) 25.00 44.00 20.00 36.00 15.00 28.00 0 0 0 0 10.00 20.00 0 0 0 0 5.00 12.00 0 0 Return Return 00 0.00 4.00 0 -5.00 -4.00 -10.00 -12.00 -15.00 -20.00 -20.00 -28.00 -25.00 Oct-2018 Oct-2017 Oct-2016 Oct-2015 Oct-2014 Oct-2013 To Τo To То То To Sep-Sep-Sep-Sep-Sep-Sep-QTR **FYTD** 1 YR 2 YR 3 YR 4 YR 5 YR 2019 2018 2017 2016 2015 2014 Vanguard Total Stock Mkt (VTSAX) 1.08 (38) N/A N/A N/A N/A N/A N/A Vanguard Total Stock Mkt (VTSAX) N/A N/A N/A N/A N/A N/A CRSP U.S. Total Market TR Index O CRSP U.S. Total Market TR Index 1.11 (38) 2.92 (34) 2.92 (34) 10.02 (30) 12.82 (28) 13.36 (22) 10.43 (25) 2.92 (34) 7.62 (31) 8.64 (40) 4.99 (27) 0.55 (46) 7.77 (23) Median 0.37 0.13 0.13 6.71 9.99 10.77 8.29 Median 0.13 3.30 7.48 2.13 0.93 3.75 **Comparative Performance** 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr Ending Ending Ending Ending Ending Ending Jun-2019 Mar-2019 Dec-2018 Sep-2018 Jun-2018 Mar-2018 Vanguard Total Stock Mkt (VTSAX) 4.09 (40) N/A N/A N/A N/A N/A CRSP U.S. Total Market TR Index 4.08 (40)14.06 (46) -14.26 (41) (30)3.91 (45)-0.60 (45) 7.08 IM U.S. Equity (MF) Median 13.62 -15.37 5.34 3.47 -0.86 3.52

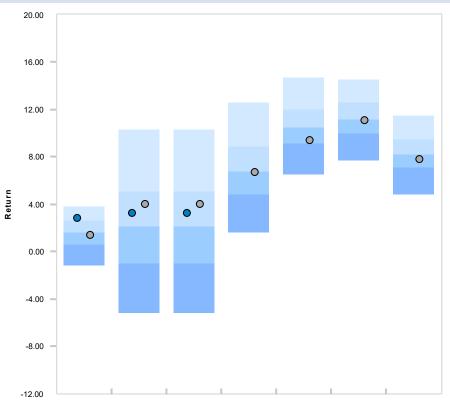


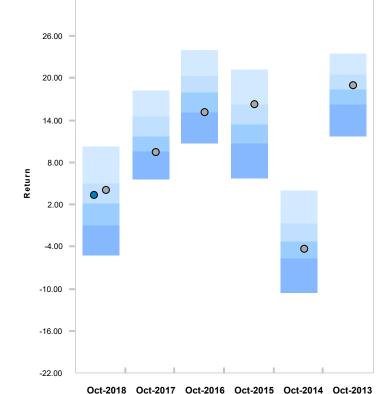
Peer Group Analysis - IM U.S. Large Cap Value Equity (SA+CF) 20.00 32.00 26.00 16.00 20.00 0 12.00 0 0 0 14.00 8.00 0 0 0 8.00 Return Return 00 0 0 4.00 00 2.00 00 0.00 -4.00 0 -4.00 -10.00 -8.00 -16.00 -12.00 -22.00 Oct-2018 Oct-2017 Oct-2016 Oct-2015 Oct-2014 Oct-2013 To To Τo Τo To QTR **FYTD** 1 YR 2 YR 3 YR 4 YR 5 YR Sep-2019 Sep-2018 Sep-2017 Sep-2016 Sep-2015 Sep-2014 1.36 (58) 4.00 (37) 4.00 (37) Rhumbline R1000V N/A N/A N/A N/A Rhumbline R1000V 4.00 (37) N/A N/A Russell 1000 Value Index 1.36 (58) 4.00 (37) 4.00 (37) 6.69 (52) 9.43 (69) 11.08 (53) 7.79 (63) Russell 1000 Value Index 4.00 (37) 9.45 (77) 15.12 (75) 16.19 (26) -4.42 (65) 18.89 (42) Median 1.63 2.14 2.14 6.75 10.45 11.18 8.20 Median 2.14 11.72 17.89 13.33 -3.29 18.40

Comparative Performance						
	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018
Rhumbline R1000V	3.85 (53)	11.88 (46)	-11.68 (29)	5.71 (50)	1.17 (66)	-2.83 (74)
Russell 1000 Value Index	3.84 (53)	11.93 (45)	-11.72 (30)	5.70 (50)	1.18 (66)	-2.83 (75)
IM U.S. Large Cap Value Equity (SA+CF) Median	3.95	11.74	-13.51	5.70	1.74	-1.97



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





32.00

	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR	
Boston LCV	2.78 (20)	3.28 (42)	3.28 (42)	N/A	N/A	N/A	N/A	
Russell 1000 Value Index	1.36 (58)	4.00 (37)	4.00 (37)	6.69 (52)	9.43 (69)	11.08 (53)	7.79 (63)	
Median	1.63	2.14	2.14	6.75	10.45	11.18	8.20	

	То	To	o T 2018 Sep-	0	То	То	То
Boston LCV	3.28 (4	42) N/A	N/A	N	I/A	N/A	N/A
Russell 1000 Value Index	4.00 (3	37) 9.45	(77) 15.12	(75) 16.	19 (26) -	4.42 (65)	18.89 (42)
Median	2.14	11.72	17.89	13.	33 -	-3.29	18.40

	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018
Boston LCV	5.51 (13)	10.72 (72)	-13.98 (59)	6.12 (39)	2.23 (35)	-2.29 (61)
Russell 1000 Value Index	3.84 (53)	11.93 (45)	-11.72 (30)	5.70 (50)	1.18 (66)	-2.83 (75)
IM U.S. Large Cap Value Equity (SA+CF) Median	3.95	11.74	-13.51	5.70	1.74	-1.97



Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF) 28.00 44.00 24.00 36.00 20.00 28.00 0 0 0 16.00 0 0 0 20.00 0 12.00 Return Return 0 8.00 12.00 4.00 00 0 0 4.00 00 0 0 0 0.00 -4.00 -4.00 -12.00 -8.00 -12.00 -20.00 Oct-2015 Oct-2014 Oct-2018 Oct-2017 Oct-2016 Oct-2013 To Τo To To To To QTR **FYTD** 1 YR 2 YR 3 YR 4 YR 5 YR Sep-2019 Sep-2018 Sep-2017 Sep-2016 Sep-2015 Sep-2014 Rhumbline R1000G 1.49 (30) 3.70 (54) 3.70 (54) N/A N/A N/A N/A Rhumbline R1000G 3.70 (54) N/A N/A N/A 1.49 (30) Russell 1000 Growth I 3.71 (54) 3.71 (54) 14.45 (44) 16.89 (37) 16.10 (30) 13.39 (38) O Russell 1000 Growth I 3.71 (54) 26.30 (36) 21.94 (37) 13.76 (23) 3.17 (54) 19.15 (40) Median 0.74 3.90 3.90 14.02 16.13 15.11 12.73 Median 3.90 24.38 20.81 11.64 3.53 18.19 **Comparative Performance**

	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018
Rhumbline R1000G	4.63 (60)	16.08 (47)	-15.87 (61)	9.16 (23)	5.76 (42)	1.41 (60)
Russell 1000 Growth Index	4.64 (59)	16.10 (47)	-15.89 (61)	9.17 (23)	5.76 (42)	1.42 (60)
IM U.S. Large Cap Growth Equity (SA+CF) Median	5.11	15.98	-15.25	8.13	5.31	2.03



Peer Group Analysis - IM U.S. Large Cap Growth Equity (SA+CF) 28.00 44.00 24.00 36.00 20.00 28.00 0 0 0 16.00 0 0 0 20.00 0 12.00 Return Return 0 8.00 12.00 4.00 0 0 4.00 0 0 00 0.00 -4.00 -4.00 -12.00 -8.00 -20.00 -12.00 Oct-2018 Oct-2017 Oct-2016 Oct-2015 Oct-2014 Oct-2013 To Τo To To To To QTR **FYTD** 1 YR 2 YR 3 YR 4 YR 5 YR Sep-2019 Sep-2018 Sep-2017 Sep-2016 Sep-2015 Sep-2014 Polen Capital LCG 0.97 (45) N/A N/A N/A N/A N/A N/A Polen Capital LCG N/A N/A N/A N/A Russell 1000 Growth I 1.49 (30) 13.39 (38) Russell 1000 Growth I 3.71 (54) 26.30 (36) 21.94 (37) 13.76 (23) 3.71 (54) 3.71 (54) 14.45 (44) 16.89 (37) 16.10 (30) 3.17 (54) 19.15 (40) Median 0.74 3.90 3.90 14.02 16.13 15.11 12.73 Median 3.90 24.38 20.81 11.64 3.53 18.19 **Comparative Performance**

1 Qtr

Ending

Dec-2018

-15.89 (61)

N/A

-15.25

1 Qtr

Ending

Sep-2018

(23)

N/A

9.17

8.13

1 Qtr

Ending

Jun-2018

(42)

N/A

5.76

5.31

1 Qtr

Ending

Jun-2019

6.15 (24)

(59)

4.64

5.11

1 Qtr

Ending

Mar-2019

16.10 (47)

17.22 (29)

15.98



1 Qtr

Ending

Mar-2018

(60)

N/A

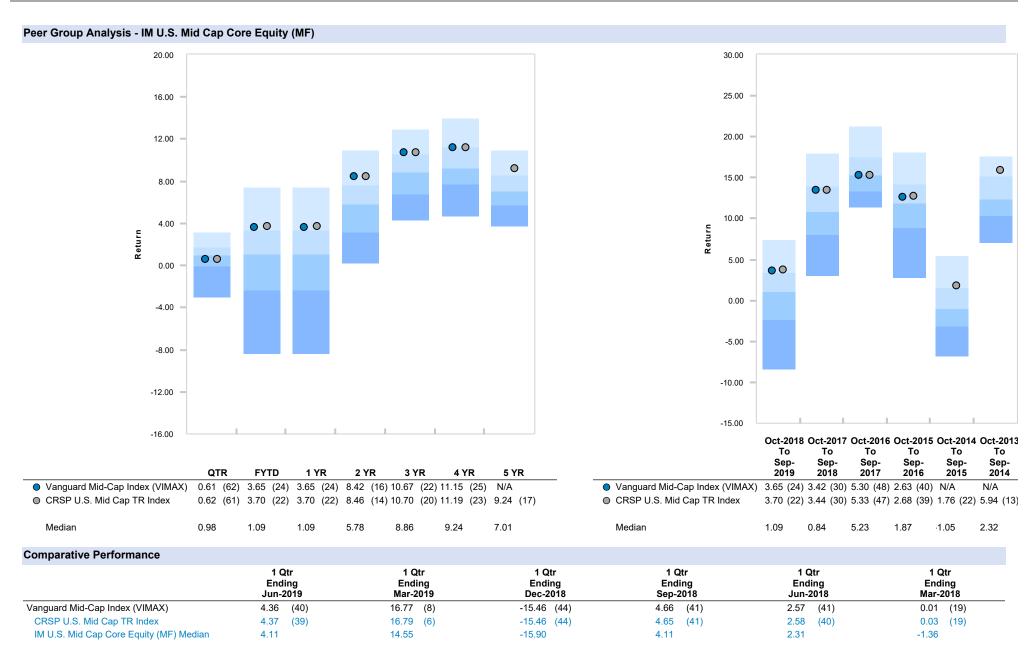
1.42

2.03

Polen Capital LCG

Russell 1000 Growth Index

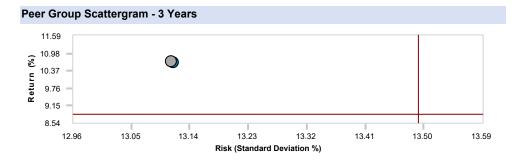
IM U.S. Large Cap Growth Equity (SA+CF) Median





3 Yr Rolling Under/Over Performance - 5 Years Over Performance 18.0 Over Performance 9.0 10.0 Under Performance 15.0 CRSP U.S. Mid Cap TR Index (%)

