Investment Performance Review Period Ending March 31, 2018

# West Palm Beach Police Pension Plan



# **Table Of Contents**

1	Market Environment	Page 1
2	Compliance Report	Page 10
3	Asset Allocation Compliance	Page 11
4	Asset Allocation Pie Chart	Page 13
5	Asset Allocation & Performance Trailing Periods (gross)	Page 15
6	Asset Allocation & Performance Trailing Periods (net)	Page 17
7	Asset Allocation & Performance Fiscal Year Periods (gross)	Page 19
8	Asset Allocation & Performance Fiscal Year Periods (net)	Page 22
9	Total Fund Composite Returns Based Analysis	Page 25
10	Rhumbline Equity Returns Based Analysis	Page 29
11	Rhumbline R1000 Value Returns Based Analysis	Page 30
12	Rhumbline R1000 Growth Returns Based Analysis	Page 31
13	Rhumbline S&P Mid Cap 400 Returns Based Analysis	Page 32
14	Anchor Equity Returns Based Analysis	Page 33
15	New Amsterdam Equity Returns Based Analysis	Page 37
16	Eagle Equity Returns Based Analysis	Page 41
17	Wellington Equity Returns Based Analysis	Page 45
18	Vanguard Intl Returns Based Analysis	Page 47
19	Oppenheimer Int Equity Returns Based Analysis	Page 49
20	Rhumbline International Eq Returns Based Analysis	Page 53
21	Garcia Hamilton Fixed Inc Returns Based Analysis	Page 55
22	Rhumbline Fixed Income Returns Based Analysis	Page 59
23	Intercontinental Returns Based Analysis	Page 61
24	JPM Returns Based Analysis	Page 65
25	Benchmark History	Page 67
26	Definitions & Disclosure Pages	Page 69

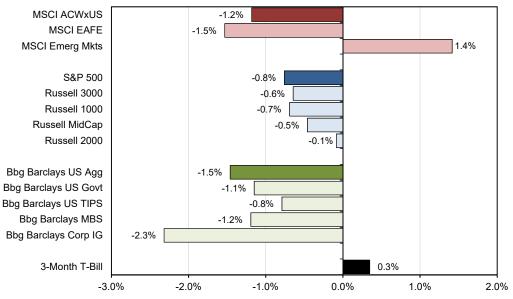


**1st Quarter 2018 Market Environment** 

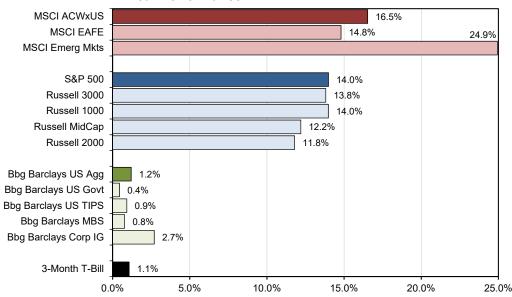


- Market returns were broadly negative across major equity and fixed income indices as we finished a highly volatile 1st quarter of 2018. Broad domestic and international equity markets pulled back modestly following a very strong 2017. Fixed income indices also posted negative results, producing returns in-line with those of equities during the quarter. However, when viewed over the past 1-year period, returns remain positive for major indices as improving macroeconomic data and robust corporate earnings worldwide outweighed the near-term market uncertainty. The US stock market represented by the Russell 3000 Index returned -0.6% and 13.8% for the quarter and 1-year period respectively. While the Russell 3000 outperformed the international MSCI ACWI ex US Index during the 1st quarter, international stocks have performed better over the last 12 months. While the US economy continues to show signs of expansion, investors focused on the future path of Federal Reserve (Fed) monetary policy and the emergence of new protectionist trade policies from the Trump administration during the quarter.
- International equity market benchmarks were mixed with developed markets posting modestly negative returns and emerging markets earning a slightly positive result. This is a continuation of the 2017 trend of emerging market outperformance relative to developed market equities. Emerging market stocks returned 1.4% and 24.9% over the quarter and 1-year period respectively. While the developed market MSCI EAFE Index lost ground through the 1st quarter, returning -1.5%, it still posted solid gains over the 1-year period returning 14.8%, narrowly outpacing major US indices. The strength in fundamentals abroad, ongoing US Dollar (USD) weakness and relatively accommodative global central bank policies continue to act as a tailwind to international markets relative to their US counterparts. Consequently, as the global recovery continues to take hold, international central banks have started to telegraph a greater likelihood of reduced stimulus in the future. Many international markets also saw their returns influenced, both positively and negatively, by ongoing political developments throughout the quarter.
- Interest rates on the US Treasury Yield Curve ended the 1st quarter of 2018 higher across all maturities. The movement in rates was considerable during the quarter as markets reacted to the greater likelihood of increasing inflation and a more restrictive than expected US monetary policy going forward. The Fed followed suit by increasing short-term interest rates by 25 basis points at their March meeting, the third increase in the last 12 months. The rising interest rate environment negatively impacted fixed income market returns for the quarter. The Bloomberg Barclays US Aggregate Index fell -1.5% for the quarter, but managed a positive 1.2% return for the 1-year period. Corporate credit reversed its 2017 trend of outperformance relative to other investment grade sectors returning -2.3% during the 1st quarter as credit spreads began to widen.

### **Quarter Performance**



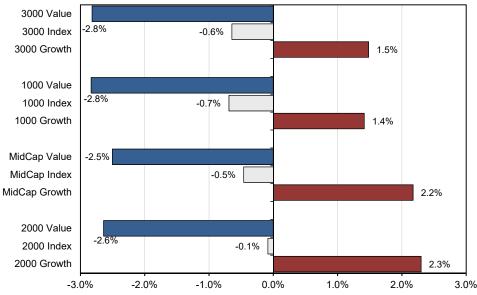
#### 1-Year Performance



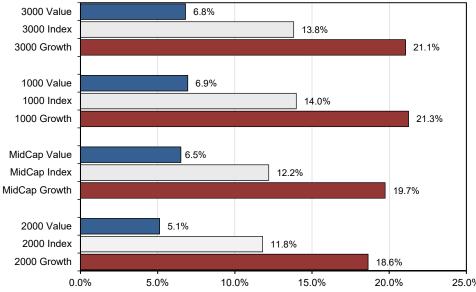


- US equity index returns were mixed across the style and capitalization spectrum to start 2018 with growth indices being the best performers. Markets were highly volatile throughout the quarter. Investors initially cheered the passage of the republican party tax reforms containing reductions to both individual and corporate income tax rates, increasing expectations for consumer spending and corporate earnings going forward. However, high US wage growth in January raised investor concerns that inflation could be picking up more quickly than the market expected, and would therefore require increased Fed action to prevent overheating of the economy. Market volatility rose and the S&P 500 Index had its first correction since 2015, falling over 10%. The market began a recovery from its February low as later economic releases made it appear that fears over inflation had likely been overstated. However, volatility returned in March when the Trump administration announced a series of protectionist tariff policies, with emphasis placed on China, increasing the potential for a global trade war. Despite the considerable market volatility, most US economic data was positive during the quarter and congress passed a new federal budget deal that will increase government spending by about \$300 billion over the next two years which can be used to stimulate the economy over the short-term.
- During the quarter, small cap stocks outperformed mid and large cap equities. The small cap Russell 2000 Index returned -0.1% during the period, while the large cap Russell 1000 Index returned -0.7%. The opposite was true over the 1-year period as large cap names were the best performers. The Russell 1000 returned 14.0% over the trailing year while the Russell 2000 posted a return of 11.8%. This large cap outperformance can be partially explained by their greater exposure to foreign markets relative to small cap companies. This can be especially beneficial during periods of USD weakness, such as that experienced over the last year. Large cap companies generate more revenue outside of the US which can expose them to faster growing markets, foreign tax benefits or strengthening foreign currencies.
- Growth indices outperformed value indices across the market cap spectrum for the fifth straight quarter and were all able to post a positive return for the 1st quarter of 2018. Performance for growth indices more than doubled value index performance for each respective cap segment for the year. 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 "bond proxy" sectors such as REITs, utilities and telecom. Lower exposure to the energy sector also acted as tailwind to growth benchmarks.

## **Quarter Performance - Russell Style Series**

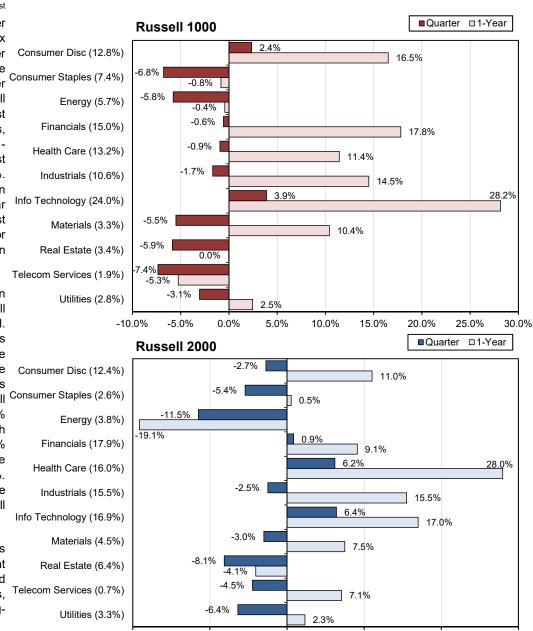


# 1-Year Performance - Russell Style Series





- Sector performance was largely negative across large cap sectors for the 1st quarter of 2018. Only two of eleven sectors had positive returns for the quarter and only three of eleven economic sectors outpaced the Russell 1000 Index return. Cyclical sectors tended to do well through the guarter with the higher yielding bond proxy sectors lagging on a relative basis as interest rates rose sharply during the period. Technology stocks continued their 2017 gains over the quarter, gaining 3.9% and consumer discretionary stocks performed well on the back of a strong holiday season earning a 2.4% return. The largest detractors for the quarter were the more defensive telecom services. consumer staples and real estate sectors which returned -7.4%, -6.8% and -5.9% respectively. Over the trailing 1-year period, technology was the best performing sector by a relatively wide margin returning an impressive 28.2%. Consumer discretionary and financials also returned greater than 15%. Seven of eleven large cap economic sectors posted positive returns for the 1-year period with six posting double digit returns. Telecom services was the largest underperformer losing -5.3%. The three other sectors with negative returns for the trailing year (real estate, energy and consumer staples) fell by less than 1.0%.
- Small cap sector results were mixed relative to their large capitalization counterparts. Only three of eleven economic sectors outpaced the Russell 2000 Index return for the quarter and posted positive results for the period. Like the large cap index sector performance, higher dividend yielding sectors also tended to trail more economically sensitive sectors. Technology was the best performing sector returning 6.4%. However, there were several notable differences, particularly in consumer discretionary and energy where there was significant underperformance relative to their large cap counterparts. Small Consumer Staples (2.6%) cap sectors trailed large cap sectors in those two categorizations by over 5.0% during the guarter. Similarly, the small cap health care sector had much stronger performance than the large cap health care sector posting a 6.2% gain for the quarter. Over the 1-year period, nine of eleven sectors have posted gains with four of eleven sectors having returns greater than 10%. Health care stocks were the best performers within the Russell 2000 for the year returning a solid 28.0%. Energy and real estate were the only Russell 2000 sectors to post a negative return, falling -19.1% and -4.1% respectively.
- Using S&P 500 sector valuations as a proxy for the market, forward P/E ratios for eight of the GICS sectors were higher than their long-term averages at quarter-end. Using these historical P/E measures, the utilities, materials and energy 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.



-20.0%

-10.0%

0.0%

10.0%

20.0%



30.0%

Top 10 Weighted Stocks					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	
Apple Inc	3.41%	-0.5%	18.6%	Information Technology	
Microsoft Corp	2.74%	7.2%	41.5%	Information Technology	
Amazon.com Inc	2.33%	23.8%	63.3%	Consumer Discretionary	
Berkshire Hathaway Inc B	1.54%	0.6%	19.7%	Financials	
JPMorgan Chase & Co	1.52%	3.4%	28.0%	Financials	
Facebook Inc A	1.51%	-9.4%	12.5%	Information Technology	
Johnson & Johnson	1.38%	-7.7%	5.5%	Health Care	
Exxon Mobil Corp	1.27%	-9.9%	-5.5%	Energy	
Alphabet Inc C	1.25%	-1.4%	24.4%	Information Technology	
Alphabet Inc A	1.24%	-1.5%	22.3%	Information Technology	

Top 10 Weighted Stocks					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector	
bluebird bio Inc	0.52%	-4.1%	87.8%	Health Care	
MGIC Investment Corp	0.49%	-7.9%	28.3%	Financials	
Sterling Bancorp	0.49%	-8.1%	-3.7%	Financials	
Wintrust Financial Corp	0.49%	4.7%	25.5%	Financials	
Umpqua Holdings Corp	0.48%	3.9%	25.1%	Financials	
Idacorp Inc	0.45%	-2.7%	9.2%	Utilities	
Hancock Holding Co	0.44%	4.9%	15.8%	Financials	
LivaNova PLC	0.44%	10.7%	80.6%	Health Care	
WGL Holdings Inc	0.44%	-2.0%	3.8%	Utilities	
Radian Group Inc	0.42%	-7.6%	6.1%	Financials	

Top 10 Performing Stocks (by Quarter)					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	
XL Group Ltd	0.06%	57.8%	41.6%	Financials	
Abiomed Inc	0.05%	55.3%	132.4%	Health Care	
Netflix Inc	0.48%	53.9%	99.8%	Consumer Discretionary	
Validus Holdings Ltd	0.02%	44.6%	23.1%	Financials	
Herbalife Ltd	0.02%	43.9%	67.6%	Consumer Staples	
Agios Pharmaceuticals Inc	0.02%	43.0%	40.0%	Health Care	
Match Group Inc	0.01%	41.9%	172.1%	Information Technology	
Square Inc A	0.05%	41.9%	184.7%	Information Technology	
CSRA Inc	0.03%	38.6%	43.0%	Information Technology	
DST Systems Inc	0.02%	34.8%	37.9%	Information Technology	

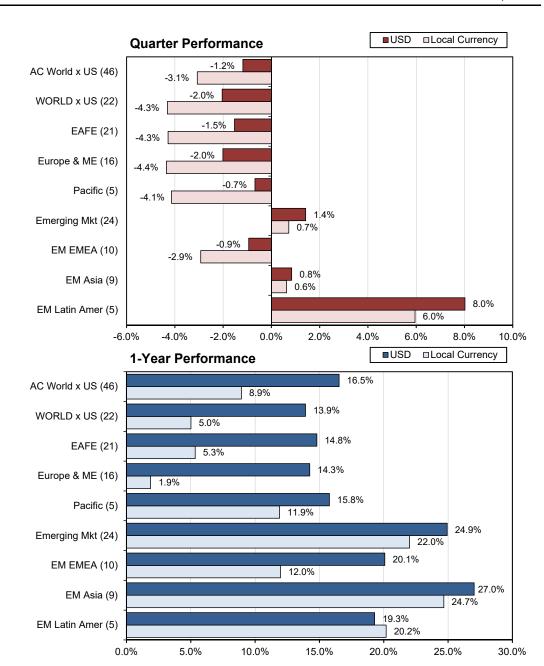
Top 10 Performing Stocks (by Quarter)					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector	
Atara Biotherapeutics Inc	0.13%	115.5%	89.8%	Health Care	
Iovance Biotherapeutics Inc	0.12%	111.3%	126.8%	Health Care	
Cambium Learning Group Inc	0.01%	97.2%	128.6%	Consumer Discretionary	
G1 Therapeutics Inc	0.01%	86.7%	N/A	Health Care	
Arsanis Inc	0.00%	79.4%	N/A	Health Care	
Eastman Kodak Co	0.00%	72.6%	-53.5%	Information Technology	
American Public Education Inc	0.07%	71.7%	87.8%	Consumer Discretionary	
Infinera Corp	0.16%	71.6%	6.2%	Information Technology	
Novavax Inc	0.04%	69.4%	64.1%	Health Care	
WMIH Corp	0.03%	67.2%	-2.1%	Financials	

