Investment Performance Review Period Ending June 30, 2018

# Palm Beach Gardens Police Pension Plan



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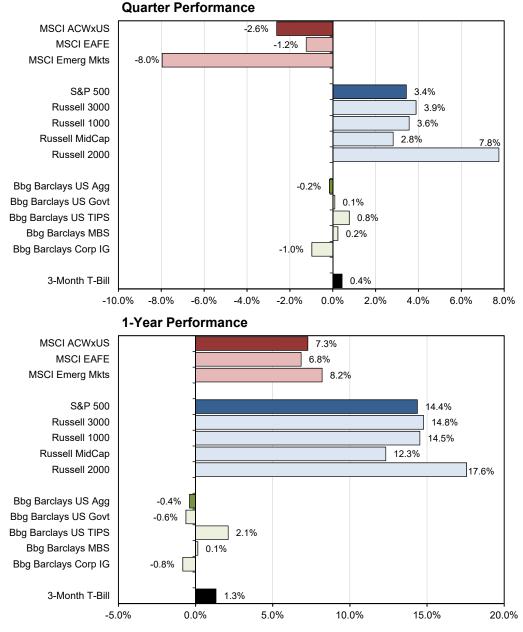
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2nd Quarter 2018 Market Environment



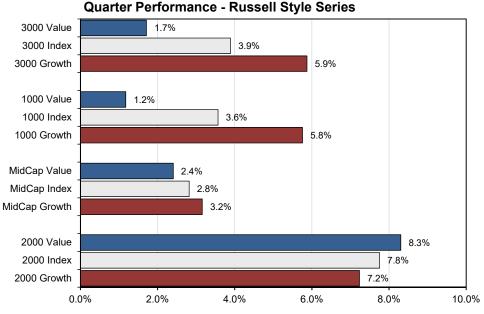
- Market returns were mixed across major equity and fixed income indices for the 2nd quarter of 2018. Broad domestic equity indices had healthy gains as supportive economic and corporate earnings data, helped by a fiscal stimulus tailwind resulting from the Republican Party led tax reform passed in late 2017, continued to push domestic stocks higher. International indices did not fare as well during the period, posting negative returns in US dollar (USD) terms, as markets were hurt by relatively soft economic data, geopolitical concerns and a strengthening USD. Fixed income returns were somewhat flat for the quarter with the various sector segments producing minor gains or losses. Despite the Federal Reserve's (Fed) ongoing tightening of monetary policy and the potential for global trade disruptions resulting from Trump administration protectionist trade policies, economic momentum in the US continued to fuel investor demand for domestic equities. The US stock market represented by the Russell 3000 Index returned 3.9% and 14.8% for the quarter and 1-year period respectively.
- International equity posted negative returns for the quarter with emerging markets stocks falling the greatest degree. The developed market MSCI EAFE Index lost -1.2% as macroeconomic data abroad, while still signaling a continuation in global growth, appeared to slow throughout the quarter. International markets were also affected by investor concerns surrounding ongoing political developments in various countries and continued uncertainty around the outlook for global trade relations. International market returns also faced a currency effect headwind as the USD appreciated against most other currencies during the period. This combination of factors had the greatest influence on emerging market equities with the MSCI Emerging Markets Index posting a sharp decline of -8.0%. One-year returns remain broadly positive with the MSCI EAFE and MSCI Emerging Markets indices returning 6.8% and 8.2% respectively.
- Interest rates on the US Treasury Yield Curve rose across all maturities during the 2nd quarter. The increase in interest rates was most pronounced in short-term maturities resulting in further flattening of the yield curve. The relatively large increase at the short-end of the curve was partially due to the Feds decision to tighten monetary policy by increasing short-term interest rates for the second time this year during their June meeting. Also significant was the change in the Fed's forecasted schedule for interest rate increases, which now projects two potential additional rate increases in 2018, where it had previously forecast just one. The broad market Bloomberg Barclays US Aggregate Index was modestly negative for both the 2nd quarter and the 1-year time period, returning -0.2% and -0.4% respectively. Corporate issues were the worst performing investment grade sector during the quarter, returning -1.0% as credit spreads continued to widen through 2018.



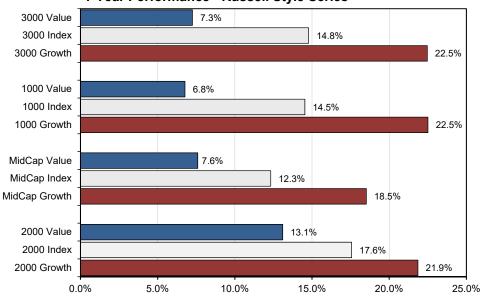
## Source: Investment Metrics

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- US equity index returns were positive across the style and capitalization spectrum during the 2nd guarter of 2018. Markets were encouraged by the ongoing strength in US economic data and corporate earnings. Positive data releases in unemployment, retail sales, consumer consumption, GDP and investor sentiment highlighted the continued health of the US economy. Additionally, Q1 2018 corporate earnings announced throughout the period grew at an impressive rate as corporate profits were beneficiaries of the late 2017 Republican Party tax reforms. Returns for the period were tempered by global trade uncertainty as tariffs on steel and aluminum imported from Canada, Mexico and the European Union took effect with the possibility of additional tariffs aimed at China and foreign auto producers being considered. The Trump administration also announced the US withdrawal from the Iran nuclear accord, proposing new sanctions, which could disrupt oil markets in the future, and made progress toward a denuclearization deal with North Korea.
- During the guarter, small cap stocks outperformed mid and large cap equities for style and core indices. This is partially due to the increased tax reform benefit small cap companies will receive relative to large caps. Small cap stocks have historically paid higher taxes relative to large cap companies since they typically generate more of their revenue in the US. More globally oriented large caps also faced a considerable headwind from the recent USD strength. Large cap companies generate more revenue outside of the US and an appreciating USD makes US exports more expensive to foreign consumers. The small cap Russell 2000 Index returned 7.8% during the period, while the large cap Russell 1000 Index returned 3.6%. Small caps also outperformed over the 1-year period with the Russell 2000 returning 17.6% over the trailing vear while the Russell 1000 posted a return of 14.5%.
- Style index performance was mixed during the guarter with growth companies outperforming in large- and mid-cap, but value stocks outperforming in the small-cap space. The Russell 2000 Value Index was the best performing style index for the period returning a notable 8.3% for the quarter. Returns over the trailing year continue to show significant outperformance of growth indices relative to their value counterparts with the return of the Russell 1000 Growth Index more than tripling the return of the Russell 1000 Value Index. 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, utilities and telecom.



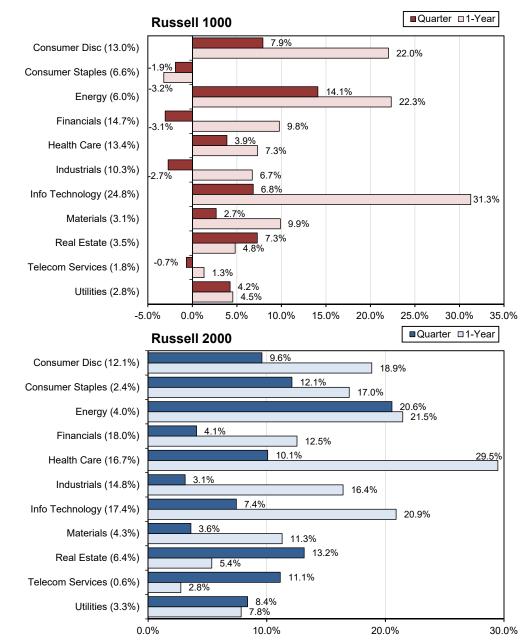






Source: Investment Metrics

- Sector performance was mixed across large cap sectors for the 2nd quarter of 2018. Seven of eleven sectors had positive returns for the quarter and six of eleven economic sectors outpaced the Russell 1000 Index return. Energy was the best performing sector during the guarter, returning 14.1%, as an OPEC announced increase in crude oil production was overshadowed by supply concerns in Iran, Venezuela and Libya, resulting in considerably higher oil prices. The consumer discretionary sector also performed well on the back of strong retail sales and increased consumer spending, gaining 7.9% for the period. Technology stocks continued their climb, returning 6.8% over the quarter. Technology names now account for nearly 25% of the market cap of the Russell 1000 Index. The largest detractors for the guarter were the financials, industrials and consumer staples sectors which returned -3.1%, -2.7% and -1.9% respectively. Over the trailing 1-year period, technology was the best performing sector by a relatively wide margin returning an impressive 31.3% and the consumer discretionary and energy sectors also posted returns greater than 20%. Ten of eleven large cap economic sectors posted positive returns for the 1-year period with consumer staples being the only sector to post negative performance, returning -3.2%.
- Quarterly results for small cap sectors were higher relative to their large capitalization counterparts. All sectors had positive returns during the period with seven of eleven economic sectors outpacing the Russell 2000 Index return for the guarter. Like the large cap index sector performance, industrials and financials were relative underperformers for the 2nd quarter. Financials were hurt by a flattening yield curve and concerns over global trade weighed on industrials. Quarterly performance on industrials and financials was 3.1% and 4.1% respectively. Energy was the best performing sector in the Russell 2000 as well, returning a notable 20.6%. However, there were several differences, particularly in consumer staples and telecom where there was significant outperformance relative to their large cap counterparts. Small cap sectors beat large cap sectors in those two categorizations by over 10.0% during the guarter. 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 29.5%. Energy and technology also posted returns over 20% for the 1-year period.
- Using S&P 500 sector valuations as a proxy for the market, forward P/E ratios for six 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 telecommunications, 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 June 30, 2018

Top 10 Weighted Stocks					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	
Apple Inc	3.53%	10.8%	30.5%	Information Technology	
Microsoft Corp	2.89%	8.5%	45.8%	Information Technology	
Amazon.com Inc	2.68%	17.4%	75.6%	Consumer Discretionary	
Facebook Inc A	1.79%	21.6%	28.7%	Information Technology	
Berkshire Hathaway Inc B	1.40%	-6.4%	10.2%	Financials	
JPMorgan Chase & Co	1.37%	-4.8%	16.5%	Financials	
Exxon Mobil Corp	1.36%	12.0%	6.6%	Energy	
Alphabet Inc C	1.32%	8.1%	22.8%	Information Technology	
Alphabet Inc A	1.31%	8.9%	21.5%	Information Technology	
Johnson & Johnson	1.26%	-4.6%	-5.8%	Health Care	

Top 10 Performing Stocks (by Quarter)					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	
Sarepta Therapeutics Inc	0.03%	78.4%	292.1%	Health Care	
Wayfair Inc Class A	0.03%	75.9%	54.5%	Consumer Discretionary	
Chesapeake Energy Corp	0.02%	73.5%	5.4%	Energy	
Whiting Petroleum Corp	0.02%	55.8%	139.2%	Energy	
Twitter Inc	0.12%	50.5%	144.4%	Information Technology	
Advanced Micro Devices Inc	0.05%	49.2%	20.1%	Information Technology	
Exact Sciences Corp	0.03%	48.3%	69.0%	Health Care	
Under Armour Inc C	0.02%	46.9%	4.6%	Consumer Discretionary	
Twilio Inc A	0.02%	46.7%	92.4%	Information Technology	
Weatherford International PLC	0.01%	43.7%	-15.0%	Energy	

Bottom 10 Performing Stocks (by Quarter)					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	
Nektar Therapeutics Inc	0.03%	-54.0%	149.8%	Health Care	
Alkermes PLC	0.02%	-29.0%	-29.0%	Health Care	
CommScope Holding Co Inc	0.02%	-26.9%	-23.2%	Information Technology	
American Airlines Group Inc	0.06%	-26.8%	-23.9%	Industrials	
Arconic Inc	0.03%	-25.9%	-24.1%	Industrials	
Copa Holdings SA Class A	0.01%	-25.9%	-17.0%	Industrials	
First Solar Inc	0.02%	-25.8%	32.0%	Information Technology	
ManpowerGroup Inc	0.02%	-24.4%	-21.5%	Industrials	
Switch Inc Class A	0.00%	-23.3%	N/A	Information Technology	
Skechers USA Inc	0.02%	-22.8%	1.7%	Consumer Discretionary	

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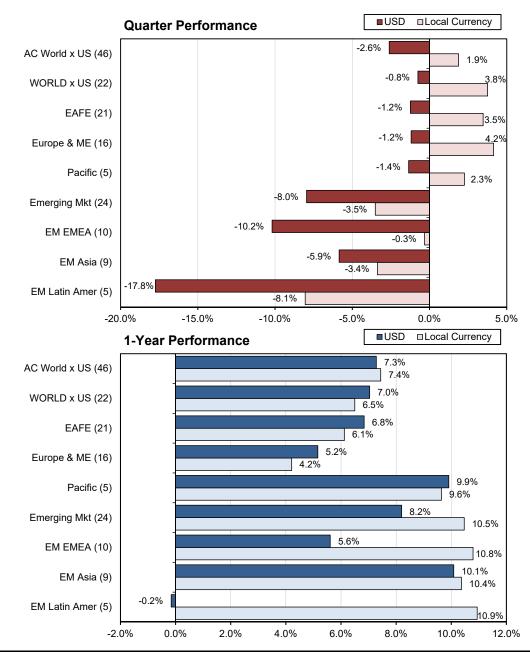
Top 10 Weighted Stocks						
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector		
Five Below Inc	0.24%	33.2%	97.9%	Consumer Discretionary		
Etsy Inc	0.23%	50.4%	181.3%	Information Technology		
Blackbaud Inc	0.22%	0.8%	20.1%	Information Technology		
LivaNova PLC	0.22%	12.8%	63.1%	Health Care		
Haemonetics Corp	0.22%	22.6%	127.1%	Health Care		
Entegris Inc	0.22%	-2.4%	55.4%	Information Technology		
FibroGen Inc	0.21%	35.5%	93.8%	Health Care		
Idacorp Inc	0.21%	5.2%	10.9%	Utilities		
Medidata Solutions Inc	0.21%	28.3%	3.0%	Health Care		
Loxo Oncology Inc	0.21%	50.4%	116.3%	Health Care		

