

Investment Performance Review
Period Ending September 30, 2018

Clayton County Georgia ERS

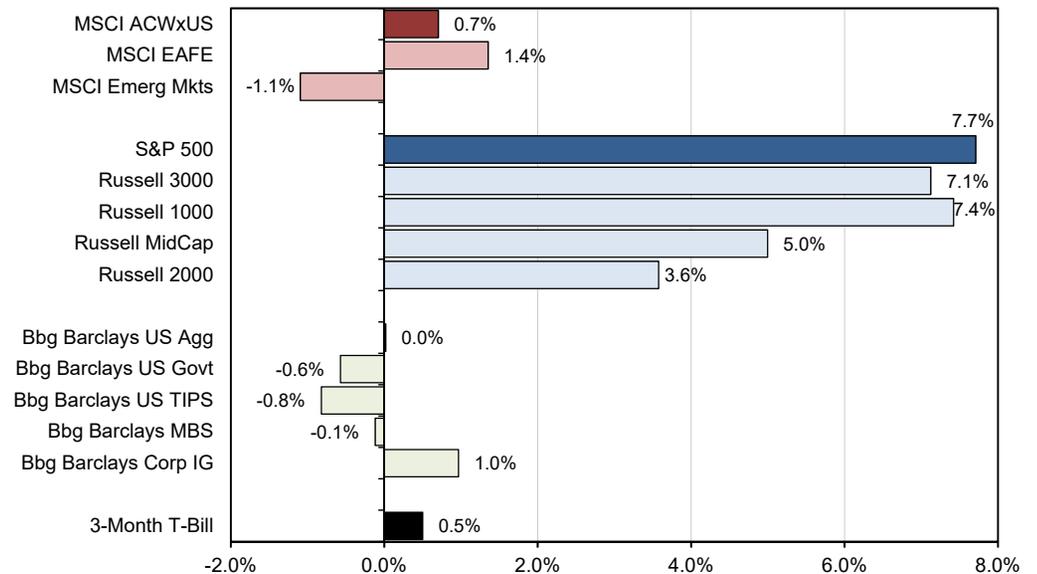


3rd Quarter 2018 Market Environment

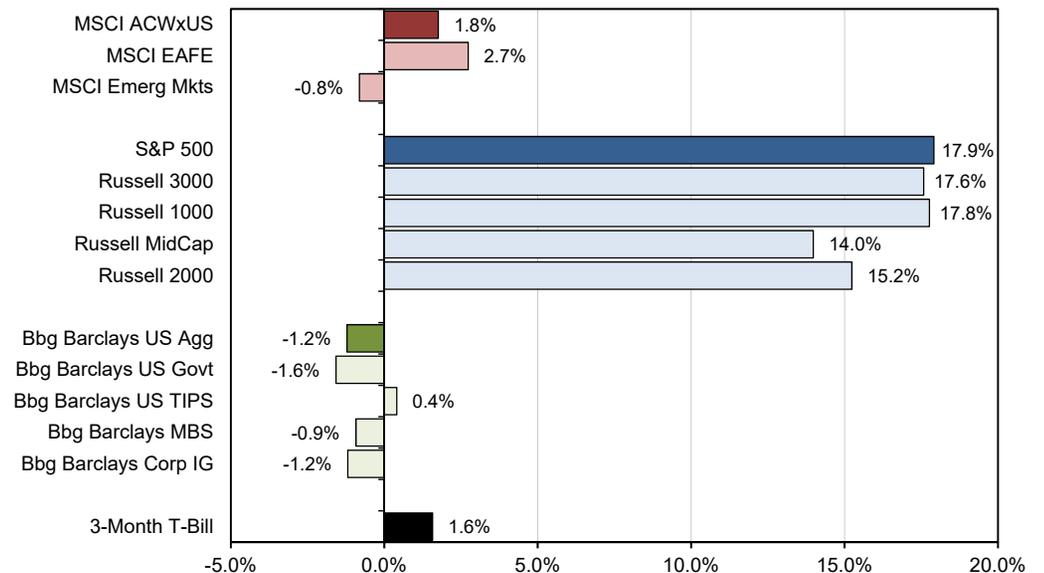


- Market returns were mixed across major equity and fixed income indices for the 3rd quarter of 2018 with many themes from the 2nd quarter repeating during the current period. Broad domestic equity indices pushed higher on continued strength in both economic and corporate earnings data. Corporate earnings continue to benefit from fiscal stimulus tailwinds in the form of the late 2017 tax reform. International indices underperformed domestic indices during the period, posting more muted returns in US dollar (USD) terms, as investors weighed relatively soft economic data, a strengthening USD and geopolitical concerns, especially around global trade relations. Fixed income returns were flat for the quarter as interest rates continued to rise. Domestic stocks rose as concerns around ongoing monetary policy tightening by the Federal Reserve (Fed) and an escalating trade war between the US and China were not substantial enough to dampen investor enthusiasm around the ongoing strength of the US economy. The US stock market represented by the Russell 3000 Index returned 7.1% and 17.6% for the quarter and 1-year period respectively.
- International equity returns finished the quarter slightly positive with the MSCI ACWI ex US Index returning 0.7%. Developed market stocks pushed higher through the period, however, relatively subdued economic growth and ongoing political and trade uncertainty tempered returns versus domestic equities. The developed market MSCI EAFE Index gained 1.4% during the quarter. Emerging market stocks struggled in comparison, posting negative returns for the period, as trade tensions grew between the US and China. In addition, a strengthening USD caused headwinds for most international markets, but caused particular difficulties for emerging market countries that issue debt in USD. The MSCI Emerging Markets Index posted a small decline of -1.1% during the 3rd quarter. The relative outperformance of developed markets can also be seen in the 1-year period with the MSCI EAFE and MSCI Emerging Markets indices returning 2.7% and -0.8% respectively.
- Interest rates on the US Treasury Yield Curve continued their year-to-date rise during the 3rd quarter as investor expectations for further Fed tightening of monetary policy increased during the period. The yield curve did flatten slightly as interest rates had the greatest increase in short-term maturities, but overall, the shift in rates was fairly consistent throughout the entire curve. The Fed did implement another interest rate increase following their September meeting citing the continued strength of the US economy and stable inflation. The broad market Bloomberg Barclays US Aggregate Index was flat for the quarter returning 0.0% and is slightly negative over the 1-year period returning -1.2%. Corporate issues rebounded following underperformance during the first half of the year and were the only investment grade sector to post a positive return during the quarter, as they benefitted from tightening credit spreads and strong investor demand.

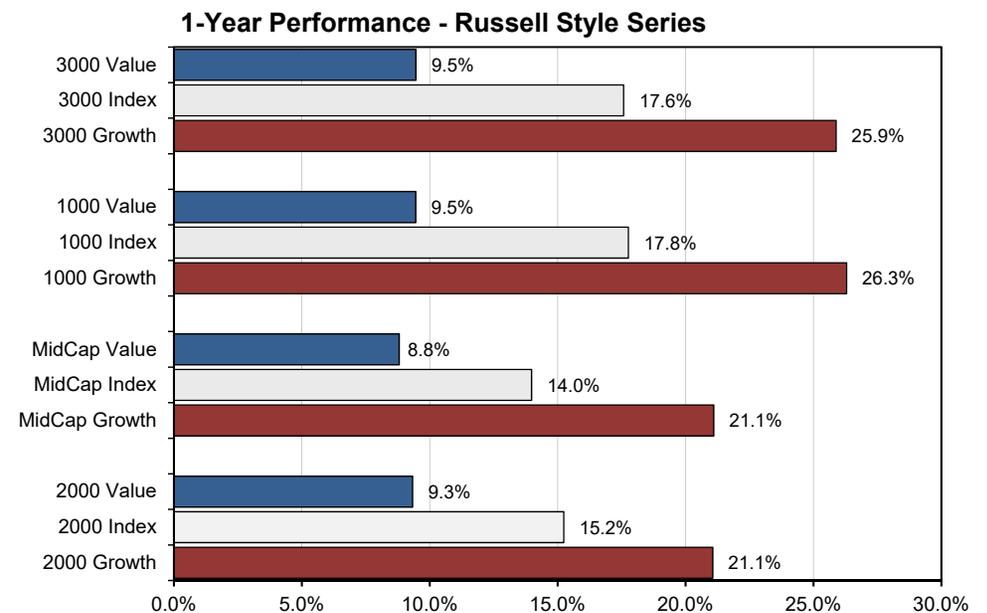
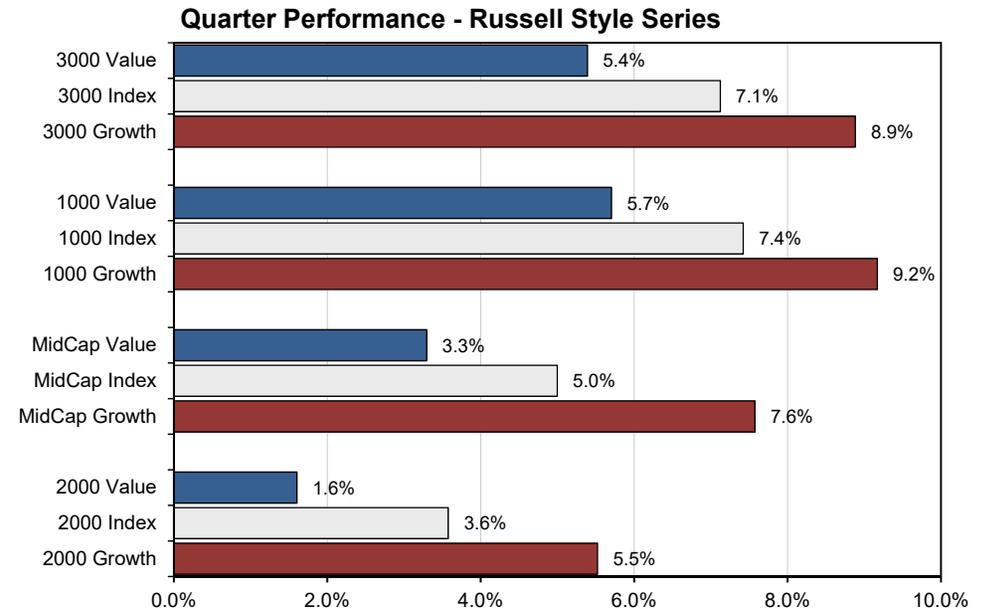
Quarter Performance



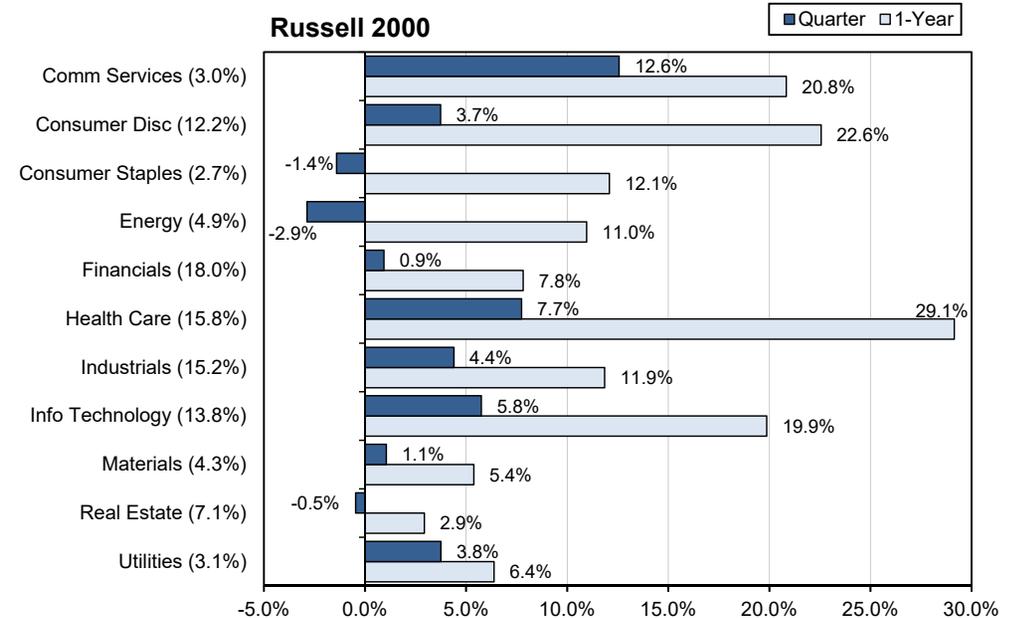
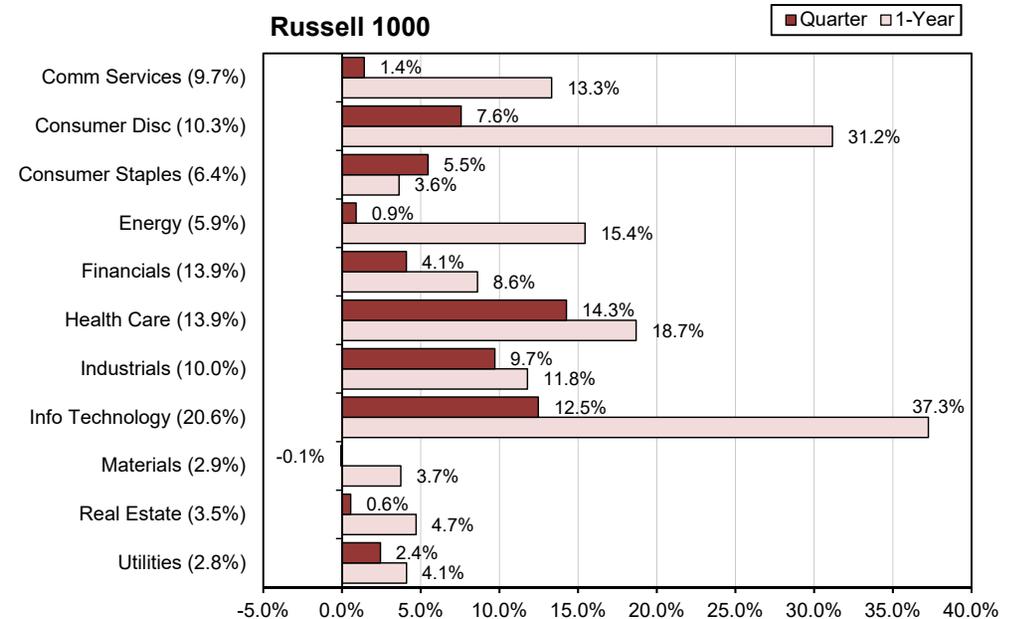
1-Year Performance