Bottom 10 Performing Stocks (by Quarter)					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	
Colony NorthStar Inc A	0.01%	-49.8%	-52.7%	Real Estate	
Weatherford International PLC	0.01%	-45.1%	-65.6%	Energy	
Akorn Inc	0.01%	-41.9%	-22.3%	Health Care	
Universal Display Corp	0.02%	-41.5%	17.4%	Information Technology	
Macquarie Infrastructure Corp	0.01%	-40.3%	-49.7%	Industrials	
Patterson Companies Inc	0.01%	-38.0%	-49.6%	Health Care	
Mallinckrodt PLC	0.01%	-35.8%	-67.5%	Health Care	
L Brands Inc	0.04%	-35.8%	-14.5%	Consumer Discretionary	
OPKO Health Inc	0.00%	-35.3%	-60.4%	Health Care	
Coherent Inc	0.02%	-33.6%	-8.9%	Information Technology	

Bottom 10 Performing Stocks (by Quarter)					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector	
Dermira Inc	0.01%	-71.3%	-76.6%	Health Care	
Ascent Capital Group Inc A	0.00%	-68.0%	-74.0%	Consumer Discretionary	
Roadrunner Transportation Systems Inc	0.01%	-67.1%	-63.0%	Industrials	
Tintri Inc	0.00%	-66.5%	N/A	Information Technology	
Westmoreland Coal Co	0.00%	-66.1%	-97.2%	Energy	
Protagonist Therapeutics Inc	0.01%	-58.7%	-32.9%	Health Care	
RAIT Financial Trust	0.00%	-56.9%	-94.5%	Real Estate	
Ultra Petroleum Corp	0.08%	-54.0%	-67.4%	Energy	
Melinta Therapeutics Inc	0.01%	-53.2%	-60.5%	Health Care	
Tetraphase Pharmaceuticals Inc	0.02%	-51.3%	-66.6%	Health Care	



- Similar to domestic equities, broad international equity returns pulled back during the 1st quarter. Performance was largely driven by the same catalysts as the US equity markets, as global macroeconomic data remained generally positive. US investors in international markets had a currency effect tailwind as the USD continued its 2017 fall, weakening against most other currencies during the 1st quarter. The MSCI ACWI ex US Index lost -1.2% in USD terms and -3.1% in local currency terms. Emerging markets were a bright spot for the quarter with the MSCI Emerging Markets Index finishing with a slight gain. The returns over the 1-year period are substantially better with MSCI ACWI ex US returning 16.5% in USD terms and 8.9% in local currency terms.
- Results for developed market international indices were negative to start 2018 in both USD and local currency terms with the MSCI EAFE Index returning -1.5% and -4.3% respectively. Investors ignored broadly positive global economic data, focusing their attention on US monetary policy uncertainty and the outlook for global trade relations. There were several newsworthy political events during the quarter. In Europe, Italian elections resulted in a hung parliament with the populist Five Star Movement winning the largest number of seats. There is currently no clear path for a coalition government to be formed and it is possible elections may need to be re-held. In contrast, German Chancellor Merkel succeeded in forming a "grand coalition" government during March. In the UK, continued progress was made on "Brexit" as the UK and European Union were able to agree to initial terms on a transition period following the UK's separation that should allow for an orderly withdrawal. In Japan, Prime Minister Abe was engulfed in a scandal regarding a discounted land sale to a school operator with ties to his wife and its subsequent coverup. The MSCI EAFE Index returned 14.8% and 5.3% for the last twelve months in USD and local currency terms respectively.
- The MSCI Emerging Market Index outperformed developed markets for the 1st quarter, posting a narrow gain of 1.4% and 0.7% in USD and local currency terms respectively. While emerging markets were also affected by the rise in global market volatility, strong GDP and corporate earnings growth combined with USD weakness helped them to finish the quarter ahead. China modestly outperformed despite late quarter trade tensions with the US. Brazil was the index's strongest performer, returning 12.4% in USD terms, after former President Lula da Silva had a corruption and money laundering conviction upheld, likely preventing him from running for office again and opening the door for future economic reforms. Russian equities also performed well after Standard & Poor's raised the countries credit rating to investment grade for the first time in over a decade citing prudent policy responses to sanctions and falling commodity prices. Indian stocks underperformed after fraud allegations emerged at a state-run bank. One year returns for the MSCI Emerging Market Index were 24.9% in USD terms and 22.0% in terms of local currency.



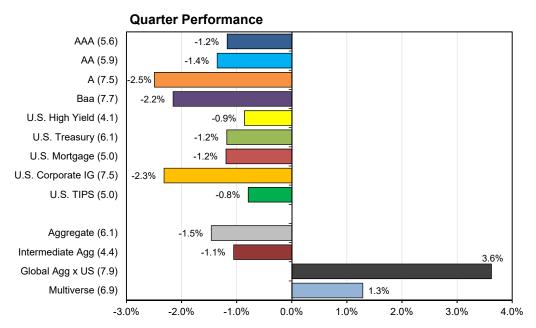


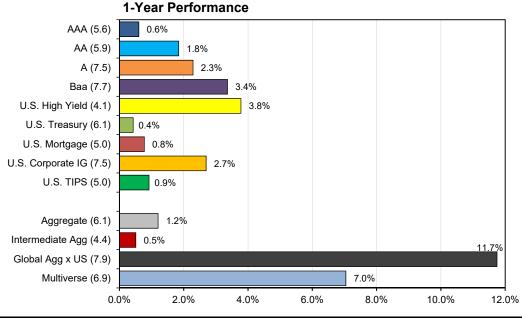
MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	12.6%	0.7%	19.2%
Consumer Staples	11.1%	-3.0%	10.4%
Energy	5.3%	-2.0%	21.4%
Financials	21.1%	-2.2%	13.6%
Health Care	10.2%	-0.9%	7.0%
Industrials	14.6%	-1.5%	17.4%
Information Technology	6.6%	1.1%	26.2%
Materials	8.0%	-3.8%	19.8%
Real Estate	3.5%	-1.5%	13.1%
Telecommunication Services	3.8%	-3.9%	3.1%
Utilities	3.3%	1.3%	12.1%
Total	100.0%	-1.5%	14.8%
MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	11.4%	-1.0%	18.6%
Consumer Staples	9.5%	-2.8%	11.0%
Energy	6.7%	-1.8%	15.4%
Financials	23.1%	-1.1%	15.9%
Health Care	7.7%	-0.3%	9.1%
Industrials	11.8%	-1.6%	16.3%
Information Technology	11.8%	1.8%	34.3%
Materials	8.0%	-2.9%	18.4%
Real Estate	3.2%	-1.7%	16.5%
Telecommunication Services	3.9%	-4.1%	3.6%
Utilities	3.0%	1.2%	10.9%
Total	100.0%	-1.2%	16.5%
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Consumer Discretionary	9.5%	-6.1%	16.5%
Consumer Staples	6.4%	-0.8%	15.8%
Energy	7.2%	7.5%	24.7%
Financials	24.0%	4.2%	25.6%
Health Care	2.8%	7.0%	34.6%
Industrials	5.2%	-0.8%	10.1%
Information Technology	27.8%	2.1%	40.1%
Materials	7.3%	0.7%	20.0%
Real Estate	2.8%	-2.1%	32.5%
Telecommunication Services	4.6%	-3.7%	4.5%
Utilities	2.4%	3.0%	9.2%
Total	100.0%	1.4%	24.9%

	MSCI-EAFE	MSCI-ACWIXUS	Quarter	1- Year
Country	Weight	Weight	Return	Return
Japan	24.6%	16.8%	0.8%	19.6%
United Kingdom	17.3%	11.8%	-3.9%	11.9%
France	10.9%	7.5%	0.3%	20.4%
Germany	9.7%	6.6%	-3.6%	13.6%
Switzerland	7.8%	5.3%	-4.3%	8.2%
Australia	6.6%	4.5%	-6.2%	1.4%
Netherlands	3.7%	2.5%	1.0%	19.9%
Hong Kong	3.6%	2.5%	-1.4%	18.4%
Spain	3.2%	2.2%	-1.7%	8.8%
Sweden	2.7%	1.8%	-2.4%	7.6%
Italy	2.5%	1.7%	5.4%	27.5%
Denmark	1.8%	1.2%	-1.5%	25.1%
Singapore	1.4%	0.9%	2.8%	22.8%
Belgium	1.1%	0.8%	0.5%	13.3%
Finland	1.0%	0.7%	8.2%	23.5%
Norway	0.7%	0.5%	2.3%	29.3%
Ireland	0.5%	0.3%	-5.9%	7.2%
Israel	0.5%	0.3%	-5.3%	-8.4%
Austria	0.3%	0.2%	2.2%	48.5%
New Zealand	0.2%	0.1%	-5.1%	4.0%
Portugal	0.2%	0.1%	3.1%	17.9%
Total EAFE Countries	100.0%	68.3%	-1.5%	14.8%
Canada		6.2%	-7.4%	4.9%
Total Developed Countries		74.5%	-2.0%	13.9%
China		7.6%	1.8%	38.9%
Korea		3.9%	-0.5%	25.4%
Taiwan		3.0%	5.7%	20.6%
India		2.1%	-7.0%	10.2%
Brazil		1.9%	12.4%	26.4%
South Africa		1.7%	-4.2%	25.0%
Russia		0.9%	9.4%	20.6%
Mexico		0.7%	0.9%	0.9%
Malaysia		0.6%	8.5%	25.3%
Thailand		0.6%	9.0%	35.0%
Indonesia		0.5%	-7.2%	7.8%
Chile		0.3%	1.5%	24.5%
Poland		0.3%	-8.2%	20.7%
Philippines		0.3%	-11.6%	3.8%
Turkey		0.3%	-5.0%	18.6%
United Arab Emirates		0.2%	-1.0%	-0.4%
Qatar		0.1%	2.5%	-11.0%
Colombia		0.1%	4.9%	15.4%
Peru		0.1%	10.3%	44.7%
Greece		0.1%	-6.8%	24.3%
Hungary		0.1%	-1.0%	38.6%
Czech Republic		0.1%	6.4%	36.4%
Egypt		0.0%	10.9%	14.5%
Pakistan		0.0%	11.4%	-14.0%
Total Emerging Countries		25.5%	1.4%	24.9%
Total ACWIxUS Countries		100.0%	-1.2%	16.5%



- Broad fixed income benchmarks were mostly negative during the 1st quarter, with international bonds being the exception. Early in the guarter, particularly strong January wage growth report caused investors to speculate that inflation was quickly increasing and that the Fed would need to tighten monetary policy to a greater degree than originally planned. This sent a shock through financial markets and caused interest rates to rise considerably. Economic releases later in the guarter showed that the fear of inflation was most likely overstated. Later in the quarter, the Federal Open Market Committee (FOMC), led by new Fed Chair Jerome Powell, decided to increase short-term interest rates by 25 basis points. The current Fed Funds Rate target sits at 1.50% - 1.75%. This rate increase was expected by the market and, importantly, the Fed did not change its plan for further rate increases for 2018. Concerns over new Treasury issuance needed to finance plans for increased fiscal spending also could have contributed to the rise in interest rates. The yield curve flattened through the quarter as short-term yields rose at a greater rate than longer-term yields. The Bloomberg Barclays US Aggregate Index fell -1.5% the guarter, but managed a positive 1.2% return for the trailing year.
- Within investment grade credit, higher quality corporate issues generally outperformed lower quality issues for the quarter as credit spreads widened and investors looked for safety amid increased financial market volatility. AAA rated credit was the best performing investment grade credit quality segment returning -1.2% for the quarter. Interestingly, high yield debt outperformed relative to investment grade credit, returning -0.9%, as spreads widened to a lesser degree for these issues and the index benefitted from a lower duration. Part of the reason for the increased spread widening for investment grade issues relative to high yield issues was selling pressure from companies repatriating foreign cash reserves in response to the new tax code. When viewed over the 1-year period, lower quality issues have advanced to a greater degree, partly due to the continued strength in the global economy. High yield debt returned 3.8% over the period whereas AAA rated issues returned 0.6%.
- US Treasury securities were the best performing investment grade sector through the quarter, narrowly outperforming US mortgage backed securities (MBS). This reversed the trend of corporate credit outperformance that was witnessed through 2017 as investors reacted to market volatility and moved into higher quality government issues. The Bloomberg Barclays US Corporate IG Index returned -2.3% for the quarter as widening credit spreads and a higher duration acted as headwinds to these issues. US Treasury and US MBS both posted a -1.2%. However, over the trailing year, Treasury securities were the worst performing investment grade sector returning 0.4%, while US investment grade corporate bonds were the best performing investment grade sector gaining 2.7%.

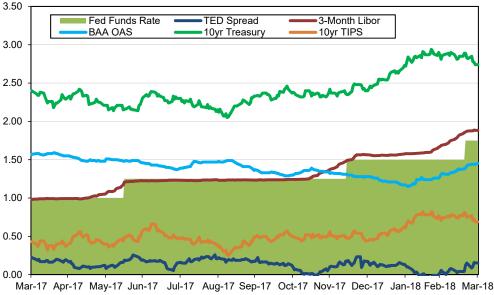




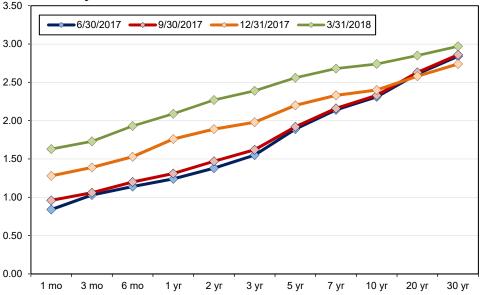


- In contrast to their domestic counterparts, global fixed income indices posted gains for the guarter. Global benchmarks are impacted by the same local yield and duration factors as domestic benchmarks. While these indices have relatively high durations, which would have acted as a headwind in the current quarter as interest rates increased, the returns of these indices are also significantly influenced by fluctuations in their currency denomination relative to the USD. This currency effect can add additional return to foreign issues as it did during calendar year 2017, or it can further exacerbate negative performance as it did in 2016. Global bonds outperformed domestic issues during the quarter and 1-year period partially due to a currency effect tailwind caused by a weakening USD. Returns on global bonds represented by the Bloomberg Barclays Global Aggregate ex US Index were 3.6% and 11.7% for the 1st guarter and trailing twelve months respectively. As the global economy continues to recover, several international central banks have started to move toward a less accommodative posture. Notably, the ECB, has extended its current quantitative easing program well into 2018, but has reduced the amount of monthly asset purchases from 60 billion euro per month to 30 billion euro per month. They also signaled that they would end the program entirely if the eurozone recovery continues to flourish. Similarly, the Bank of Japan (BoJ) inferred that they could end their quantitative easing program sometime in 2019 if target metrics were met. Lastly, the BoE voted to raise interest rates for the first time in a decade during the 4th quarter of 2017 and indicated rates may rise again more quickly than expected.
- 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 1st quarter, rising from 2.40%, to a peak of 2.94%, before falling to 2.74% 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 decline in credit spreads throughout 2017. However, the trend begins to reverse in early February. This increase is equivalent to an interest rate increase on corporate bonds, which produces a headwind for corporate bond index returns. These credit spreads have widened by about 17 basis points over the last 3-months. The green shading at the bottom of the graph illustrates the gradual increase in the Federal Funds Rate due to a less 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 significant upward shift in interest rates that occurred in the 1st quarter is clearly visible.