Top 10 Performing Stocks (by Quarter)						
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector		
Turtle Beach Corp	0.01%	746.8%	625.7%	Consumer Discretionary		
Solid Biosciences Inc	0.01%	375.1%	N/A	Health Care		
Tandem Diabetes Care Inc	0.04%	344.0%	175.2%	Health Care		
Intelsat SA	0.03%	343.1%	444.4%	Telecommunication Services		
Evolus Inc	0.01%	210.0%	N/A	Health Care		
California Resources Corp	0.09%	165.0%	431.5%	Energy		
TransEnterix Inc	0.03%	156.5%	514.1%	Health Care		
Penn Virginia Corp	0.05%	142.3%	131.0%	Energy		
Regenxbio Inc	0.09%	140.4%	263.3%	Health Care		
Madrigal Pharmaceuticals Inc	0.07%	139.5%	1620.1%	Health Care		

Bottom 10 Performing Stocks (by Quarter)					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector	
Arsanis Inc	0.00%	-84.1%	N/A	Health Care	
Menlo Therapeutics Inc	0.00%	-78.4%	N/A	Health Care	
Jounce Therapeutics Inc	0.01%	-65.7%	-45.4%	Health Care	
Prothena Corp PLC	0.03%	-60.3%	-73.1%	Health Care	
Biglari Holdings Inc	0.01%	-55.1%	-54.1%	Consumer Discretionary	
Catalyst Biosciences Inc	0.01%	-54.8%	151.0%	Health Care	
Recro Pharma Inc	0.00%	-54.4%	-28.6%	Health Care	
scPharmaceuticals Inc	0.00%	-54.4%	N/A	Health Care	
Agenus Inc	0.01%	-51.8%	-41.9%	Health Care	
Syndax Pharmaceuticals Inc	0.00%	-50.7%	-49.7%	Health Care	



- Broad international equity returns were mixed for the quarter. Many developed markets were positive in local currency terms, but negative in USD terms whereas emerging markets posted negative returns in both local currency and USD. Performance was largely driven by the same catalysts as the US equity markets with global macroeconomic data remaining generally positive, but returns being tempered by global trade tensions and ongoing political uncertainty. A strengthening USD caused by 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 1.9% in local currency terms, but lost -2.6% in USD terms during the second quarter. Returns over the 1-year period remain positive in both local currency and USD terms with the MSCI ACWI ex US returning 7.4% and 7.3% respectively.
- Second quarter results for developed market international indices were generally positive in local currency terms with the MSCI EAFE Index returning 3.5%. However, an appreciating USD pushed returns for US investors into negative territory, with the index returning -1.2% in USD terms. Developed markets were pushed higher by broadly positive, but slowing, global economic and earnings data despite several significant political events in Europe during the guarter. There was considerable volatility surrounding the formation of a coalition government in Italy which called into question Italy's future as part of the European Union. Spain also had a change in leadership after a political fundraising scandal led to a vote of no-confidence in Prime Minister Rajoy, forcing him to step down. World markets also reacted to the implementation of new tariffs on US imports of steel and aluminum and the possibility of new tariffs in the future, including tariffs on auto imports, which would negatively affect producers in Europe and Japan. The MSCI EAFE Index returned 6.1% and 6.8% for the last twelve months in local currency and USD terms respectively.
- Emerging markets trailed developed markets for the 2nd quarter, posting losses in local currency terms that were then intensified by the strengthening USD. The MSCI Emerging Markets Index returned -3.5% and -8.0% in local currency and USD terms respectively. The main factors affecting emerging markets were the threat of continued protectionist trade policies from the US creating uncertainty for export focused economies and 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. One year returns for the MSCI Emerging Market Index were 10.5% in local currency terms and 8.2% in USD terms.





MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	12.4%	-2.6%	10.9%
Consumer Staples	11.3%	0.4%	3.1%
Energy	6.1%	11.2%	35.8%
Financials	19.8%	-6.2%	-0.5%
Health Care	10.7%	1.9%	1.7%
Industrials	14.3%	-2.2%	7.3%
Information Technology	6.8%	-0.2%	15.0%
Materials	8.2%	0.7%	16.7%
Real Estate	3.5%	-0.4%	7.8%
Telecommunication Services	3.6%	-4.8%	-6.3%
Utilities	3.3%	0.5%	5.2%
Total	100.0%	-1.2%	6.8%

MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	11.2%	-3.5%	8.4%
Consumer Staples	9.7%	-0.7%	2.9%
Energy	7.4%	7.3%	27.5%
Financials	21.9%	-7.3%	1.7%
Health Care	8.1%	1.4%	3.2%
Industrials	11.7%	-2.7%	5.9%
Information Technology	11.9%	-2.9%	15.5%
Materials	8.2%	-0.4%	16.1%
Real Estate	3.2%	-3.0%	6.9%
Telecommunication Services	3.7%	-6.0%	-6.3%
Utilities	3.0%	-1.5%	3.8%
Total	100.0%	-2.6%	7.3%

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	9.8%	-7.1%	-0.2%
Consumer Staples	6.7%	-6.2%	3.3%
Energy	7.2%	-4.7%	24.9%
Financials	22.8%	-12.7%	5.5%
Health Care	3.2%	-5.0%	22.4%
Industrials	5.2%	-11.2%	-5.9%
Information Technology	27.9%	-5.1%	15.2%
Materials	7.6%	-5.5%	14.0%
Real Estate	3.0%	-11.2%	5.6%
Telecommunication Services	4.3%	-9.7%	-7.5%
Utilities	2.4%	-8.1%	2.2%
Total	100.0%	-8.0%	8.2%

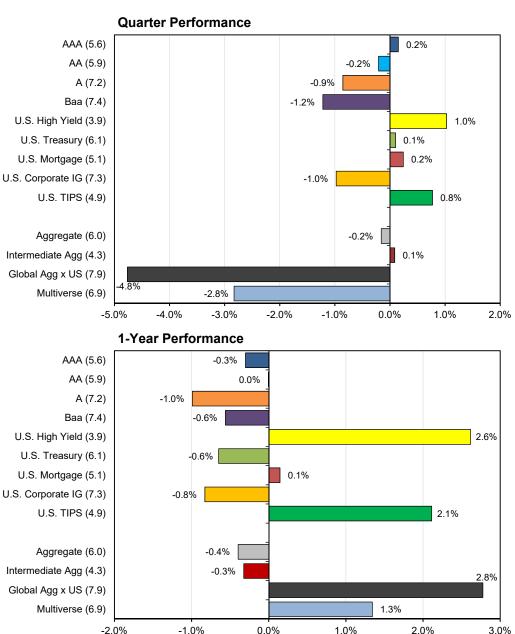
	MSCI-EAFE	MSCI-ACWIxUS	Quarter	1- Year
Country	Weight	Weight	Return	Return
Japan	24.0%	16.4%	-2.8%	10.5%
United Kingdom	18.0%	12.3%	3.0%	10.0%
France	11.0%	7.5%	-0.5%	9.9%
Germany	9.5%	6.5%	-4.0%	2.6%
Switzerland	7.8%	5.3%	-2.7%	-3.4%
Australia	7.0%	4.8%	5.2%	8.7%
Hong Kong	3.6%	2.5%	-1.2%	9.2%
Netherlands	3.6%	2.5%	-1.8%	9.2%
Spain	3.1%	2.1%	-4.4%	-3.6%
Sweden	2.6%	1.8%	-3.7%	-4.6%
taly	2.4%	1.7%	-7.3%	8.4%
Denmark	1.7%	1.1%	-7.0%	0.9%
Singapore	1.3%	0.9%	-7.5%	7.9%
Belgium	1.1%	0.7%	-6.0%	1.7%
Finland	1.0%	0.7%	1.3%	10.4%
Norway	0.7%	0.5%	2.3%	27.1%
reland	0.6%	0.4%	2.0%	5.3%
srael	0.5%	0.4%	10.9%	-4.6%
Austria	0.2%	0.2%	-10.6%	8.9%
New Zealand	0.2%	0.2%	5.8%	1.7%
Portugal	0.2%	0.1%	1.2%	15.8%
Total EAFE Countries	100.0%	68.4%	-1.2%	6.8%
Canada		6.6%	4.7%	9.1%
Total Developed Countries		75.0%	-0.8%	7.0%
China		8.2%	-3.5%	21.2%
Korea		3.7%	-9.2%	3.4%
Taiwan		2.9%	-6.3%	3.9%
ndia		2.2%	-0.6%	6.5%
South Africa		1.6%	-11.9%	6.4%
Brazil		1.5%	-26.4%	-0.3%
Russia		0.9%	-6.0%	26.0%
Vexico		0.7%	-3.6%	-9.3%
Malaysia		0.6%	-11.4%	5.6%
Fhailand		0.5%	-15.0%	12.0%
ndonesia		0.5%	-12.5%	-13.1%
Chile		0.3%	-11.5%	12.5%
Poland		0.3%	-11.6%	-6.2%
Philippines		0.2%	-11.2%	-13.9%
Qatar		0.2%	3.5%	3.5%
Furkev		0.2%	-25.9%	-26.3%
Jnited Arab Emirates		0.2%	-4.4%	-6.0%
Colombia		0.1%	6.7%	20.1%
Peru		0.1%	-3.2%	30.7%
Greece		0.1%	-2.2%	-9.2%
lungary		0.1%	-14.4%	-0.6%
Czech Republic		0.0%	-5.4%	19.4%
Egypt		0.0%	-8.1%	1.9%
Pakistan		0.0%	-20.8%	-30.3%
Total Emerging Countries		25.0%	-8.0%	8.2%
Total ACWIxUS Countries		100.0%	-2.6%	7.3%



The Market Environment

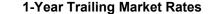


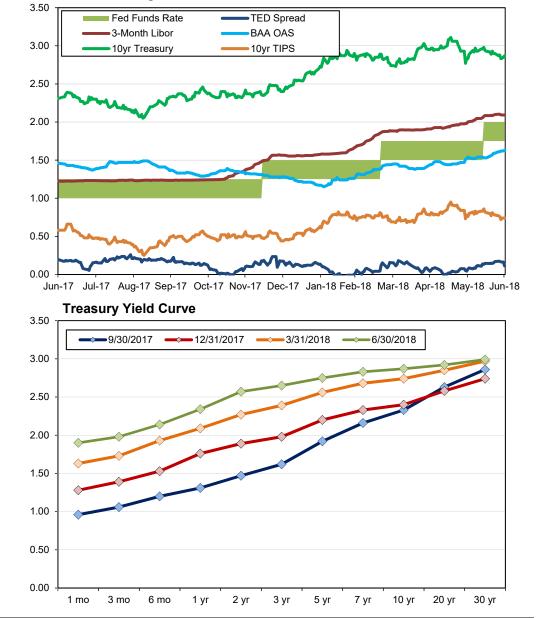
- Broad fixed income benchmarks had mixed results during the 2nd quarter. Interest rates rose across all maturities on the US Treasury Yield Curve. Early in the guarter, rates rose as positive economic data and signs of higher inflation increased investor expectations for another Fed interest rate hike. However, volatility caused by ongoing geopolitical developments later in the quarter led to an increase in risk aversion and demand for relatively safe assets, driving rates lower through the rest of the guarter. Interest rates on the 10-year Treasury reached a near-term high of 3.11% in mid-May before falling to end the quarter at 2.87%. As expected, the Federal Open Market Committee (FOMC), decided to increase short-term interest rates by 25 basis points at their June meeting. This is the second rate hike of 2018. The current Fed Funds Rate target range sits at 1.75%-2.00%. The FOMC also updated their forecast for future rate increases, now expecting two potential additional hikes in 2018 and three in 2019. The yield curve continued to flatten through the guarter as short-term yields rose at a greater rate than longer-term yields. The difference in yields between the 2-year and 10-year Treasury now sits at just 0.3%. The Fed is also continuing to reduce 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 relatively flat during the guarter, falling -0.2%. It was also negative for the 1-year period returning -0.4%.
- Within investment grade credit, higher quality corporate issues outperformed lower quality issues for the quarter as credit spreads widened and investors looked for safety amid increased financial market volatility. On an absolute basis, without negating the duration differences in the sub-indices, AAA rated credit was the best performing investment grade credit quality segment returning 0.2% for the quarter. High yield debt outperformed relative to investment grade credit, returning 1.0%, as spreads widened to a lesser degree for these issues and the index benefitted from its lower duration. Part of the reason for the increased spread widening for investment grade issues relative to high yield issues was continued selling pressure from companies repatriating foreign cash reserves in response to the new tax code and lower demand from foreign investors due to increased hedging costs and a stronger USD.
- Of the Bloomberg Barclays US Aggregate Index's three broad sectors, US mortgage backed securities (MBS) were the best performing investment grade sector through the quarter, narrowly outperforming US Treasuries. Corporate credit underperformed as credit spreads widened and investors reacted to market volatility by moving into higher quality issues. Higher durations relative to other index sectors also acted as a headwind to these issues. The Bloomberg Barclays US Corporate IG Index returned -1.0%. While TIPS were also positive, it is important to note these Treasury issues are not part of the Bloomberg Barclays US Aggregate Index.