- US equity index returns were positive across the style and capitalization spectrum during the 3rd quarter of 2018. US equity markets were pushed higher by the ongoing strength in US economic data and corporate earnings. Positive data releases in GDP, unemployment, retail sales, consumer consumption and investor sentiment highlighted the continued health of the US economy. Corporate earnings released during the quarter were also impressive. Earnings reported for S&P 500 companies were up over 20% on a year-over-year basis for the second straight quarter as corporate profits continued to benefit from the new tax code. The current expansion in US equity markets now marks the longest bull market in history. While the positive economic data drove returns through the quarter, trade negotiations with China broke down with both the US and China instituting several rounds of new tariffs during the period. Currently the US is imposing tariffs on \$250 billion of Chinese imports with China placing tariffs on \$110 billion worth of goods. Further action has been threatened by both countries. While negotiations with China have been unsuccessful, progress was made in the renegotiation of the North American Free Trade Agreement (NAFTA) and discussions with the European Union (EU) appear to be moving ahead productively.
- During the quarter, large cap stocks outperformed mid and small cap equities across growth, value and core indices. The large cap Russell 1000 Index returned 7.4% for the quarter versus a 3.6% return for the Russell 2000 Index. The Russell 1000 benefitted from strong performance from some of its largest exposures. Apple Inc, Microsoft Corp and Amazon.com Inc alone make up over 10% of the index and posted quarterly returns of 22.4%, 16.4% and 17.8% respectively. Those same three stocks have gained 48.7%, 56.3% and 108.4% over the 1-year period. This strong performance from some of the index's largest constituents has helped large caps outperform small caps over the 1-year period as well with the Russell 1000 returning 17.8% over the trailing year while the Russell 2000 posted a still solid return of 15.2%.
- Growth stocks outperformed value stocks across the market cap spectrum during the 3rd quarter. The large cap Russell 1000 Growth Index was the best performing style index for the period returning a notable 9.2% for the quarter. The outperformance of growth indices relative to value indices is also evident over the 1-year period as growth indices continue to show significant outperformance relative to their value counterparts. The returns for growth indices more than double the returns of the corresponding value indices over the last 12 months. Growth benchmarks benefitted from larger exposures to more cyclical names within the information technology, consumer discretionary, health care and industrials sectors. They also benefitted from underweights to more defensive sectors such as REITs and utilities.



- Both S&P Dow Jones Indices and MSCI made changes to the Global Industry Classification Standard (GICS) sector configurations of their indices, creating a new GICS sector classification called Communication Services which replaced the Telecommunications sector on September 28, 2018. The Communication Services sector is comprised of companies in the Telecommunications sector, as well as certain companies formerly classified as Consumer Discretionary and Information Technology. As a result, the sector, went from a weighting of about 2% of the Russell 1000 Index to almost 10% post reclassification. Notable names now classified under Communication Services include Netflix, Alphabet, Facebook and Disney. This is just the second change to the GICS classifications since 1999.
- Sector performance was broadly positive across large cap sectors for the 3rd quarter. Ten of eleven sectors had positive returns for the quarter with four outpacing the Russell 1000 Index return. The consumer discretionary sector continues to do well on the back of strong retail sales and increased consumer spending, gaining 7.6% for the period. Health care and technology stocks increased 14.3% and 12.5% during the quarter respectively, with companies in both sectors reporting strong earnings. Industrials benefitted from continued economic strength returning 9.7%. The largest detractors for the quarter were the materials, real estate and energy sectors which returned -0.1%, 0.6% and 0.9% respectively. Over the trailing 1-year period, all large cap all sectors were positive. The information technology and consumer discretionary sectors were the best performers, returning over 30% over the last 12 months, and six of eleven sectors have returns over 10% for the year.
- Quarterly results for small cap sectors were generally lower relative to their large capitalization counterparts. Nine of eleven sectors had positive returns during the period with six of eleven economic sectors outpacing the Russell 2000 Index return for the quarter. Energy, consumer staples and real estate posted negative returns for the period returning -2.9%, -1.4% and -0.5% respectively. Communications services and health care were the best performers returning 12.6% and 7.7%. Over the trailing 1-year period, all eleven sectors posted gains. Health care stocks were the best performers within the Russell 2000 for the trailing year returning a solid 29.1%. Communication services, technology, and consumer discretionary also had particularly robust returns for the 1-year period.
- Using S&P 500 sector valuations as a proxy for the market, forward P/E ratios for seven of the eleven GICS sectors were higher than their long-term averages at quarter-end. Using these historical P/E measures, the utilities, consumer discretionary and real estate sectors appear the most extended. In contrast the financials, technology and health care sectors were trading at a discount to their long-term average P/E ratios.



The Market Environment
Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000
As of September 30, 2018

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	3.97%	22.4%	48.7%	Information Technology
Microsoft Corp	3.15%	16.4%	56.3%	Information Technology
Amazon.com Inc	2.96%	17.8%	108.4%	Consumer Discretionary
Berkshire Hathaway Inc B	1.51%	14.7%	16.8%	Financials
Facebook Inc A	1.42%	-15.4%	-3.8%	Communication Services
JPMorgan Chase & Co	1.37%	8.9%	20.7%	Financials
Johnson & Johnson	1.35%	14.6%	9.1%	Health Care
Alphabet Inc Class C	1.32%	7.0%	24.4%	Communication Services
Alphabet Inc A	1.31%	6.9%	24.0%	Communication Services
Exxon Mobil Corp	1.31%	3.8%	7.9%	Energy

Top 10 Weighted Stocks				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Five Below Inc	0.31%	33.1%	137.0%	Consumer Discretionary
Etsy Inc	0.27%	21.8%	204.4%	Consumer Discretionary
Integrated Device Technology Inc	0.27%	47.5%	76.9%	Information Technology
LivaNova PLC	0.27%	24.2%	76.9%	Health Care
Haemonetics Corp	0.26%	27.8%	155.4%	Health Care
Teladoc Health Inc	0.25%	48.8%	160.5%	Health Care
Ligand Pharmaceuticals Inc	0.25%	32.5%	101.6%	Health Care
HubSpot Inc	0.24%	20.4%	79.6%	Information Technology
Primerica Inc	0.23%	21.3%	49.2%	Financials
HealthEquity Inc	0.22%	25.7%	86.7%	Health Care

Top 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Advanced Micro Devices Inc	0.10%	106.1%	142.3%	Information Technology
Square Inc A	0.10%	60.6%	243.7%	Information Technology
Paycom Software Inc	0.03%	57.2%	107.3%	Information Technology
Twilio Inc A	0.02%	54.0%	189.0%	Information Technology
Atlassian Corporation PLC A	0.03%	53.8%	173.5%	Information Technology
Molina Healthcare Inc	0.03%	51.8%	116.3%	Health Care
DexCom Inc	0.05%	50.6%	192.4%	Health Care
Match Group Inc	0.01%	49.5%	149.7%	Communication Services
Fortinet Inc	0.05%	47.8%	157.4%	Information Technology
IAC/InterActiveCorp	0.06%	42.1%	84.3%	Communication Services

Top 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
CareDx Inc	0.04%	135.7%	679.7%	Health Care
Reata Pharmaceuticals Inc A	0.07%	133.8%	162.9%	Health Care
Invitae Corp	0.05%	127.6%	78.5%	Health Care
RigNet Inc	0.01%	97.6%	18.3%	Energy
Tandem Diabetes Care Inc	0.10%	94.6%	486.8%	Health Care
Health Insurance Innovations Inc	0.03%	90.6%	325.2%	Financials
Funko Inc Class A	0.01%	88.8%	N/A	Consumer Discretionary
LSB Industries Inc	0.01%	84.5%	23.2%	Materials
Viking Therapeutics Inc	0.04%	83.6%	812.0%	Health Care
Ra Pharmaceuticals Inc	0.01%	81.8%	23.9%	Health Care

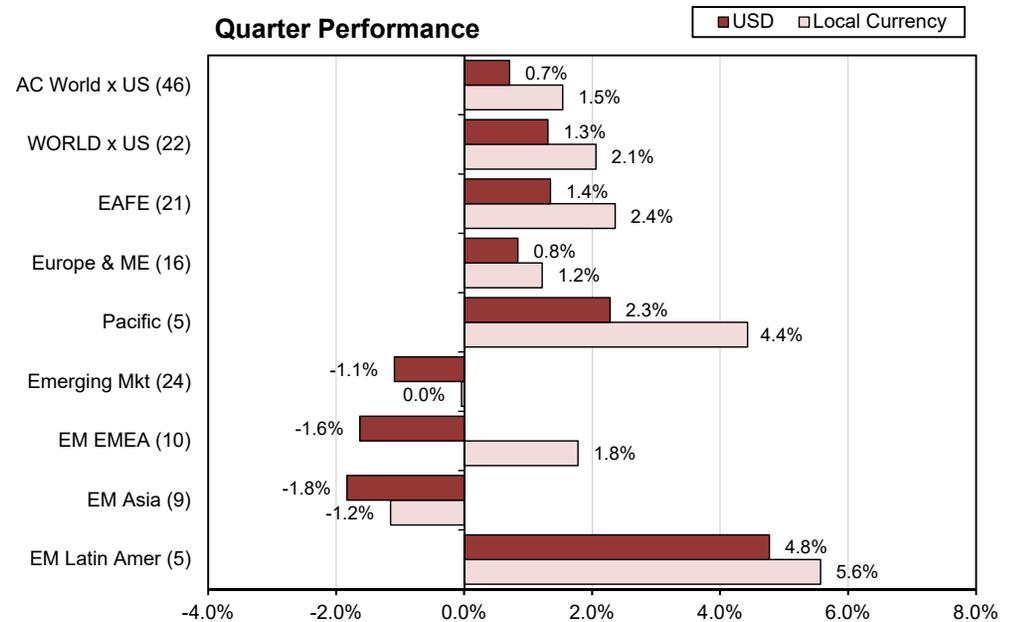
Bottom 10 Performing Stocks (by Quarter)				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Floor & Decor Holdings Inc	0.01%	-38.8%	-22.5%	Consumer Discretionary
Twitter Inc	0.07%	-34.8%	68.7%	Communication Services
IPG Photonics Corp	0.02%	-29.3%	-15.7%	Information Technology
Visteon Corp	0.01%	-28.1%	-24.9%	Consumer Discretionary
Zillow Group Inc A	0.01%	-26.0%	10.1%	Communication Services
Zillow Group Inc C	0.02%	-25.1%	10.0%	Communication Services
Western Digital Corp	0.06%	-23.7%	-30.4%	Information Technology
Wynn Resorts Ltd	0.05%	-23.7%	-13.3%	Consumer Discretionary
Extraction Oil & Gas Inc	0.00%	-23.1%	-26.6%	Energy
Tesla Inc	0.13%	-22.8%	-22.4%	Consumer Discretionary

Bottom 10 Performing Stocks (by Quarter)				
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Vital Therapies Inc	0.00%	-96.0%	-94.5%	Health Care
GTx Inc	0.00%	-89.7%	-81.4%	Health Care
Ampio Pharmaceuticals Inc	0.00%	-76.9%	-16.9%	Health Care
Innovate Biopharmaceuticals Inc	0.01%	-71.0%	-2.4%	Health Care
Zion Oil & Gas Inc	0.00%	-68.4%	-62.5%	Energy
Endologix Inc	0.01%	-66.3%	-57.2%	Health Care
Lannett Co Inc	0.01%	-65.1%	-74.3%	Health Care
Maiden Holdings Ltd	0.01%	-62.6%	-61.1%	Financials
Diebold Nixdorf Inc	0.02%	-62.3%	-80.1%	Information Technology
Sears Holdings Corp	0.00%	-59.2%	-86.7%	Consumer Discretionary