# 1-Year Trailing Market Rates









Total Fund Compliance:	Yes	No
The total plan return (net) equaled or exceeded the total plan benchmark over the trailing three year period.		•
The total plan return (net) equaled or exceeded the total plan benchmark over the trailing five year period.		•
The three year return ranks in the top 40% of its peers.	•	
The five year return ranks in the top 40% of its peers.	•	
The five year standard deviation is less than the total fund index standard deviation.		•
Equity Compliance:	Yes	No
The total equity return (net) equaled or exceeded the benchmark over the trailing three year period.		•
The total equity return (net) equaled or exceeded the benchmark over the trailing five year period.		•
The amount invested in any one issuing company is less than 5% of the Fund's total assets.	•	
The aggregate investment in any one company less than 5% of the outstanding stock of the company.	•	
The amount invested in common stocks and convertible bonds is less than or equal to 70% of the Total Fund's total assets at market value.	•	
Fixed Income Compliance:	Yes	No
The total fixed income return (net) equaled or exceeded the benchmark over the trailing three year period.	•	
The total fixed income return (net) equaled or exceeded the benchmark over the trailing five year period.	•	
The minimum quality rating of the domestic bond investments is BBB from Standard & Poor's or BAA from Moody's.	•	

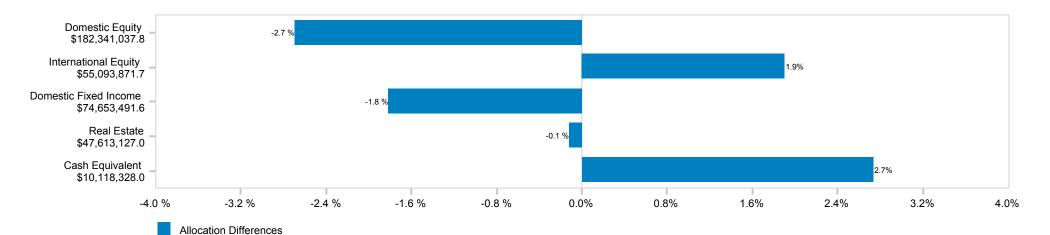


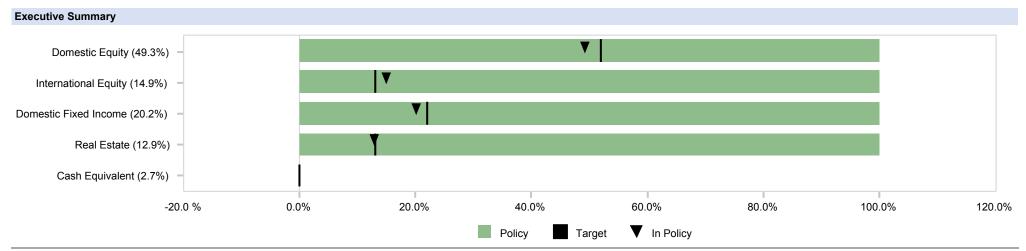
Asset Allocation Compliance					
	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund Composite	369,819,856	100.0	100.0	0.0	-
Eagle Equity	22,980,789	6.2	5.0	1.2	-4,489,796
Anchor Equity	16,901,995	4.6	4.0	0.6	-2,109,201
New Amsterdam Equity	33,428,759	9.0	8.0	1.0	-3,843,171
RhumbLine Equity S&P 500	36,657,417	9.9	9.0	0.9	-3,373,630
RhumbLine S&P Mid Cap 400	16,156,298	4.4	4.0	0.4	-1,363,504
RhumbLine R1000 Growth	19,613,091	5.3	8.0	-2.7	9,972,497
Wellington	18,227,416	4.9	5.0	-0.1	263,577
RhumbLine R1000 Value	20,957,009	5.7	9.0	-3.3	12,326,778
Oppenheimer Int Equity	13,747,866	3.7	3.0	0.7	-2,653,270
Vanguard Intl Equity (VTRIX)	20,961,130	5.7	5.0	0.7	-2,470,137
RhumbLine International Equity	20,384,899	5.5	5.0	0.5	-1,893,906
Garcia Hamilton Fixed Income	79,733,168	21.6	22.0	-0.4	1,627,200
RhumbLine Fixed Income	1,100,368	0.3	0.0	0.3	-1,100,368
Intercontinental	32,492,188	8.8	8.0	0.8	-2,906,600
J.P. Morgan	15,120,939	4.1	5.0	-0.9	3,370,054
R&D Cash	1,356,525	0.4	0.0	0.4	-1,356,525

#### **Executive Summary** Eagle Equity (6.2%) Anchor Equity (4.6%) New Amsterdam Equity (9.0%) RhumbLine Equity S&P 500 (9.9%) RhumbLine S&P Mid Cap 400 (4.4%) Recommendation RhumbLine R1000 Growth (5.3%) Wellington (4.9%) RhumbLine R1000 Value (5.7%) Oppenheimer Int Equity (3.7%) Vanguard Intl Equity (VTRIX) (5.7%) RhumbLine International Equity (5.5%) Garcia Hamilton Fixed Income (21.6%) RhumbLine Fixed Income (0.3%) Intercontinental (8.8%) J.P. Morgan (4.1%) R&D Cash (0.4%) 20.0% 40.0% 60.0% 80.0% -20.0 % 100.0% 120.0% 0.0% Target ▼ In Policy Policy



	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	182,341,038	49.3	52.0	-2.7	9,965,287
International Equity	55,093,872	14.9	13.0	1.9	-7,017,290
Domestic Fixed Income	74,653,492	20.2	22.0	-1.8	6,706,877
Real Estate	47,613,127	12.9	13.0	-0.1	463,454
Cash Equivalent	10,118,328	2.7	0.0	2.7	-10,118,328
Total Fund	369,819,856	100.0	100.0	0.0	-

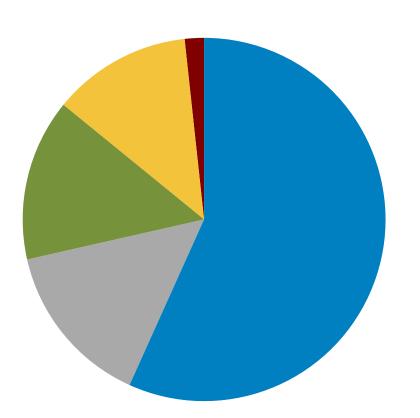


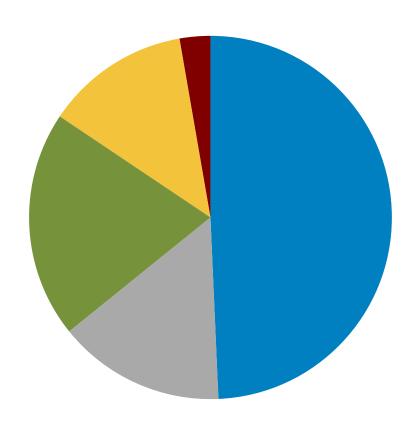




Asset Allocation By Segment as of December 31, 2017 : \$374,530,839

Asset Allocation By Segment as of March 31, 2018 : \$369,819,856



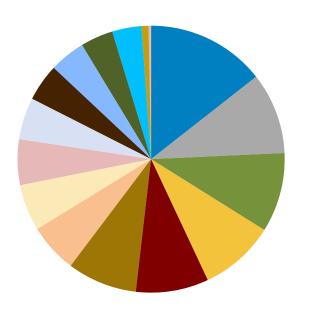


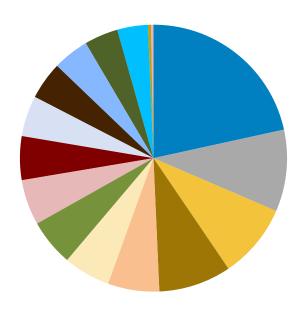
ocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
■ Domestic Equity	212,513,970	56.7	■ Domestic Equity	182,341,038	49.3
International Equity	55,122,736	14.7	International Equity	55,093,872	14.9
Domestic Fixed Income	53,998,664	14.4	Domestic Fixed Income	74,653,492	20.2
Real Estate	46,459,696	12.4	Real Estate	47,613,127	12.9
Cash Equivalent	6,435,774	1.7	Cash Equivalent	10,118,328	2.7



Asset Allocation By Manager as of December 31, 2017 : \$374,530,839

Asset Allocation By Manager as of March 31, 2018 : \$369,819,856





ocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
■ Garcia Hamilton Fixed Income	53,933,102	14.4	■ Garcia Hamilton Fixed Income	79,733,168	21.6
■ RhumbLine Equity S&P 500	36,940,395	9.9	■ RhumbLine Equity S&P 500	36,657,417	9.9
RhumbLine R1000 Value	36,090,680	9.6	New Amsterdam Equity	33,428,759	9.0
New Amsterdam Equity	34,182,030	9.1	Intercontinental	32,492,188	8.8
■ RhumbLine R1000 Growth	32,976,475	8.8	Eagle Equity	22,980,789	6.2
Intercontinental	31,672,405	8.5	Vanguard Intl Equity (VTRIX)	20,961,130	5.7
Eagle Equity	22,270,504	5.9	RhumbLine R1000 Value	20,957,009	5.7
Vanguard Intl Equity (VTRIX)	21,093,360	5.6	RhumbLine International Equity	20,384,899	5.5
RhumbLine International Equity	20,714,297	5.5	■ RhumbLine R1000 Growth	19,613,091	5.3
Wellington	19,019,192	5.1	Wellington	18,227,416	4.9
Anchor Equity	16,939,974	4.5	Anchor Equity	16,901,995	4.6
RhumbLine S&P Mid Cap 400	16,281,499	4.3	RhumbLine S&P Mid Cap 400	16,156,298	4.4
J.P. Morgan	14,787,291	3.9	J.P. Morgan	15,120,939	4.1
Oppenheimer Int Equity	13,315,102	3.6	Oppenheimer Int Equity	13,747,866	3.7
R&D Cash	3,199,014	0.9	R&D Cash	1,356,525	0.4
RhumbLine Fixed Income	1,115,520	0.3	RhumbLine Fixed Income	1,100,368	0.3



Asset Allocation & Performance									_						
		ocation							Perfor	mance	(%)				
	Market Value \$	%	Q	TR	FY	/TD	1	YR	3 '	YR	5	YR	Ince	ption	Inceptio Date
Total Fund Composite	369,819,856	100.0	-0.26	(45)	3.73	(32)	10.46	(43)	6.88	(30)	8.46	(25)	6.26	(23)	10/01/2007
Total Fund Policy Index			-0.37	(54)	3.45	(46)	10.02	(55)	7.17	(20)	8.78	(15)	6.49	(14)	
All Public Plans-Total Fund Median			-0.32		3.34		10.20		6.36		7.84		5.76		
Total Equity Composite	240,016,669	64.9	-0.64		4.49		13.01		7.86		9.89		6.19		10/01/2007
Total Equity Policy Index			-0.52		5.04		14.05		9.08		11.55		6.91		
Total Domestic Equity	184,922,774	50.0													
RhumbLine Equity S&P 500	36,657,417	9.9	-0.77	(56)	5.81	(54)	13.95	(51)	N/A		N/A		11.67	(37)	07/01/2015
S&P 500 Index			-0.76	(55)	5.84	(52)	13.99	(50)	10.78	(37)	13.31	(47)	11.70	(36)	
IM U.S. Large Cap Equity (SA+CF) Median			-0.68		5.86		13.99		10.19		13.20		11.05		
RhumbLine R1000 Value	20,957,009	5.7	-2.83	(77)	2.33	(81)	N/A		N/A		N/A		7.24	(84)	06/01/2017
Russell 1000 Value Index			-2.83	(77)	2.34	(81)	6.95	(89)	7.88	(70)	10.78	(76)	7.25	(84)	
IM U.S. Large Cap Value Equity (SA+CF) Median			-1.95		4.37		10.53		8.88		11.99		10.23		
RhumbLine R1000 Growth	19,613,091	5.3	1.41	(62)	9.36	(49)	21.21	(46)	N/A		N/A		21.21	(46)	04/01/2017
Russell 1000 Growth Index			1.42	(61)	9.39	(48)	21.25	(46)	12.90	(30)	15.53	(39)	21.25	(46)	
IM U.S. Large Cap Growth Equity (SA+CF) Median			1.99		9.26		20.83		11.66		15.03		20.83		
RhumbLine S&P Mid Cap 400	16,156,298	4.4	-0.77	(61)	5.43	(59)	10.96	(64)	N/A		N/A		15.34	(64)	10/01/2016
S&P MidCap 400 Index			-0.77	(61)	5.43	(59)	10.97	(64)	8.96	(48)	11.97	(68)	15.36	(62)	
IM U.S. Mid Cap Equity (SA+CF) Median			-0.26		6.00		12.73		8.81		12.54		16.02		
Anchor Equity	16,901,995	4.6	-0.09	(14)	3.80	(56)	8.35	(57)	7.38	(65)	10.03	(84)	7.65	(87)	10/01/2007
Russell Midcap Value Index			-2.50	(86)	2.86	(76)	6.50	(82)	7.23	(71)	11.11	(73)	7.75	(85)	
IM U.S. Mid Cap Value Equity (SA+CF) Median			-1.50		4.37		9.10		8.27		11.91		8.94		
New Amsterdam Equity	33,428,759	9.0	-2.10	(83)	0.44	(97)	8.43	(79)	6.71	(81)	N/A		10.52	(55)	10/01/2014
Russell 2500 Index			-0.24	(53)	4.99	(56)	12.31	(54)	8.15	(59)	11.55	(66)	10.55	(55)	
IM U.S. SMID Cap Equity (SA+CF) Median			-0.15		5.22		12.41		8.69		12.07		10.94		
Eagle Equity	22,980,789	6.2	3.39	(43)	9.55	(37)	19.09	(55)	11.90	(24)	13.08	(63)	11.61	(70)	07/01/2011
Russell 2000 Growth Index			2.30	(58)	6.99	(56)	18.63	(57)	8.77	(68)	12.90	(65)	11.83	(64)	
IM U.S. Small Cap Growth Equity (SA+CF) Median			2.90		8.11		20.28		10.06		13.59		12.44		
Vellington	18,227,416	4.9	-3.95	(91)	-0.98	(89)	1.84	(95)	N/A		N/A		9.46	(96)	04/01/2016
Russell 2000 Value Index			-2.64	(68)	-0.65	(85)	5.13	(79)	7.87	(66)	9.96	(79)	16.62	(45)	
IM U.S. Small Cap Value Equity (SA+CF) Median			-1.78		1.82		8.37		8.71		11.68		16.36		