3 Yr Rolling Percentile Ranking - 5 Years Return Percentile Rank 25.0 50.0 75.0 100.0 6/15 6/16 12/16 6/17 12/17 6/18 12/18 9/19 12/14 12/15 5-25 25-Median Median-75 75-95 **Total Period** Count Count Count Count Vanguard Mid-Cap Index (VIMAX) 6 3 (50%) 3 (50%) 0 (0%) 0 (0%) O CRSP U.S. Mid Cap TR Index 20 15 (75%) 5 (25%) 0 (0%) 0 (0%)



Earliest Date

Under Performance

X Latest Date

10.2	22 49						
(%) u. 8.	76 -	O					
Return 8.	03 -						
7.	30 -						
6.	57	1		-	1		
	12.60	12.65	12.70	12.75	12.80	12.85	12.90

Return	Deviation
10.67	13.12
10.70	13.11
8.86	13.49
	10.67 10.70

	Return	Deviation
 Vanguard Mid-Cap Index (VIMAX 	K) N/A	N/A
CRSP U.S. Mid Cap TR Index	9.24	12.67
Median	7.01	12.87

Historical Statistics - 3 Years								
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Vanguard Mid-Cap Index (VIMAX)	0.02	99.94	100.15	-0.03	-1.50	0.73	1.00	8.92
CRSP U.S. Mid Cap TR Index	0.00	100.00	100.00	0.00	N/A	0.73	1.00	8.91
Historical Statistics - 5 Years								
	T 1 *	Up	Down		1.6	01		B

Peer Group Scattergram - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Vanguard Mid-Cap Index (VIMAX)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CRSP U.S. Mid Cap TR Index	0.00	100.00	100.00	0.00	N/A	0.69	1.00	8.34



Fund Information

Fund Name: Vanguard Index Funds: Vanguard Mid-Cap Index Fund; Admiral Shares

Fund Family: Vanguard Group Inc

Ticker: VIMAX
Inception Date: 11/12/2001
Fund Assets: \$45,117 Million

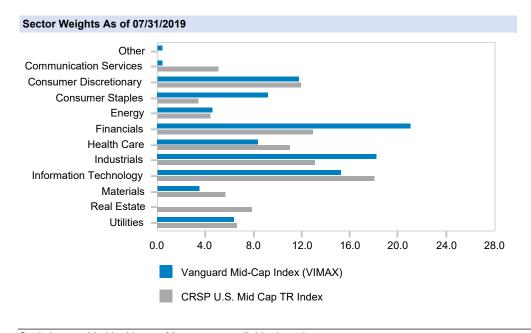
Portfolio Turnover: 16%

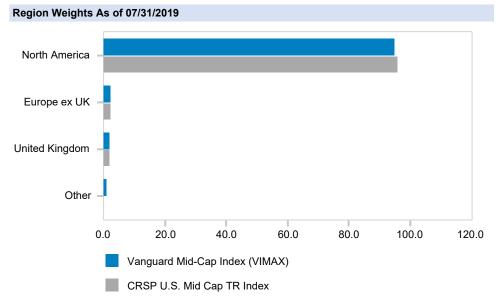
Portfolio Assets:	\$110,878 Millior
Portfolio Manager :	Butler/Johnson
PM Tenure :	20012016

Fund Style: IM U.S. Mid Cap Core Equity (MF)
Style Benchmark: CRSP U.S. Mid Cap TR Index

Portfolio Characteristics As of 07/31/2019			
	Portfolio	Benchmark	
Total Securities	373	354	
Avg. Market Cap (\$)	17,605,287,789	13,109,349,300	
Price/Earnings (P/E)	30.21	21.63	
Price/Book (P/B)	5.58	3.07	
Dividend Yield	2.29	1.61	
Annual EPS	24.12	4.08	
5 Yr EPS	12.97	11.51	
3 Yr EPS Growth	18.04	N/A	
Beta (3 Years, Monthly)	1.00	1.00	

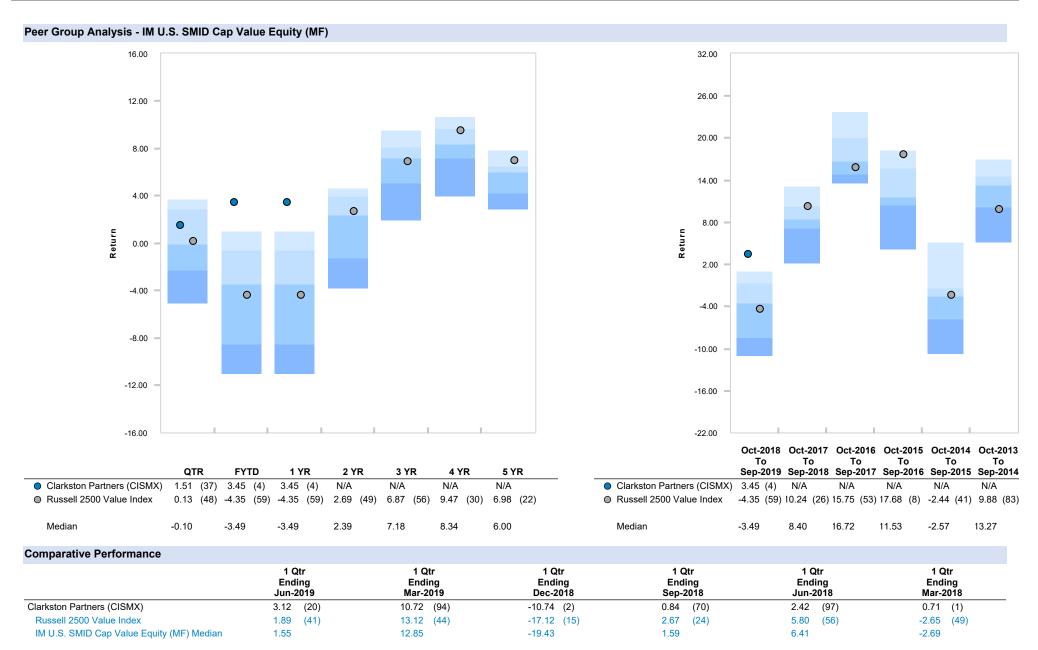
Top Ten Securities As of 07/31/2019		
Twitter Inc ORD	0.7 %	
Newmont Goldcorp Corp ORD	0.7 %	
Fiserv Inc ORD	0.7 %	
Advanced Micro Devices Inc ORD	0.7 %	
Xilinx Inc ORD	0.7 %	
ONEOK Inc ORD	0.7 %	
Amphenol Corp ORD	0.7 %	
SBA Communications Corp ORD	0.6 %	
Motorola Solutions Inc ORD	0.6 %	
WEC Energy Group Inc ORD	0.6 %	