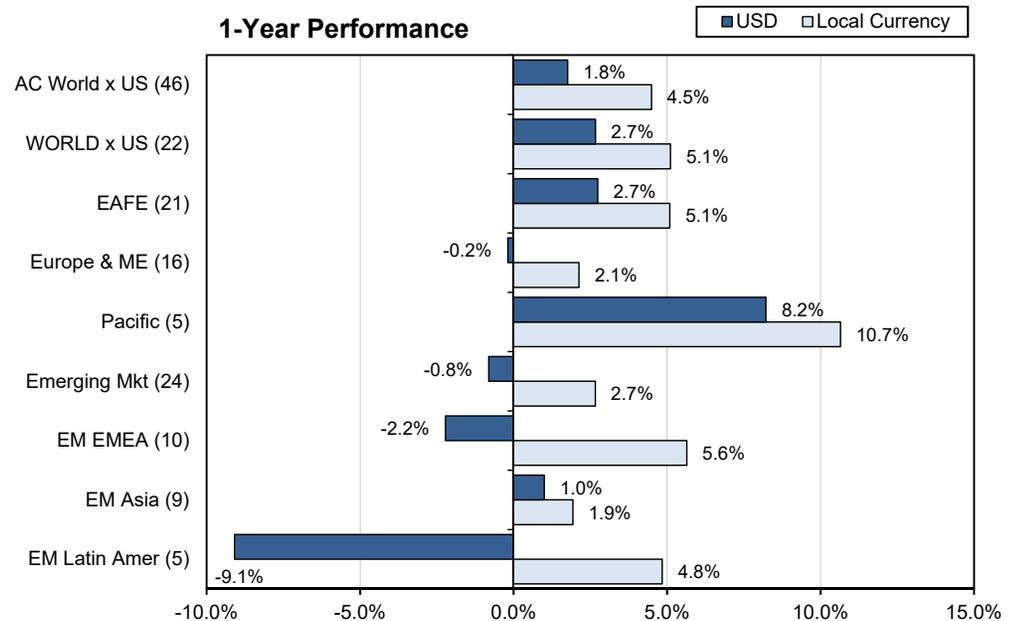


- Broad international equity returns were mixed for the quarter. Most developed markets were positive in local currency and USD terms whereas emerging markets were negative in both local currency and USD terms. Performance was largely driven by the same catalysts as the US equity markets for the second straight quarter. We saw global macroeconomic data slow, but remain generally positive through the period, with returns being tempered by global trade tensions and ongoing political uncertainty. The USD continued to strengthen against most currencies for the period as relatively strong US economic fundamentals and the continued divergence in global monetary policy hurt US investors in international markets. The MSCI ACWI ex US Index gained 1.5% in local currency terms and 0.7% in USD terms during the 3rd quarter. Returns over the 1-year period are modestly positive in both local currency and USD terms with the MSCI ACWI ex US returning 4.5% and 1.8% respectively.
- Third quarter results for developed market international indices were positive in local currency terms and USD terms with the MSCI EAFE Index returning 2.4% and 1.4% respectively. Returns were dampened for US investors as continued strength in the USD pushed returns lower. Developed markets were pushed higher by broadly positive, but slowing, global economic and earnings data despite several significant political events in Europe during the quarter. Concerns over a “no deal” Brexit and worries over a pending budget approval in Italy weighed on returns, while markets were encouraged by progress in trade negotiations between the US and the eurozone and signs of continued political stability in Japan. The MSCI EAFE Index returned 5.1% and 2.7% for the last twelve months in local currency and USD terms respectively.
- Emerging markets underperformed relative to developed markets for the 3rd quarter, posting a flat return in local currency terms that was exacerbated by the rising USD. The MSCI Emerging Markets Index returned 0.0% and -1.1% in local currency and USD terms respectively. Returns in emerging markets were the hurt by the deterioration in trade negotiations between the US and China followed by several rounds of new tariffs enacted by both countries. Emerging market stocks were also negatively affected by rising US interest rates coupled with an appreciating USD. Many emerging market countries and companies issue debt denominated in USD and the combination of higher interest rates and a relatively weaker local currency can put stress on the balance sheets of these borrowers, especially those heavily dependent on external capital. This was particularly problematic for Turkey, Argentina and South Africa during the 3rd quarter with Argentina having to expedite their request for an emergency bailout of \$50 billion from the World Monetary Fund. In positive news, Mexico and the US made progress toward the renegotiation of NAFTA. One year returns for the MSCI Emerging Market Index were 2.7% in local currency terms and -0.8% in USD terms.

Quarter Performance



1-Year Performance



The Market Environment
US Dollar International Index Attribution & Country Detail
As of September 30, 2018

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.4%	3.3%	-2.4%
Consumer Discretionary	11.1%	-0.5%	3.3%
Consumer Staples	11.3%	-0.1%	2.5%
Energy	6.0%	3.5%	24.6%
Financials	19.8%	0.9%	-4.0%
Health Care	10.9%	5.6%	7.1%
Industrials	14.3%	2.6%	4.2%
Information Technology	6.2%	0.3%	7.4%
Materials	8.1%	0.4%	5.1%
Real Estate	3.5%	-3.0%	1.0%
Utilities	3.3%	-0.6%	0.7%
Total	100.0%	1.4%	2.7%

MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	7.6%	-3.0%	-4.1%
Consumer Discretionary	10.7%	-3.2%	-1.4%
Consumer Staples	9.7%	-0.6%	1.6%
Energy	7.1%	4.1%	18.3%
Financials	22.0%	1.7%	-1.9%
Health Care	8.3%	4.5%	7.6%
Industrials	11.7%	2.8%	3.8%
Information Technology	8.5%	1.3%	5.6%
Materials	8.2%	0.4%	5.2%
Real Estate	3.2%	-3.5%	-2.7%
Utilities	3.0%	-0.9%	-1.2%
Total	100.0%	0.7%	1.8%

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	14.8%	-9.4%	-6.0%
Consumer Discretionary	11.3%	-9.9%	-13.2%
Consumer Staples	6.7%	-2.9%	-1.9%
Energy	6.3%	14.5%	26.0%
Financials	23.3%	1.5%	0.4%
Health Care	3.1%	-7.2%	11.4%
Industrials	5.3%	2.5%	-4.3%
Information Technology	15.9%	2.2%	2.3%
Materials	7.8%	4.5%	8.6%
Real Estate	2.9%	-5.6%	-15.1%
Utilities	2.5%	-1.9%	-5.4%
Total	100.0%	-1.1%	-0.8%

Country	MSCI-EAFE Weight	MSCI-ACWIXUS Weight	Quarter Return	1-Year Return
Japan	24.6%	16.9%	3.7%	10.2%
United Kingdom	17.5%	12.0%	-1.7%	2.9%
France	11.2%	7.7%	2.8%	4.2%
Germany	9.4%	6.5%	-0.6%	-5.4%
Switzerland	8.3%	5.7%	7.3%	1.6%
Australia	6.8%	4.7%	-0.9%	4.4%
Hong Kong	3.5%	2.4%	-1.0%	2.9%
Netherlands	3.3%	2.3%	-1.5%	-1.6%
Spain	3.0%	2.0%	-2.4%	-9.7%
Sweden	2.7%	1.9%	7.0%	-3.3%
Italy	2.3%	1.6%	-4.5%	-8.9%
Denmark	1.7%	1.2%	2.3%	-4.2%
Singapore	1.3%	0.9%	2.2%	6.9%
Finland	1.1%	0.7%	3.2%	10.3%
Belgium	1.0%	0.7%	-5.2%	-11.8%
Norway	0.8%	0.5%	6.7%	13.7%
Israel	0.6%	0.4%	5.1%	14.9%
Ireland	0.5%	0.4%	-5.4%	-6.1%
Austria	0.2%	0.2%	0.2%	-3.1%
New Zealand	0.2%	0.2%	2.4%	4.4%
Portugal	0.2%	0.1%	-0.6%	1.7%
Total EAFE Countries	100.0%	68.7%	1.4%	2.7%
Canada		6.7%	0.8%	1.9%
Total Developed Countries		75.3%	1.3%	2.7%
China		7.6%	-7.5%	-2.2%
Korea		3.7%	0.7%	1.4%
Taiwan		3.0%	6.5%	9.7%
India		2.1%	-2.3%	1.1%
Brazil		1.5%	6.1%	-14.0%
South Africa		1.5%	-7.4%	-5.1%
Russia		0.9%	6.2%	13.7%
Mexico		0.8%	6.9%	-4.4%
Thailand		0.6%	13.6%	15.2%
Malaysia		0.6%	3.8%	7.6%
Indonesia		0.5%	2.0%	-10.4%
Poland		0.3%	10.6%	-5.0%
Chile		0.3%	-2.0%	-5.7%
Philippines		0.2%	1.0%	-15.6%
Qatar		0.2%	12.8%	25.3%
United Arab Emirates		0.2%	3.1%	-6.9%
Turkey		0.2%	-20.5%	-41.7%
Colombia		0.1%	-2.5%	10.0%
Peru		0.1%	-2.1%	12.2%
Greece		0.1%	-17.6%	-14.8%
Hungary		0.1%	4.7%	-5.0%
Czech Republic		0.1%	4.0%	12.8%
Egypt		0.0%	-6.8%	-7.1%
Pakistan		0.0%	-4.9%	-20.6%
Total Emerging Countries		24.7%	-1.1%	-0.8%
Total ACWIXUS Countries		100.0%	0.7%	1.8%

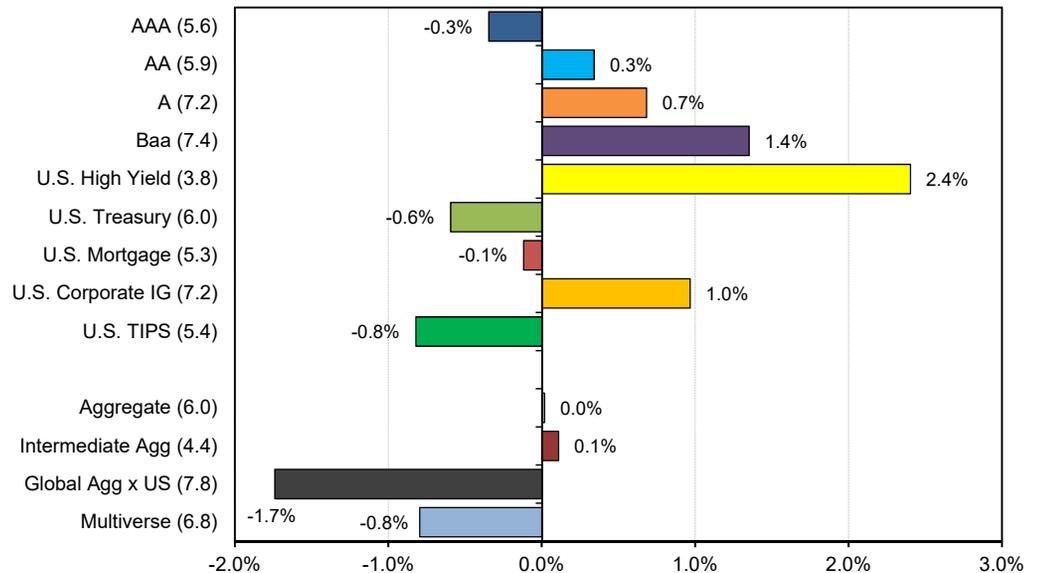
Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)

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

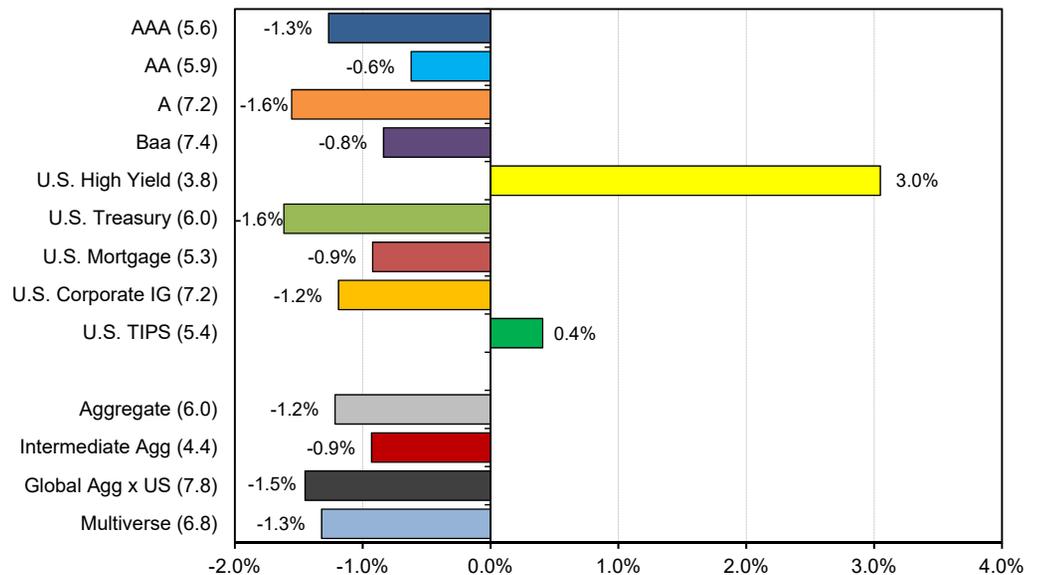


- Broad fixed income benchmarks had mixed results during the 3rd quarter. Interest rates rose across all maturities on the US Treasury Yield Curve. The Federal Open Market Committee (FOMC), decided to increase short-term interest rates by 25 basis points at their September meeting citing continued strength in the economy and stable inflation. This is the third rate hike of 2018. The current Fed Funds Rate target range sits at 2.00%-2.25%. The FOMC also changed the language used in its policy statement, removing the word “accommodative”, which investors took as a signal that the Fed plans to continue its trend of monetary policy tightening. The yield curve continued to flatten, although very gradually, as short-term yields rose at a greater rate than long-term yields during the quarter. The difference in yields between the 2-year and 10-year Treasury now sits at just 0.24%. As the curve continues to flatten, it moves closer to becoming “inverted”, which happens when short-term maturities have greater yields than long-term securities. Historically, an inverted yield curve has signaled a greater probability of a recession. The Fed is also continuing the reduction of the size of its balance sheet by slowing its pace of reinvestment as the securities it holds mature. The Bloomberg Barclays US Aggregate Index was flat during the quarter, posting a 0.0% return. Over the 1-year period the index has fallen -1.2%.
- Within investment grade credit, lower quality corporate issues outperformed higher quality issues as credit spreads tightened steadily over 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 1.4% for the quarter, while AAA was the worst performing, falling -0.3%. High yield debt outperformed relative to investment grade credit, returning 2.0%, as spreads tightened to a greater degree for these issues and the index benefitted from less sensitivity to rising interest rates due to its lower duration. Returns are negative for all investment grade quality segments when viewed over the 1-year period while high yield continues to outperform with a return of 3.0%.
- Of the Bloomberg Barclays US Aggregate Index’s three broad sectors, US investment grade corporates were the best performing investment grade sector through the quarter, returning 1.0%, and the only sector to post a positive return for the period. Corporate credit outperformed as credit spreads tightened. Demand for these securities outweighed supply for the period despite considerable new issuance and a headwind from the sectors higher duration relative to other index sectors. Treasuries were the worst performing sector posting a -0.6% return. Over the 1-year period, all three broad investment grade sectors posted losses with mortgages, investment grade credit and Treasuries falling -0.9%, -1.2% and -1.6% respectively.