	Allo	cation							Perfor	mance(	(%)				
	Market Value \$	%	Q.	TR	FY	/TD	1	YR	3 '	YR	5	YR	Ince	ption	Inceptio Date
Total International Equity	55,093,895	14.9													
Vanguard Intl Equity (VTRIX)	20,961,130	5.7	-0.63	(10)	4.24	(9)	17.67	(8)	6.10	(7)	N/A		7.16	(5)	07/01/2013
MSCI EAFE Value			-1.87	(76)	1.35	(59)	12.82	(77)	4.89	(26)	6.36	(16)	6.80	(11)	
IM International Large Cap Value Equity (MF) Median			-1.49		1.75		13.34		4.49		5.56		5.80		
Oppenheimer Int Equity	13,747,866	3.7	3.25	(16)	8.75	(53)	26.47	(35)	10.31	(46)	6.83	(41)	6.59	(39)	01/01/2013
MSCI Emerging Markets Index			1.47	(58)	9.08	(46)	25.37	(43)	9.21	(61)	5.37	(64)	4.79	(73)	
IM Emerging Markets Equity (SA+CF) Median			1.81	, ,	8.83	,	24.56	, ,	9.86	, ,	6.05	` '	5.87	,	
RhumbLine International Equity	20,384,899	5.5	-1.59	(81)	2.30	(83)	14.66	(81)	N/A		N/A		14.57	(79)	02/01/2016
MSCI EAFE Index			-1.41	(77)	2.80	(78)	15.32	(76)	6.05	(80)	6.98	(65)	15.05	(76)	
IM International Equity (SA+CF) Median			-0.09		5.24		19.48		8.42		7.97		18.91		
Total Fixed Income Composite	80,833,536	21.9	-0.47		-0.34		1.00		1.60		2.44		4.39		10/01/2007
Fixed Income Index	00,033,330	21.3	-1.05		-1.13		0.51		1.02		1.45		3.56		10/01/2007
Garcia Hamilton Fixed Income	79,733,168	21.6	-0.45	(12)	-0.33	(8)	0.99	(36)	1.65	(22)	2.47	(6)	4.85	(6)	10/01/2007
Fixed Income Index	70,700,100	21.0	-1.05	(83)	-1.13	(83)	0.51	(87)	1.02	(84)	1.45	(69)	3.56	(80)	10/01/2007
IM U.S. Intermediate Duration (SA+CF) Median			-0.90	(00)	-0.85	(00)	0.83	(0.)	1.32	(0.)	1.62	(00)	3.88	(00)	
RhumbLine Fixed Income	1,100,368	0.3	-1.36	(59)	-1.01	(76)	1.16	(91)	N/A		N/A		-0.71	(96)	10/01/2016
Blmbg. Barc. U.S. Aggregate Index			-1.46	(74)	-1.08	(84)	1.20	(90)	1.20	(91)	1.82	(90)	-0.67	(93)	
IM U.S. Broad Market Fixed Income (SA+CF) Median			-1.32		-0.75		1.89		1.89		2.39		0.25		
Total Real Estate	47.613.127	12.9													
	,,		2 = 2	<i>(</i> <b>-</b> )		(4.0)		(10)		(40)	40.00	(10)	40.50	(44)	0=10110010
ntercontinental	32,492,188	8.8	2.79	(7)	5.62	(13)	9.87	(18)	12.74	(16)	13.60	(18)	13.53	(41)	07/01/2010
Real Estate Policy			1.70	(96)	3.53	(100)	7.12	(94)	8.72	(89)	10.00	(92)	11.14	(92)	
IM U.S. Private Real Estate (SA+CF) Median			2.23		4.53		8.62		10.38		12.13		13.09		
J.P. Morgan	15,120,939	4.1	2.66	(13)	4.63	(44)	10.18	(7)	12.88	(13)	N/A		13.67	(13)	07/01/2014
Real Estate Policy			1.70	(96)	3.53	(100)	7.12	(94)	8.72	(89)	N/A		9.55	(89)	
IM U.S. Private Real Estate (SA+CF) Median			2.23		4.53		8.62		10.38		12.13		11.44		
R&D Cash	1,356,525	0.4													



	Allo	ocation				Performance	(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	Inception	Inception Date
Total Fund Composite	369,819,856	100.0	-0.33	3.55	10.06	6.38	7.94	5.86	10/01/2007
Total Fund Policy Index			-0.37	3.45	10.02	7.17	8.78	6.49	
Total Equity Composite	240,016,669	64.9	-0.70	4.35	12.69	7.41	9.36	5.74	10/01/2007
Total Equity Policy Index			-0.52	5.04	14.05	9.08	11.55	6.91	
Total Domestic Equity	184,922,774	50.0							
RhumbLine Equity S&P 500 S&P 500 Index	36,657,417	9.9	-0.78 -0.76	5.79 5.84	13.89 13.99	N/A 10.78	N/A 13.31	11.64 11.70	07/01/2015
RhumbLine R1000 Value Russell 1000 Value Index	20,957,009	5.7	-2.83 -2.83	2.32 2.34	N/A 6.95	N/A 7.88	N/A 10.78	7.21 7.25	06/01/2017
RhumbLine R1000 Growth Russell 1000 Growth Index	19,613,091	5.3	1.41 1.42	9.34 9.39	21.16 21.25	N/A 12.90	N/A 15.53	21.16 21.25	04/01/2017
RhumbLine S&P Mid Cap 400 S&P MidCap 400 Index	16,156,298	4.4	-0.78 -0.77	5.41 5.43	10.90 10.97	N/A 8.96	N/A 11.97	15.29 15.36	10/01/2016
Anchor Equity Russell Midcap Value Index	16,901,995	4.6	-0.21 -2.50	3.55 2.86	7.83 6.50	6.86 7.23	9.45 11.11	7.17 7.75	10/01/2007
New Amsterdam Equity Russell 2500 Index	33,428,759	9.0	-2.19 -0.24	0.24 4.99	8.00 12.31	6.26 8.15	N/A 11.55	10.07 10.55	10/01/2014
Eagle Equity Russell 2000 Growth Index	22,980,789	6.2	3.20 2.30	9.15 6.99	18.22 18.63	11.08 8.77	12.24 12.90	10.80 11.83	07/01/2011
Wellington Russell 2000 Value Index	18,227,416	4.9	-4.16 -2.64	-1.41 -0.65	0.93 5.13	N/A 7.87	N/A 9.96	8.62 16.62	04/01/2016



	Allo	ocation				Performance	(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	Inception	Inception Date
Total International Equity	55,093,895	14.9							
Vanguard Intl Equity (VTRIX)  MSCI EAFE Value	20,961,130	5.7	-0.63 -1.87	4.24 1.35	17.67 12.82	6.10 4.89	N/A 6.36	7.16 6.80	07/01/2013
Oppenheimer Int Equity MSCI Emerging Markets Index	13,747,866	3.7	3.05 1.47	8.32 9.08	25.50 25.37	9.44 9.21	5.97 5.37	5.78 4.79	01/01/2013
RhumbLine International Equity  MSCI EAFE Index	20,384,899	5.5	-1.60 -1.41	2.27 2.80	14.61 15.32	N/A 6.05	N/A 6.98	14.53 15.05	02/01/2016
Total Fixed Income Composite Fixed Income Index	80,833,536	21.9	<b>-0.52</b> -1.05	<b>-0.44</b> -1.13	<b>0.80</b> 0.51	<b>1.40</b> 1.02	<b>2.24</b> 1.45	<b>4.21</b> 3.56	10/01/2007
Garcia Hamilton Fixed Income Fixed Income Index	79,733,168	21.6	-0.50 -1.05	-0.43 -1.13	0.79 0.51	1.45 1.02	2.27 1.45	4.67 3.56	10/01/2007
RhumbLine Fixed Income Blmbg. Barc. U.S. Aggregate Inde	1,100,368 ex	0.3	-1.37 -1.46	-1.03 -1.08	1.12 1.20	N/A 1.20	N/A 1.82	-0.85 -0.67	10/01/2016
Total Real Estate	47,613,127	12.9							
Intercontinental Real Estate Policy	32,492,188	8.8	2.59 1.70	5.03 3.53	8.81 7.12	10.91 8.72	11.62 10.00	12.21 11.14	07/01/2010
J.P. Morgan Real Estate Policy	15,120,939	4.1	2.26 1.70	3.82 3.53	8.47 7.12	11.13 8.72	N/A N/A	12.13 9.55	07/01/2014
R&D Cash	1,356,525	0.4							



Asset Allocation & Performance												
	Allo	cation					Perforn	nance(%)				
	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	То	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010	Oct-2008 To Sep-2009	Oct-2007 To Sep-2008
Total Fund Composite	369,819,856	100.0	14.01 (16)	8.77 (74)	0.69 (24)	9.53 (65)	13.75 (29)	18.42 (38)	0.22 (52)	10.94 (25)	2.33 (43)	-12.97 (52)
Total Fund Policy Index All Public Plans-Total Fund Median			13.01 (33) 12.20	10.75 (17) 9.67	0.71 (23) -0.49	10.14 (51) 10.18	14.75 (15) 12.50	19.53 (18) 17.96	1.38 (26) 0.30	10.58 (32) 9.88	1.45 (53) 1.71	-13.64 (60) -12.87
Total Equity Composite	240,016,669	64.9	18.47	9.85	-1.34	10.82	18.19	22.91	-0.26	13.84	-2.87	-21.15
Total Equity Policy Index			18.97	14.06	-2.21	13.29	22.52	27.50	-0.83	11.21	-4.75	-22.19
Total Domestic Equity	184,922,774	50.0										
361 Capital (BRC Equity) Russell 1000 Value Index IM U.S. Large Cap Value Equity (SA+CF) Median	-	0.0	N/A 15.12 (77) 17.95	4.57 (97) 16.19 (26) 13.17	0.14 (20) -4.42 (65) -3.28	20.33 (26) 18.89 (42) 18.36	N/A 22.30 (60) 23.73	N/A 30.92 (26) 28.24	N/A -1.89 (62) -0.99	N/A 8.90 (55) 9.29	N/A -10.62 (84) -5.91	N/A -23.56 (74) -20.59
RhumbLine Equity S&P 500 S&P 500 Index IM U.S. Large Cap Equity (SA+CF) Median	36,657,417	9.9	18.55 (58) 18.61 (56) 18.86	15.40 (25) 15.43 (24) 13.20	N/A -0.61 (57) -0.32	N/A 19.73 (37) 18.79	N/A 19.34 (70) 21.09	N/A 30.20 (38) 29.15	N/A 1.14 (45) 0.75	N/A 10.16 (50) 10.11	N/A -6.91 (65) -5.50	N/A -21.98 (63) -20.82
RhumbLine R1000 Value Russell 1000 Value Index IM U.S. Large Cap Value Equity (SA+CF) Median	20,957,009	5.7	N/A 15.12 (77) 17.95	N/A 16.19 (26) 13.17	N/A -4.42 (65) -3.28	N/A 18.89 (42) 18.36	N/A 22.30 (60) 23.73	N/A 30.92 (26) 28.24	N/A -1.89 (62) -0.99	N/A 8.90 (55) 9.29	N/A -10.62 (84) -5.91	N/A -23.56 (74) -20.59
RhumbLine R1000 Growth Russell 1000 Growth Index IM U.S. Large Cap Growth Equity (SA+CF) Median	19,613,091	5.3	N/A 21.94 (37) 20.81	N/A 13.76 (22) 11.62	N/A 3.17 (55) 3.60	N/A 19.15 (39) 18.11	N/A 19.27 (64) 20.26	N/A 29.19 (38) 27.62	N/A 3.78 (30) 1.37	N/A 12.65 (35) 11.27	N/A -1.85 (37) -3.01	N/A -20.88 (55) -20.23
Garcia Hamilton Equity Russell 1000 Growth Index IM U.S. Large Cap Growth Equity (SA+CF) Median	-	0.0	N/A 21.94 (37) 20.81	11.91 (49) 13.76 (22) 11.62	1.41 (72) 3.17 (55) 3.60	17.12 (61) 19.15 (39) 18.11	12.80 (98) 19.27 (64) 20.26	27.13 (56) 29.19 (38) 27.62	2.94 (37) 3.78 (30) 1.37	11.51 (47) 12.65 (35) 11.27	` ,	-16.58 (25) -20.88 (55) -20.23
RhumbLine S&P Mid Cap 400 S&P MidCap 400 Index IM U.S. Mid Cap Equity (SA+CF) Median	16,156,298	4.4	17.49 (55) 17.52 (54) 17.59	N/A 15.33 (28) 11.54	N/A 1.40 (54) 1.49	N/A 11.82 (67) 13.49	N/A 27.68 (56) 28.06	N/A 28.54 (41) 27.30	N/A -1.28 (59) -0.63	N/A 17.78 (42) 16.80	N/A -3.11 (55) -2.72	N/A -16.68 (21) -20.71
Anchor Equity Russell Midcap Value Index IM U.S. Mid Cap Value Equity (SA+CF) Median	16,901,995	4.6	14.45 (81) 13.37 (84) 17.10	12.76 (66) 17.26 (25) 14.84	4.71 (7) -2.07 (57) -1.59	9.97 (90) 17.46 (26) 15.70	16.82 (100) 27.77 (61) 28.85	21.94 (95) 29.28 (48) 29.11	-1.20 (51) -2.36 (59) -1.13	16.15 (44) 16.93 (31) 15.69	` ,	-13.46 (13) -20.50 (56) -20.11
Oak Ridge Equity Russell Midcap Growth Index IM U.S. Mid Cap Growth Equity (SA+CF) Median	-	0.0	N/A 17.82 (61) 18.81	N/A 11.24 (28) 8.31	3.41 (44) 1.45 (69) 2.98	7.64 (84) 14.43 (27) 11.43	25.96 (64) 27.54 (48) 27.31	22.03 (76) 26.69 (42) 26.18	N/A 0.80 (53) 1.20	N/A 18.27 (51) 18.31	N/A -0.40 (44) -1.59	N/A -24.65 (63) -22.68



	Allo	cation					Perform	nance(%)				
	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	То	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010	Oct-2008 To Sep-2009	Oct-2007 To Sep-2008
New Amsterdam Equity	33,428,759	9.0	20.50 (33)	8.71 (75)	7.88 (9)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2500 Index			17.79 (62)	14.44 (35)	0.38 (57)	8.97 (60)	29.79 (54)	30.93 (38)	-2.22 (63)	15.92 (55)	-5.68 (67)	-17.99 (39)
IM U.S. SMID Cap Equity (SA+CF) Median			18.90	12.61	0.95	10.19	30.02	29.27	-0.95	16.25	-3.14	-19.33
Eagle Equity	22,980,789	6.2	22.28 (39)	12.20 (47)	4.68 (43)	2.33 (64)	33.00 (59)	28.41 (66)	N/A	N/A	N/A	N/A
Russell 2000 Growth Index			20.98 (59)	12.12 (47)	4.04 (49)	3.79 (54)	33.07 (58)	31.18 (49)	-1.12 (66)	14.79 (54)	-6.32 (62)	-17.07 (16)
IM U.S. Small Cap Growth Equity (SA+CF) Median			21.37	11.63	3.76	4.27	33.93	30.76	1.01	15.25	-3.90	-22.65
Wellington	18,227,416	4.9	14.79 (88)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2000 Value Index			20.55 (50)	18.81 (25)	-1.60 (67)	4.13 (80)	27.04 (82)	32.63 (41)	-5.99 (74)	11.84 (76)	-12.61 (86)	-12.25 (29)
IM U.S. Small Cap Value Equity (SA+CF) Median			20.49	15.69	0.79	7.04	30.96	31.08	-2.90	14.99	-4.17	-15.48
Total International Equity	55,093,895	14.9										
Vanguard Intl Equity (VTRIX)	20,961,130	5.7	20.63 (61)	8.41 (3)	-13.91 (99)	5.83 (34)	N/A	N/A	N/A	N/A	N/A	N/A
MSCI EAFE Value			23.22 (3)	4.16 (19)	-12.18 (88)	6.18 (23)	24.91 (3)	13.34 (56)	-9.46 (18)	-1.15 (78)	8.06 (8)	-32.11 (53)
IM International Large Cap Value Equity (MF) Media	ın		21.18	2.74	-10.24	3.93	21.82	13.59	-11.22	0.33	-1.56	-31.92
Oppenheimer Int Equity	13,747,866	3.7	23.04 (47)	19.28 (36)	-22.23 (88)	6.91 (45)	N/A	N/A	N/A	N/A	N/A	N/A
MSCI Emerging Markets Index			22.91 (48)	17.21 (52)	-18.98 (67)	4.66 (68)	1.33 (74)	17.34 (57)	-15.89 (56)	20.54 (59)	19.44 (51)	-33.01 (52)
IM Emerging Markets Equity (SA+CF) Median			22.66	17.37	-17.35	6.46	4.43	18.04	-15.12	22.23	19.60	-32.95
RhumbLine International Equity	20,384,899	5.5	19.24 (64)	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)	4.70 (62)	24.29 (18)	14.33 (72)	-8.94 (45)	3.71 (80)	3.80 (65)	-30.13 (49)
IM International Equity (SA+CF) Median			21.03	11.49	-8.28	5.79	19.84	17.31	-9.58	9.60	7.04	-30.31
Total Fixed Income Composite	80,833,536	21.9	0.60	3.79	3.98	4.78	1.03	9.04	2.41	7.99	10.50	2.82
Fixed Income Index	,,		0.25	3.57	2.95	2.74	-0.71	4.31	3.59	8.16	10.56	3.65
Garcia Hamilton Fixed Income	79,733,168	21.6	0.69 (52)	3.84 (60)	3.98 (5)	4.78 (10)	1.03 (8)	9.04 (7)	2.61 (86)	8.23 (51)	13.95 (16)	3.89 (39)
Fixed Income Index	• • •		0.25 (87)	3.57 (72)	2.95 (31)	2.74 (58)	-0.71 (77)	4.31 (84)	3.59 (52)	8.16 (54)	10.56 (70)	3.65 (43)
IM U.S. Intermediate Duration (SA+CF) Median			0.70	3.91	2.70	2.89	-0.27	5.56	3.61	8.26	11.51	3.26
RhumbLine Fixed Income	1,100,368	0.3	-0.06 (97)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. Barc. U.S. Aggregate Index			0.07 (92)	5.19 (85)	2.94 (42)	3.96 (86)	-1.68 (85)	5.16 (94)	5.26 (46)	8.16 (92)	10.56 (85)	3.65 (25)
IM U.S. Broad Market Fixed Income (SA+CF) Media	ın		1.05	5.97	2.80	4.93	-0.84	7.50	5.18	9.91	12.86	1.51