- Relative to their domestic counterparts, global fixed income indices underperformed during the guarter. The relatively high duration of these indices acted as a headwind to performance in the current guarter 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 2nd 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 -4.8% for the guarter. However, when viewed over the trailing year, global issues have outperformed domestic securities, returning 2.8%. As the global economy continues to recover, several international central banks have started to move toward less accommodative postures. Notably, the ECB, is planning 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. In contrast, the Bank of Japan will continue current stimulus programs and the Bank of England backed away from a telegraphed interest rate hike after disappointing economic data led them to lower their forecasts for future growth.
- 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 significantly during the first half of the 2nd quarter, rising to a near-term high of 3.11% before falling to 2.87% to end the period. 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. This increase is equivalent to an interest rate increase on corporate bonds, which produces an additional headwind for corporate bond index returns. These credit spreads have widened by about 17 basis points over the last 3-months. The green band across the graph illustrates the gradual increase in the Federal Funds Rate (three 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 both the 2nd quarter and the last twelve months.







Total Fund Compliance:	Yes	No
The total plan return equaled or exceeded the total plan benchmark over the trailing three year period.		•
The total plan return equaled or exceeded the total plan benchmark over the trailing five year period.		•
The total plan return of the fund over the trailing three year period equaled or exceeded 6.7% (actuarial assumption rate of return).	•	
The three year total plan return ranks in the top 40% of its peer group.	•	
The five year total plan return ranks in the top 40% of its peer group.	•	

Total Equity Compliance:	Yes	No
The equity return equaled or exceeded the benchmark over the trailing three year period.		•
The equity return equaled or exceeded the benchmark over the trailing five year period.		•

Rhumbline S&P 500	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.		•
The return equaled or exceeded the benchmark over the trailing five year period.		•
The three year return ranks in the top 40% of its peer group.	•	
The five year return ranks in the top 40% of its peer group.		•

Rhumbline S&P 400	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.		•
The return equaled or exceeded the benchmark over the trailing five year period.		•
The three year return ranks in the top 40% of its peer group.	•	
The five year return ranks in the top 40% of its peer group.		•



Rhumbline S&P 600	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.	•	
The return equaled or exceeded the benchmark over the trailing five year period.	•	
The three year return ranks in the top 40% of its peer group.	•	
The five year return ranks in the top 40% of its peer group.	•	

Highland LCG	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.		•
The return equaled or exceeded the benchmark over the trailing five year period.		•
The three year return ranks in the top 40% of its peer group.		•
The five year return ranks in the top 40% of its peer group.		•

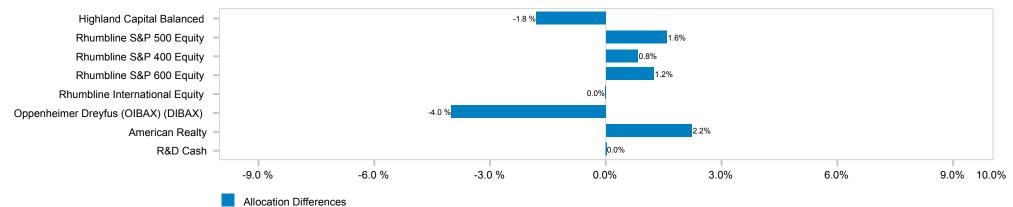
Rhumbline International Equity	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period. (one year)		•
The return equaled or exceeded the benchmark over the trailing five year period. (Inception)		•
The three year return ranks in the top 40% of its peer group. (one year)		•
The five year return ranks in the top 40% of its peer group. (Inception)	•	

Fixed Income Compliance:	Yes	No
The fixed income return equaled or exceeded the benchmark over the trailing three year period.	•	
The fixed income return equaled or exceeded the benchmark over the trailing five year period.	•	

Highland Fixed Income	Yes	No
The return equaled or exceeded the benchmark over the trailing three year period.	•	
The return equaled or exceeded the benchmark over the trailing five year period.	•	
The three year return ranks in the top 40% of its peer group.	•	
The five year return ranks in the top 40% of its peer group.		•



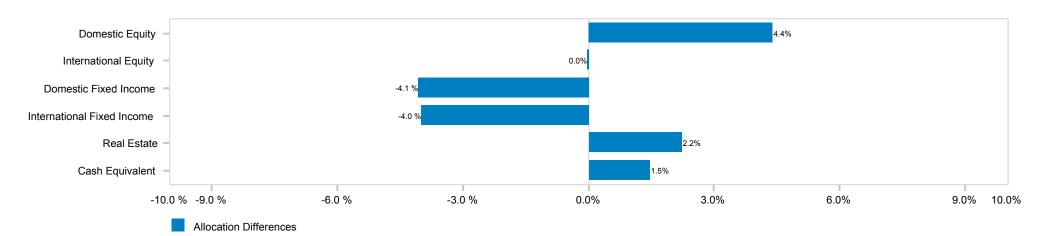
	Asset Allocation ¢	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund Composite	93,684,867	100.0	100.0	0.0	-
Highland Capital Balanced	29,688,911	31.7	33.5	-1.8	1,695,519
Rhumbline S&P 500 Equity	24,889,667	26.6	25.0	1.6	-1,468,450
Rhumbline S&P 400 Equity	10,138,579	10.8	10.0	0.8	-770,092
Rhumbline S&P 600 Equity	10,518,545	11.2	10.0	1.2	-1,150,059
Rhumbline International Equity	9,333,801	10.0	10.0	0.0	34,686
Oppenheimer Dreyfus (OIBAX) (DIBAX)	-	0.0	4.0	-4.0	3,747,395
American Realty	9,115,356	9.7	7.5	2.2	-2,088,991
R&D Cash	8	0.0	0.0	0.0	-8

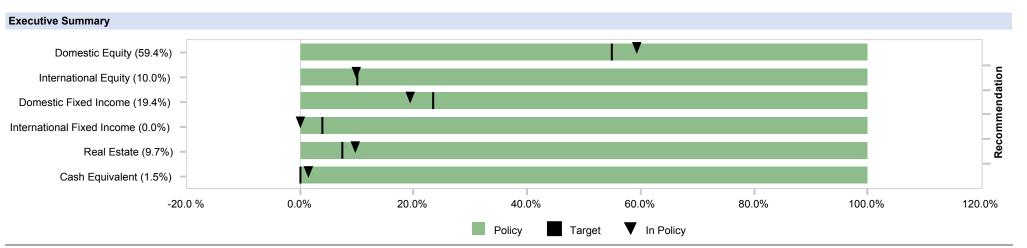






Asset Allocation Compliance					
	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	55,653,505	59.4	55.0	4.4	-4,126,828
International Equity	9,333,801	10.0	10.0	0.0	34,686
Domestic Fixed Income	18,208,270	19.4	23.5	-4.1	3,807,674
International Fixed Income	-	0.0	4.0	-4.0	3,747,395
Real Estate	9,115,356	9.7	7.5	2.2	-2,088,991
Cash Equivalent	1,373,936	1.5	0.0	1.5	-1,373,936
Total Fund	93,684,867	100.0	100.0	0.0	-





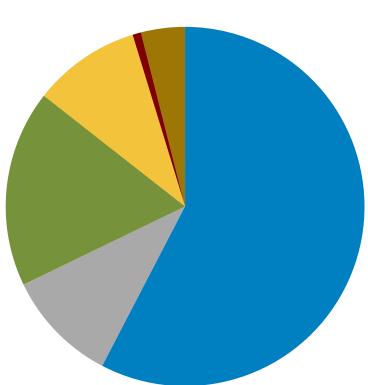


**Asset Allocation Summary Total Fund Composite** As of June 30, 2018

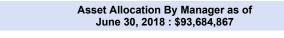
Asset Allocation By Segment as of March 31, 2018 : \$92,342,040 Asset Allocation By Segment as of June 30, 2018 : \$93,684,867

llocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
Domestic Equity	53,222,648	57.6	Domestic Equity	55,653,505	59.4
International Equity	9,421,156	10.2	International Equity	9,333,801	10.0
Domestic Fixed Income	16,374,701	17.7	Domestic Fixed Income	18,208,270	19.4
Real Estate	8,953,379	9.7	Real Estate	9,115,356	9.7
Cash Equivalent	708,942	0.8	Cash Equivalent	1,373,936	1.5
International Fixed Income	3,661,214	4.0	International Fixed Income	-	0.0

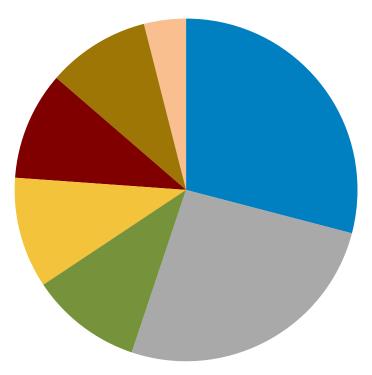




Asset Allocation Summary Total Fund Composite As of June 30, 2018



Asset Allocation By Manager as of March 31, 2018 : \$92,342,040



ocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Highland Capital Balanced	26,845,835	29.1	Highland Capital Balanced	29,688,911	31.7
Rhumbline S&P 500 Equity	24,065,557	26.1	Rhumbline S&P 500 Equity	24,889,667	26.6
Rhumbline S&P 400 Equity	9,723,834	10.5	Rhumbline S&P 600 Equity	10,518,545	11.2
Rhumbline S&P 600 Equity	9,671,057	10.5	Rhumbline S&P 400 Equity	10,138,579	10.8
Rhumbline International Equity	9,421,156	10.2	Rhumbline International Equity	9,333,801	10.0
American Realty	8,953,379	9.7	American Realty	9,115,356	9.7
Oppenheimer Dreyfus (OIBAX) (DIBAX)	3,661,214	4.0	R&D Cash	8	0.0
R&D Cash	8	0.0	Oppenheimer Dreyfus (OIBAX) (DIBAX)	-	0.0



Asset Allocation & Performance																
	Allo	ocation								Perfo	ormance	e(%)				
	Market Value \$	%	Q	TR	FY	TD	1`	YR	3 `	YR	5	YR	Ince	ption	МТН	Inception Date
Total Fund Composite	93,684,867	100.0	2.69	(5)	6.77	(8)	10.73	(7)	8.48	(6)	9.79	(4)	7.98	(47)	0.43 (7)	04/01/1992
Total Fund Policy Index			2.49	(8)	6.49	(11)	10.34	(10)	8.68	(5)	9.53	(7)	N/A		0.34 (10)	
Difference			0.20		0.28		0.39		-0.20		0.26		N/A		0.09	
All Public Plans-Total Fund Median			1.24		4.78		8.53		6.90		8.14		7.92		-0.01	
Total Equity Composite	64,987,305	69.4	4.06		9.73		15.06		11.07		12.91		6.08		0.45	07/01/2000
Total Equity Policy Index			4.07		9.98		15.38		11.61		13.02		5.93		0.44	
Difference			-0.01		-0.25		-0.32		-0.54		-0.11		0.15		0.01	
Total Domestic Equity																
Rhumbline S&P 500 Equity	24,889,667	26.6	3.42	(42)	9.44	(48)	14.35	(49)	11.87	(38)	13.37	(48)	5.70	(82)	0.61 (38)	07/01/2000
S&P 500 Index			3.43	(41)	9.47	(47)	14.37	(48)	11.93	(37)	13.42	(46)	5.58	(87)	0.62 (37)	
Difference			-0.01		-0.03		-0.02		-0.06		-0.05		0.12		-0.01	
IM U.S. Large Cap Equity (SA+CF) Median			3.00		9.22		14.13		11.12		13.30		6.94		0.35	
Rhumbline S&P 400 Equity	10,138,579	10.8	4.27	(30)	9.93	(50)	13.48	(56)	10.86	(39)	12.66	(56)	10.44	(61)	0.41 (50)	01/01/2004
S&P MidCap 400 Index			4.29	(28)	9.96	(49)	13.50	(55)	10.89	(38)	12.69	(54)	10.37	(66)	0.42 (48)	
Difference			-0.02		-0.03		-0.02		-0.03		-0.03		0.07		-0.01	
IM U.S. Mid Cap Equity (SA+CF) Median			3.19		9.92		13.84		10.10		12.79		10.79		0.40	
Rhumbline S&P 600 Equity	10,518,545	11.2	8.76	(25)	13.68	(32)	20.46	(34)	13.82	(20)	14.60	(27)	10.94	(38)	1.13 (36)	01/01/2004
S&P SmallCap 600 Index			8.77	(25)	13.72	(32)	20.50	(33)	13.84	(20)	14.60	(27)	10.88	(40)	1.13 (35)	
Difference			-0.01		-0.04		-0.04		-0.02		0.00		0.06		0.00	
IM U.S. Small Cap Equity (SA+CF) Median			6.93		10.81		16.75		11.38		13.17		10.45		0.77	
Highland Capital LCG	10,106,713	10.8	5.62	(45)	14.70	(52)	21.56	(50)	11.65	(73)	14.65	(67)	9.19	(59)	1.00 (39)	10/01/2007
Russell 1000 Growth Index			5.76	(41)	15.69	(44)	22.51	(43)	14.98	(27)	16.36	(40)	9.90	(39)	0.96 (41)	
Difference			-0.14		-0.99		-0.95		-3.33		-1.71		-0.71		0.04	
IM U.S. Large Cap Growth Equity (SA+CF) Median			5.24		14.82		21.56		13.45		15.62		9.59		0.67	
International Equity																
Rhumbline International Equity	9,333,801	10.0	-0.93	(26)	1.35	(53)	6.90	` '	N/A		N/A		10.39	• •	-1.24 (28)	08/01/2016
MSCI EAFE Index			-0.97	(26)	1.81	(48)	7.37	(58)	5.41	(68)		(63)	11.63	(63)	-1.19 (26)	
Difference			0.04		-0.46		-0.47		N/A		N/A		-1.24		-0.05	
IM International Equity (SA+CF) Median			-2.53		1.63		8.23		6.44		7.69		12.93		-2.25	