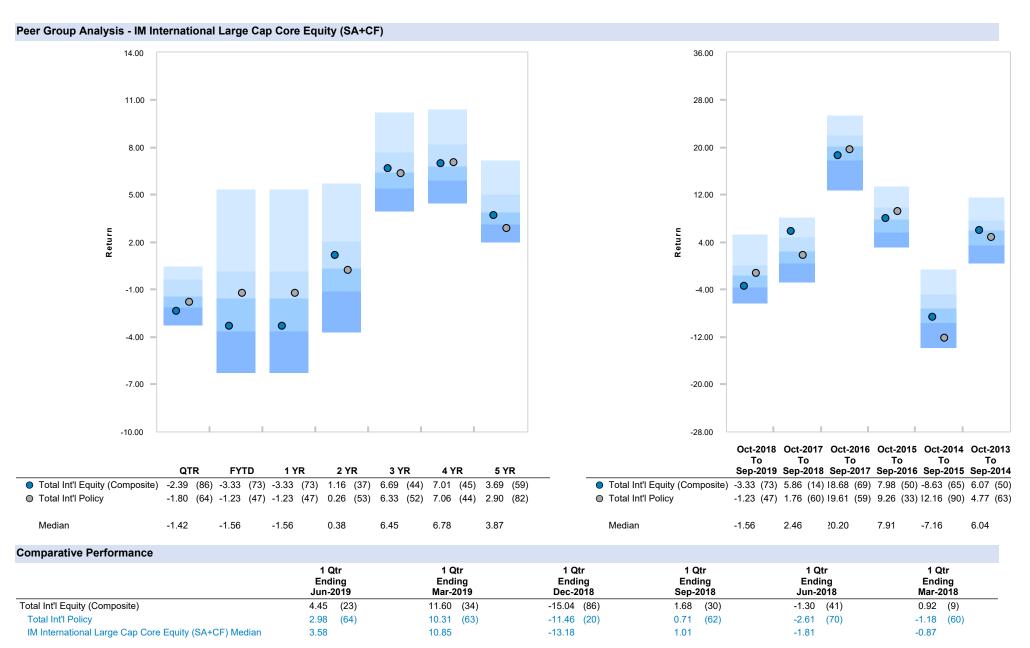


Statistics provided by Lipper. Most recent available data shown.



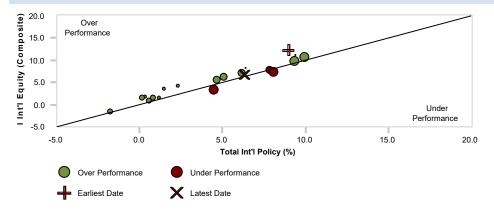




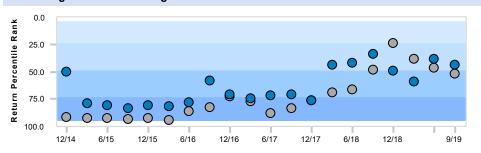




3 Yr Rolling Under/Over Performance - 5 Years

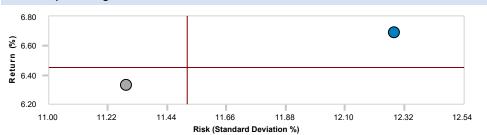


3 Yr Rolling Percentile Ranking - 5 Years



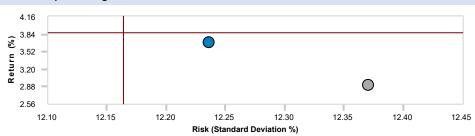
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
 Total Int'l Equity (Composite) 	20	0 (0%)	7 (35%)	6 (30%)	7 (35%)	
 Total Int'l Policy 	20	1 (5%)	3 (15%)	4 (20%)	12 (60%)	

Peer Group Scattergram - 3 Years



	Return	Standard Deviation
Total Int'l Equity (Composite)	6.69	12.29
Total Int'l Policy	6.33	11.29
Median	6.45	11.52

Peer Group Scattergram - 5 Years



	Return	Standard Deviation
Total Int'l Equity (Composite)	3.69	12.24
 Total Int'l Policy 	2.90	12.37
Median	3.87	12.16

Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity (Composite)	3.21	102.77	100.64	0.11	0.14	0.47	1.05	8.42
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.47	1.00	7.58

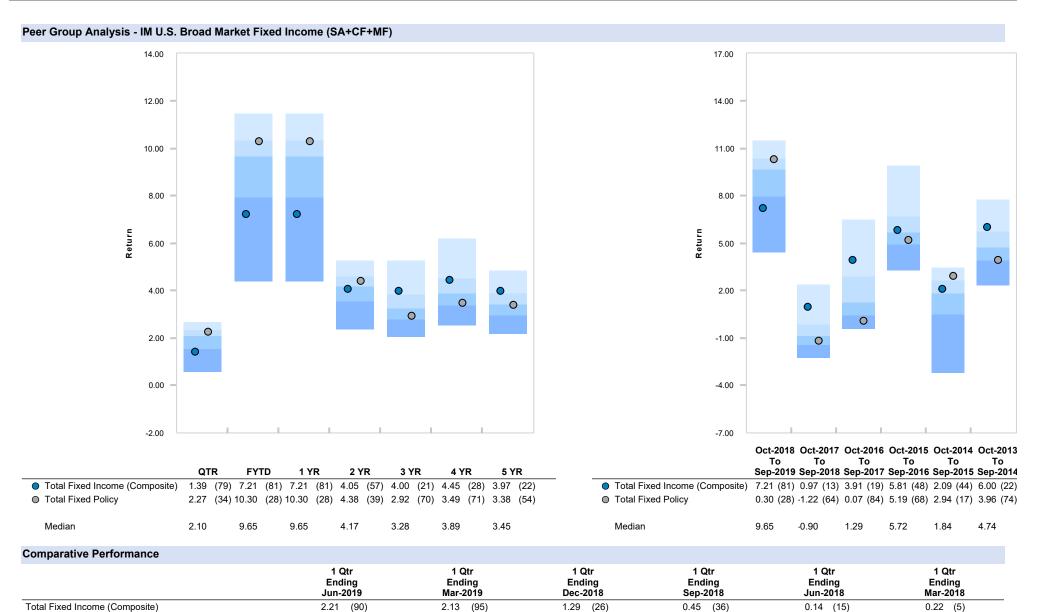
Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Int'l Equity (Composite)	3.73	95.85	90.03	0.96	0.20	0.28	0.94	8.35
Total Int'l Policy	0.00	100.00	100.00	0.00	N/A	0.22	1.00	8.24