	Alloc	ation					Perform	nance(%)				
	Market Value \$	%	Oct-2016 To Sep-2017	То	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
Total Real Estate	47,613,127	12.9										
Intercontinental Real Estate Policy	32,492,188	8.8	11.64 (15) 6.89 (73)	( )	14.12 (72) 13.48 (78)	11.26 (91)	11.00 (81)	14.24 (43) 11.00 (75)	19.17 (38) 16.10 (66)	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	13.03	16.62	5.80	-34.32	4.80
J.P. Morgan Real Estate Policy IM U.S. Private Real Estate (SA+CF) Median	15,120,939	4.1	9.93 (25) 6.89 (73) 8.30	12.10 (41) 9.22 (94) 11.57	20.93 (17) 13.48 (78) 15.79	N/A N/A 13.12	N/A N/A 13.35	N/A N/A 13.03	N/A N/A 16.62	N/A N/A 5.80	N/A N/A -34.32	N/A N/A 4.80
R&D Cash	1.356.525	0.4										



	ΔIIc	ocation					Perforn	nance(%)				
	Market	Cation	Oct-2016	Oct-2015	Oct-2014	Oct-2013	Oct-2012	Oct-2011	Oct-2010	Oct-2009	Oct-2008	Oct-2007
	Value \$	%	To Sep-2017	To Sep-2016	To Sep-2015	To Sep-2014	To Sep-2013	To Sep-2012	To Sep-2011	To Sep-2010	To Sep-2009	To Sep-2008
Total Fund Composite	369,819,856	100.0	13.44	8.22	0.21	8.99	13.26	17.90	-0.17	10.59	2.07	-12.97
Total Fund Policy Index			13.01	10.75	0.71	10.14	14.75	19.53	1.38	10.58	1.45	-13.64
Total Equity Composite	240,016,669	64.9	18.05	9.29	-1.87	10.14	17.61	22.25	-0.74	13.42	-3.23	-21.15
Total Equity Policy Index			18.97	14.06	-2.21	13.29	22.52	27.50	-0.83	11.21	-4.75	-22.19
Total Domestic Equity	184,922,774	50.0										
361 Capital (BRC Equity)	_	0.0	N/A	4.06	-0.35	19.81	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index			15.12	16.19	-4.42	18.89	22.30	30.92	-1.89	8.90	-10.62	-23.56
RhumbLine Equity S&P 500	36,657,417	9.9	18.49	15.39	N/A							
S&P 500 Index			18.61	15.43	-0.61	19.73	19.34	30.20	1.14	10.16	-6.91	-21.98
RhumbLine R1000 Value	20,957,009	5.7	N/A									
Russell 1000 Value Index			15.12	16.19	-4.42	18.89	22.30	30.92	-1.89	8.90	-10.62	-23.56
RhumbLine R1000 Growth	19,613,091	5.3	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
Garcia Hamilton Equity	-	0.0	N/A	11.27	1.16	16.51	12.25	26.52	2.43	10.96	-5.51	-16.58
Russell 1000 Growth Index			21.94	13.76	3.17	19.15	19.27	29.19	3.78	12.65	-1.85	-20.88
RhumbLine S&P Mid Cap 400	16,156,298	4.4	17.44	N/A								
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
Anchor Equity	16,901,995	4.6	13.91	12.21	4.07	9.33	16.27	21.37	-1.66	15.62	-1.04	-13.46
Russell Midcap Value Index			13.37	17.26	-2.07	17.46	27.77	29.28	-2.36	16.93	-7.12	-20.50
Oak Ridge Equity	-	0.0	N/A	N/A	2.81	6.99	25.22	21.33	N/A	N/A	N/A	N/A
Russell Midcap Growth Index			17.82	11.24	1.45	14.43	27.54	26.69	0.80	18.27	-0.40	-24.65
New Amsterdam Equity	33,428,759	9.0	20.00	8.25	7.46	N/A						
Russell 2500 Index			17.79	14.44	0.38	8.97	29.79	30.93	-2.22	15.92	-5.68	-17.99
Eagle Equity	22,980,789	6.2	21.37	11.38	3.90	1.53	32.03	27.38	N/A	N/A	N/A	N/A
Russell 2000 Growth Index			20.98	12.12	4.04	3.79	33.07	31.18	-1.12	14.79	-6.32	-17.07
Wellington	18,227,416	4.9	13.78	N/A								
Russell 2000 Value Index			20.55	18.81	-1.60	4.13	27.04	32.63	-5.99	11.84	-12.61	-12.25



	Allo	cation					Perforn	nance(%)				
	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
Total International Equity	55,093,895	14.9										
Vanguard Intl Equity (VTRIX)  MSCI EAFE Value	20,961,130	5.7	20.63 23.22	8.41 4.16	-13.91 -12.18	5.83 6.18	N/A 24.91	N/A 13.34	N/A -9.46	N/A -1.15	N/A 8.06	N/A -32.11
Oppenheimer Int Equity MSCI Emerging Markets Index	13,747,866	3.7	21.80 22.91	18.73 17.21	-22.95 -18.98	5.83 4.66	N/A 1.33	N/A 17.34	N/A -15.89	N/A 20.54	N/A 19.44	N/A -33.01
RhumbLine International Equity MSCI EAFE Index	20,384,899	5.5	19.18 19.65	N/A 7.06	N/A -8.27	N/A 4.70	N/A 24.29	N/A 14.33	N/A -8.94	N/A 3.71	N/A 3.80	N/A -30.13
Total Fixed Income Composite Fixed Income Index	80,833,536	21.9	<b>0.40</b> 0.25	<b>3.60</b> 3.57	<b>3.78</b> 2.95	<b>4.57</b> 2.74	<b>0.83</b> -0.71	<b>8.83</b> 4.31	<b>2.21</b> 3.59	<b>7.83</b> 8.16	<b>10.35</b> 10.56	<b>2.82</b> 3.65
Garcia Hamilton Fixed Income Fixed Income Index	79,733,168	21.6	0.49 0.25	3.64 3.57	3.78 2.95	4.57 2.74	0.83 -0.71	8.83 4.31	2.39 3.59	8.01 8.16	13.79 10.56	3.89 3.65
RhumbLine Fixed Income Blmbg. Barc. U.S. Aggregate Inde	1,100,368 ex	0.3	-0.24 0.07	N/A 5.19	N/A 2.94	N/A 3.96	N/A -1.68	N/A 5.16	N/A 5.26	N/A 8.16	N/A 10.56	N/A 3.65
Total Real Estate	47,613,127	12.9										
Intercontinental Real Estate Policy	32,492,188	8.8	9.59 6.89	10.71 9.22	12.18 13.48	12.68 11.26	13.98 11.00	13.96 11.00	19.17 16.10	N/A N/A	N/A N/A	N/A N/A
J.P. Morgan Real Estate Policy	15,120,939	4.1	8.21 6.89	10.36 9.22	19.53 13.48	N/A N/A						
R&D Cash	1,356,525	0.4										

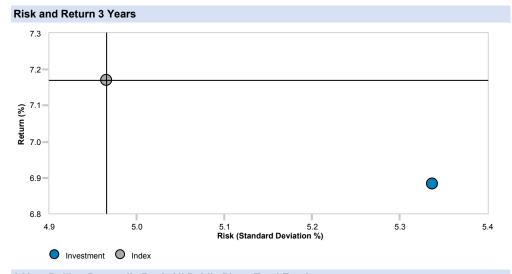


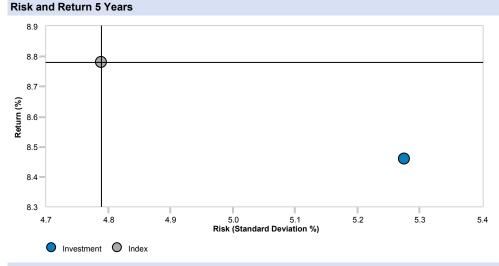
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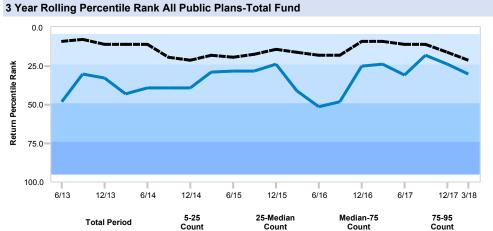


Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	6.88	5.34	1.20	99.04	10	109.24	2
Index	7 17	4 97	1.34	100.00	10	100.00	2

Historical Statistics 5 Years							
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	8.46	5.28	1.52	99.31	17	116.17	3
Index	8.78	4.79	1.74	100.00	17	100.00	3







5 (25%)

20 (100%)

14 (70%)

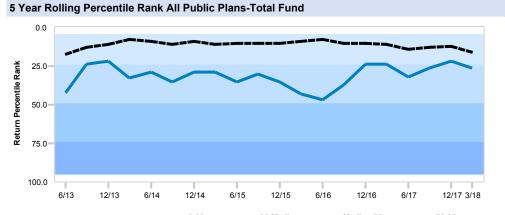
0 (0%)

1 (5%)

0 (0%)

0 (0%)

0 (0%)



	Total Period	Cou		Z5-IVIE Cou		Cou		75- Cou	
Investment	20	5	(25%)	15	(75%)	0	(0%)	0	(0%)
Index	20	20	(100%)	0	(0%)	0	(0%)	0	(0%)



Investment

\_\_ Index

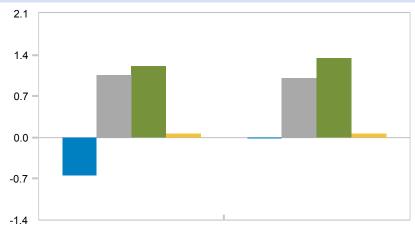
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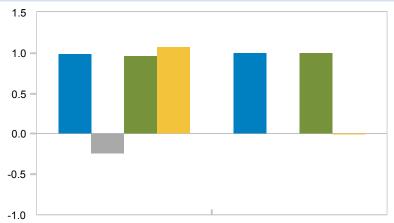


# Risk / Reward Historical Statistics 3 Years Ending March 31, 2018



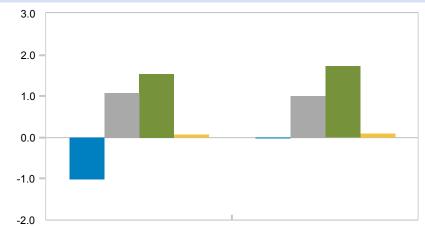
	<b>Total Fund Composite</b>	<b>Total Fund Policy Index</b>
■ Alpha	-0.64	0.00
Beta	1.05	1.00
Sharpe Ratio	1.20	1.34
Treynor Ratio	0.06	0.07

# Benchmark Relative Historical Statistics 3 Years Ending March 31, 2018



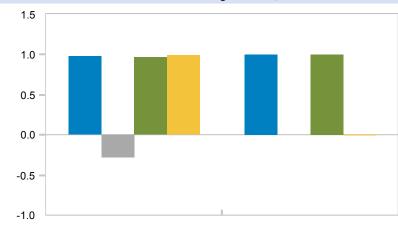
	<b>Total Fund Composite</b>	<b>Total Fund Policy Index</b>
Actual Correlation	0.98	1.00
Information Ratio	-0.23	N/A
R-Squared	0.96	1.00
Tracking Error	1.08	0.00

# Risk / Reward Historical Statistics 5 Years Ending March 31, 2018



	Total Fund Composite	Total Fund Policy Index
Alpha	-1.01	0.00
■ Beta	1.09	1.00
Sharpe Ratio	1.52	1.74
Treynor Ratio	0.07	0.08

# Benchmark Relative Historical Statistics 5 Years Ending March 31, 2018



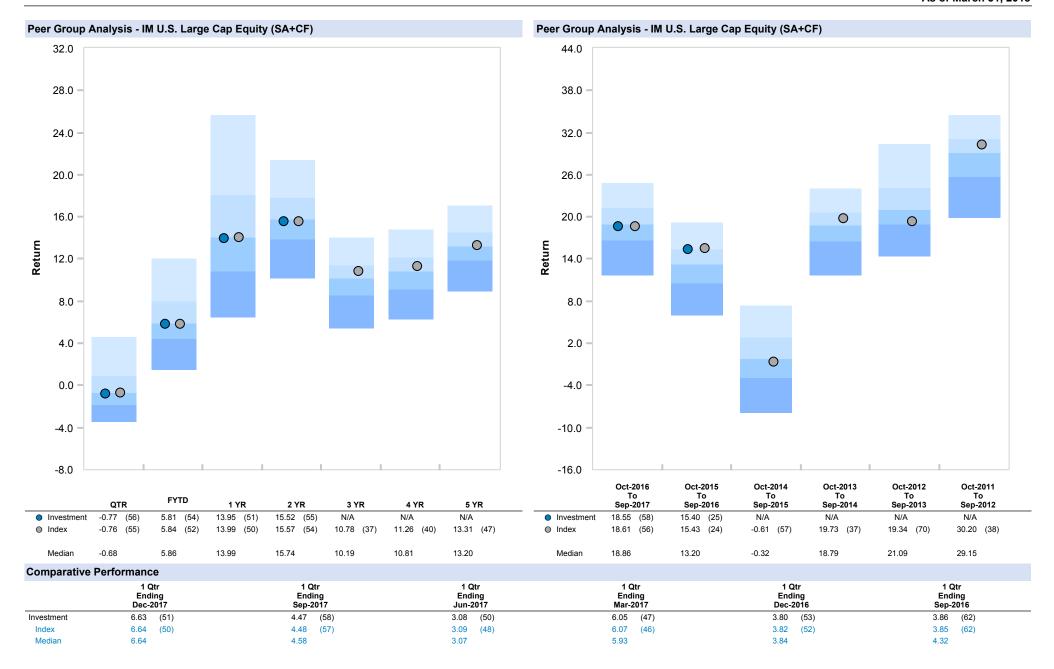
	Total Fund Composite	Total Fund Policy Index
Actual Correlation	0.99	1.00
Information Ratio	-0.28	N/A
R-Squared	0.97	1.00
Tracking Error	0.99	0.00