**Total Fund Composite (Gross)** 

	Allo								Perfo	rmance	e(%)						
	Market Value \$	%	Q	ſR	FY	TD	1 \	YR	3 \	′R	5`	ΥR	Ince	ption	M	тн	Inception Date
Total Fixed Income Composite	18,208,270	19.4	-1.33		-1.48		-0.15		2.22		2.34		5.19		-0.45		04/01/1994
Total Fixed Inc Policy Index			-0.71		-1.01		0.02		1.96		2.15		5.24		-0.16		
Difference			-0.62		-0.47		-0.17		0.26		0.19		-0.05		-0.29		
Domestic Fixed Income																	
Highland Capital Fixed Income	18,208,270	19.4	-0.05	(38)	-1.22	(76)	-0.12	(56)	2.40	(30)	2.46	(69)	5.22	(96)	-0.19	(87)	04/01/1994
Blmbg. Barc. U.S. Aggregate Index			-0.16	(72)	-1.23	(79)	-0.40	(82)	1.72	(86)	2.27	(86)	5.31	(92)	-0.12	(59)	
Difference			0.11		0.01		0.28		0.68		0.19		-0.09		-0.07		
IM U.S. Broad Market Core Fixed Income (SA+CF) Media	an		-0.09		-0.96		-0.02		2.09		2.66		5.63		-0.11		
Real Estate																	
American Realty	9,115,356	9.7	2.09	(55)	6.17	(73)	8.17	(73)	8.77	(81)	10.55	(82)	10.69	(82)	2 09	(N/A)	07/01/2012
NCREIF Fund Index-Open End Diversified Core (EW)	0,1.0,000	•	2.10	(54)			8.57	(65)		(64)	11.11			• •		(N/A)	01/01/2012
Difference			-0.01	(0.)	-0.39	(00)	-0.40	(00)	-0.84	(0.)	-0.56	(00)	-0.54	(00)	-0.01	(,	
IM U.S. Private Real Estate (SA+CF) Median			2.15		7.12		9.12		10.09		11.57		11.78		N/A		
R&D Cash	8	0.0															



Asset Allocation & Performance									
	All	ocation				Performance	e(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	Inception	Inception Date
Total Fund Composite	93,684,867	100.0	2.66	6.66	10.55	8.27	9.58	7.73	04/01/1992
Total Fund Policy Index			2.49	6.49	10.34	8.68	9.53	N/A	
Difference			0.17	0.17	0.21	-0.41	0.05	N/A	
Total Equity Composite	64,987,305	69.4	4.06	9.73	15.06	11.07	12.91	6.08	07/01/2000
Total Equity Policy Index			4.07	9.98	15.38	11.61	13.02	5.93	
Difference			-0.01	-0.25	-0.32	-0.54	-0.11	0.15	
Total Domestic Equity									
Rhumbline S&P 500 Equity	24,889,667	26.6	3.41	9.40	14.29	11.82	13.31	5.57	07/01/2000
S&P 500 Index			3.43	9.47	14.37	11.93	13.42	5.58	
Difference			-0.02	-0.07	-0.08	-0.11	-0.11	-0.01	
Rhumbline S&P 400 Equity	10,138,579	10.8	4.25	9.89	13.42	10.79	12.61	10.42	01/01/2004
S&P MidCap 400 Index			4.29	9.96	13.50	10.89	12.69	10.37	
Difference			-0.04	-0.07	-0.08	-0.10	-0.08	0.05	
Rhumbline S&P 600 Equity	10,518,545	11.2	8.75	13.64	20.40	13.75	14.54	10.92	01/01/2004
S&P SmallCap 600 Index			8.77	13.72	20.50	13.84	14.60	10.88	
Difference			-0.02	-0.08	-0.10	-0.09	-0.06	0.04	
Highland Capital LCG Equity	10,106,713	10.8	5.62	14.70	21.56	11.65	14.65	9.19	10/01/2007
Russell 1000 Growth Index			5.76	15.69	22.51	14.98	16.36	9.90	
Difference			-0.14	-0.99	-0.95	-3.33	-1.71	-0.71	
International Equity									
Rhumbline International Equity	9,333,801	10.0	-0.94	1.31	6.84	N/A	N/A	10.33	08/01/2016
MSCI EAFE Index			-0.97	1.81	7.37	5.41	6.93	11.63	
Difference			0.03	-0.50	-0.53	N/A	N/A	-1.30	
Total Fixed Income Composite	18,208,270	19.4	-1.33	-1.48	-0.15	2.22	2.34	5.19	04/01/1994
Total Fixed Inc Policy Index			-0.71	-1.01	0.02	1.96	2.15	5.24	
Difference			-0.62	-0.47	-0.17	0.26	0.19	-0.05	



**Total Fund Composite (Net)** 

	Allo	cation				Performance	(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	Inception	Inception Date
Domestic Fixed Income									
Highland Capital Fixed Income	18,208,270	19.4	-0.05	-1.22	-0.12	2.40	2.46	5.22	04/01/1994
Blmbg. Barc. U.S. Aggregate Index			-0.16	-1.23	-0.40	1.72	2.27	5.31	
Difference			0.11	0.01	0.28	0.68	0.19	-0.09	
Real Estate									
American Realty	9,115,356	9.7	1.81	5.30	6.99	7.57	9.36	9.51	07/01/2012
NCREIF Fund Index-ODCE (EW) (Net	)		1.90	5.91	7.69	8.71	10.21	10.31	
Difference			-0.09	-0.61	-0.70	-1.14	-0.85	-0.80	



Asset Allocation & Performance													
	Allo	cation					Pe	erformance	(%)				
	Market Value \$	%	Oct-2016 To Son-2017	Oct-2015 To Sep-2016	То	То	То	Oct-2011 To Sep-2012	То	То	То	То	То
Total Fund Composite	93,684,867	100.0	13.60(21)	10.94 (14)	-	•	14.75 (15)	-	-	10.42 (36)	-	-13.46(57)	-
Total Fund Policy Index	,		12.80(38)	11.83 (4)			14.21 (22)		. ,	10.81 (28)	. ,	-12.83(50)	. ,
Difference			0.80	-0.89	0.65	0.60	0.54	-0.71	-1.29	-0.39	4.35	-0.63	-1.46
All Public Plans-Total Fund Median			12.18	9.66	-0.53	10.18	12.50	17.96	0.29	9.87	1.75	-12.88	14.04
Total Equity Composite	64,987,305	69.4	19.67	13.36	0.44	14.07	24.58	28.78	-2.47	12.49	-0.91	-23.22	17.99
Total Equity Policy Index			19.69	14.30	-0.18	13.86	23.27	27.80	-0.50	11.44	-4.36	-21.04	17.05
Difference			-0.02	-0.94	0.62	0.21	1.31	0.98	-1.97	1.05	3.45	-2.18	0.94
Total Domestic Equity													
Rhumbline S&P 500 Equity	24,889,667	26.6	18.56(57)	15.38 (25)	-0.63 (57)	19.64 (39)	19.30 (71)	30.16 (39)	1.18(44)	10.20 (49)	-6.49(60)	-21.73(59)	16.63 (57)
S&P 500 Index			18.61(56)	15.43 (24)	-0.61 (57)	19.73 (37)	19.34 (70)	30.20 (38)	1.14(45)	10.16 (50)	-6.91(65)	-21.98(64)	16.44 (61)
Difference			-0.05	-0.05	-0.02	-0.09	-0.04	-0.04	0.04	0.04	0.42	0.25	0.19
IM U.S. Large Cap Equity (SA+CF) Median			18.87	13.20	-0.31	18.80	21.10	29.15	0.76	10.13	-5.50	-20.80	17.08
Rhumbline S&P 400 Equity	10,138,579	10.8	17.49(55)	15.21 (30)	1.45 (52)	11.81 (67)	27.55 (58)	28.90 (36)	-1.16(56)	17.78 (41)	-2.78(52)	-16.54(18)	18.73 (59)
S&P MidCap 400 Index			17.52(54)	15.33 (28)	1.40 (54)	11.82 (67)	27.68 (56)	28.54 (41)	-1.28(58)	17.78 (41)	-3.11(56)	-16.68(22)	18.76 (58)
Difference			-0.03	-0.12	0.05	-0.01	-0.13	0.36	0.12	0.00	0.33	0.14	-0.03
IM U.S. Mid Cap Equity (SA+CF) Median			17.59	11.66	1.49	13.49	28.06	27.30	-0.64	16.78	-2.72	-20.70	20.51
Rhumbline S&P 600 Equity	10,518,545	11.2	21.08(49)	18.00 (26)	3.90 (37)	5.79 (55)	31.40 (57)	33.27 (36)	0.21(38)	14.14 (58)	-10.54(76)	-13.64(22)	15.16 (59)
S&P SmallCap 600 Index			21.05(49)	18.12 (24)	3.81 (37)	5.74 (55)	31.51 (55)	33.35 (36)	0.21(38)	14.22 (57)	-10.61(77)	-13.83(23)	14.93 (60)
Difference			0.03	-0.12	0.09	0.05	-0.11	-0.08	0.00	-0.08	0.07	0.19	0.23
IM U.S. Small Cap Equity (SA+CF) Median			20.97	14.57	2.41	6.23	32.18	31.61	-1.20	14.98	-5.22	-18.20	17.44
Highland Capital LCG	10,106,713	10.8	23.11(22)	6.68 (93)	4.64 (34)	16.29 (70)	28.73 (7)	27.51 (52)	-6.48(97)	14.63 (22)	15.31(2)	-30.80(98)	N/A
Russell 1000 Growth Index			21.94(37)	13.76 (22)	3.17 (55)	19.15 (40)	19.27 (64)	29.19 (39)	3.78(30)	12.65 (35)	-1.85(37)	-20.88(55)	19.35 (56)
Difference			1.17	-7.08	1.47	-2.86	9.46	-1.68	-10.26	1.98	17.16	-9.92	N/A
IM U.S. Large Cap Growth Equity (SA+CF) Median			20.81	11.64	3.61	18.15	20.25	27.65	1.37	11.27	-3.01	-20.23	20.16
International Equity													
Rhumbline International Equity	9,333,801	10.0	19.24(64)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI EAFE Index			19.65(61)	7.06 (76)	-8.27 (50)		24.29 (33)		-8.94 (45)	3.71 (80)			
Difference			-0.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
IM International Equity (SA+CF) Median			21.07	11.59	-8.27	5.80	20.27	17.31	-9.59	9.60	7.06	-30.33	29.63



**Total Fund Composite (Gross)** 

	Alloc	ation					Pe	rformance(	%)				
	Market Value \$	%	Oct-2016 To Sep-2017	То	То	То	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	То	Oct-2008 To Sep-2009	Oct-2007 To Sep-2008	То
Total Fixed Income Composite	18,208,270	19.4	1.26	6.60	1.40	3.45	-2.57	6.28	5.20	8.28	11.96	1.23	4.97
Total Fixed Inc Policy Index			-0.27	6.01	1.82	3.41	-2.11	4.98	5.18	7.78	11.18	3.84	5.62
Difference			1.53	0.59	-0.42	0.04	-0.46	1.30	0.02	0.50	0.78	-2.61	-0.65
Domestic Fixed Income													
Highland Capital Fixed Income	18,208,270	19.4	0.85(38)	6.51 (19)	2.22 (87)	3.51 (95)	-2.54 (98)	6.07 (72)	5.66(27)	8.09 (89)	11.96(58)	1.23(63)	4.97 (70)
Blmbg. Barc. U.S. Aggregate Index			0.07(86)	5.19 (80)	2.94 (59)	3.96 (81)	-1.68 (80)	5.16 (91)	5.26(49)	8.16 (87)	10.56(82)	3.65(32)	5.14 (53)
Difference			0.78	1.32	-0.72	-0.45	-0.86	0.91	0.40	-0.07	1.40	-2.42	-0.17
IM U.S. Broad Market Core Fixed Income (SA+CF) Media	า		0.63	5.66	3.02	4.50	-1.24	6.66	5.26	9.27	12.29	2.54	5.16
International Fixed Income													
Oppenheimer Dreyfus (OIBAX) (DIBAX)	-	0.0	3.10(83)	9.59 (82)	-4.81 (28)	2.98 (56)	-2.82 (35)	7.90 (78)	0.32(39)	N/A	N/A	N/A	N/A
FTSE Non-U.S. World Government Bond			-3.14(100)	12.61 (61)	-7.01 (40)	-0.99 (78)	-5.63 (76)	3.45 (95)	4.13(4)	4.46 (90)	16.04(59)	5.16(2)	9.53 (27)
Difference			6.24	-3.02	2.20	3.97	2.81	4.45	-3.81	N/A	N/A	N/A	N/A
IM International Fixed Income All (MF) Median			6.32	13.89	-8.45	4.23	-4.03	13.59	-0.34	14.00	16.91	-3.17	8.46
Real Estate													
American Realty	9,115,356	9.7	7.53(66)	9.03 (95)	14.05 (72)	12.45 (71)	12.30 (71)	N/A	N/A	N/A	N/A	N/A	N/A
NCREIF Fund Index-Open End Diversified Core (EW)			7.81(60)	10.62 (69)	14.71 (66)	12.39 (72)	12.47 (69)	11.77 (66)	18.03(46)	6.14 (51)	-36.09(54)	3.73(57)	17.84 (54)
Difference			-0.28	-1.59	-0.66	0.06	-0.17	N/A	N/A	N/A	N/A	N/A	N/A
IM U.S. Private Real Estate (SA+CF) Median			8.30	11.57	15.79	13.12	13.35	13.10	17.30	6.39	-35.27	4.80	18.34
R&D Cash	8	0.0											