Quarter Performance

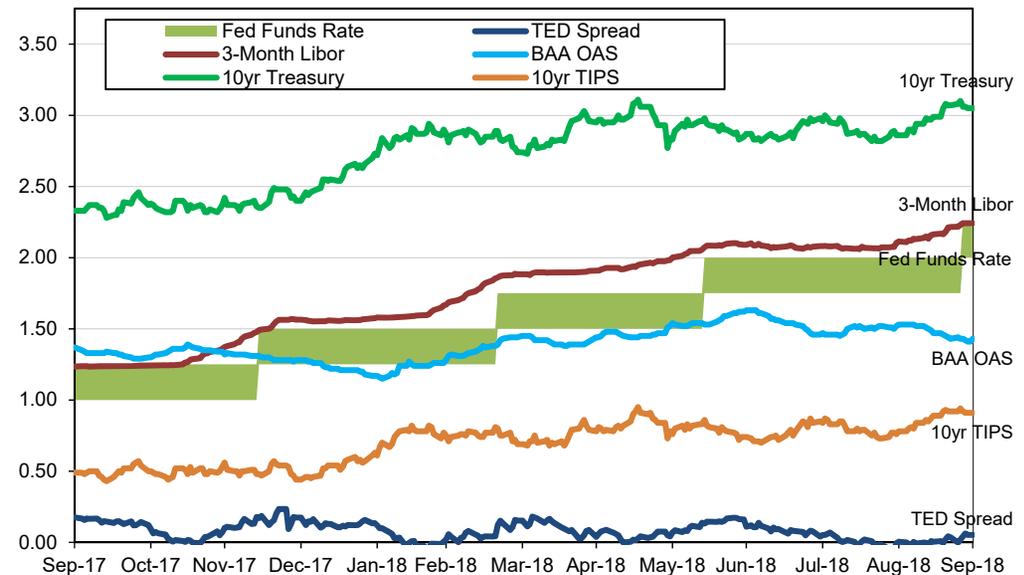


1-Year Performance

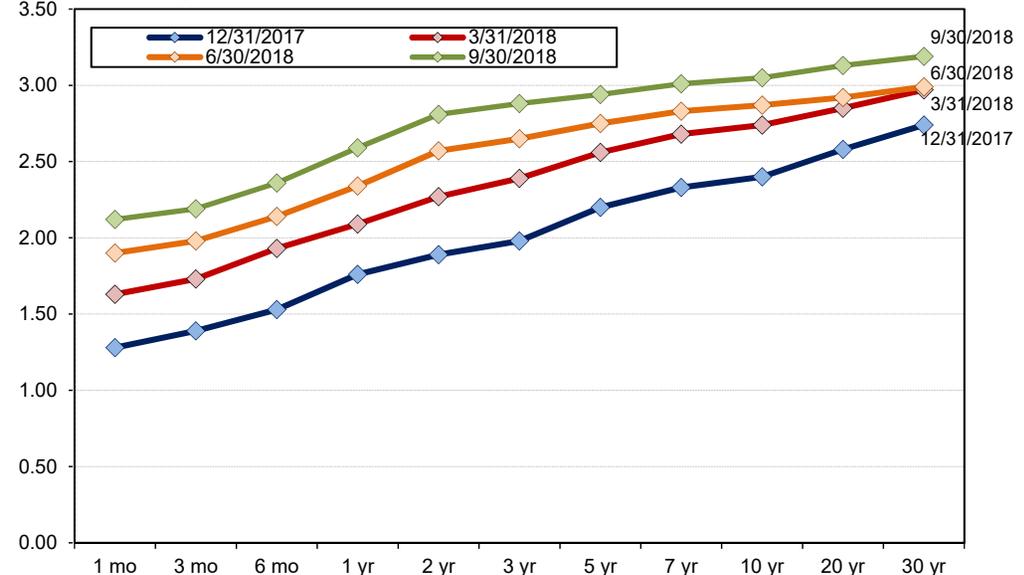


- Global fixed income indices continue to struggle relative to their domestic counterparts, underperforming during the 3rd quarter. These indices have lower yields and their relatively high duration acted as a headwind to performance in the current quarter as interest rates increased. The returns of these indices are also significantly influenced by fluctuations in their currency denomination relative to the USD. During the 3rd quarter the USD strengthened against most other currencies, negatively impacting the returns on global bond indices. The return on global bonds, as represented by the Bloomberg Barclays Global Aggregate ex US Index, was -1.7% and -1.5% for the quarter and 1-year period respectively. As the global economy continues to recover, several international central banks have started to move toward less accommodative postures. Notably, the ECB, began to slow its monthly bond purchase program in September, reducing new purchases to 15 billion euro per month from 30 billion euro per month, as well as forecasting an end to the program by the end of the year assuming the eurozone recovery continues to flourish. However, they have indicated a continuation of reinvestment in maturing securities and would likely not raise interest rates from current levels until summer 2019. The Bank of England increased interest rates by 0.25% during the quarter citing improvement in their near-term economic outlook and the Bank of Japan has changed its policy to allow flexibility for future tightening in the future.
- 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 the 10-year Treasury yield (green line) rose steadily during the end of the 3rd quarter, ending the period at 3.05%. 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 a steady increase in credit spreads through the first two quarters of 2018, followed by a smooth decline during the 3rd quarter. This decline is equivalent to an interest rate decrease on corporate bonds, which produces an additional tailwind for corporate bond index returns. These credit spreads have tightened by about 20 basis points over the last 3-months. The green band across the graph illustrates the gradual increase in the Federal Funds Rate (three increases in the last twelve months) due to the continued unwinding of accommodative US monetary policy.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four calendar quarters. As mentioned, the yield curve continues to flatten as yields on shorter-term maturities have risen more than interest rates on the long end of the curve. The upward momentum of interest rates as well as a general flattening of the yield curve are clearly visible over the last twelve months.

1-Year Trailing Market Rates

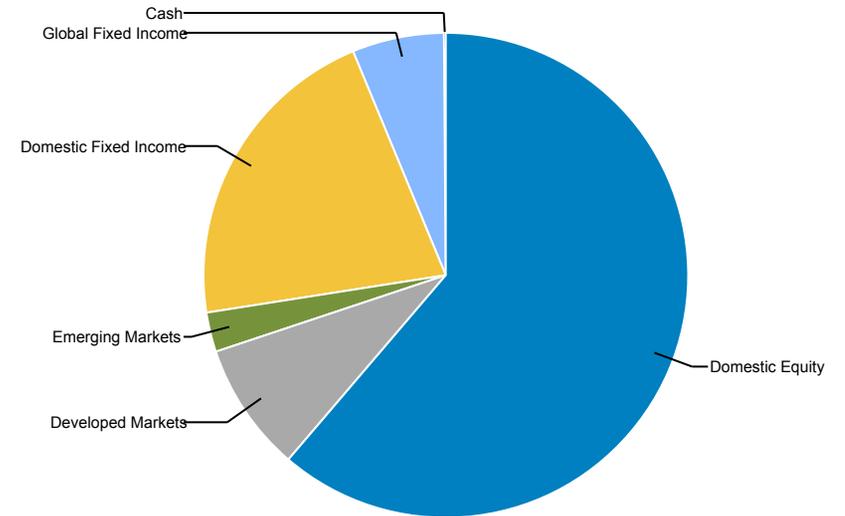
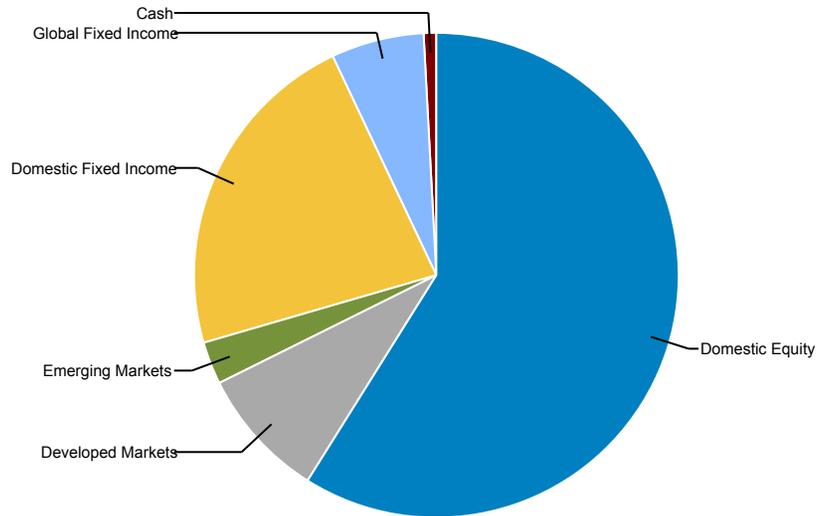


Treasury Yield Curve



June 30, 2018 : \$429,556,622

September 30, 2018 : \$438,789,863

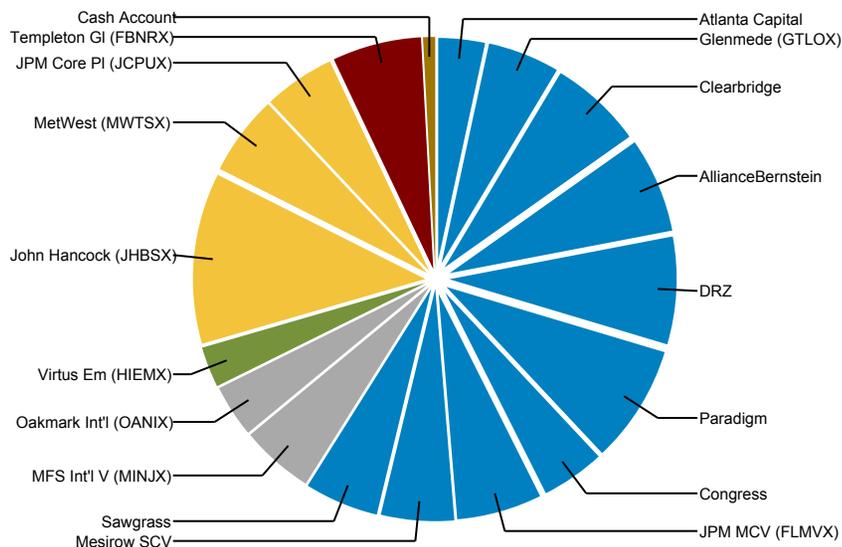


Allocation	Market Value	Allocation
■ Domestic Equity	253,107,819	58.9
■ Developed Markets	37,585,319	8.7
■ Emerging Markets	12,188,992	2.8
■ Domestic Fixed Income	96,444,707	22.5
■ Global Fixed Income	26,599,943	6.2
■ Cash	3,629,843	0.8

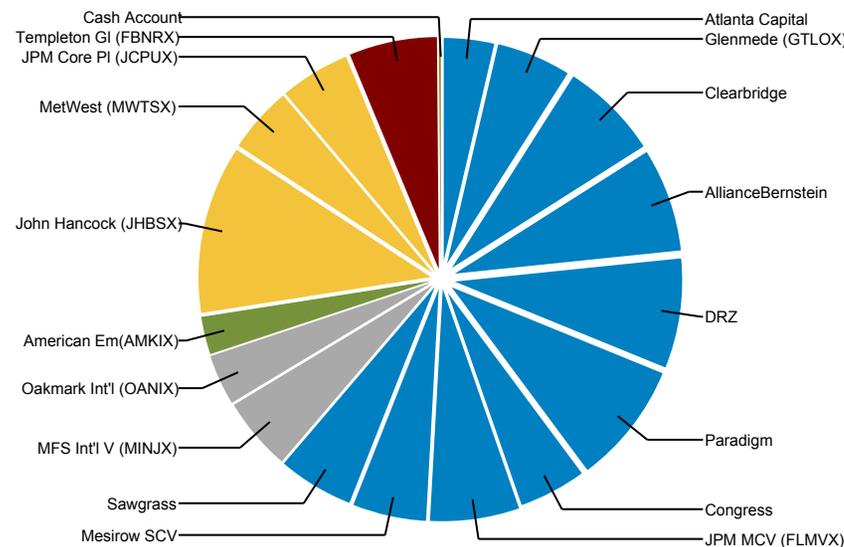
Allocation	Market Value	Allocation
■ Domestic Equity	268,815,565	61.3
■ Developed Markets	37,890,537	8.6
■ Emerging Markets	11,559,590	2.6
■ Domestic Fixed Income	93,083,177	21.2
■ Global Fixed Income	26,871,705	6.1
■ Cash	569,289	0.1