Benchmark: Total Fund Policy Index



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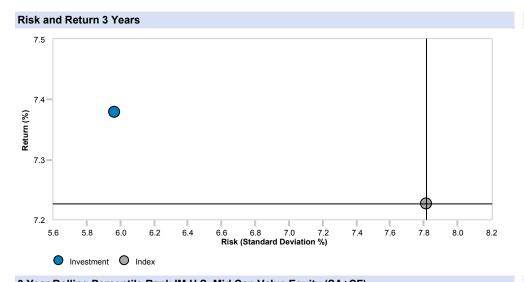


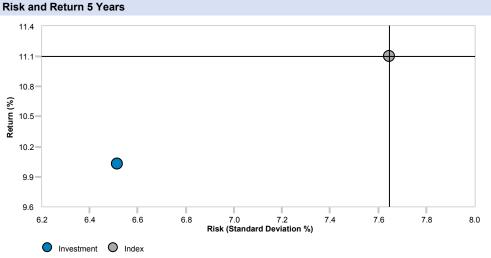




Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	7.38	5.97	1.16	86.45	9	62.24	3
Index	7 23	7.81	0.88	100.00	q	100.00	3

<b>Historical Statis</b>							
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.03	6.51	1.46	85.46	16	68.60	4
Index	11.11	7.65	1.39	100.00	16	100.00	4







Count

3 (15%)

7 (35%)

Count

6 (30%)

13 (65%)

Count

11 (55%)

0 (0%)

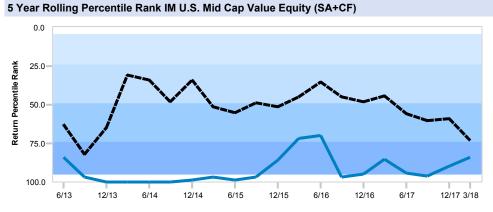
Count

0 (0%)

0 (0%)

20

20



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	20	0 (0%)	0 (0%)	2 (10%)	18 (90%)	
Index	20	0 (0%)	10 (50%)	9 (45%)	1 (5%)	



Investment

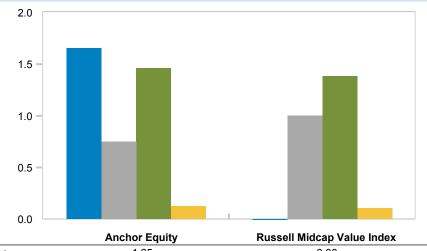
\_\_ Index





# Risk / Reward Historical Statistics 3 Years Ending March 31, 2018 2.8 2.1 1.4 0.7 Anchor Equity Russell Midcap Value Index Alpha 2.18 0.00 Beta 0.71 1.00

# Risk / Reward Historical Statistics 5 Years Ending March 31, 2018

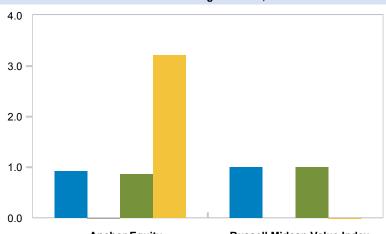


	<b>Anchor Equity</b>	Russell Midcap Value Index
Alpha	1.65	0.00
Beta	0.75	1.00
Sharpe Ratio	1.46	1.39
Treynor Ratio	0.13	0.11

# Benchmark Relative Historical Statistics 3 Years Ending March 31, 2018

1.16

0.10

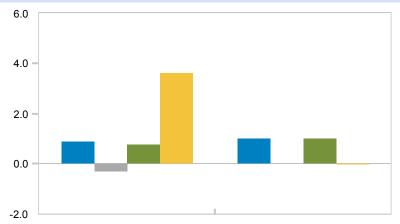


0.88

0.07

0.0		
0.0	Anchor Equity	Russell Midcap Value Index
Actual Correlation	0.93	1.00
Information Ratio	0.00	N/A
R-Squared	0.86	1.00
Tracking Error	3.21	0.00

# Benchmark Relative Historical Statistics 5 Years Ending March 31, 2018



	<b>Anchor Equity</b>	Russell Midcap Value Index
Actual Correlation	0.88	1.00
Information Ratio	-0.30	N/A
R-Squared	0.78	1.00
Tracking Error	3.61	0.00

Benchmark: Russell Midcap Value Index

■ Sharpe Ratio

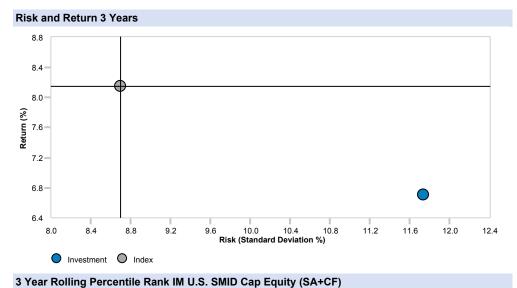
Treynor Ratio

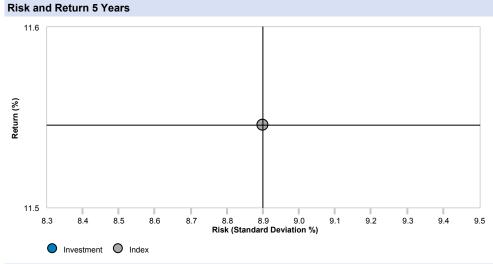




Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	6.71	11.74	0.57	87.24	7	87.94	5
Index	8 15	8.70	0.90	100.00	Q	100.00	3

Historical Statistics 5 Years							
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	11.55	8.90	1.25	100.00	16	100.00	4







2 (67%)

3 (15%)

0 (0%)

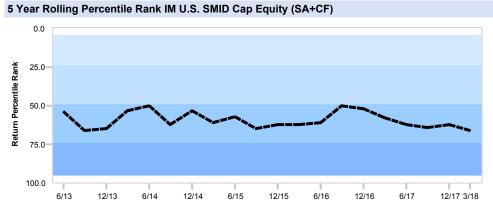
17 (85%)

1 (33%)

0 (0%)

0 (0%)

0 (0%)



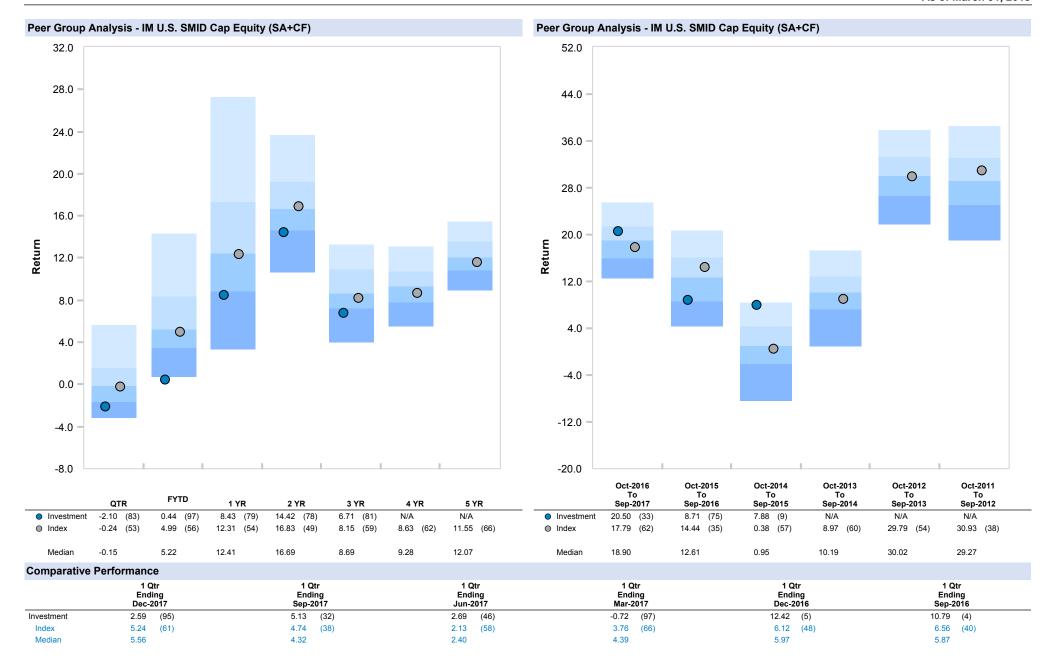
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	0 (0%)	2 (10%)	18 (90%)	0 (0%)



Investment

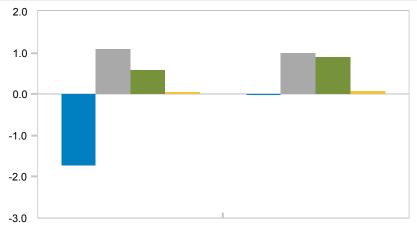
\_\_ Index

3



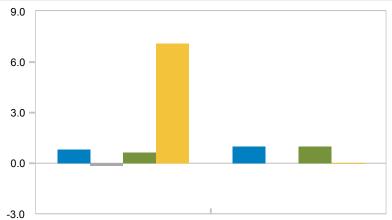


# Risk / Reward Historical Statistics 3 Years Ending March 31, 2018



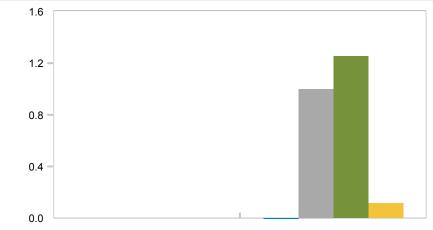
	New Amsterdam Equity	Russell 2500 Index
Alpha	-1.72	0.00
■ Beta	1.08	1.00
Sharpe Ratio	0.57	0.90
Treynor Ratio	0.06	0.08

# Benchmark Relative Historical Statistics 3 Years Ending March 31, 2018



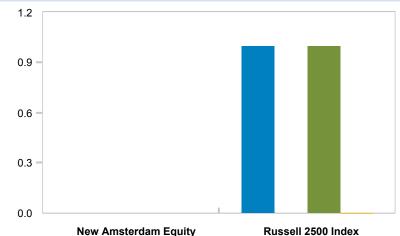
	New Amsterdam Equity	Russell 2500 Index
Actual Correlation	0.80	1.00
Information Ratio	-0.15	N/A
R-Squared	0.64	1.00
Tracking Error	7.09	0.00

# Risk / Reward Historical Statistics 5 Years Ending March 31, 2018



	New Amsterdam Equity	Russell 2500 Index
Alpha	N/A	0.00
■ Beta	N/A	1.00
Sharpe Ratio	N/A	1.25
Treynor Ratio	N/A	0.11

# Benchmark Relative Historical Statistics 5 Years Ending March 31, 2018



	New Amsterdam Equity	Russell 2500 Ind
Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

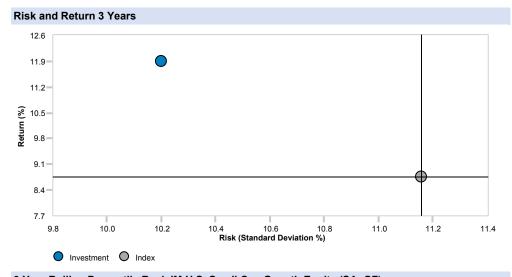
Benchmark: Russell 2500 Index

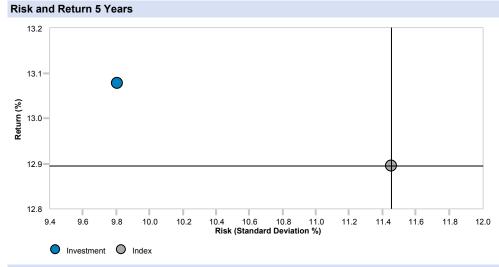




Historical Statistics 3 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	11.90	10.20	1.13	112.67	10	84.89	2	
Index	Q 77	11 16	0.78	100.00	10	100.00	2	

Historical Statistics 5 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	13.08	9.81	1.29	94.94	16	81.45	4	
Index	12.90	11.46	1.11	100.00	17	100.00	3	







Count

6 (38%)

5 (25%)

Count

7 (44%)

15 (75%)

Count

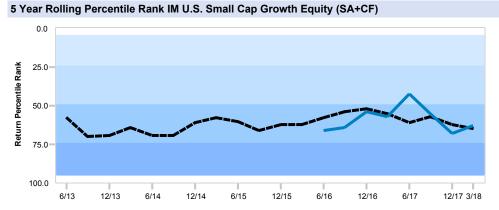
2 (13%)

0 (0%)

Count

1 (6%)

0 (0%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	8	0 (0%)	1 (13%)	7 (88%)	0 (0%)
Index	20	0 (0%)	0 (0%)	20 (100%)	0 (0%)



Investment

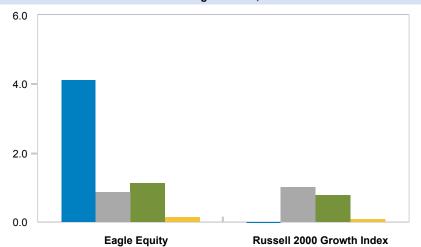
\_\_ Index

16



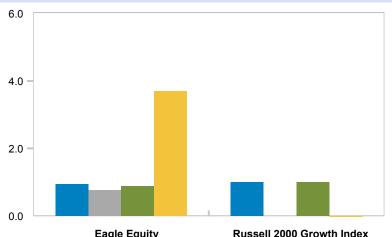


# Risk / Reward Historical Statistics 3 Years Ending March 31, 2018



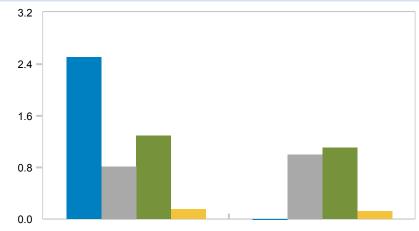
0.0		
	Eagle Equity	Russell 2000 Growth Index
Alpha	4.12	0.00
■ Beta	0.86	1.00
Sharpe Ratio	1.13	0.78
Treynor Ratio	0.13	0.09

# Benchmark Relative Historical Statistics 3 Years Ending March 31, 2018



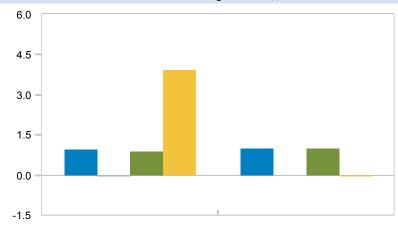
Eagle Equity	Russell 2000 Growth Index
0.94	1.00
0.76	N/A
0.89	1.00
3.69	0.00
	0.94 0.76 0.89

# Risk / Reward Historical Statistics 5 Years Ending March 31, 2018



	Eagle Equity	Russell 2000 Growth Index
Alpha	2.50	0.00
■ Beta	0.81	1.00
Sharpe Ratio	1.29	1.11
Treynor Ratio	0.16	0.13