Asset Allocation & Performance													
	Allo	ocation					Р	erformance(	%)				
	Market Value \$	%	Oct-2016 To Sep-2017	То	Oct-2014 To Sep-2015	То	То	То	Oct-2010 To Sep-2011	То	Oct-2008 To Sep-2009	Oct-2007 To Sep-2008	Oct-2006 To Sep-2007
Total Fund Composite	93,684,867	100.0	13.36	10.72	1.29	10.73	14.53	18.64	0.22	10.08	5.61	-13.73	11.90
Total Fund Policy Index			12.80	11.83	0.81	10.35	14.21	19.60	1.75	10.81	1.64	-12.83	13.68
Difference			0.56	-1.11	0.48	0.38	0.32	-0.96	-1.53	-0.73	3.97	-0.90	-1.78
Total Equity Composite	64,987,305	69.4	19.67	13.36	0.44	14.07	24.58	28.78	-2.47	12.49	-0.91	-23.22	17.99
Total Equity Policy Index			19.69	14.30	-0.18	13.86	23.27	27.80	-0.50	11.44	-4.36	-21.04	17.05
Difference			-0.02	-0.94	0.62	0.21	1.31	0.98	-1.97	1.05	3.45	-2.18	0.94
Total Domestic Equity													
Rhumbline S&P 500 Equity	24,889,667	26.6	18.50	15.31	-0.66	19.55	19.18	29.99	1.04	10.02	-6.71	-21.87	16.47
S&P 500 Index			18.61	15.43	-0.61	19.73	19.34	30.20	1.14	10.16	-6.91	-21.98	16.44
Difference			-0.11	-0.12	-0.05	-0.18	-0.16	-0.21	-0.10	-0.14	0.20	0.11	0.03
Rhumbline S&P 400 Equity	10,138,579	10.8	17.43	15.13	1.40	11.78	27.55	28.90	-1.16	17.78	-2.78	-16.54	18.73
S&P MidCap 400 Index			17.52	15.33	1.40	11.82	27.68	28.54	-1.28	17.78	-3.11	-16.68	18.76
Difference			-0.09	-0.20	0.00	-0.04	-0.13	0.36	0.12	0.00	0.33	0.14	-0.03
Rhumbline S&P 600 Equity	10,518,545	11.2	21.01	17.92	3.85	5.76	31.40	33.27	0.21	14.14	-10.54	-13.64	15.16
S&P SmallCap 600 Index			21.05	18.12	3.81	5.74	31.51	33.35	0.21	14.22	-10.61	-13.83	14.93
Difference			-0.04	-0.20	0.04	0.02	-0.11	-0.08	0.00	-0.08	0.07	0.19	0.23
Highland Capital LCG	10,106,713	10.8	23.11	6.68	4.64	16.29	28.73	27.51	-6.48	14.63	15.31	-30.80	N/A
Russell 1000 Growth Index			21.94	13.76	3.17	19.15	19.27	29.19	3.78	12.65	-1.85	-20.88	19.35
Difference			1.17	-7.08	1.47	-2.86	9.46	-1.68	-10.26	1.98	17.16	-9.92	N/A
International Equity													
Rhumbline International Equity	9,333,801	10.0	19.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI EAFE Index			19.65	7.06	-8.27	4.70	24.29	14.33	-8.94	3.71	3.80	-30.13	25.38
Difference			-0.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Fixed Income Composite	18,208,270	19.4	1.26	6.60	1.40	3.45	-2.57	6.28	5.20	8.28	11.96	1.23	4.97
Total Fixed Inc Policy Index			-0.27	6.01	1.82	3.41	-2.11	4.98	5.18	7.78	11.18	3.84	5.62
Difference			1.53	0.59	-0.42	0.04	-0.46	1.30	0.02	0.50	0.78	-2.61	-0.65



**Total Fund Composite (Net)** 

	Alloc	ation					Pe	erformance(%	%)				
	Market Value \$	%	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	Oct-2008 To Sep-2009	Oct-2007 To Sep-2008	Oct-2006 To Sep-2007
Domestic Fixed Income													
Highland Capital Fixed Income	18,208,270	19.4	0.85	6.51	2.22	3.51	-2.54	6.07	5.66	8.09	11.96	1.23	4.97
Blmbg. Barc. U.S. Aggregate Index			0.07	5.19	2.94	3.96	-1.68	5.16	5.26	8.16	10.56	3.65	5.14
Difference			0.78	1.32	-0.72	-0.45	-0.86	0.91	0.40	-0.07	1.40	-2.42	-0.17
International Fixed Income													
Oppenheimer Dreyfus (OIBAX) (DIBAX)	-	0.0	3.10	9.59	-4.81	2.98	-2.82	7.90	0.32	N/A	N/A	N/A	N/A
FTSE Non-U.S. World Government Bon	d		-3.14	12.61	-7.01	-0.99	-5.63	3.45	4.13	4.46	16.04	5.16	9.53
Difference			6.24	-3.02	2.20	3.97	2.81	4.45	-3.81	N/A	N/A	N/A	N/A
Real Estate													
American Realty	9,115,356	9.7	6.34	7.85	12.82	11.34	11.10	N/A	N/A	N/A	N/A	N/A	N/A
NCREIF Fund Index-ODCE (EW) (Net)			6.93	9.69	13.82	11.44	11.46	10.69	17.02	5.24	-36.63	2.82	16.73
Difference			-0.59	-1.84	-1.00	-0.10	-0.36	N/A	N/A	N/A	N/A	N/A	N/A



## Historical Rolling Performance Total Fund Composite As of June 30, 2018

Historical Rolling P	Performance				
	QTR	1 YR	3 YR	5 YR	Inception
06/30/2018	2.69	10.73	8.48	9.79	7.98
03/31/2018	-0.27	10.86	7.54	9.32	7.95
12/31/2017	4.25	15.62	8.66	10.87	8.04
09/30/2017	3.71	13.60	8.54	10.24	7.94
06/30/2017	2.81	12.92	6.76	10.41	7.87
03/31/2017	4.02	12.16	7.00	9.31	7.83
12/31/2016	2.43	9.87	6.16	10.19	7.74
09/30/2016	3.09	10.94	7.69	11.24	7.72
06/30/2016	2.12	2.09	8.45	8.36	7.67
03/31/2016	1.89	0.03	7.88	8.03	7.65
12/31/2015	3.42	1.00	9.66	8.53	7.65
09/30/2015	-5.13	1.46	8.91	9.06	7.58
06/30/2015	0.06	5.55	12.48	11.97	7.91
03/31/2015	2.88	9.19	11.63	10.75	8.00
12/31/2014	3.89	7.80	13.55	11.04	7.96
09/30/2014	-1.31	10.95	14.82	10.92	7.86
06/30/2014	3.52	18.38	11.51	13.73	8.02
03/31/2014	1.57	14.94	10.45	15.10	7.94
12/31/2013	6.92	21.12	11.41	13.81	7.96
09/30/2013	5.30	14.75	11.08	9.91	7.72
06/30/2013	0.51	13.90	12.11	7.06	7.56
03/31/2013	7.03	10.83	9.90	6.97	7.62
12/31/2012	1.30	12.13	8.93	4.48	7.37
09/30/2012	4.52	18.89	9.66	3.88	7.39
06/30/2012	-2.20	2.85	12.16	3.42	7.25
03/31/2012	8.29	5.76	16.62	4.58	7.46
12/31/2011	7.40	1.83	12.03	3.29	7.13
09/30/2011	-9.58	0.46	5.54	2.69	6.83
06/30/2011	0.57	20.27	6.29	5.50	7.48
03/31/2011	4.26	13.24	6.11	5.13	7.55
12/31/2010	5.96	13.22	2.92	4.93	7.42
09/30/2010	8.25	10.42	0.43	4.00	7.19
06/30/2010	-5.31	14.08	-1.48	2.78	6.83
03/31/2010	4.24	32.44	1.46	4.45	7.25
12/31/2009	3.34	21.96	0.66	3.43	7.10
09/30/2009	11.84	5.99	0.97	3.94	7.01
06/30/2009	9.93	-12.48	-1.61	1.52	6.42
03/31/2009	-4.01	-20.33	-5.03	-0.23	5.92
12/31/2008	-10.19	-21.04	-2.69	1.02	6.28
09/30/2008	-7.65	-13.46	1.30	4.58	7.07



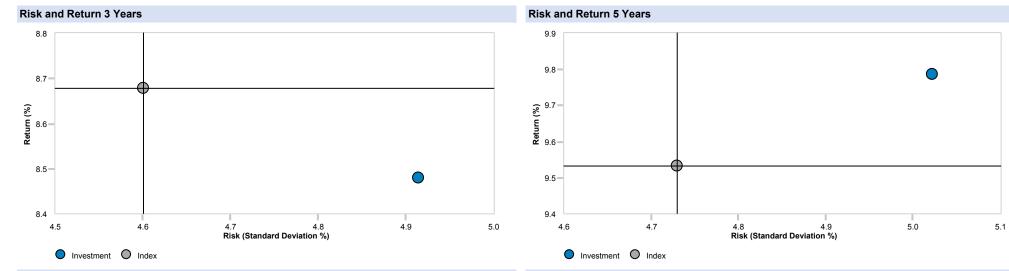
## Historical Rolling Performance Total Fund Policy Index As of June 30, 2018

Historical Rolling Po	erformance				
-	QTR	1 YR	3 YR	5 YR	Inception
06/30/2018	2.49	10.34	8.68	9.53	N/A
03/31/2018	-0.24	10.74	7.65	9.12	N/A
12/31/2017	4.15	15.47	8.59	10.57	N/A
09/30/2017	3.62	12.80	8.34	9.90	N/A
06/30/2017	2.87	12.63	6.59	10.11	N/A
03/31/2017	4.01	11.86	6.86	9.06	N/A
12/31/2016	1.75	9.83	6.09	9.93	N/A
09/30/2016	3.45	11.83	7.55	11.19	N/A
06/30/2016	2.17	3.29	8.25	8.19	N/A
03/31/2016	2.12	0.69	7.70	7.96	N/A
12/31/2015	3.61	0.98	9.22	8.41	N/A
09/30/2015	-4.45	0.81	8.31	9.11	N/A
06/30/2015	-0.41	4.09	11.64	12.02	N/A
03/31/2015	2.41	8.34	11.06	10.71	N/A
12/31/2014	3.44	7.66	13.13	11.13	N/A
09/30/2014	-1.34	10.35	14.66	11.19	N/A
06/30/2014	3.65	17.99	11.30	14.11	N/A
03/31/2014	1.78	14.51	10.37	16.04	N/A
12/31/2013	6.02	19.85	11.27	13.96	N/A
09/30/2013	5.49	14.21	11.60	9.38	N/A
06/30/2013	0.60	13.30	12.83	6.70	N/A
03/31/2013	6.52	10.41	10.27	6.48	N/A
12/31/2012	1.03	12.20	9.52	4.03	N/A
09/30/2012	4.65	19.60	10.48	3.62	N/A
06/30/2012	-1.97	3.15	13.12	3.07	N/A
03/31/2012	8.25	6.34	18.50	4.27	N/A
12/31/2011	7.70	2.45	12.65	3.06	N/A
09/30/2011	-9.75	1.75	4.65	2.58	N/A
06/30/2011	1.06	22.90	5.77	5.39	N/A
03/31/2011	4.29	14.20	5.25	4.87	N/A
12/31/2010	6.97	14.28	1.96	4.83	N/A
09/30/2010	9.02	10.81	-0.61	3.80	N/A
06/30/2010	-6.10	14.16	-2.82	2.66	N/A
03/31/2010	4.36	37.03	0.49	4.46	N/A
12/31/2009	3.72	22.10	-0.23	3.29	N/A
09/30/2009	12.31	1.64	0.24	4.04	N/A
06/30/2009	12.71	-15.67	-2.50	1.60	N/A
03/31/2009	-7.00	-25.49	-6.77	-0.75	N/A
12/31/2008	-13.66	-24.03	-3.20	1.30	N/A
09/30/2008	-6.81	-12.83	2.28	6.06	N/A

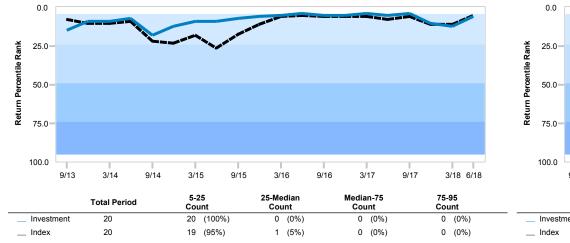
Returns for periods greater than one year are annualized. Returns are expressed as percentages.