June 30, 2018 : \$429,556,622



September 30, 2018 : \$438,789,863

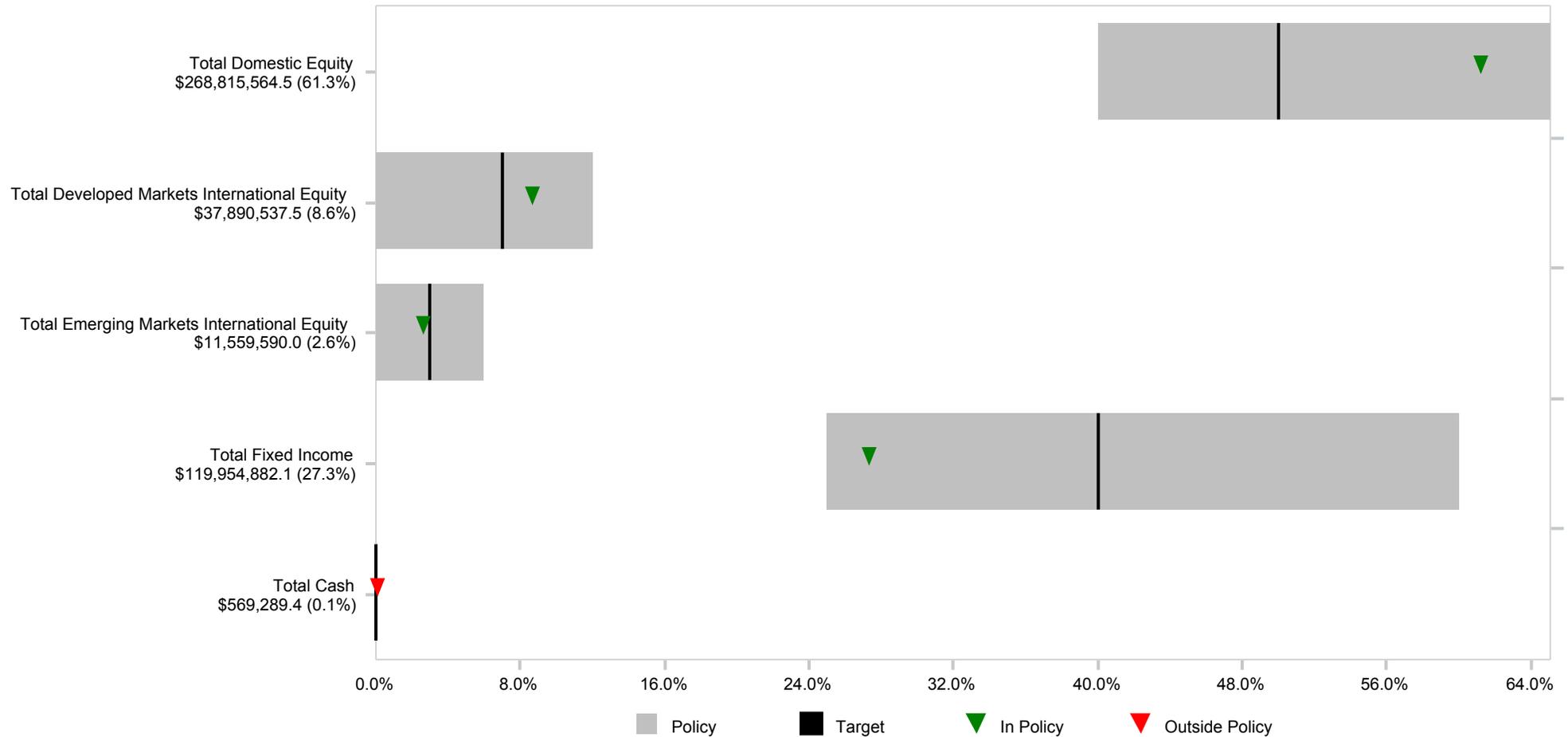


Allocation	Market Value	Allocation
Atlanta Capital	14,548,878	3.4
Glenmede (GTLOX)	22,199,488	5.2
Clearbridge	28,474,538	6.6
AllianceBernstein	29,187,540	6.8
DRZ	32,868,636	7.7
Paradigm	36,050,025	8.4
Congress	19,643,735	4.6
JPM MCV (FLMVX)	26,209,954	6.1
Mesirow SCV	21,807,558	5.1
Sawgrass	22,117,467	5.1
MFS Int'l V (MINJX)	21,876,748	5.1
Oakmark Int'l (OANIX)	15,708,571	3.7
American Em(AMKIX)	-	0.0
Virtus Em (HIEMX)	12,188,992	2.8
John Hancock (JHBSX)	51,105,223	11.9
MetWest (MWTSX)	23,979,321	5.6
JPM Core PI (JCPUX)	21,360,164	5.0
Templeton GI (FBNRX)	26,599,943	6.2
Cash Account	3,629,843	0.8

Allocation	Market Value	Allocation
Atlanta Capital	15,976,828	3.6
Glenmede (GTLOX)	23,463,017	5.3
Clearbridge	30,755,186	7.0
AllianceBernstein	32,304,964	7.4
DRZ	34,245,680	7.8
Paradigm	38,072,776	8.7
Congress	21,208,601	4.8
JPM MCV (FLMVX)	27,220,600	6.2
Mesirow SCV	22,442,678	5.1
Sawgrass	23,125,234	5.3
MFS Int'l V (MINJX)	22,408,844	5.1
Oakmark Int'l (OANIX)	15,481,693	3.5
American Em(AMKIX)	11,559,590	2.6
Virtus Em (HIEMX)	-	0.0
John Hancock (JHBSX)	51,385,670	11.7
MetWest (MWTSX)	20,301,063	4.6
JPM Core PI (JCPUX)	21,396,444	4.9
Templeton GI (FBNRX)	26,871,705	6.1
Cash Account	569,289	0.1



Executive Summary



Asset Allocation Compliance

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Rebal. (\$000)	Min. Rebal. (\$000)	Max. Rebal. (\$000)
Total Fund	438,789,863	100.0	100.0	N/A	N/A	-	-	-
Total Domestic Equity	268,815,565	61.3	50.0	40.0	70.0	-49,420,633	-93,299,619	38,337,340
Total Developed Markets International Equity	37,890,537	8.6	7.0	0.0	12.0	-7,175,247	-37,890,537	14,764,246
Total Emerging Markets International Equity	11,559,590	2.6	3.0	0.0	6.0	1,604,106	-11,559,590	14,767,802
Total Fixed Income	119,954,882	27.3	40.0	25.0	60.0	55,561,063	-10,257,416	143,319,036
Total Cash	569,289	0.1	0.0	0.0	0.0	-569,289	-569,289	-569,289



Asset Allocation Attributes														
	Domestic Equity		International Equity		Emerging Equity		Domestic Fixed Income		Global Fixed Income		Cash Equivalent		Total Fund	
	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%	(\$)	%
Total Equity	268,815,565	84.46	37,890,537	11.91	11,559,590	3.63	-	-	-	-	-	-	318,265,692	72.53
Total Domestic Equity	268,815,565	100.00	-	-	-	-	-	-	-	-	-	-	268,815,565	61.26
Atlanta Capital	15,976,828	100.00	-	-	-	-	-	-	-	-	-	-	15,976,828	3.64
Glenmede (GTLOX)	23,463,017	100.00	-	-	-	-	-	-	-	-	-	-	23,463,017	5.35
Clearbridge	30,755,186	100.00	-	-	-	-	-	-	-	-	-	-	30,755,186	7.01
AllianceBernstein	32,304,964	100.00	-	-	-	-	-	-	-	-	-	-	32,304,964	7.36
DePrince, Race & Zollow	34,245,680	100.00	-	-	-	-	-	-	-	-	-	-	34,245,680	7.80
Paradigm Asset Management	38,072,776	100.00	-	-	-	-	-	-	-	-	-	-	38,072,776	8.68
Congress Asset Management	21,208,601	100.00	-	-	-	-	-	-	-	-	-	-	21,208,601	4.83
JP Morgan Midcap Value L (FLMVX)	27,220,600	100.00	-	-	-	-	-	-	-	-	-	-	27,220,600	6.20
Mesirow Small Cap Value	22,442,678	100.00	-	-	-	-	-	-	-	-	-	-	22,442,678	5.11
Sawgrass	23,125,234	100.00	-	-	-	-	-	-	-	-	-	-	23,125,234	5.27
Total International Equity	-	-	37,890,537	76.62	11,559,590	23.38	-	-	-	-	-	-	49,450,127	11.27
Total Developed Markets	-	-	37,890,537	100.00	-	-	-	-	-	-	-	-	37,890,537	8.64
MFS International Value R6 (MINJX)	-	-	22,408,844	100.00	-	-	-	-	-	-	-	-	22,408,844	5.11
Oakmark International	-	-	15,481,693	100.00	-	-	-	-	-	-	-	-	15,481,693	3.53
Total Emerging Markets	-	-	-	-	11,559,590	100.00	-	-	-	-	-	-	11,559,590	2.63
American Century Em (AMKIX)	-	-	-	-	11,559,590	100.00	-	-	-	-	-	-	11,559,590	2.63
Total Domestic Fixed Income	-	-	-	-	-	-	93,083,177	100.00	-	-	-	-	93,083,177	21.21
Total Fixed Income	-	-	-	-	-	-	93,083,177	77.60	26,871,705	22.40	-	-	119,954,882	27.34
John Hancock Bond R6 (JHBSX)	-	-	-	-	-	-	51,385,670	100.00	-	-	-	-	51,385,670	11.71
MetWest Total Return (MWTSX)	-	-	-	-	-	-	20,301,063	100.00	-	-	-	-	20,301,063	4.63
JP Morgan Core Plus (JCPUX)	-	-	-	-	-	-	21,396,444	100.00	-	-	-	-	21,396,444	4.88
Total Global Fixed Income	-	-	-	-	-	-	-	-	26,871,705	100.00	-	-	26,871,705	6.12
Templeton Global Bond (FBNRX)	-	-	-	-	-	-	-	-	26,871,705	100.00	-	-	26,871,705	6.12
Total Cash	-	-	-	-	-	-	-	-	-	-	569,289	100.00	569,289	0.13
Cash Account	-	-	-	-	-	-	-	-	-	-	569,289	100.00	569,289	0.13
Total Fund	268,815,565	61.26	37,890,537	8.64	11,559,590	2.63	93,083,177	21.21	26,871,705	6.12	569,289	0.13	438,789,863	100.00



Financial Reconciliation
Total Fund - Quarter
1 Quarter Ending September 30, 2018

Financial Reconciliation Quarter to Date								
	Market Value 07/01/2018	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Return On Investment	Market Value 09/30/2018
Total Equity	302,882,130	-	33,461	-	-	-	15,350,101	318,265,692
Total Domestic Equity	253,107,819	-	29,830	-	-	-	15,677,916	268,815,565
Atlanta Capital	14,548,878	-	-	-	-	-	1,427,951	15,976,828
Glenmede (GTLOX)	22,199,488	-	23,073	-	-	-	1,240,456	23,463,017
Clearbridge	28,474,538	-	-	-	-	-	2,280,648	30,755,186
AllianceBernstein	29,187,540	-	-	-	-	-	3,117,424	32,304,964
DePrince, Race & Zollow	32,868,636	-	-	-	-	-	1,377,043	34,245,680
Paradigm Asset Management	36,050,025	-	-	-	-	-	2,022,751	38,072,776
Congress Asset Management	19,643,735	-	-	-	-	-	1,564,866	21,208,601
JP Morgan Midcap Value L (FLMVX)	26,209,954	-	6,757	-	-	-	1,003,889	27,220,600
Mesirow Small Cap Value	21,807,558	-	-	-	-	-	635,120	22,442,678
Sawgrass	22,117,467	-	-	-	-	-	1,007,768	23,125,234
Total International Equity	49,774,311	-	3,631	-	-	-	-327,815	49,450,127
Total Developed Markets International Equity	37,585,319	-	-	-	-	-	305,218	37,890,537
MFS International Value R6 (MINJX)	21,876,748	-	-	-	-	-	532,096	22,408,844
Oakmark International	15,708,571	-	-	-	-	-	-226,878	15,481,693
Total Emerging Markets International Equity	12,188,992	-	3,631	-	-	-	-633,033	11,559,590
American Century Emerging Markets (AMKIX)	-	12,069,553	3,381	-	-	-	-513,344	11,559,590
Virtus Vontobel Emerging Markets Opp I (HIEMX)	12,188,992	-12,069,553	250	-	-	-	-119,689	-
Total Fixed Income	123,044,650	-	-	-3,706,246	-	-	616,479	119,954,882
Total Domestic Fixed Income	96,444,707	-	-	-3,706,246	-	-	344,716	93,083,177
John Hancock Bond R6 (JHBSX)	51,105,223	-	-	-	-	-	280,447	51,385,670
MetWest Total Return Bond (MWT SX)	23,979,321	-	-	-3,706,246	-	-	27,988	20,301,063
JP Morgan Core Plus Bond R6 (JCPUX)	21,360,164	-	-	-	-	-	36,281	21,396,444
Total Global Fixed Income	26,599,943	-	-	-	-	-	271,763	26,871,705
Templeton Global Bond R6 (FBNRX)	26,599,943	-	-	-	-	-	271,763	26,871,705
Total Cash	3,629,843	-	3,555,283	-6,619,246	-	-	3,410	569,289
Cash Account	3,629,843	-	3,555,283	-6,619,246	-	-	3,410	569,289
Total Fund	429,556,622	-	3,588,743	-10,325,492	-	-	15,969,990	438,789,863



Financial Reconciliation
Total Fund - Fiscal Year to Date
July 1, 2018 To September 30, 2018

Financial Reconciliation Fiscal Year to Date								
	Market Value 07/01/2018	Net Transfers	Contributions	Distributions	Management Fees	Other Expenses	Return On Investment	Market Value 09/30/2018
Total Equity	302,882,130	-	33,461	-	-	-	15,350,101	318,265,692
Total Domestic Equity	253,107,819	-	29,830	-	-	-	15,677,916	268,815,565
Atlanta Capital	14,548,878	-	-	-	-	-	1,427,951	15,976,828
Glenmede (GTLOX)	22,199,488	-	23,073	-	-	-	1,240,456	23,463,017
Clearbridge	28,474,538	-	-	-	-	-	2,280,648	30,755,186
AllianceBernstein	29,187,540	-	-	-	-	-	3,117,424	32,304,964
DePrince, Race & Zollow	32,868,636	-	-	-	-	-	1,377,043	34,245,680
Paradigm Asset Management	36,050,025	-	-	-	-	-	2,022,751	38,072,776
Congress Asset Management	19,643,735	-	-	-	-	-	1,564,866	21,208,601
JP Morgan Midcap Value L (FLMVX)	26,209,954	-	6,757	-	-	-	1,003,889	27,220,600
Mesirow Small Cap Value	21,807,558	-	-	-	-	-	635,120	22,442,678
Sawgrass	22,117,467	-	-	-	-	-	1,007,768	23,125,234
Total International Equity	49,774,311	-	3,631	-	-	-	-327,815	49,450,127
Total Developed Markets International Equity	37,585,319	-	-	-	-	-	305,218	37,890,537
MFS International Value R6 (MINJX)	21,876,748	-	-	-	-	-	532,096	22,408,844
Oakmark International	15,708,571	-	-	-	-	-	-226,878	15,481,693
Total Emerging Markets International Equity	12,188,992	-	3,631	-	-	-	-633,033	11,559,590
American Century Emerging Markets (AMKIX)	-	12,069,553	3,381	-	-	-	-513,344	11,559,590
Virtus Vontobel Emerging Markets Opp I (HIEMX)	12,188,992	-12,069,553	250	-	-	-	-119,689	-
Total Fixed Income	123,044,650	-	-	-3,706,246	-	-	616,479	119,954,882
Total Domestic Fixed Income	96,444,707	-	-	-3,706,246	-	-	344,716	93,083,177
John Hancock Bond R6 (JHBSX)	51,105,223	-	-	-	-	-	280,447	51,385,670
MetWest Total Return Bond (MWTX)	23,979,321	-	-	-3,706,246	-	-	27,988	20,301,063
JP Morgan Core Plus Bond R6 (JCPUX)	21,360,164	-	-	-	-	-	36,281	21,396,444
Total Global Fixed Income	26,599,943	-	-	-	-	-	271,763	26,871,705
Templeton Global Bond R6 (FBNRX)	26,599,943	-	-	-	-	-	271,763	26,871,705
Total Cash	3,629,843	-	3,555,283	-6,619,246	-	-	3,410	569,289
Cash Account	3,629,843	-	3,555,283	-6,619,246	-	-	3,410	569,289
Total Fund	429,556,622	-	3,588,743	-10,325,492	-	-	15,969,990	438,789,863