# Benchmark Relative Historical Statistics 5 Years Ending March 31, 2018

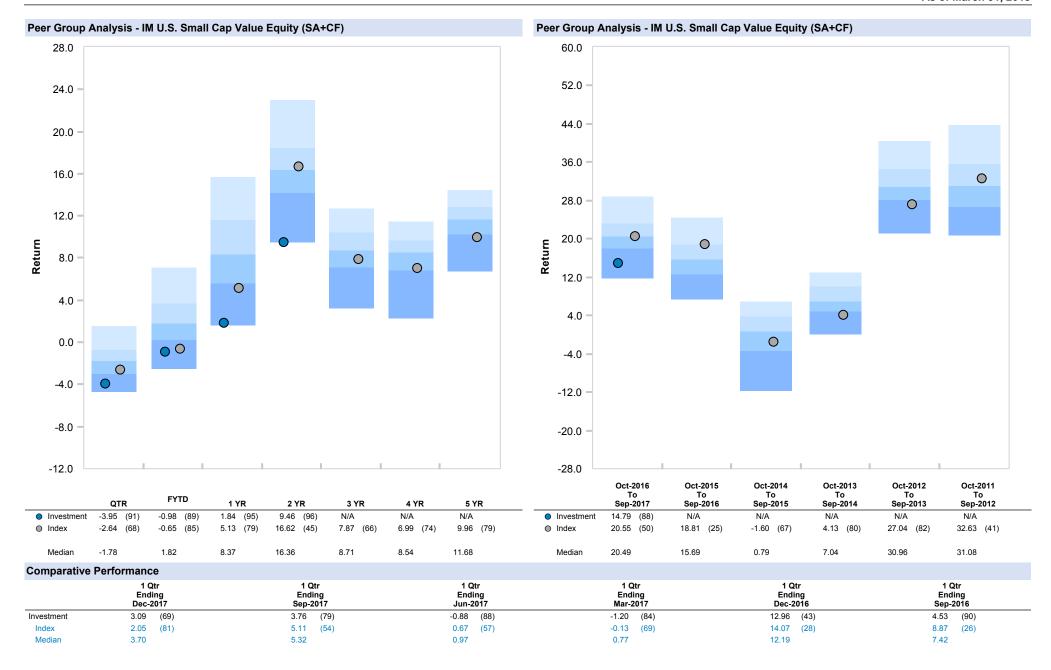


	Eagle Equity	Russell 2000 Growth Index
Actual Correlation	0.94	1.00
Information Ratio	0.00	N/A
R-Squared	0.89	1.00
Tracking Error	3.92	0.00

Benchmark: Russell 2000 Growth Index





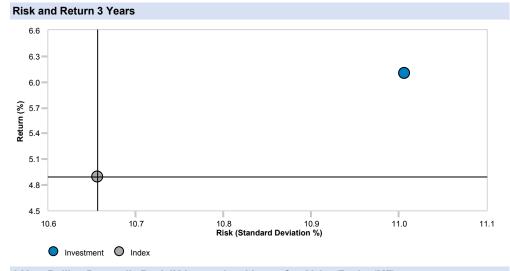


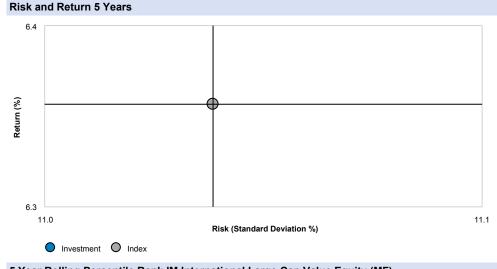


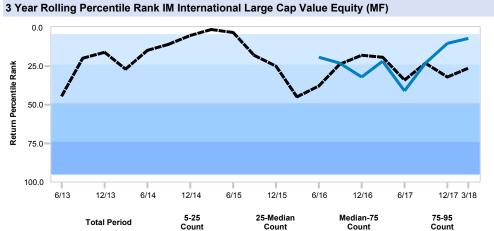


Historical Statis	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	6.10	11.01	0.56	95.07	8	72.79	4
Index	4 89	10.66	0.46	100.00	8	100.00	4

<b>Historical Stati</b>	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	6.36	11.04	0.59	100.00	13	100.00	7







2 (25%)

7 (35%)

0 (0%)

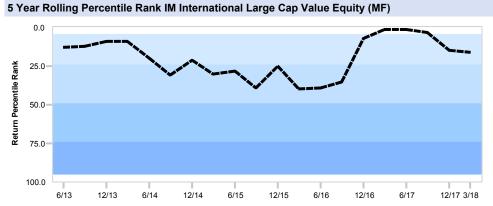
0 (0%)

0 (0%)

0 (0%)

6 (75%)

13 (65%)

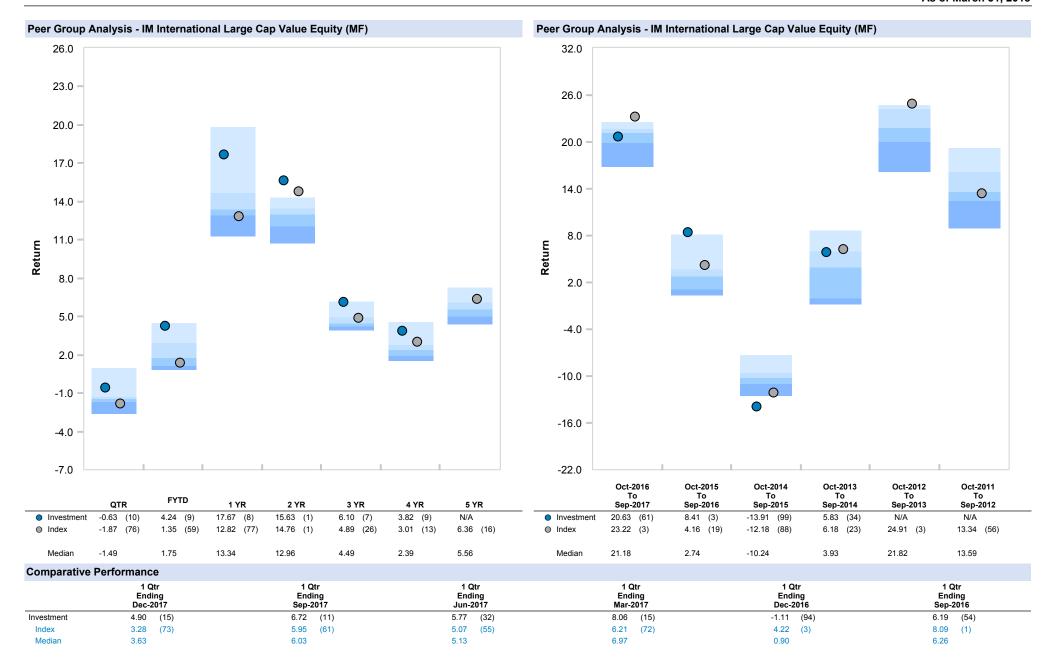


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	0	0	0	0	0
Index	20	13 (65%)	7 (35%)	0 (0%)	0 (0%)



Investment

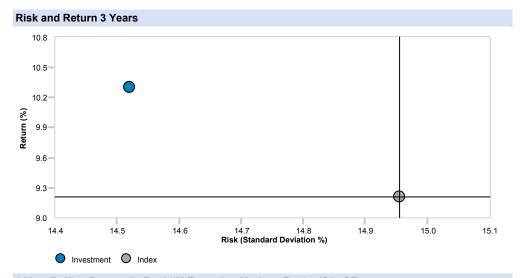
\_\_ Index

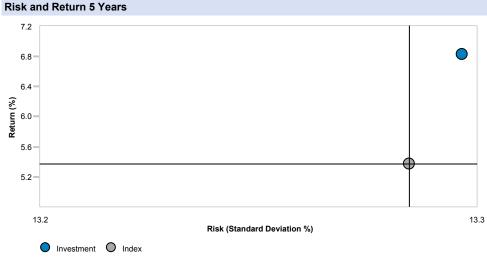


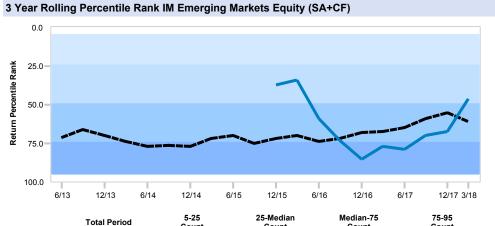


<b>Historical Stati</b>	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.31	14.52	0.73	105.54	10	100.14	2
Index	0.21	14.06	0.65	100.00	10	100.00	2

<b>Historical Stati</b>	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	6.83	13.30	0.55	108.74	13	97.48	7
Index	5.37	13.28	0.44	100.00	14	100.00	6







Count

3 (30%)

0 (0%)

Count

4 (40%)

17 (85%)

Count

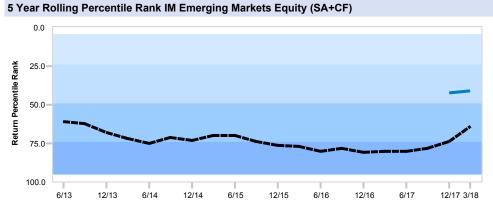
3 (30%)

3 (15%)

Count

0 (0%)

0 (0%)



	Total Period	5-25 Count	25-Median Count	Count	Count	
Investment	2	0 (0%)	2 (100%)	0 (0%)	0 (0%)	
Index	20	0 (0%)	0 (0%)	12 (60%)	8 (40%)	



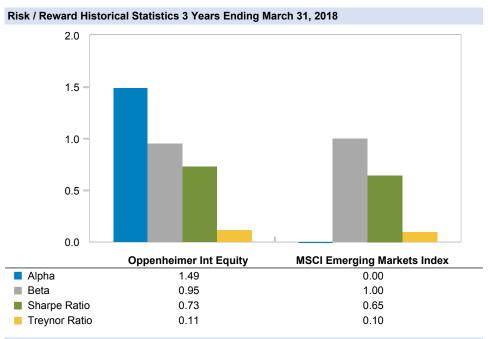
Investment

\_\_ Index

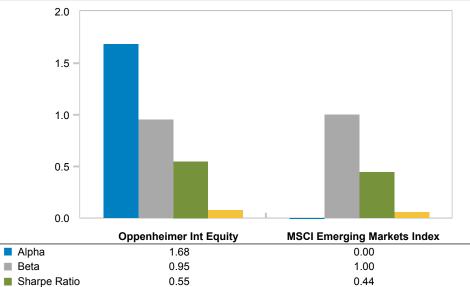
10



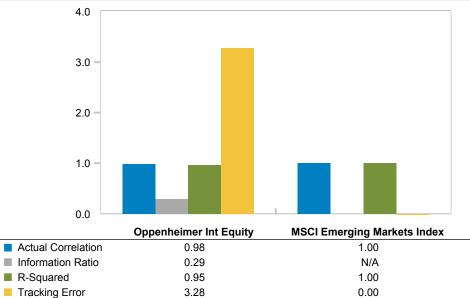




# Risk / Reward Historical Statistics 5 Years Ending March 31, 2018

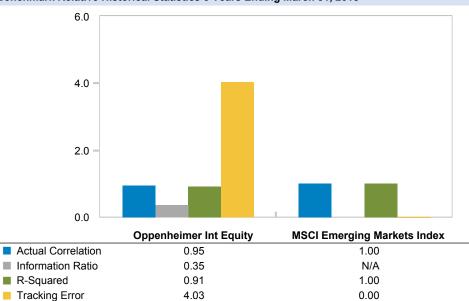


# Benchmark Relative Historical Statistics 3 Years Ending March 31, 2018



# 0.08 Benchmark Relative Historical Statistics 5 Years Ending March 31, 2018

Treynor Ratio

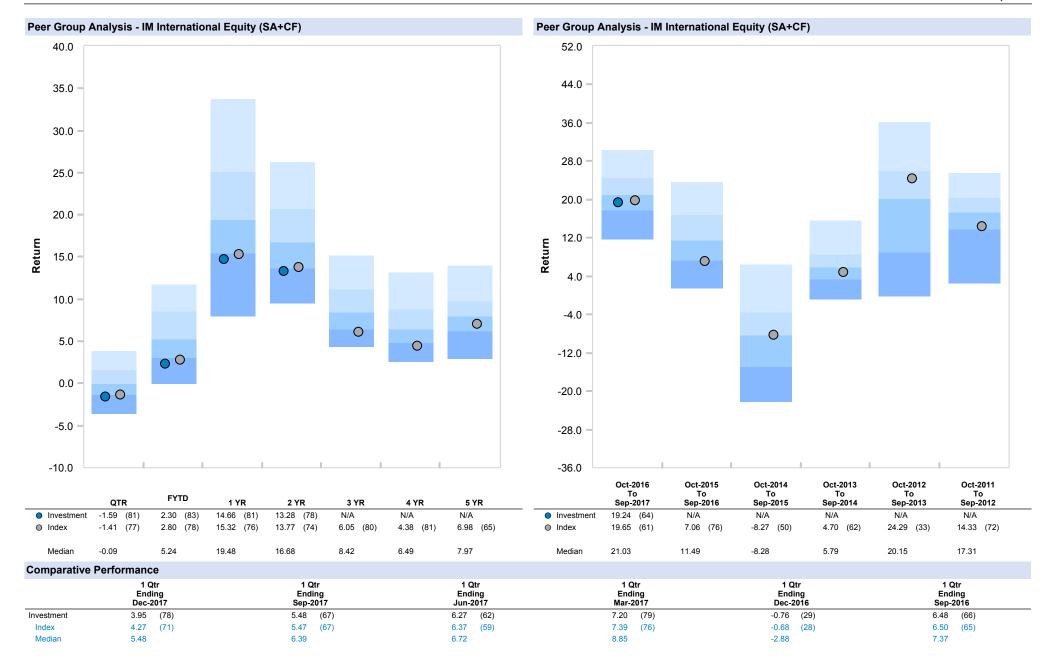


0.06

Benchmark: MSCI Emerging Markets Index





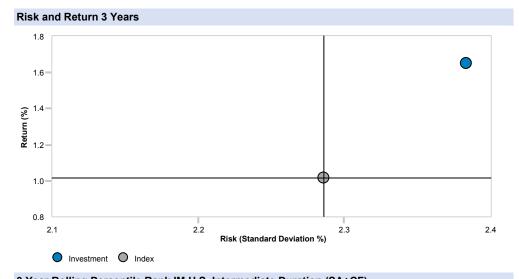


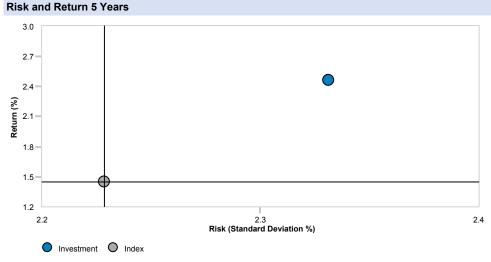


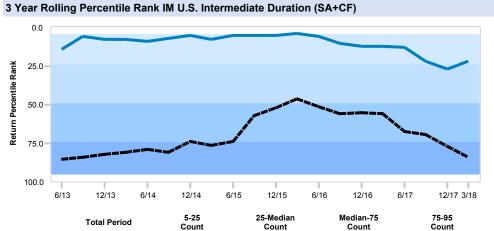


Historical Statistics 3 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	1.65	2.38	0.49	113.57	8	79.65	4			
Index	1.02	2.29	0.23	100.00	7	100.00	5			

Historical Statis	Historical Statistics 5 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	2.47	2.33	0.91	120.29	15	63.84	5			
Index	1.45	2.23	0.51	100.00	13	100.00	7			







1 (5%)

1 (5%)

0 (0%)

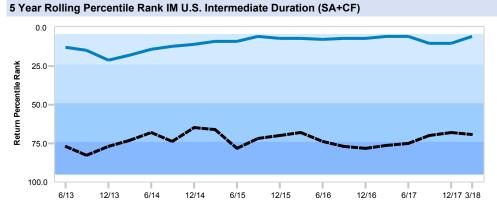
10 (50%)