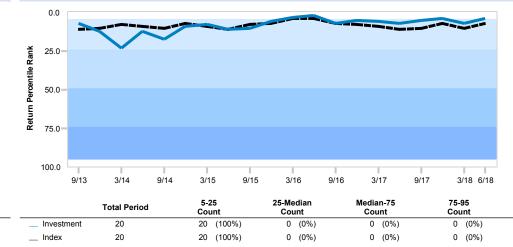
Historical Statistic	s 3 Years							Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.48	4.92	1.58	100.63	10	115.09	2	Investment	9.79	5.02	1.83	102.78	17	103.29	3
Index	8.68	4.60	1.72	100.00	10	100.00	2	Index	9.53	4.73	1.89	100.00	16	100.00	4







5 Year Rolling Percentile Rank All Public Plans-Total Fund



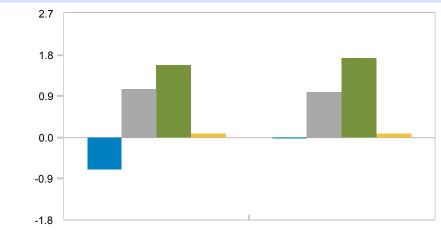


## Strategy Review Total Fund Composite | Total Fund Policy Index As of June 30, 2018





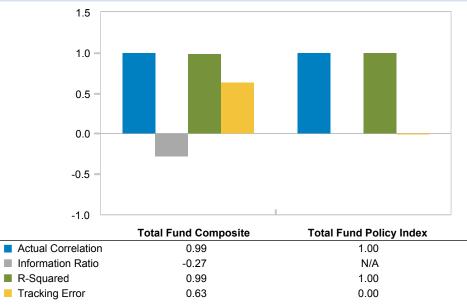
## Portfolio Comparison Total Fund As of June 30, 2018



	Total Fund Composite	Total Fund Policy Index
Alpha	-0.69	0.00
Beta	1.06	1.00
Sharpe Ratio	1.58	1.72
Treynor Ratio	0.07	0.08

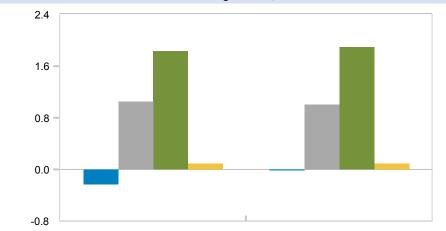
#### Benchmark Relative Historical Statistics 3 Years Ending June 30, 2018

Risk / Reward Historical Statistics 3 Years Ending June 30, 2018



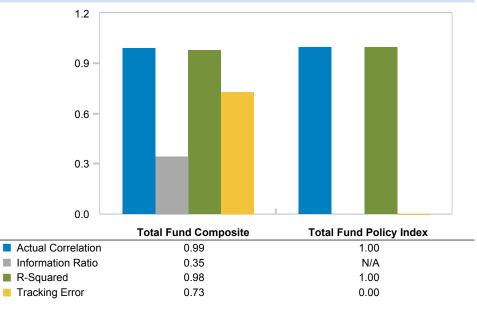
Benchmark: Total Fund Policy Index

#### Risk / Reward Historical Statistics 5 Years Ending June 30, 2018



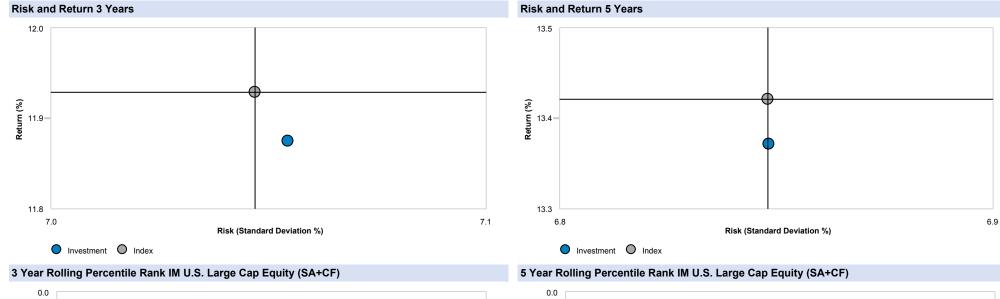
	Total Fund Composite	Total Fund Policy Index
Alpha	-0.23	0.00
Beta	1.05	1.00
Sharpe Ratio	1.83	1.89
Treynor Ratio	0.09	0.09

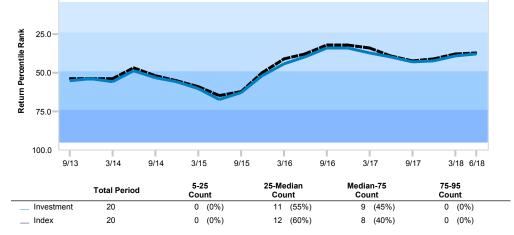
#### Benchmark Relative Historical Statistics 5 Years Ending June 30, 2018

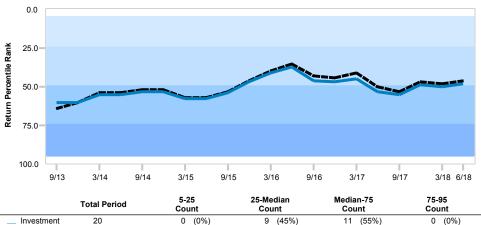




Historical Statistic	s 3 Years							Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.87	7.05	1.56	99.74	10	100.53	2	Investment	13.37	6.85	1.83	99.74	18	100.53	2
Index	11.93	7.05	1.57	100.00	10	100.00	2	Index	13.42	6.85	1.84	100.00	18	100.00	2







10 (50%)

10 (50%)

0 (0%)

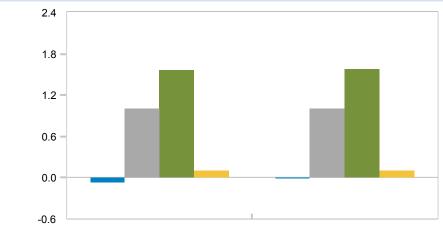
20

\_\_ Index

0 (0%)



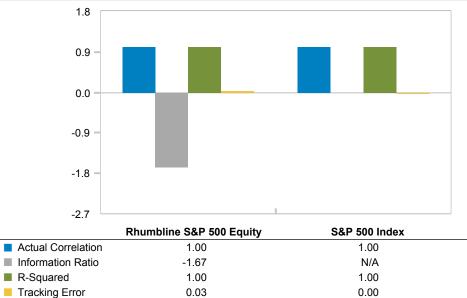




	Rhumbline S&P 500 Equity	S&P 500 Index
Alpha	-0.06	0.00
Beta	1.00	1.00
Sharpe Ratio	1.56	1.57
Treynor Ratio	0.11	0.11



Risk / Reward Historical Statistics 3 Years Ending June 30, 2018

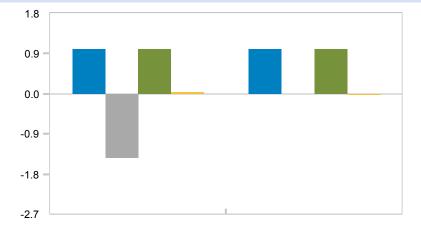


Risk / Reward Historical Statistics 5 Years Ending June 30, 2018



	Rhumbline S&P 500 Equity	S&P 500 Index	
Alpha	-0.05	0.00	
Beta	1.00	1.00	
Sharpe Ratio	1.83	1.84	
Treynor Ratio	0.13	0.13	

#### Benchmark Relative Historical Statistics 5 Years Ending June 30, 2018



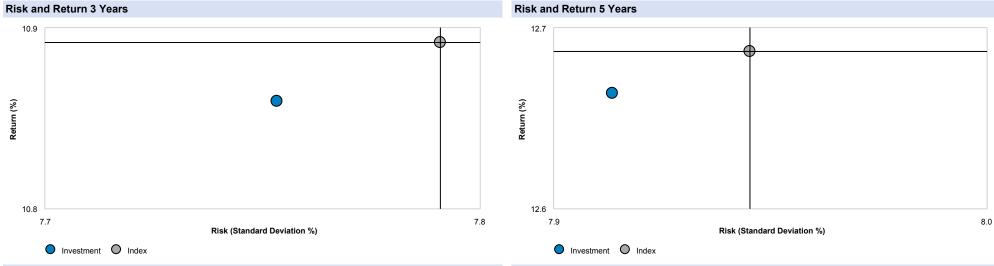
	Rhumbline S&P 500 Equity	S&P 500 Index
Actual Correlation	1.00	1.00
Information Ratio	-1.44	N/A
R-Squared	1.00	1.00
Tracking Error	0.03	0.00

Benchmark: S&P 500 Index

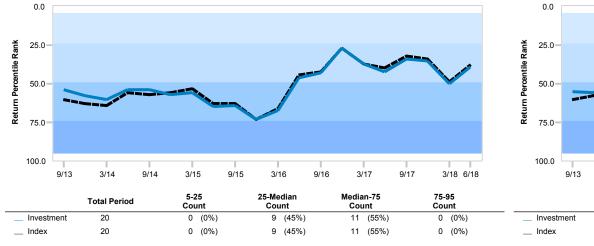


## Strategy Review Rhumbline S&P 400 Equity | S&P MidCap 400 Index As of June 30, 2018

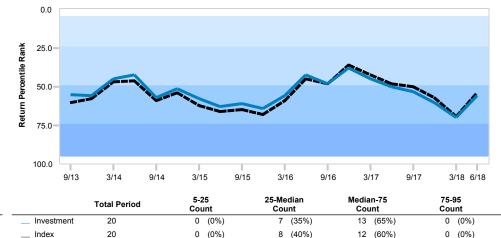
Historical Statistic	s 3 Years							Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.86	7.75	1.31	99.62	10	99.36	2	Investment	12.66	7.91	1.52	99.75	16	99.48	4
Index	10.89	7.79	1.31	100.00	10	100.00	2	Index	12.69	7.95	1.52	100.00	16	100.00	4







5 Year Rolling Percentile Rank IM U.S. Mid Cap Equity (SA+CF)





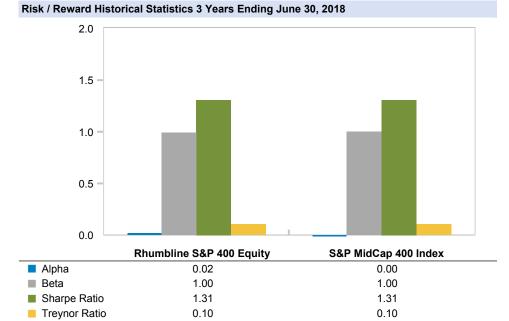
Page 32

## Strategy Review Rhumbline S&P 400 Equity | S&P MidCap 400 Index As of June 30, 2018

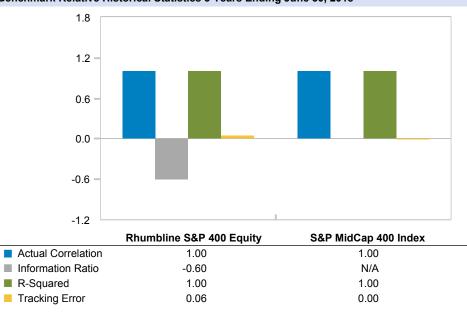




## Portfolio Comparison Rhumbline S&P MidCap 400 As of June 30, 2018

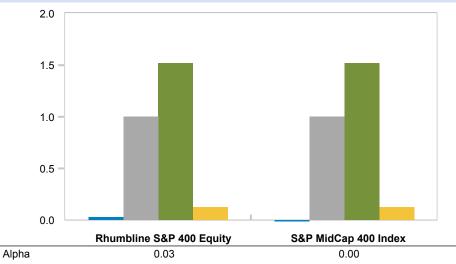


## Benchmark Relative Historical Statistics 3 Years Ending June 30, 2018



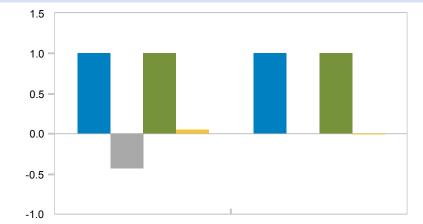
Benchmark: S&P MidCap 400 Index

#### Risk / Reward Historical Statistics 5 Years Ending June 30, 2018



Alpha	0.03	0.00
Beta	1.00	1.00
Sharpe Ratio	1.52	1.52
Treynor Ratio	0.12	0.12

#### Benchmark Relative Historical Statistics 5 Years Ending June 30, 2018

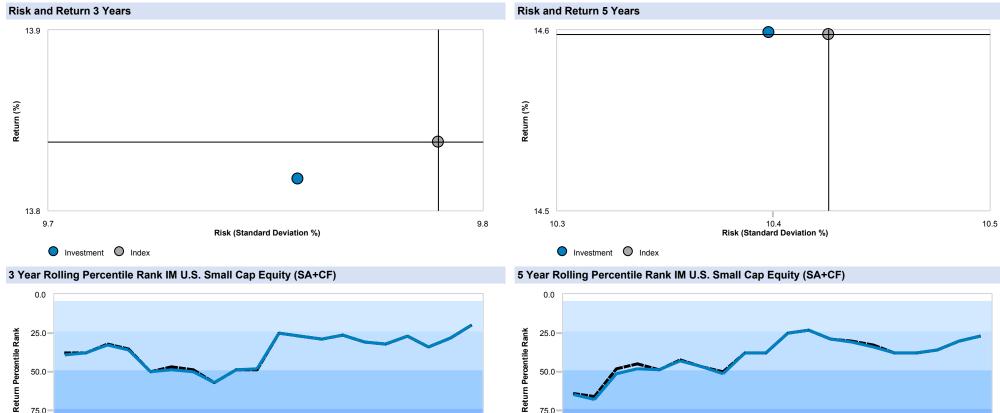


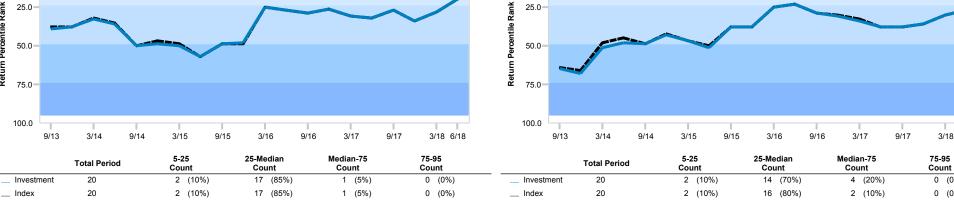
	Rhumbline S&P 400 Equity	S&P MidCap 400 Index	
Actual Correlation	1.00	1.00	
Information Ratio	-0.43	N/A	
R-Squared	1.00	1.00	
Tracking Error	0.05	0.00	