Comparative Performance Trailing Returns

	QTR		FYTD		1 YR		3 YR		5 YR		7 YR		10 YR		Inception		Inception Date
Total Fund (Gross)	3.74	(19)	3.74	(19)	8.14	(51)	10.70	(26)	7.85	(49)	10.34	(32)	8.61	(24)	8.71	(21)	09/01/1989
Custom Benchmark	2.99	(56)	2.99	(56)	7.49	(66)	9.78	(57)	7.55	(62)	9.71	(54)	8.19	(42)	8.38	(42)	
All Public Plans-Total Fund Median	3.11		3.11		8.15		9.98		7.82		9.79		8.03		8.29		
Total Fund (Net)	3.74		3.74		8.14		10.70		7.85		10.34		8.61		8.71		09/01/1989
Custom Benchmark	2.99		2.99		7.49		9.78		7.55		9.71		8.19		8.38		
Total Equity	5.07		5.07		-		-		-		-		-		5.07		07/01/2018
Total Domestic Equity	6.19		6.19		-		-		-		-		-		6.19		07/01/2018
Atlanta Capital	9.81	(2)	9.81	(2)	18.44	(32)	15.06	(74)	-		-		-		15.06	(74)	10/01/2015
Russell 1000 Index	7.42	(42)	7.42	(42)	17.76	(42)	17.07	(35)	13.67	(48)	16.90	(48)	12.09	(47)	17.07	(35)	
IM U.S. Large Cap Core Equity (SA+CF) Median	7.13		7.13		17.25		16.23		13.55		16.86		12.03		16.23		
Glenmede (GTLOX)	5.59	(84)	5.59	(84)	14.22	(64)	16.11	(37)	14.57	(5)	-		-		15.23	(4)	07/01/2013
Russell 1000 Index	7.42	(43)	7.42	(43)	17.76	(29)	17.07	(18)	13.67	(17)	16.90	(17)	12.09	(15)	14.24	(15)	
IM U.S. Large Cap Core Equity (MF) Median	7.24		7.24		15.84		15.42		12.25		15.63		10.90		12.88		
Clearbridge	8.01	(53)	8.01	(53)	24.20	(53)	-		-		-		-		21.98	(57)	10/01/2016
Russell 1000 Growth Index	9.17	(23)	9.17	(23)	26.30	(37)	20.55	(22)	16.58	(32)	18.69	(39)	14.31	(34)	24.10	(34)	
IM U.S. Large Cap Growth Equity (SA+CF) Median	8.17		8.17		24.42		18.85		15.59		18.13		13.73		22.51		
AllianceBernstein	10.68	(6)	10.68	(6)	21.66	(66)	-		-		-		-		22.04	(61)	08/01/2017
Russell 1000 Growth Index	9.17	(23)	9.17	(23)	26.30	(37)	20.55	(22)	16.58	(32)	18.69	(39)	14.31	(34)	25.45	(35)	
IM U.S. Large Cap Growth Equity (SA+CF) Median	8.17		8.17		24.42		18.85		15.59		18.13		13.73		23.62		
DePrince, Race & Zollow	4.19	(83)	4.19	(83)	9.37	(78)	17.79	(5)	10.35	(76)	-		-		10.56	(81)	07/01/2013
Russell 1000 Value Index	5.70	(49)	5.70	(49)	9.45	(77)	13.55	(71)	10.72	(71)	15.02	(66)	9.79	(83)	10.99	(73)	
IM U.S. Large Cap Value Equity (SA+CF) Median	5.65		5.65		11.82		14.61		11.55		15.59		10.87		12.03		
Paradigm Asset Management	5.61	(52)	5.61	(52)	13.59	(37)	13.67	(70)	11.70	(44)	-		-		11.89	(55)	07/01/2013
Russell 1000 Value Index	5.70	(49)	5.70	(49)	9.45	(77)	13.55	(71)	10.72	(71)	15.02	(66)	9.79	(83)	10.99	(73)	
IM U.S. Large Cap Value Equity (SA+CF) Median	5.65		5.65		11.82		14.61		11.55		15.59		10.87		12.03		
Congress Asset Management	7.97	(38)	7.97	(38)	13.82	(97)	-		-		-		-		16.25	(89)	10/01/2016
Russell 2500 Growth Index	7.17	(57)	7.17	(57)	23.13	(40)	17.96	(35)	12.88	(52)	17.72	(28)	13.61	(45)	21.59	(34)	
IM U.S. Mid Cap Growth Equity (SA+CF) Median	7.48		7.48		21.94		16.25		12.97		16.84		13.38		19.96		

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



Comparative Performance

Total Fund

As of September 30, 2018

	QTR		FYTD		1 YR		3 YR		5 YR		7 YR		10 YR		Inception	Inception Date
JP Morgan Midcap Value L (FLMVX)	3.83	(18)	3.83	(18)	8.40	(45)	11.90	(42)	10.60	(10)	-	-	-	-	11.06 (20)	07/01/2013
Russell Midcap Value Index	3.30	(28)	3.30	(28)	8.81	(40)	13.09	(27)	10.72	(10)	15.54	(19)	11.29	(37)	11.39 (15)	
IM U.S. Mid Cap Value Equity (MF) Median	2.87		2.87		7.84		11.55		9.17		14.59		10.78		10.06	
Mesirow Small Cap Value	2.91	(32)	2.91	(32)	-		-		-		-		-		2.05 (55)	06/01/2018
Russell 2000 Value Index	1.60	(51)	1.60	(51)	9.33	(49)	16.12	(35)	9.91	(67)	15.26	(72)	9.52	(94)	2.22 (52)	
IM U.S. Small Cap Value Equity (SA+CF) Median	1.62		1.62		9.07		15.12		10.77		16.31		12.09		2.33	
Sawgrass	4.56	(81)	4.56	(81)	-		-		-		-		-		2.50 (96)	02/01/2018
Russell 2000 Growth Index	5.52	(73)	5.52	(73)	21.06	(74)	17.98	(72)	12.14	(70)	17.52	(70)	12.65	(79)	11.41 (75)	
IM U.S. Small Cap Growth Equity (SA+CF) Median	7.71		7.71		26.92		19.56		13.35		18.69		14.04		15.97	
Total International Equity	-0.66		-0.66		-		-		-		-		-		-0.66	07/01/2018
Total Developed Markets International Equity	0.81		0.81		-		-		-		-		-		0.81	07/01/2018
MFS International Value R6 (MINJX)	2.43	(7)	2.43	(7)	8.22	(4)	12.68	(14)	9.11	(4)	-		-		10.10 (6)	07/01/2013
MSCI EAFE (Net) Index	1.35	(18)	1.35	(18)	2.74	(24)	9.23	(49)	4.42	(43)	8.30	(40)	5.38	(50)	6.40 (37)	
IM International Equity (MF) Median	-0.27		-0.27		0.06		9.15		3.98		7.71		5.35		5.63	
Oakmark International	-1.44	(67)	-1.44	(67)	-6.33	(89)	10.61	(33)	4.37	(44)	-		-		6.48 (35)	07/01/2013
MSCI EAFE (Net) Index	1.35	(18)	1.35	(18)	2.74	(24)	9.23	(49)	4.42	(43)	8.30	(40)	5.38	(50)	6.40 (37)	
IM International Equity (MF) Median	-0.27		-0.27		0.06		9.15		3.98		7.71		5.35		5.63	
Total Emerging Markets International Equity	-5.19		-5.19		-6.96		6.94		3.15		-		-		2.62	07/01/2013
American Century Emerging Markets (AMKIX)	-4.25	(74)	-4.25	(74)	-		-		-		-		-		-4.25 (74)	07/01/2018
MSCI Emerging Markets (Net) Index	-1.09	(25)	-1.09	(25)	-0.81	(24)	12.36	(21)	3.61	(32)	5.03	(42)	5.40	(35)	-1.09 (25)	
IM Emerging Markets Equity (MF) Median	-2.42		-2.42		-3.97		10.24		2.92		4.70		4.74		-2.42	

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



**Comparative Performance
Total Fund**

As of September 30, 2018

	QTR	FYTD	1 YR	3 YR	5 YR	7 YR	10 YR	Inception	Inception Date
Total Fixed Income	0.49	0.49	-	-	-	-	-	0.49	07/01/2018
Total Domestic Fixed Income	0.35	0.35	-	-	-	-	-	0.35	07/01/2018
John Hancock Bond R6 (JHBSX)	0.55 (7)	0.55 (7)	-0.61 (12)	2.81 (3)	3.47 (1)	-	-	3.45 (1)	07/01/2013
Blmbg. Barc. U.S. Aggregate Index	0.02 (64)	0.02 (64)	-1.22 (40)	1.31 (53)	2.16 (42)	2.02 (59)	3.77 (66)	2.17 (40)	
IM U.S. Broad Market Core Fixed Income (MF) Median	0.10	0.10	-1.35	1.34	2.06	2.16	4.05	2.05	
MetWest Total Return Bond (MWT SX)	0.13 (45)	0.13 (45)	-0.78 (19)	1.46 (44)	2.35 (29)	-	-	2.45 (24)	07/01/2013
Blmbg. Barc. U.S. Aggregate Index	0.02 (64)	0.02 (64)	-1.22 (40)	1.31 (53)	2.16 (42)	2.02 (59)	3.77 (66)	2.17 (40)	
IM U.S. Broad Market Core Fixed Income (MF) Median	0.10	0.10	-1.35	1.34	2.06	2.16	4.05	2.05	
JP Morgan Core Plus Bond R6 (JCPUX)	0.17 (40)	0.17 (40)	-2.79 (99)	1.47 (43)	-	-	-	1.49 (31)	01/01/2015
Blmbg. Barc. U.S. Aggregate Index	0.02 (64)	0.02 (64)	-1.22 (40)	1.31 (53)	2.16 (42)	2.02 (59)	3.77 (66)	1.35 (43)	
IM U.S. Broad Market Core Fixed Income (MF) Median	0.10	0.10	-1.35	1.34	2.06	2.16	4.05	1.26	
Total Global Fixed Income	1.02	1.02	-1.95	3.87	1.98	-	-	2.04	07/01/2013
Templeton Global Bond R6 (FBNRX)	1.02 (9)	1.02 (9)	-1.95 (67)	3.87 (14)	1.98 (33)	-	-	2.04 (32)	07/01/2013
FTSE World Government Bond Index	-1.62 (97)	-1.62 (97)	-1.54 (56)	1.68 (69)	0.20 (85)	-0.06 (88)	2.21 (87)	0.74 (82)	
IM Global Fixed Income (MF) Median	-0.39	-0.39	-1.19	2.36	1.39	1.73	3.57	1.56	
Total Cash	0.48	0.48	1.23	0.72	0.46	-	-	0.44	07/01/2013
Cash Account	0.48 (12)	0.48 (12)	1.23 (51)	0.72 (22)	0.46 (15)	-	-	0.44 (15)	07/01/2013
90 Day U.S. Treasury Bill	0.49 (11)	0.49 (11)	1.59 (11)	0.80 (12)	0.50 (12)	0.37 (11)	0.32 (16)	0.47 (12)	
IM U.S. Taxable Money Market (MF) Median	0.41	0.41	1.23	0.53	0.33	0.23	0.21	0.31	