Peer Group Analysis - IM International Equity (MF) 16.00 40.00 30.00 12.00 20.00 8.00 0 10.00 0 4.00 0 0 Return 0 Return 0.00 0 0.00 0 0 00 -10.00 0 -4.00 -20.00 -8.00 -30.00 -12.00 -40.00 Oct-Oct-Oct-Oct-Oct-Oct--16.00 2018 2017 2016 2015 2014 2013 Τo To Τo To To To Sep-Sep-Sep-Sep-Sep-Sep-QTR FYTD 1 YR 2 YR 3 YR 4 YR 5 YR 2019 2018 2017 2016 2015 2014 Harding Loevner Intl Equity (HLMIX) -2.40 (61) -3.34 (62) -3.34 (62) 1.15 (26) 6.68 (29) N/A N/A Harding Loevner Intl Equity (HLMIX) 3.34 (62) 5.85 (10) 8.65 (58) N/A N/A MSCI AC World ex USA (Net) -1.80 (47) -1.23 (44) -1.23 (44) 0.26 (35) 6.33 (34) 7.06 (39) 2.90 (48) MSCI AC World ex USA (Net) 1.23 (44) 1.76 (34) 9.61 (48) 9.26 (51) 2.16 (64) 4.77 (43) Median -1.90 -1.94-1.94 -1.10 5.44 6.35 2.81 Median 1.94 0.08 9.36 9.32 8.75 4.26 **Comparative Performance** 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr Ending **Ending Ending** Ending **Ending** Ending Jun-2019 Mar-2019 Dec-2018 Sep-2018 Jun-2018 Mar-2018 Harding Loevner Intl Equity (HLMIX) 4.45 (18) 11.60 (35) -15.04 (81) 1.67 (13) -1.30 (22) 0.92 (36) MSCI AC World ex USA (Net) 2.98 (43)10.31 (54)-11.46 (44) 0.71 (31)-2.61 (41) -1.18 (76) IM International Equity (MF) Median 10.54 -12.22 -0.07 2.58 -0.27-3.33





3.08

3.04

(46)

2.94

3.42

(78)

1.64 (9)

0.72

0.02 (79)

0.26

-0.16 (39)

-0.24



-1.46 (65)

-1.33

Total Fixed Policy

IM U.S. Broad Market Fixed Income (SA+CF+MF) Median

3 Yr Rolling Percentile Ranking - 5 Years Return Percentile Rank 25.0 0000 50.0 75.0 0 100.0 6/15 12/15 6/16 12/18 9/19 12/16 6/17 12/17 6/18 12/14

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
 Total Fixed Income (Composite) 	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)
 Total Fixed Policy 	20	0 (0%)	2 (10%)	12 (60%)	6 (30%)

Peer Group Scattergram - 3 Years 4.32 3.96 3.60 3.24 \bigcirc 2.88 2.52 1.40 1.96 2.24 2.52 2.80 3.08 3.64 1.68 3.36 Risk (Standard Deviation %)

		•	U						
	4.20								
(%)	3.90 -								
Return	3.60								
S.	3.30 -)
	3.00								
	1.90)	2.09	2.2	8 2.4	47 2.6	66 2.	.85 3.04	3.23
					Risk (Sta	andard Deviation	n %)		

	Return	Standard Deviation
 Total Fixed Income (Composite) 	4.00	1.83
 Total Fixed Policy 	2.92	3.30
Median	3.28	3.12

	Return	Deviation		
Total Fixed Income (Composite)	3.97	2.06		
 Total Fixed Policy 	3.38	3.05		
Median	3.45	2.96		
Total Fixed Policy	3.38	3.05		

Historical Statistics - 3 Years								
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fixed Income (Composite)	2.09	71.61	9.49	2.64	0.48	1.36	0.45	0.90
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	0.44	1.00	1.88
Historical Statistics - 5 Years								
	Tracking	Up Market	Down Market	Alpha	Information	Sharpe	Beta	Downside

Peer Group Scattergram - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Total Fixed Income (Composite)	1.92	74.57	17.85	2.15	0.29	1.46	0.53	0.91
Total Fixed Policy	0.00	100.00	100.00	0.00	N/A	0.81	1.00	1.61



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Peer Group Analysis - IM U.S. Broad Market Core Fixed Income (SA+CF) 14.00 17.00 12.00 14.00 0 0 10.00 11.00 8.00 8.00 Return Return 6.00 0 5.00 0 0 4.00 2.00 00 2.00 0 -1.00 0.00 -4.00 -2.00 Oct-2018 Oct-2017 Oct-2016 Oct-2015 Oct-2014 Oct-2013 To To То Τo То To Sep-Sep-Sep-Sep-Sep-Sep-QTR **FYTD** 1 YR 2 YR 3 YR 4 YR 5 YR 2019 2018 2017 2016 2015 2014 Garcia Hamilton Fixed Income 2.40 (36) 8.75 (96) 8.75 (96) N/A N/A N/A N/A Garcia Hamilton Fixed Income 8.75 (96) N/A N/A N/A N/A N/A Blmbg. Barc. U.S. Aggregate Index 2.27 (73) 10.30 (70) 10.30 (70) 4.38 (85) 2.92 (92) Blmbg, Barc, U.S. Aggregate Index 0.30 (70) 1.22 (89) 0.07 (87) 5.19 (81) 2.94 (61) 3.96 (81) 3.49 (90) 3.38 (91) Median 2.34 10.48 10.48 4.71 3.38 3.97 3.76 Median 0.48 -0.730.63 5.67 3.02 4.51 **Comparative Performance** 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr **Ending Ending** Ending **Ending** Ending **Ending** Jun-2019 Mar-2019 Dec-2018 Sep-2018 Jun-2018 Mar-2018 Garcia Hamilton Fixed Income 2.32 (98) 2.49 (96) 1.27 (64) -0.20 (95) 0.47 (4) -0.53 (6) Blmbg. Barc. U.S. Aggregate Index 2.94 (83)1.64 (23)0.02 (84)-0.16 (73) -1.46 (67) 3.08 (71) IM U.S. Broad Market Core Fixed Income (SA+CF) Median 0.18 -1.37 3.14 3.22 1.39 -0.09