# **Strategy Review** Rhumbline S&P 600 Equity | S&P SmallCap 600 Index As of June 30, 2018

Historical Statistic	s 3 Years							Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.82	9.76	1.34	99.77	11	99.46	1	Investment	14.60	10.40	1.35	99.90	18	99.52	2
Index	13.84	9.79	1.34	100.00	11	100.00	1	Index	14.60	10.43	1.35	100.00	18	100.00	2







3/18 6/18

75-95

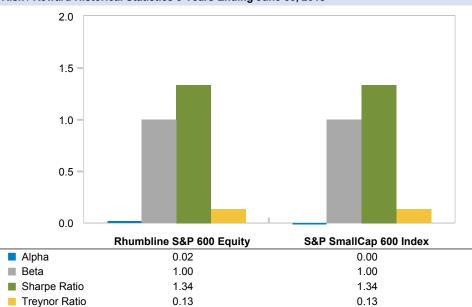
0 (0%)

0 (0%)

## Strategy Review Rhumbline S&P 600 Equity | S&P SmallCap 600 Index As of June 30, 2018

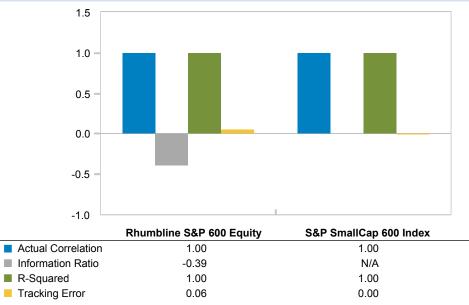






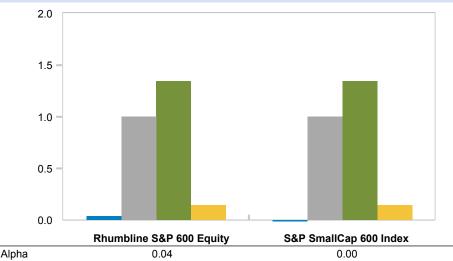
## Risk / Reward Historical Statistics 3 Years Ending June 30, 2018





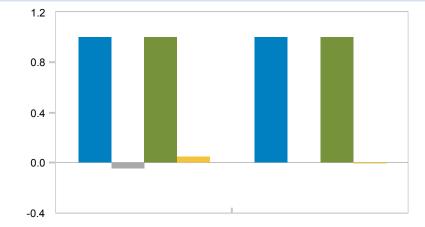
Benchmark: S&P SmallCap 600 Index

## Risk / Reward Historical Statistics 5 Years Ending June 30, 2018



		our onlaroup our maox	
Alpha	0.04	0.00	
Beta	1.00	1.00	
Sharpe Ratio	1.35	1.35	
Treynor Ratio	0.14	0.14	

## Benchmark Relative Historical Statistics 5 Years Ending June 30, 2018



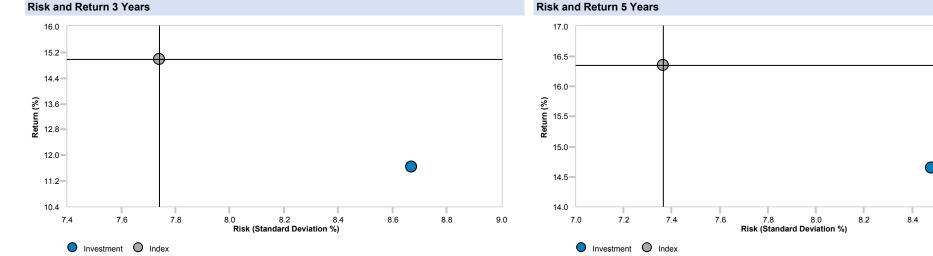
	Rhumbline S&P 600 Equity	S&P SmallCap 600 Index	
Actual Correlation	1.00	1.00	_
Information Ratio	-0.04	N/A	
R-Squared	1.00	1.00	
Tracking Error	0.05	0.00	

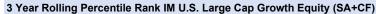


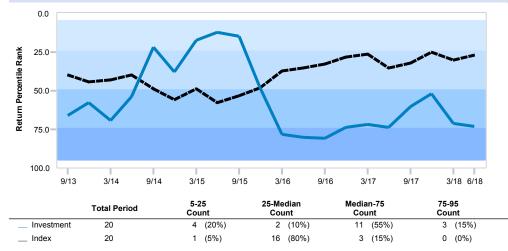
# **Strategy Review** Highland Capital Equity | Russell 1000 Growth Index

As of June 30, 2018

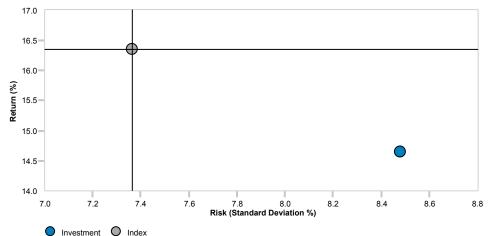
Historical Statistic	s 3 Years							Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.65	8.67	1.27	86.64	9	143.85	3	Investment	14.65	8.48	1.64	94.16	16	143.85	4
Index	14.98	7.74	1.81	100.00	11	100.00	1	Index	16.36	7.37	2.09	100.00	19	100.00	1



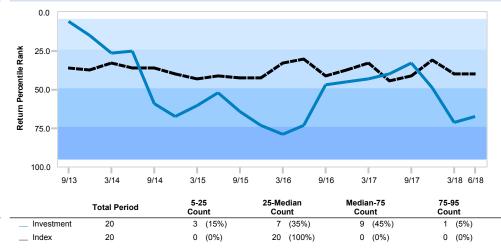




**Risk and Return 5 Years** 

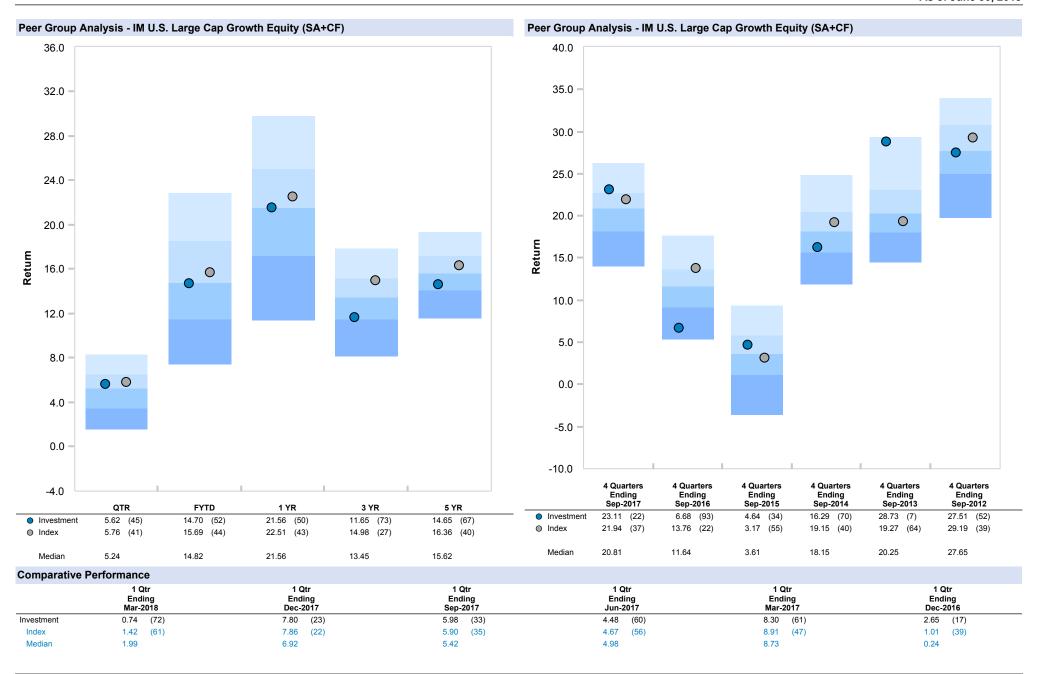


5 Year Rolling Percentile Rank IM U.S. Large Cap Growth Equity (SA+CF)

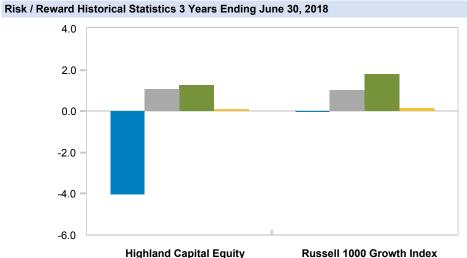




## Strategy Review Highland Capital Equity | Russell 1000 Growth Index As of June 30, 2018

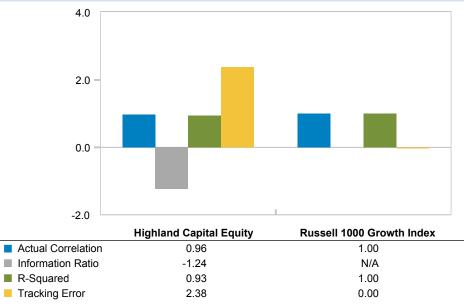






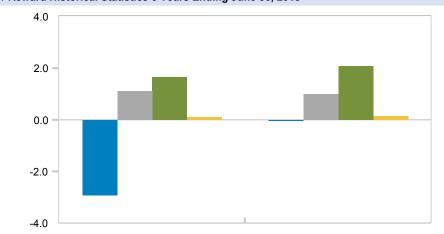
	Highland Capital Equity	Russell 1000 Growth Index	
Alpha	-4.05	0.00	
Beta	1.08	1.00	
Sharpe Ratio	1.27	1.81	
Treynor Ratio	0.10	0.14	

## Benchmark Relative Historical Statistics 3 Years Ending June 30, 2018



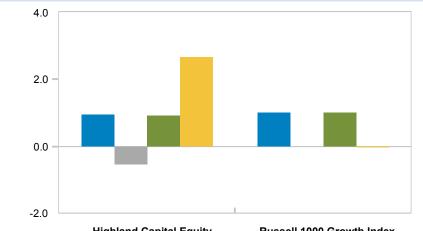
Benchmark: Russell 1000 Growth Index

## Risk / Reward Historical Statistics 5 Years Ending June 30, 2018



	Highland Capital Equity	Russell 1000 Growth Index
Alpha	-2.94	0.00
Beta	1.10	1.00
Sharpe Ratio	1.64	2.09
Treynor Ratio	0.13	0.15

## Benchmark Relative Historical Statistics 5 Years Ending June 30, 2018



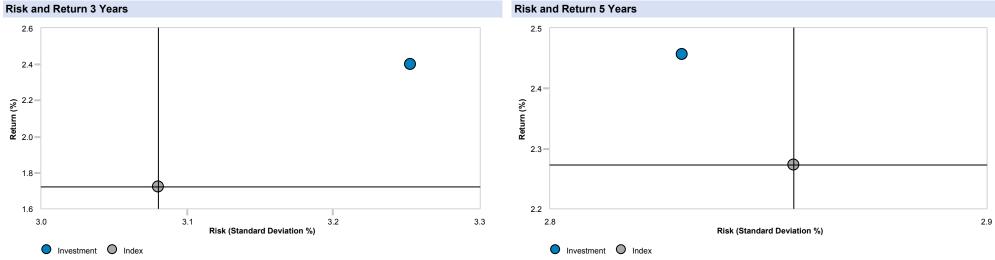
	Highland Capital Equity	Russell 1000 Growth Index	
Actual Correlation	0.95	1.00	_
Information Ratio	-0.54	N/A	
R-Squared	0.91	1.00	
Tracking Error	2.67	0.00	

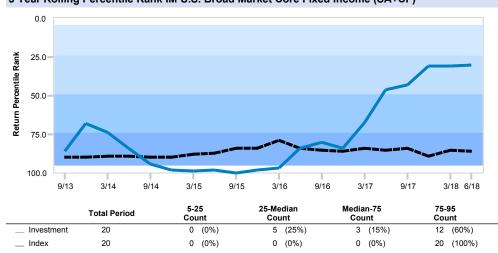


# **Strategy Review** Highland Capital Fixed Income | Blmbg. Barc. U.S. Aggregate Index

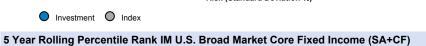
As of June 30, 2018

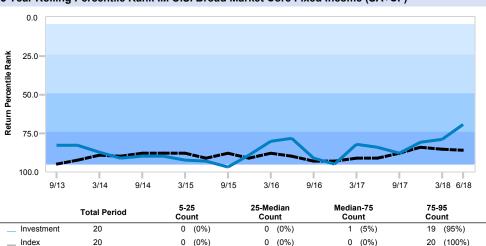
Historical Statistic	s 3 Years							Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	2.40	3.25	0.54	114.64	8	90.18	4	Investment	2.46	2.83	0.72	100.41	15	88.18	5
Index	1.72	3.08	0.35	100.00	8	100.00	4	Index	2.27	2.86	0.65	100.00	14	100.00	6