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



Comparative Performance Fiscal Year to Date												
	FYTD		Jul-2017 To Jun-2018		Jul-2016 To Jun-2017		Jul-2015 To Jun-2016		Jul-2014 To Jun-2015		Jul-2013 To Jun-2014	
Total Fund (Gross)	3.74	(19)	8.05	(65)	13.89	(17)	-0.91	(84)	3.49	(52)	14.81	(87)
Custom Benchmark	2.99	(56)	7.77	(71)	10.96	(72)	2.17	(18)	2.99	(64)	16.43	(59)
All Public Plans-Total Fund Median	3.11		8.58		12.06		0.70		3.52		16.82	
Total Fund (Net)	3.74		8.05		13.89		-0.91		3.49		14.81	
Custom Benchmark	2.99		7.77		10.96		2.17		2.99		16.43	
Total Equity	5.07		-		-		-		-		-	
Total Domestic Equity	6.19		-		-		-		-		-	
Atlanta Capital	9.81	(2)	10.99	(80)	15.31	(72)	-		-		-	
Russell 1000 Index	7.42	(42)	14.54	(45)	18.03	(45)	2.93	(36)	7.37	(63)	25.35	(49)
IM U.S. Large Cap Core Equity (SA+CF) Median	7.13		14.34		17.73		1.55		8.15		25.32	
Glenmede (GTLOX)	5.59	(84)	14.58	(27)	19.82	(23)	1.39	(47)	10.17	(6)	30.01	(1)
Russell 1000 Index	7.42	(43)	14.54	(28)	18.03	(43)	2.93	(31)	7.37	(30)	25.35	(27)
IM U.S. Large Cap Core Equity (MF) Median	7.24		13.04		17.51		0.96		6.42		23.61	
Clearbridge	8.01	(53)	21.34	(51)	-		-		-		-	
Russell 1000 Growth Index	9.17	(23)	22.51	(42)	20.42	(49)	3.02	(20)	10.56	(59)	26.92	(52)
IM U.S. Large Cap Growth Equity (SA+CF) Median	8.17		21.35		20.31		-0.57		11.25		27.16	
AllianceBernstein	10.68	(6)	-		-		-		-		-	
Russell 1000 Growth Index	9.17	(23)	22.51	(42)	20.42	(49)	3.02	(20)	10.56	(59)	26.92	(52)
IM U.S. Large Cap Growth Equity (SA+CF) Median	8.17		21.35		20.31		-0.57		11.25		27.16	
DePrince, Race & Zollow	4.19	(83)	9.30	(62)	22.03	(23)	1.50	(37)	-1.49	(95)	21.91	(78)
Russell 1000 Value Index	5.70	(49)	6.77	(87)	15.53	(71)	2.86	(30)	4.13	(63)	23.81	(56)
IM U.S. Large Cap Value Equity (SA+CF) Median	5.65		10.35		17.77		-0.44		5.34		24.43	
Paradigm Asset Management	5.61	(52)	12.50	(27)	10.35	(93)	4.53	(21)	6.02	(42)	24.15	(53)
Russell 1000 Value Index	5.70	(49)	6.77	(87)	15.53	(71)	2.86	(30)	4.13	(63)	23.81	(56)
IM U.S. Large Cap Value Equity (SA+CF) Median	5.65		10.35		17.77		-0.44		5.34		24.43	

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



Comparative Performance

Total Fund

As of September 30, 2018

	FYTD		Jul-2017 To Jun-2018		Jul-2016 To Jun-2017		Jul-2015 To Jun-2016		Jul-2014 To Jun-2015		Jul-2013 To Jun-2014	
Congress Asset Management	7.97	(38)	8.19	(99)	-	-	-	-	-	-	-	-
Russell 2500 Growth Index	7.17	(57)	21.53	(33)	21.44	(34)	-7.69	(65)	11.30	(48)	26.26	(41)
IM U.S. Mid Cap Growth Equity (SA+CF) Median	7.48		17.95		19.60		-5.30		11.02		24.93	
JP Morgan Midcap Value L (FLMVX)	3.83	(18)	6.67	(57)	14.50	(95)	2.45	(11)	8.30	(4)	23.26	(85)
Russell Midcap Value Index	3.30	(28)	7.60	(46)	15.93	(64)	3.25	(8)	3.67	(64)	27.76	(27)
IM U.S. Mid Cap Value Equity (MF) Median	2.87		7.32		16.62		-2.44		4.11		26.21	
Mesirow Small Cap Value	2.91	(32)	-	-	-	-	-	-	-	-	-	-
Russell 2000 Value Index	1.60	(51)	13.10	(51)	24.86	(34)	-2.58	(50)	0.78	(72)	22.54	(76)
IM U.S. Small Cap Value Equity (SA+CF) Median	1.62		13.22		23.08		-2.63		3.72		25.39	
Sawgrass	4.56	(81)	-	-	-	-	-	-	-	-	-	-
Russell 2000 Growth Index	5.52	(73)	21.86	(66)	24.40	(49)	-10.75	(61)	12.34	(41)	24.73	(49)
IM U.S. Small Cap Growth Equity (SA+CF) Median	7.71		24.48		24.22		-8.85		11.05		24.46	
Total International Equity	-0.66		-									
Total Developed Markets International Equity	0.81		-									
MFS International Value R6 (MINJX)	2.43	(7)	9.08	(31)	15.71	(80)	5.72	(1)	1.97	(16)	18.92	(56)
MSCI EAFE (Net) Index	1.35	(18)	6.84	(50)	20.27	(45)	-10.16	(56)	-4.22	(55)	23.57	(23)
IM International Equity (MF) Median	-0.27		6.79		19.80		-9.60		-3.87		19.72	
Oakmark International	-1.44	(67)	3.94	(77)	41.31	(1)	-18.98	(97)	-1.77	(32)	20.68	(43)
MSCI EAFE (Net) Index	1.35	(18)	6.84	(50)	20.27	(45)	-10.16	(56)	-4.22	(55)	23.57	(23)
IM International Equity (MF) Median	-0.27		6.79		19.80		-9.60		-3.87		19.72	
Total Emerging Markets International Equity	-5.19		1.82		14.89		-0.79		-3.38		7.75	
American Century Emerging Markets (AMKIX)	-4.25	(74)	-	-	-	-	-	-	-	-	-	-
MSCI Emerging Markets (Net) Index	-1.09	(25)	8.20	(35)	23.75	(30)	-12.05	(71)	-5.12	(37)	14.31	(49)
IM Emerging Markets Equity (MF) Median	-2.42		6.78		21.26		-9.98		-6.75		14.12	

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



Comparative Performance

Total Fund

As of September 30, 2018

	FYTD		Jul-2017 To Jun-2018		Jul-2016 To Jun-2017		Jul-2015 To Jun-2016		Jul-2014 To Jun-2015		Jul-2013 To Jun-2014	
Total Fixed Income	0.49		-		-		-		-		-	
Total Domestic Fixed Income	0.35		-		-		-		-		-	
John Hancock Bond R6 (JHBSX)	0.55	(7)	0.10	(14)	3.14	(4)	4.80	(65)	1.80	(16)	7.90	(2)
Blmbg. Barc. U.S. Aggregate Index	0.02	(64)	-0.40	(34)	-0.31	(74)	6.00	(14)	1.86	(12)	4.37	(62)
IM U.S. Broad Market Core Fixed Income (MF) Median	0.10		-0.59		0.39		5.09		1.19		4.76	
MetWest Total Return Bond (MWT SX)	0.13	(45)	-0.17	(22)	0.40	(50)	4.76	(66)	1.98	(8)	5.91	(20)
Blmbg. Barc. U.S. Aggregate Index	0.02	(64)	-0.40	(34)	-0.31	(74)	6.00	(14)	1.86	(12)	4.37	(62)
IM U.S. Broad Market Core Fixed Income (MF) Median	0.10		-0.59		0.39		5.09		1.19		4.76	
JP Morgan Core Plus Bond R6 (JCPUX)	0.17	(40)	-1.89	(98)	1.52	(16)	5.37	(39)	-		-	
Blmbg. Barc. U.S. Aggregate Index	0.02	(64)	-0.40	(34)	-0.31	(74)	6.00	(14)	1.86	(12)	4.37	(62)
IM U.S. Broad Market Core Fixed Income (MF) Median	0.10		-0.59		0.39		5.09		1.19		4.76	
Total Global Fixed Income	1.02		-1.74		10.60		-4.12		-1.48		7.20	
Templeton Global Bond R6 (FBNRX)	1.02	(9)	-1.74	(98)	10.60	(1)	-4.12	(100)	-1.48	(29)	7.20	(45)
FTSE World Government Bond Index	-1.62	(97)	1.90	(17)	-4.14	(97)	11.26	(1)	-9.02	(89)	6.85	(50)
IM Global Fixed Income (MF) Median	-0.39		0.45		1.00		5.32		-5.21		6.85	
Total Cash	0.48		0.96		0.47		0.25		0.15		0.02	
Cash Account	0.48	(12)	0.96	(53)	0.47	(14)	0.25	(4)	0.15	(1)	0.02	(19)
90 Day U.S. Treasury Bill	0.49	(11)	1.36	(10)	0.44	(18)	0.13	(15)	0.03	(17)	0.04	(7)
IM U.S. Taxable Money Market (MF) Median	0.41		0.99		0.21		0.02		0.01		0.01	

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



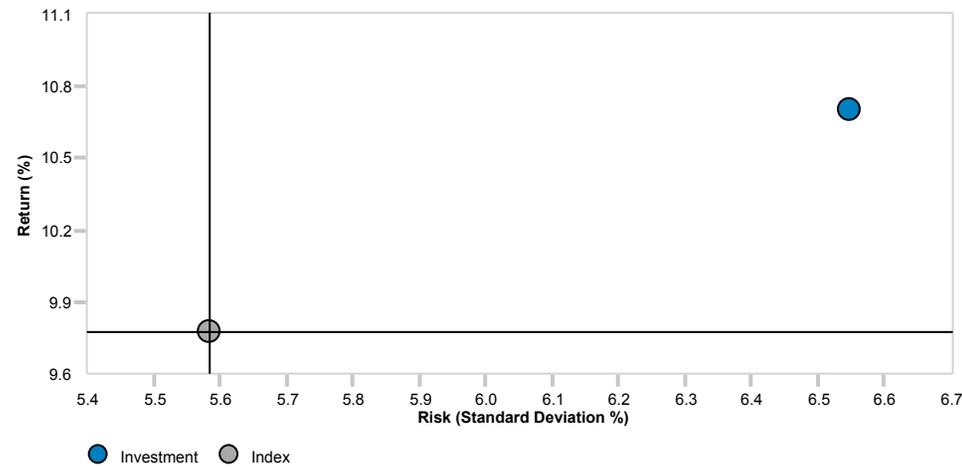
Historical Statistics 3 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.70	6.55	1.47	108.53	11	105.85	1
Index	9.78	5.59	1.56	100.00	11	100.00	1

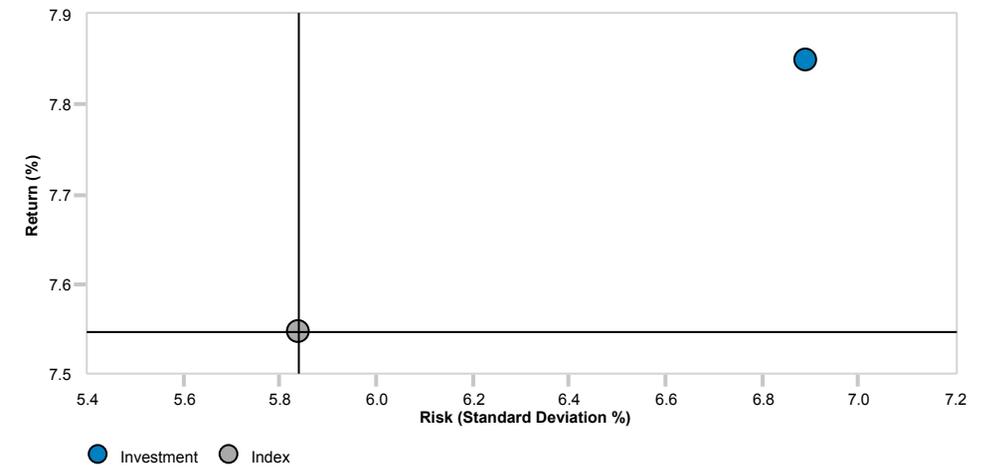
Historical Statistics 5 Years

	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.85	6.89	1.06	108.54	16	114.60	4
Index	7.55	5.84	1.20	100.00	16	100.00	4

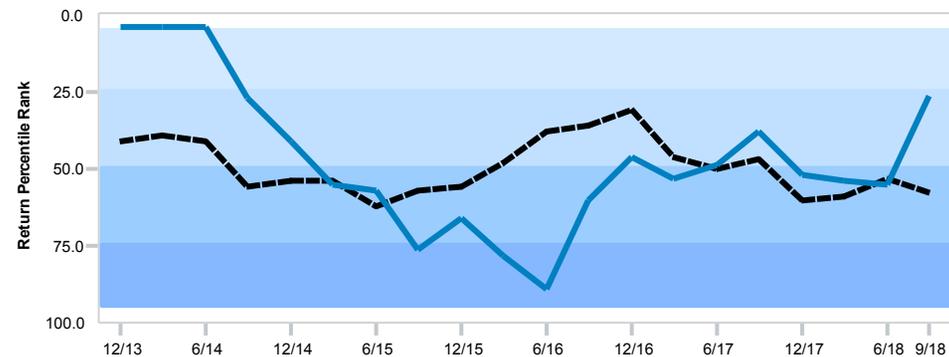
Risk and Return 3 Years



Risk and Return 5 Years

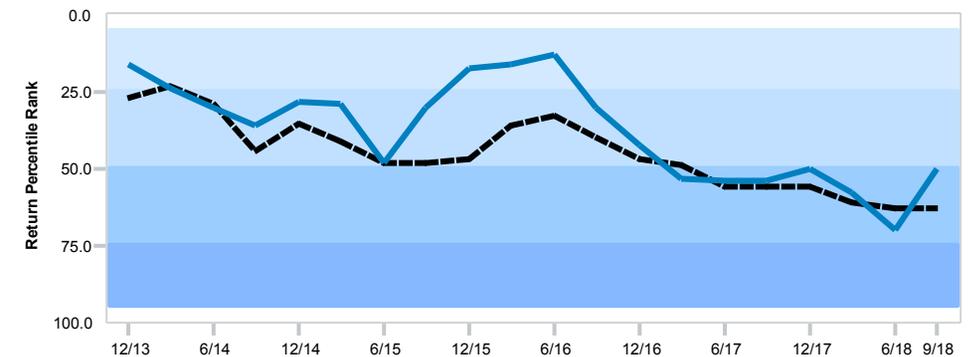


3 Year Rolling Percentile Rank All Public Plans-Total Fund



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	3 (15%)	6 (30%)	8 (40%)	3 (15%)
Index	20	0 (0%)	10 (50%)	10 (50%)	0 (0%)