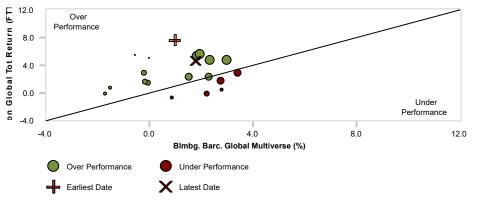


Peer Group Analysis - IM Global Fixed Income (MF) 17.00 20.00 16.00 14.00 12.00 11.00 0 8.00 0 8.00 0 0 4.00 Return Return 0 5.00 0.00 0 00 0 0 2.00 -4.00 0 0 -8.00 -1.00 -12.00 -4.00 -16.00 Oct-Oct-Oct-Oct-Oct-Oct--7.00 2018 2017 2016 2015 2014 2013 To To To To To To Sep-Sep-Sep-Sep-Sep-Sep-QTR FYTD 1 YR 2 YR 3 YR 4 YR 5 YR 2019 2018 2017 2016 2015 2014 ● Templeton Global Tot Return (FTTRX) -3.09 (100) 2.49 (99) 2.49 (99) 0.27 (94) 4.60 (6) 4.10 (32) 1.51 (75) Templeton Global Tot Return (FTTRX) 2.49 (99) 1.90 (66) 3.82 (1) 2.64 (94) 8.23 (95) 5.71 (22) Blmbg. Barc. Global Multiverse 0.63 (58) 7.54 (51) 7.54 (51) 3.02 (52) 1.81 (65) 3.61 (54) 2.14 (51) Blmbg. Barc. Global Multiverse 7.54 (51) 1.32 (51) 0.56 (77) 9.23 (25) 3.56 (42) 1.40 (79) Median 1.01 7.65 7.65 3.05 2.29 3.64 2.16 Median 7.65 1.29 1.02 7.42 3.85 3.37 **Comparative Performance** 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr **Ending** Ending **Ending Ending Ending Ending** Jun-2019 Mar-2019 Dec-2018 Sep-2018 Jun-2018 Mar-2018 Templeton Global Tot Return (FTTRX) 1.46 (98) 1.94 (87) 2.25 (2) 1.39 (5) -3.13 (55) 1.64 (27) Blmbg. Barc. Global Multiverse 3.31 (55)2.39 (76)1.02 (23)-0.80 (66)-2.83 (53) 1.30 (34) IM Global Fixed Income (MF) Median 0.35 -0.39 -2.29 0.80 3.37 3.10

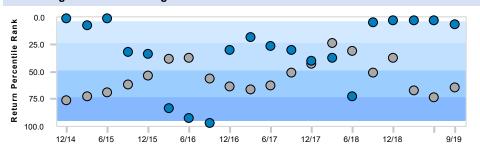


Standard

3 Yr Rolling Under/Over Performance - 5 Years

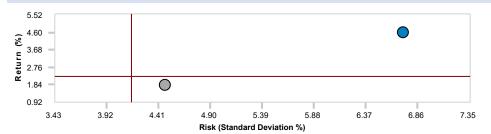


3 Yr Rolling Percentile Ranking - 5 Years

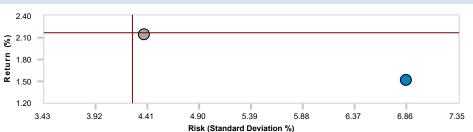


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
 Templeton Global Tot Return (FTTRX) 	20	9 (45%)	7 (35%)	1 (5%)	3 (15%)	
 Blmbg. Barc. Global Multiverse 	20	1 (5%)	5 (25%)	13 (65%)	1 (5%)	

Peer Group Scattergram - 3 Years



Peer C	Proup	Scattergran	n - 5	Years



	Return	Standard Deviation
 Templeton Global Tot Return (FTTRX) 	4.60	6.73
 Blmbg. Barc. Global Multiverse 	1.81	4.48
Median	2.29	4.16

	Return	Standard Deviation
 Templeton Global Tot Return (FTTRX) 	1.51	6.86
 Blmbg. Barc. Global Multiverse 	2.14	4.38
Median	2.16	4.27

Historical Statistics - 3 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Templeton Global Tot Return (FTTRX)	9.08	0.15	-90.57	5.67	0.31	0.47	-0.42	4.42
Blmbg. Barc. Global Multiverse	0.00	100.00	100.00	0.00	N/A	0.08	1.00	3.16

Historical Statistics - 5 Years

	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk
Templeton Global Tot Return (FTTRX)	8.55	-12.72	-54.31	2.15	-0.06	0.11	-0.18	4.66
Blmbg. Barc. Global Multiverse	0.00	100.00	100.00	0.00	N/A	0.29	1.00	2.83



Peer Group Analysis - IM U.S. Open End Private Real Estate (SA+CF) 20.00 26.00 23.00 17.00 20.00 14.00 17.00 11.00 00 0 14.00 Return Return 00 00 8.00 00 00 0 0 11.00 0 0 0 5.00 00 8.00 00 0 2.00 0 0 5.00 -1.00 2.00 -1.00 -4.00 Oct-2018 Oct-2017 Oct-2016 Oct-2015 Oct-2014 Oct-2013 To To To To To QTR **FYTD** 1 YR 2 YR 3 YR 4 YR 5 YR Sep-2019 Sep-2018 Sep-2017 Sep-2016 Sep-2015 Sep-2014 American Core Realty 1.44 (81) 6.81 (60) 6.81 (60) 7.65 (75) 7.61 (78) 7.96 (85) 9.14 (84) American Core Realty 8.50 (66) 7.53 (66) 9.04 (97) 13.98 (69) 12.49 (64) NCREIF ODCE 1.38 (86) 6.16 (87) 6.16 (87) 7.48 (78) 7.59 (80) 8.34 (72) 9.59 (73) NCREIF ODCE 6.16 (87) 8.82 (59) 7.81 (60) 10.62 (69) 14.71 (62) 12.39 (68) Median 1.80 7.05 7.05 8.35 8.43 9.15 9.97 Median 7.05 9.04 8.29 11.32 15.45 12.78 **Comparative Performance** 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr 1 Qtr **Ending Ending** Ending **Ending** Ending Ending Jun-2019 Mar-2019 Dec-2018 Sep-2018 Jun-2018 Mar-2018 American Core Realty 1.53 (31) 1.74 (76) 1.94 (27) 2.19 (47) 2.09 (66) 2.23 (45) NCREIF ODCE 1.34 1.69 (81) 1.62 (62)2.09 (54)2.13 (61) 2.17 (55) (66)IM U.S. Open End Private Real Estate (SA+CF) Median 1.46 1.99 2.22 2.21 1.76 2.10