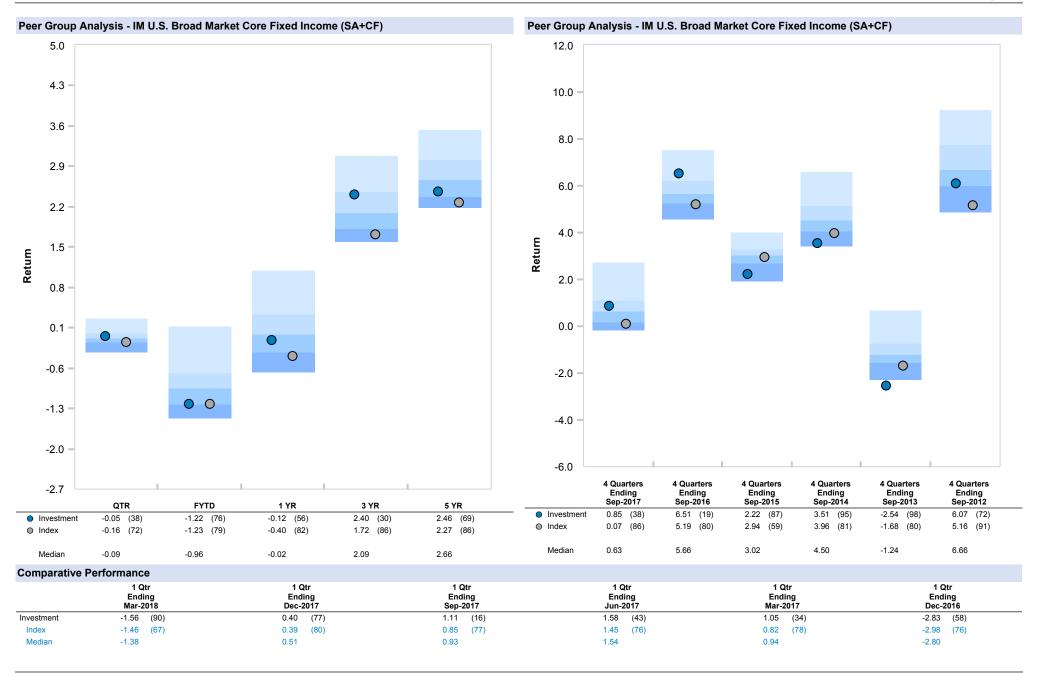
3 Year Rolling Percentile Rank IM U.S. Broad Market Core Fixed Income (SA+CF)





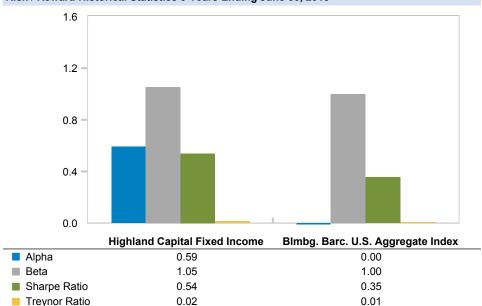


## Strategy Review Highland Capital Fixed Income | Blmbg. Barc. U.S. Aggregate Index As of June 30, 2018





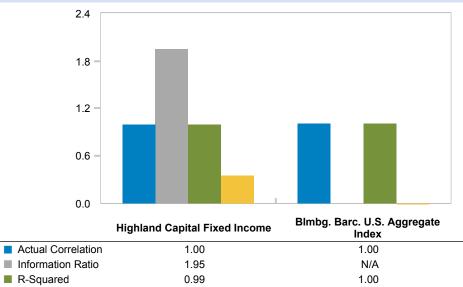
## Portfolio Comparison Highland Capital Fixed Income As of June 30, 2018



#### Risk / Reward Historical Statistics 3 Years Ending June 30, 2018

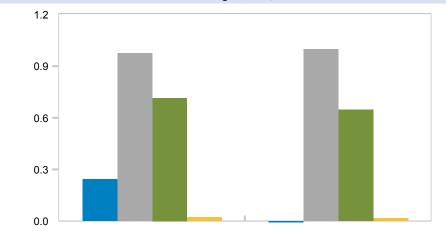


0.35



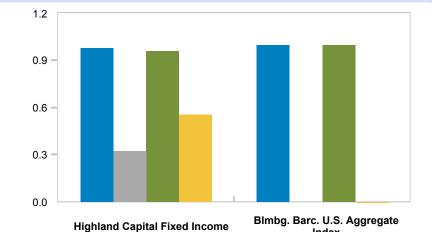
0.00

Risk / Reward Historical Statistics 5 Years Ending June 30, 2018



	Highland Capital Fixed Income	Blmbg. Barc. U.S. Aggregate Index
Alpha	0.24	0.00
Beta	0.97	1.00
Sharpe Ratio	0.72	0.65
Treynor Ratio	0.02	0.02

#### Benchmark Relative Historical Statistics 5 Years Ending June 30, 2018



# IndexIndexActual Correlation0.981.00Information Ratio0.33N/AR-Squared0.961.00Tracking Error0.550.00

88

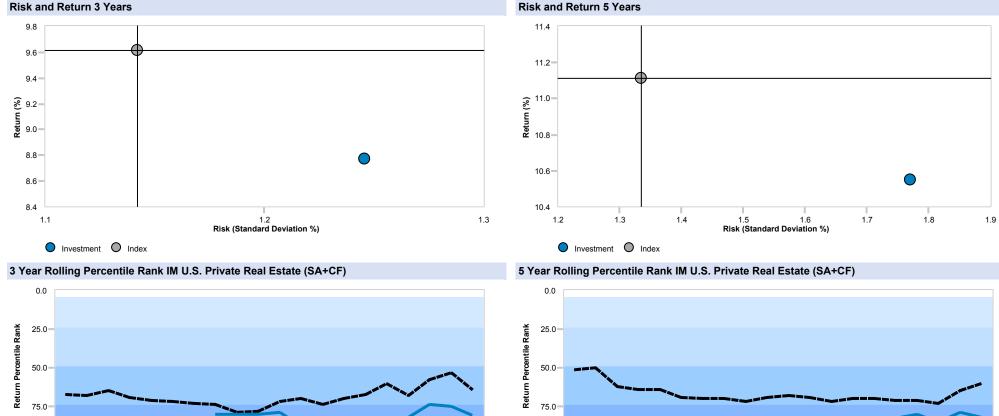
Benchmark: Blmbg. Barc. U.S. Aggregate Index

Tracking Error

# **Strategy Review** American Realty | NCREIF Fund Index-Open End Diversified Core (EW)

As of June 30, 2018

Historical Statisti	cs 3 Years							Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.77	1.25	5.86	91.54	12	N/A	N/A	Investment	10.55	1.77	5.14	95.16	20	N/A	N/A
Index	9.61	1.14	6.61	100.00	12	N/A	N/A	Index	11.11	1.34	6.77	100.00	20	N/A	N/A





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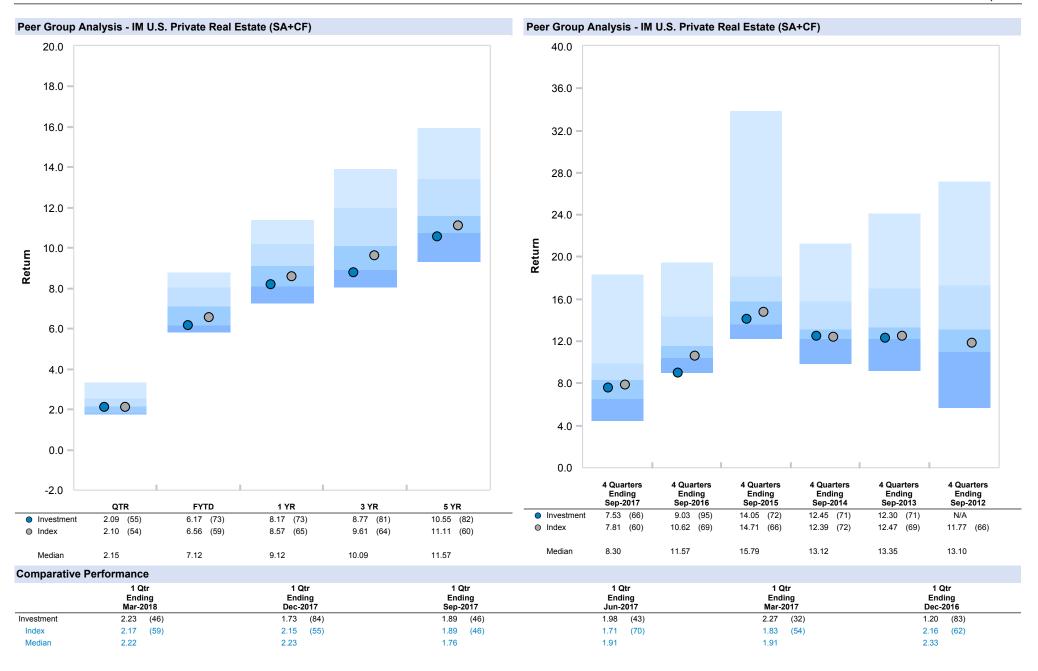
9/17



50.0-	-										50.0								
75.0-										~	ung Bergen Bergen T5.0−	_	~						
100.0	9/13	3/14	9/14	3/15	9/15	3/16	9/16	3/17	9/17	3/18 6/18	100.0	9/13	3/14	9/14	3/15	9/15	3/16	9/16	3/17

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count		Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	13	0 (0%)	0 (0%)	2 (15%)	11 (85%)	Investment	5	0 (0%)	0 (0%)	0 (0%)	5 (100%)
Index	20	0 (0%)	0 (0%)	18 (90%)	2 (10%)	Index	20	0 (0%)	1 (5%)	19 (95%)	0 (0%)

## Strategy Review American Realty | NCREIF Fund Index-Open End Diversified Core (EW) As of June 30, 2018





# Benchmark History Investment Policy Benchmarks As of June 30, 2018

Total Policy Historical Hybrid Composition		Total Equity Historical Hybrid Composition	
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
Mar-1992		Jun-2000	
Blmbg. Barc. U.S. Aggregate Index	35.00	S&P 500 Index	100.00
S&P 500 Index	25.00		
S&P MidCap 400 Index	10.00	Jan-2003	
Russell 1000 Growth Index	10.00	S&P 500 Index	80.00
S&P SmallCap 600 Index	10.00	S&P MidCap 400 Index	20.00
MSCI EAFE Index	10.00	Jan-2004	
		S&P 500 Index	60.00
Oct-2010			
Blmbg. Barc. U.S. Aggregate Index	31.00	S&P MidCap 400 Index	20.00
S&P 500 Index	25.00	S&P SmallCap 600 Index	20.00
S&P MidCap 400 Index	10.00	Jan-2007	
Russell 1000 Growth Index	10.00	S&P 500 Index	62.00
MSCI EAFE Index	10.00	S&P MidCap 400 Index	15.00
S&P SmallCap 600 Index	10.00	S&P SmallCap 600 Index	15.00
FTSE Non-U.S. World Government Bond	4.00	MSCI EAFE Index	8.00
Apr-2012		Oct-2007	
Blmbg. Barc. U.S. Aggregate Index	29.00	S&P 500 Index	38.40
S&P 500 Index	25.00	S&P MidCap 400 Index	15.40
S&P MidCap 400 Index	10.00	S&P SmallCap 600 Index	15.40
Russell 1000 Growth Index	10.00	MSCI EAFE Index	15.40
MSCI EAFE Index	10.00	Russell 1000 Growth Index	15.40
S&P SmallCap 600 Index	10.00		10.10
FTSE Non-U.S. World Government Bond	4.00		
NCREIF Property Index	2.00		
Oct-2015			
Blmbg. Barc. U.S. Aggregate Index	26.00		
S&P 500 Index	25.00		
S&P MidCap 400 Index	10.00		
Russell 1000 Growth Index	10.00		
MSCI EAFE Index	10.00	Total Fixed Income Historical Hybrid Compositi	ion
S&P SmallCap 600 Index	10.00	Allocation Mandate	Weight (%)
FTSE Non-U.S. World Government Bond	4.00	Apr-1994	10.g.n. (70)
NCREIF Fund Index-Open End Diversified Core (EW)	5.00	Blmbg. Barc. U.S. Aggregate Index	89.00
		FTSE Non-U.S. World Government Bond	11.00
		FISE NON-0.3. WONG GOVERNMENT BONG	11.00



Active Return	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
Alpha	- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.
Beta	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
Consistency	- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.
Distributed to Paid In (DPI)	- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.
Down Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
Downside Risk	- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.
Excess Return	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
Excess Risk	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
Information Ratio	- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.
Public Market Equivalent (PME)	- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.
R-Squared	- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.
Return	- Compounded rate of return for the period.
Sharpe Ratio	- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.
Standard Deviation	- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.
Total Value to Paid In (TVPI)	- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life
Tracking Error	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
Treynor Ratio	- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.
Up Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.



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