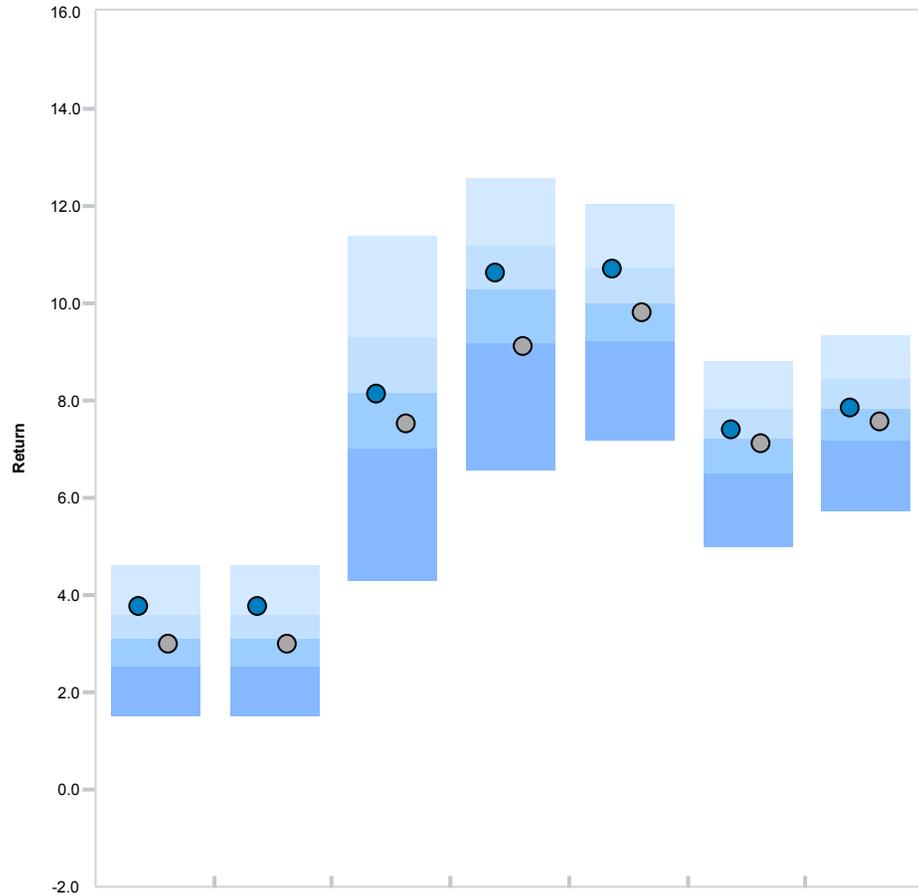
5 Year Rolling Percentile Rank All Public Plans-Total Fund



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	5 (25%)	10 (50%)	5 (25%)	0 (0%)
Index	20	1 (5%)	13 (65%)	6 (30%)	0 (0%)

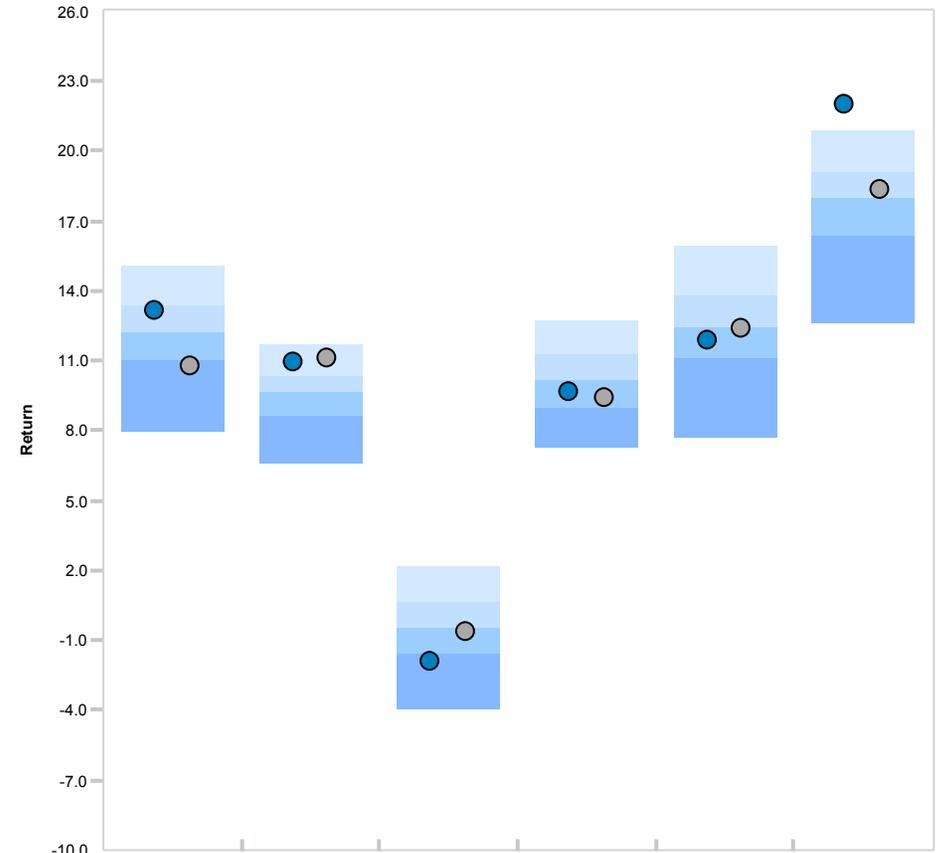


Plan Sponsor Peer Group Analysis vs. All Public Plans-Total Fund



	QTR	FYTD	1 YR	2 YR	3 YR	4 YR	5 YR
● Investment	3.74 (19)	3.74 (19)	8.14 (52)	10.60 (42)	10.70 (26)	7.40 (45)	7.85 (50)
● Index	2.99 (56)	2.99 (56)	7.49 (67)	9.12 (76)	9.78 (58)	7.09 (55)	7.55 (63)
Median	3.12	3.12	8.15	10.28	10.00	7.23	7.84

Plan Sponsor Peer Group Analysis vs. All Public Plans-Total Fund



	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
● Investment	13.12 (31)	10.90 (15)	-1.94 (80)	9.69 (60)	11.83 (63)	22.03 (2)
● Index	10.77 (80)	11.11 (11)	-0.60 (52)	9.41 (67)	12.39 (52)	18.31 (41)
Median	12.20	9.66	-0.50	10.17	12.49	17.99

Comparative Performance

	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017	1 Qtr Ending Mar-2017
Investment	1.02 (72)	-0.74 (83)	3.94 (36)	3.66 (31)	2.77 (65)	4.22 (62)
Index	1.42 (50)	-0.65 (77)	3.58 (62)	3.25 (67)	2.67 (71)	3.71 (85)
Median	1.42	-0.28	3.74	3.44	2.97	4.39



Fee Analysis
Total Fund
As of September 30, 2018

	Estimated Annual Fee (%)*	Market Value (\$)	Estimated Annual Fee (\$)	Fee Schedule
Domestic Equity				
Atlanta Capital	0.60	15,976,828	95,861	0.60 % of First \$20 M 0.50 % Thereafter
Glenmede (GTLOX)	0.86	23,463,017	201,782	0.86 % of Assets
Clearbridge	0.50	30,755,186	153,776	0.50 % of Assets
AllianceBernstein	0.42	32,304,964	135,220	0.50 % of First \$1 M 0.45 % of Next \$4 M 0.42 % of Next \$15 M 0.40 % Thereafter
DePrince, Race & Zollow	0.44	34,245,680	150,681	0.44 % of Assets
Paradigm Asset Management	0.55	38,072,776	209,400	
Congress Asset Management	0.50	21,208,601	106,043	0.50 % of Assets
JP Morgan Midcap Value L (FLMVX)	0.74	27,220,600	201,432	0.74 % of Assets
Mesirow Small Cap Value	0.67	22,442,678	150,877	0.70 % of First \$10 M 0.65 % Thereafter
Sawgrass	0.50	23,125,234	115,626	0.50 % of Assets
International Equity - Developed				
MFS International Value R6 (MINJX)	0.62	22,408,844	138,935	0.62 % of Assets
Oakmark International	0.75	15,481,693	116,113	0.75 % of Assets
International Equity - Emerging				
American Century Emerging Markets (AMKIX)	0.94	11,559,590	108,660	0.94 % of Assets
Domestic Fixed Income				
John Hancock Bond R6 (JHBSX)	0.39	51,385,670	200,404	0.39 % of Assets
MetWest Total Return Bond (MWT SX)	0.37	20,301,063	75,114	0.37 % of Assets
JP Morgan Core Plus Bond R6 (JCPUX)	0.39	21,396,444	83,446	0.39 % of Assets
Global Fixed Income				
Templeton Global Bond R6 (FBNRX)	0.48	26,871,705	128,984	0.48 % of Assets
Cash Account		569,289		
Total Fund	0.54	438,789,863	2,372,355	



	Weight (%)
Jan-1988	
Russell 1000 Growth Index	10.00
Russell 1000 Index	7.00
Russell 1000 Value Index	13.00
Russell Midcap Growth Index	4.00
Russell Midcap Value Index	6.00
Russell 2000 Growth Index	5.00
Russell 2000 Value Index	5.00
MSCI EAFE Index	7.00
MSCI Emerging Markets Index	3.00
90 Day U.S. Treasury Bill	1.00
Blmbg. Barc. U.S. Aggregate Index	32.00
FTSE World Government Bond Index	7.00

Total Fund Compliance:	Yes	No	N/A
The total plan return equaled or exceeded the total plan benchmark over the trailing three and five year periods.	•		
The total plan return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.	•		

Equity Compliance:	Yes	No	N/A
Total domestic equity return equaled or exceeded the benchmark over the trailing three and five year periods.			•
Total domestic equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.			•
Total international equity return equaled or exceeded the benchmark over the trailing three and five year periods.			•
Total international equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.			•
The total equity allocation was less than or equal to 75% but greater than or equal to 20% of the total fund value at market.	•		

Fixed Income Compliance:	Yes	No	N/A
Total domestic fixed income return equaled or exceed the benchmark over the trailing three and five year periods.			•
Total domestic fixed income return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.			•
Total global fixed income return equaled or exceed the benchmark over the trailing three and five year periods.			•
Total global fixed income return ranked within the top 50th percentile of its peer group over the trailing three and five year periods.			•
Investments in all corporate fixed income securities shall be limited to those securities rated investment grade or higher by a major rating agency.	•		



	Atlanta*			Glenmede			Clearbridge**			ABernstein**			DRZ		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
Manager outperformed the index over the trailing three and five year periods.		•			•			•			•			•	
Manager ranked within the top 50%-tile over trailing three and five year periods.		•		•			•			•			•		
Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•			•			•		
Manager maintained style consistency for the mandate	•			•			•			•			•		
Manager maintained low turnover in portfolio team or senior management.	•			•			•			•			•		
Benchmark and index remained the same for the portfolio.	•			•			•			•			•		
Manager sustained compliance with IPS.	•			•			•			•			•		
No investigation by SEC was conducted on the manager.	•			•			•			•			•		
Manager did not experience significant asset flows into or out of the company.	•			•			•			•			•		
Manager is charging the same fee.	•			•			•			•			•		
No reported servicing issues with manager.	•			•			•			•			•		
No merger or sale of the firm	•			•			•			•			•		
No failure to attain 60% vote of confidence by the board	•			•			•			•			•		

	Paradigm			Congress**			JPM MC			Mesirow**			Sawgrass**			MFS		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
Manager outperformed the index over the trailing three and five year periods.		•			•			•			•			•		•		
Manager ranked within the top 50%-tile over trailing three and five year periods.		•			•		•				•			•		•		
Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•			•			•			•		
Manager maintained style consistency for the mandate	•			•			•			•			•			•		
Manager maintained low turnover in portfolio team or senior management.	•			•			•			•			•			•		
Benchmark and index remained the same for the portfolio.	•			•			•			•			•			•		
Manager sustained compliance with IPS.	•			•			•			•			•			•		
No investigation by SEC was conducted on the manager.	•			•			•			•			•			•		
Manager did not experience significant asset flows into or out of the company.	•			•			•			•			•			•		
Manager is charging the same fee.	•			•			•			•			•			•		
No reported servicing issues with manager.	•			•			•			•			•			•		
No merger or sale of the firm	•			•			•			•			•			•		
No failure to attain 60% vote of confidence by the board	•			•			•			•			•			•		

*Only 3 year data is available

**The 3 & 5 year periods used for evaluation represent the historical performance of composite portfolios. As such, this data represents a combination of current managers, strategies and allocations as well as the realized performance of terminated portfolios and prior allocation strategies.



	Oakmark			AmerCent**			JohnHan			MetWest			JPM Core+*			TGB		
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A
Manager outperformed the index over the trailing three and five year periods.		•		•			•			•			•			•		
Manager ranked within the top 50%-tile over trailing three and five year periods.	•			•			•			•			•			•		
Less than four consecutive quarters of under performance relative to the benchmark.	•			•			•			•			•			•		
Manager maintained style consistency for the mandate	•			•			•			•			•			•		
Manager maintained low turnover in portfolio team or senior management.	•			•			•			•			•			•		
Benchmark and index remained the same for the portfolio.	•			•			•			•			•			•		
Manager sustained compliance with IPS.	•			•			•			•			•			•		
No investigation by SEC was conducted on the manager.	•			•			•			•			•			•		
Manager did not experience significant asset flows into or out of the company.	•			•			•			•			•			•		
Manager is charging the same fee.	•			•			•			•			•			•		
No reported servicing issues with manager.	•			•			•			•			•			•		
No merger or sale of the firm	•			•			•			•			•			•		
No failure to attain 60% vote of confidence by the board	•			•			•			•			•			•		

*Only 3 year data is available

**The 3 & 5 year periods used for evaluation represent the historical performance of composite portfolios. As such, this data represents a combination of current managers, strategies and allocations as well as the realized performance of terminated portfolios and prior allocation strategies.



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