9/19

3 Yr Rolling Under/Over Performance - 5 Years 15.0 Over Performance 12.0 Over Performance 12.0 NCREIF ODCE (%)

X Latest Date

3 Yr Rolling Percentile Ranking - 5 Years 25.0 50.0 75.0

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
 American Core Realty 	20	0 (0%)	0 (0%)	6 (30%)	14 (70%)	
NCREIF ODCE	20	0 (0%)	1 (5%)	17 (85%)	2 (10%)	

6/17

12/17

12/16

6/18

12/18

Peer Group Scattergram - 3 Years 8.68 8.40 7.84 7.56 7.28 0.40 0.60 0.80 1.00 1.20 1.40 Risk (Standard Deviation %)

Earliest Date

Under Performance

Pee	er Group S	cattergram	- 5 Years						
Return (%)	10.36 10.08 9.80 9.52 9.24 8.96	1.44	1.52	1.60	1.68	1.76	1.84	1.92	2.00
				risk (Sta	iluaru Deviatio	UII 70)			

	Return	Standard Deviation
 American Core Realty 	7.61	0.64
NCREIF ODCE	7.59	0.58
Median	8.43	1.12

	Return	Deviation
American Core Realty	9.14	1.64
NCREIF ODCE	9.59	1.48
Median	9.97	1.87

Historical Statistics - 3 Years									
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk	
American Core Realty	0.72	100.22	N/A	0.17	0.02	1.91	0.98	0.00	
NCREIF ODCE	0.00	100.00	N/A	0.00	N/A	1.91	1.00	0.00	

100.0

12/14

6/15

12/15

6/16

Historical Statistics - 5 Years									
	Tracking Error	Up Market Capture	Down Market Capture	Alpha	Information Ratio	Sharpe Ratio	Beta	Downside Risk	
American Core Realty	1.04	95.55	N/A	0.09	-0.40	1.98	0.95	0.00	
NCREIF ODCE	0.00	100.00	N/A	0.00	N/A	2.03	1.00	0.00	



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Peer Group Analysis - IM Flexible Portfolio (MF) 14.00 25.00 20.00 11.00 15.00 8.00 0 0 0 0 10.00 0 5.00 0 0 5.00 Return 2.00 Return 00 0.00 0 -1.00 -5.00 -10.00 -4.00 -15.00 -7.00 -20.00 -10.00 -25.00 Oct-Oct-Oct-Oct-Oct-Oct--13.00 2018 2013 2017 2016 2015 2014 To To To То То То Sep-Sep-Sep-Sep-Sep-Sep-QTR **FYTD** 1 YR 2 YR 3 YR 4 YR 5 YR 2019 2018 2017 2016 2015 2014 Blackrock Multi-Asset Income (BKMIX) 1.28 (34) N/A N/A N/A N/A N/A N/A Blackrock Multi-Asset Income (BKMIX) N/A N/A N/A N/A N/A N/A ● 50% MSCI World Ind/50% Bar US Agg 1.43 (31) 6.40 (18) 6.40 (18) 5.66 (11) 6.70 (19) 7.14 (25) 5.46 (19) 50% MSCI World Ind/50% Bar US Agg 6.40 (18) 4.93 (36) 8.80 (53) 8.47 (51) 0.98 (19) 8.10 (49) Median 0.72 2.58 2.58 3.14 5.02 5.98 3.91 Median 2.58 3.38 9.02 8.55 4.22 7.99

Comparative Performance						
	1 Qtr Ending Jun-2019	1 Qtr Ending Mar-2019	1 Qtr Ending Dec-2018	1 Qtr Ending Sep-2018	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018
Blackrock Multi-Asset Income (BKMIX)	2.77 (41)	N/A	N/A	N/A	N/A	N/A
50% MSCI World Ind(Net TR)/50% Bar US Agg Ind	3.67 (11)	7.67 (53)	-6.03 (31)	2.48 (35)	0.79 (39)	-1.30 (62)
IM Flexible Portfolio (MF) Median	2.53	7.78	-7.63	1.74	0.27	-1.06



	Market Value	Uncalled Capital Commitment	QTD IRR	Incention IDD	Inception Date	Evacated Tarmination
	Market value	Commitment	אאועוט	Inception IRR	inception bate	Expected Termination
*Angelo Gordon Net Lease Realty Fund III, L.P.	\$1,860,168.00	\$75,889	0	6.71	3/10/2014	4/1/2027
*Crescent Direct Lending Levered Fund	\$2,679,056.00	\$603,340	0	7.57	10/9/2014	12/1/2022
*Dune Real Estate Fund III	\$1,799,518	\$122,249	0.88	13.11	11/6/2014	12/1/2024
*Molpus Woodlands Timber	\$1,196,061.00	\$0	0	2.19	6/24/2008	5/2018-5/2022

^{*} Market Value as of 12-31-2019

Market Value includes contributions & distributions since end of period.



Allocation Mandate Weight (%)		Allocation Mandate	Weight (%)	
n-1978		Oct-2013		
&P 500 Index	65.00	Wilshire 5000 Total Market Index (full-cap) Index	35.00	
Imbg. Barc. U.S. Gov't/Credit	30.00	MSCI AC World ex USA (Net)	15.00	
TSE 3 Month T-Bill	5.00	Blmbg. Barc. U.S. Aggregate Index	27.50	
		NCREIF ODCE	5.00	
or-2007		Quadrant Custom Policy	5.00	
Imbg. Barc. U.S. Gov't/Credit	30.00	NCREIF Timberland Index	5.00	
lmbg. Barc. U.S. TIPS 1-10 Year	5.00	CPI+5%	7.50	
&P 500 Index	60.00			
ISCI EAFE (Net) Index	5.00	May-2014		
		Wilshire 5000 Total Market Index (full-cap) Index	35.00	
ct-2007		MSCI AC World ex USA (Net)	15.00	
SCI EAFE (Net) Index	10.00	Blmbg. Barc. U.S. Aggregate Index	27.50	
loomberg Barclays Intermed Aggregate Index	30.00	NCREIF ODCE	10.00	
lmbg. Barc. U.S. TIPS 1-10 Year	5.00	NCREIF Timberland Index	5.00	
ussell 3000 Index	50.00	CPI+5%	7.50	
CREIF Property Index	5.00			
n-2010		Jul-2015		
	45.00	Wilshire 5000 Total Market Index (full-cap) Index	35.00	
ISCI AC World ex USA (Net)	15.00	MSCI AC World ex USA (Net)	15.00	
Imbg. Barc. U.S. Aggregate Index	30.00	Blmbg. Barc. U.S. Aggregate Index	27.50	
loomberg Barclays U.S. TIPS Index	5.00	NCREIF ODCE	10.00	
ussell 3000 Index	45.00	NCREIF Timberland Index	5.00	
CREIF Property Index	5.00	Alternatives Policy	7.50	
ıl-2010		Nov-2015		
/ilshire 5000 Total Market Index (full-cap) Index	35.00	Wilshire 5000 Total Market Index (full-cap) Index	42.50	
ISCI AC World ex USA (Net)	15.00	MSCI AC World ex USA (Net)	15.00	
Imbg. Barc. U.S. Aggregate Index	25.00	Blmbg. Barc. U.S. Aggregate Index	27.50	
loomberg Barclays U.S. TIPS Index	5.00	NCREIF ODCE	10.00	
CREIF ODCE	5.00	Alternatives Policy	5.00	
arclay BTOP 50	5.00	Automatives I olley	3.00	
uadrant Custom Policy	5.00			
CREIF Timberland Index	5.00			



As of September 30, 2019

Total Equity Policy	
Allocation Mandate	Weight (%)
Oct-2005	
S&P 500 Index	95.00
FTSE 3 Month T-Bill	5.00
Apr-2007	
FTSE 3 Month T-Bill	5.00
S&P 500 Index	85.00
MSCI EAFE (Net) Index	10.00
Oct-2007	
MSCI EAFE (Net) Index	15.00
Russell 3000 Index	85.00
Jan-2010	
MSCI AC World ex USA (Net)	25.00
Russell 3000 Index	75.00
Jul-2010	
MSCI AC World ex USA (Net)	45.00
Wilshire 5000 Total Market Index (full-cap) Index	55.00
Nov-2015	
MSCI AC World ex USA (Net)	25.00
Wilshire 5000 Total Market Index (full-cap) Index	75.00

Domestic Equity Policy					
Allocation Mandate	Weight (%)				
Oct-2005 S&P 500 Index	100.00				
Oct-2007 Russell 3000 Index	100.00				
Jul-2010 Wilshire 5000 Total Market Index (full-cap) Index	100.00				

Total Int'l Policy	
Allocation Mandate	Weight (%)
Jan-1970	
MSCI EAFE (Net) Index	100.00
Jan-2010	
MSCI AC World ex USA (Net)	100.00
Alfannatives Deliev	
Alternatives Policy Allocation Mandate	Woight (%)
Aug-2010	Weight (%)
Barclay BTOP 50	100.00
24.5.4, 2.0.00	
Nov-2013	
CPI+5%	100.00
Jul-2015	
S&P 500 Index	50.00
Blmbg. Barc. U.S. Aggregate Index	50.00
Total Fixed Policy	
Allocation Mandate	Weight (%)
Oct-2005	3 ()
Blmbg. Barc. U.S. Gov't/Credit	95.00
FTSE 3 Month T-Bill	5.00
Jan-2007	
Blmbg. Barc. U.S. Gov't/Credit	85.00
Blmbg. Barc. U.S. TIPS 1-10 Year	15.00
0.4.000	
Oct-2007 Blmbg. Barc. U.S. TIPS 1-10 Year	15.00
Bloomberg Barclays Intermed Aggregate Index	85.00
Zicomizoig Zarolajo misimoa riggi ogalo maex	00.00
Jan-2010	
Bloomberg Barclays U.S. TIPS Index	15.00
Blmbg. Barc. U.S. Aggregate Index	85.00
Oct-2013	
OCI-2010	



	Market Value (\$)	Estimated Annual Fee (\$)	Estimated Annual Fee (%)	Fee Schedule
Vanguard Total Stock Mkt (VTSAX)	122,233	49	0.04	0.04 % of Assets
Rhumbline R1000V	3,611,780	1,445	0.04	0.04 % of Assets
Boston LCV	11,819,262	65,006	0.55	0.55 % of First \$25 M 0.45 % of Next \$25 M 0.35 % of Next \$50 M 0.25 % Thereafter
Rhumbline R1000G	4,030,132	1,612	0.04	0.04 % of Assets
Polen Capital LCG	11,808,249	70,849	0.60	0.60 % of Assets
/anguard Mid-Cap Index (VIMAX)	2,938,078	2,350	0.08	0.08 % of Assets
Clarkston Partners (CISMX)	9,867,232	98,672	1.00	1.00 % of Assets
Harding Loevner Intl Equity (HLMIX)	14,586,533	122,527	0.84	0.84 % of Assets
Sarcia Hamilton Fixed Income	20,539,533	51,349	0.25	0.25 % of Assets
Templeton Global Total Return (FTTRX)	3,565,215	23,887	0.67	0.67 % of Assets
American Core Realty	4,641,437	51,056	1.10	1.10 % of Assets
Blackrock Multi-Asset Income (BKMIX)	2,802,783	16,536	0.59	0.59 % of Assets
Total Fund (Composite)	98,710,739	505,339	0.51	



Act	ive l	Ret	turn
-----	-------	-----	------

- 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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