0 (0%)

9 (45%)

19 (95%)

0 (0%)



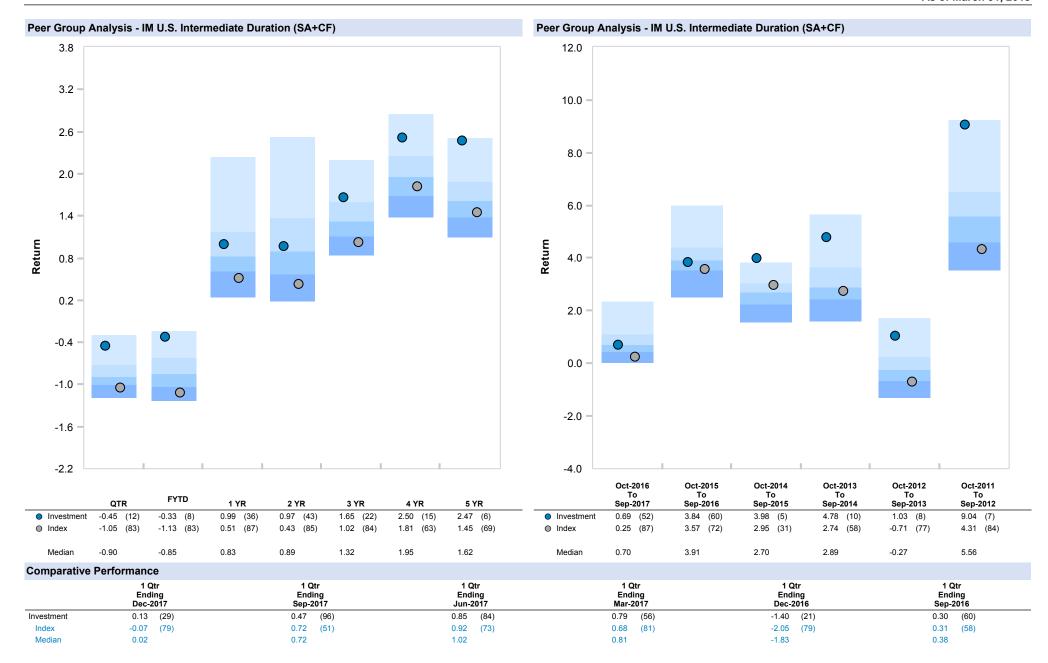
	Total Period	Count	Count	Count	Count	
Investment	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)	
Index	20	0 (0%)	0 (0%)	13 (65%)	7 (35%)	



Investment

\_\_ Index

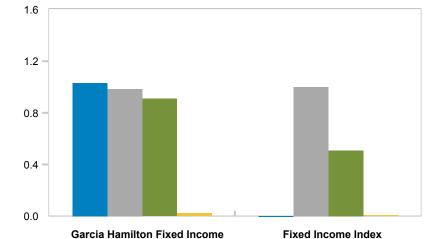
20





# Risk / Reward Historical Statistics 3 Years Ending March 31, 2018 1.2 0.9 0.6 Garcia Hamilton Fixed Income Fixed Income Index Alpha 0.65 0.00 Beta 0.99 1.00

# Risk / Reward Historical Statistics 5 Years Ending March 31, 2018

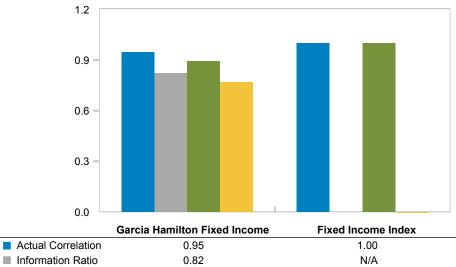


	Garcia Hamilton Fixed Income	Fixed Income Index
Alpha	1.03	0.00
Beta	0.98	1.00
Sharpe Ratio	0.91	0.51
Treynor Ratio	0.02	0.01

## Benchmark Relative Historical Statistics 3 Years Ending March 31, 2018

0.49

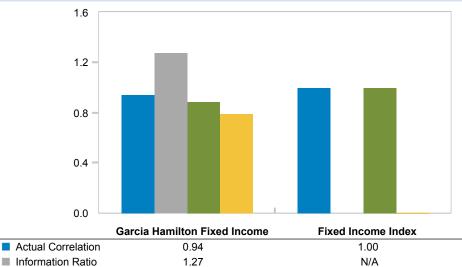
0.01



0.23

0.01

## Benchmark Relative Historical Statistics 5 Years Ending March 31, 2018



 Information Ratio
 0.82
 N/A
 Information Ratio
 1.27
 N/A

 R-Squared
 0.90
 1.00
 R-Squared
 0.89
 1.00

 Tracking Error
 0.77
 0.00
 Tracking Error
 0.79
 0.00

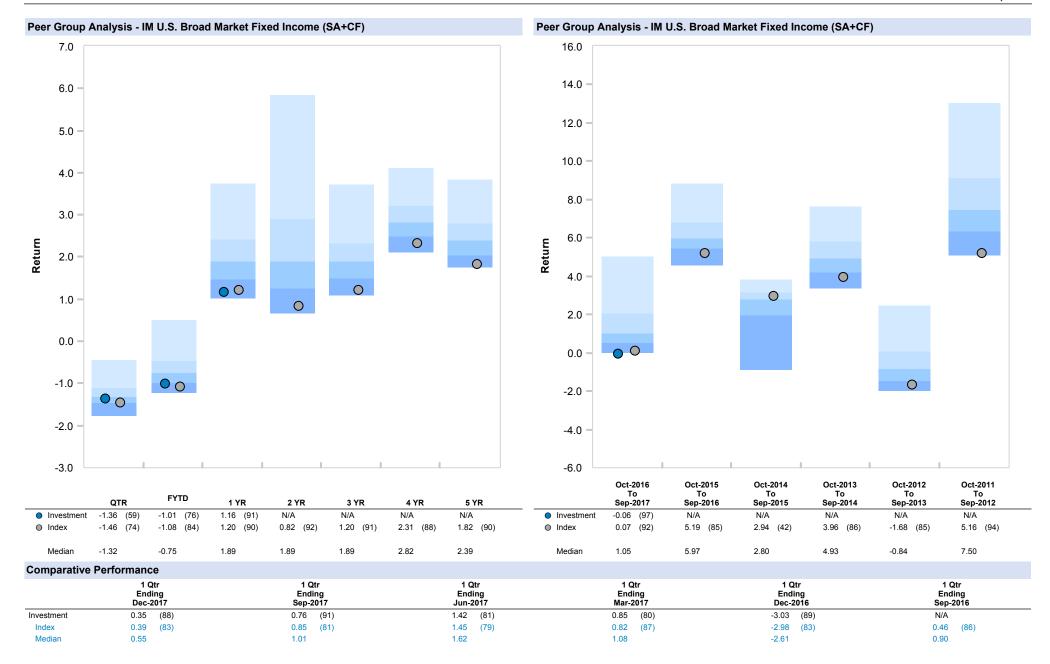
Benchmark: Garcia Hamilton Fixed Inc Index

Sharpe Ratio

Treynor Ratio





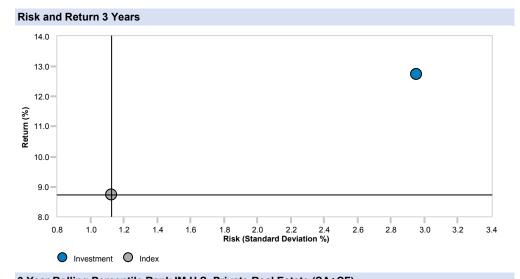


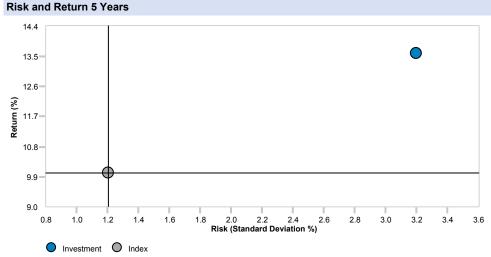


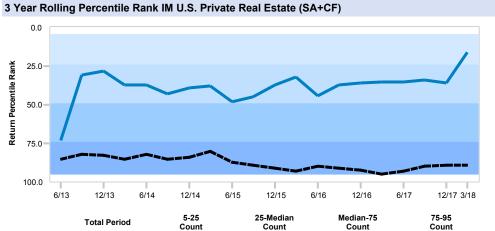


Historical Statistics 3 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	12.74	2.95	3.85	144.46	12	N/A	N/A	
Index	8.72	1.13	6.16	100.00	12	N/A	N/A	

<b>Historical Statis</b>	listorical Statistics 5 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	13.60	3.20	3.88	134.74	20	N/A	N/A			
Index	10.00	1.21	6.83	100.00	20	N/A	N/A			







1 (5%)

0 (0%)

18 (90%)

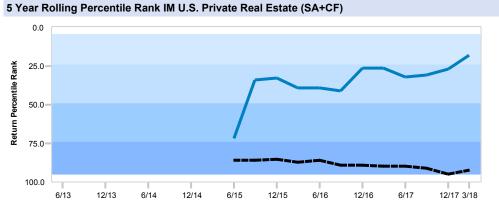
0 (0%)

1 (5%)

0 (0%)

0 (0%)

20 (100%)



25-Median

Count

10 (83%)

0 (0%)

Median-75

Count

1 (8%)

0 (0%)

5-25

Count

1 (8%)

0 (0%)

**Total Period** 

12

12

Investment

\_\_ Index

75-95

Count

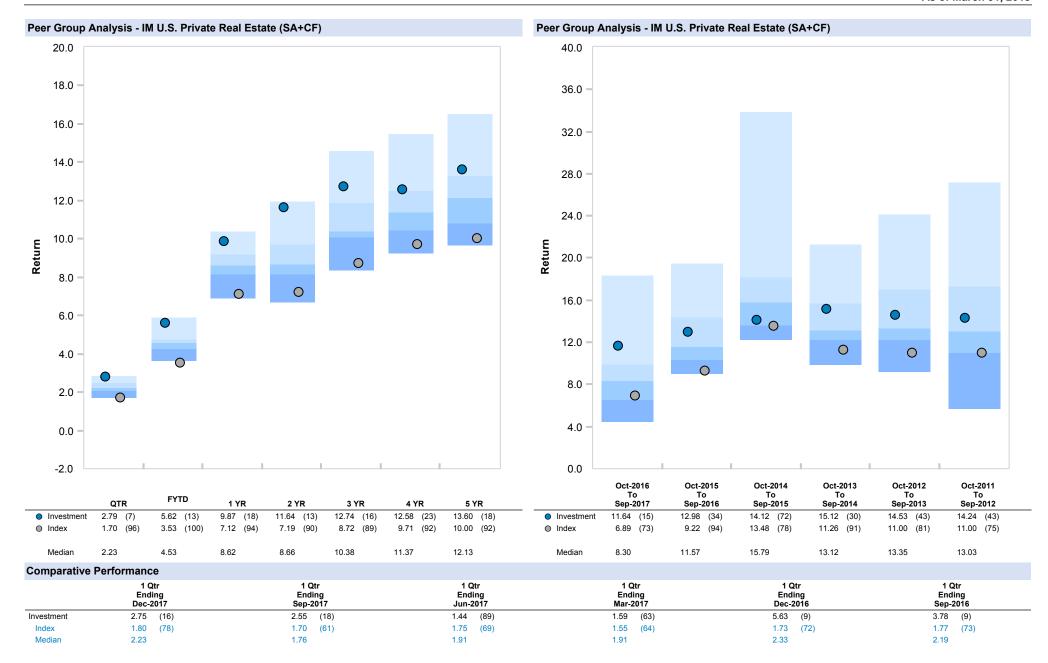
0 (0%)

12 (100%)

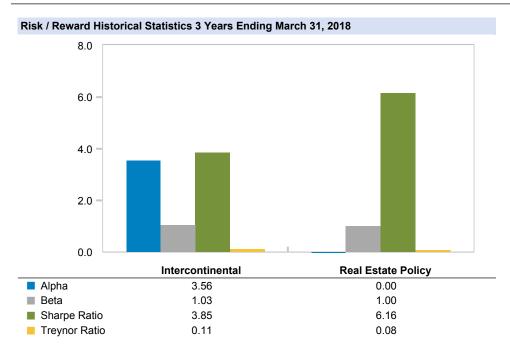
Investment

\_\_ Index

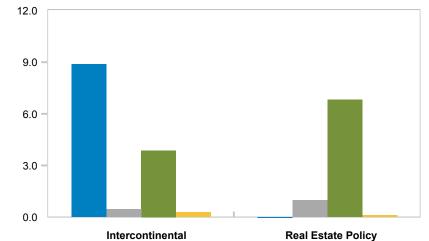
20







# Risk / Reward Historical Statistics 5 Years Ending March 31, 2018



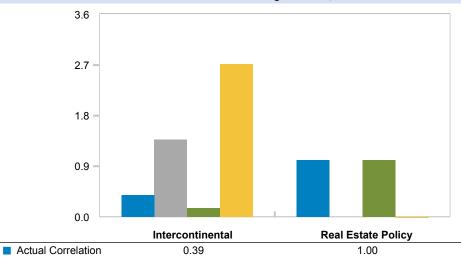
	Intercontinental	Real Estate Policy
Alpha	8.86	0.00
■ Beta	0.46	1.00
Sharpe Ratio	3.88	6.83
Treynor Ratio	0.28	0.09

# Benchmark Relative Historical Statistics 3 Years Ending March 31, 2018

1.39

0.16

2.71

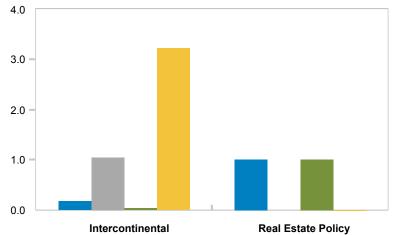


N/A

1.00

0.00

# Benchmark Relative Historical Statistics 5 Years Ending March 31, 2018



	intercontinental	iteal Estate i oil
Actual Correlation	0.17	1.00
Information Ratio	1.04	N/A
R-Squared	0.03	1.00
Tracking Error	3.22	0.00

Benchmark: Real Estate Policy

R-Squared

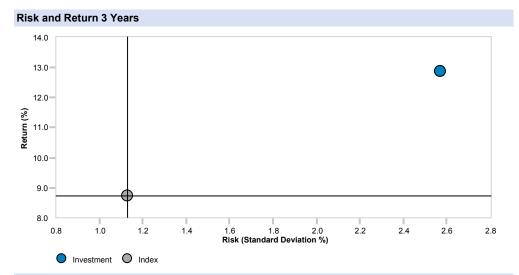
Information Ratio





Historical Stati	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	12.88	2.57	4.40	145.89	12	N/A	N/A
Index	8.72	1.13	6.16	100.00	12	N/A	N/A

Historical Statistics 5 Years							
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	N/A	N/A	N/A	N/A	N/A	N/A	N/A



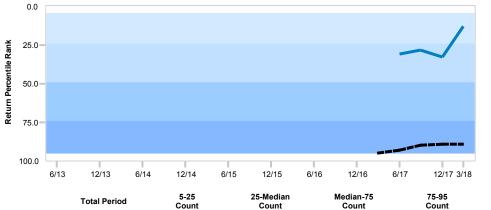
# Risk and Return 5 Years

No data found.

# 3 Year Rolling Percentile Rank IM U.S. Private Real Estate (SA+CF)

1 (25%)

0 (0%)



3 (75%)

0 (0%)

0 (0%)

0 (0%)

0 (0%)

5 (100%)

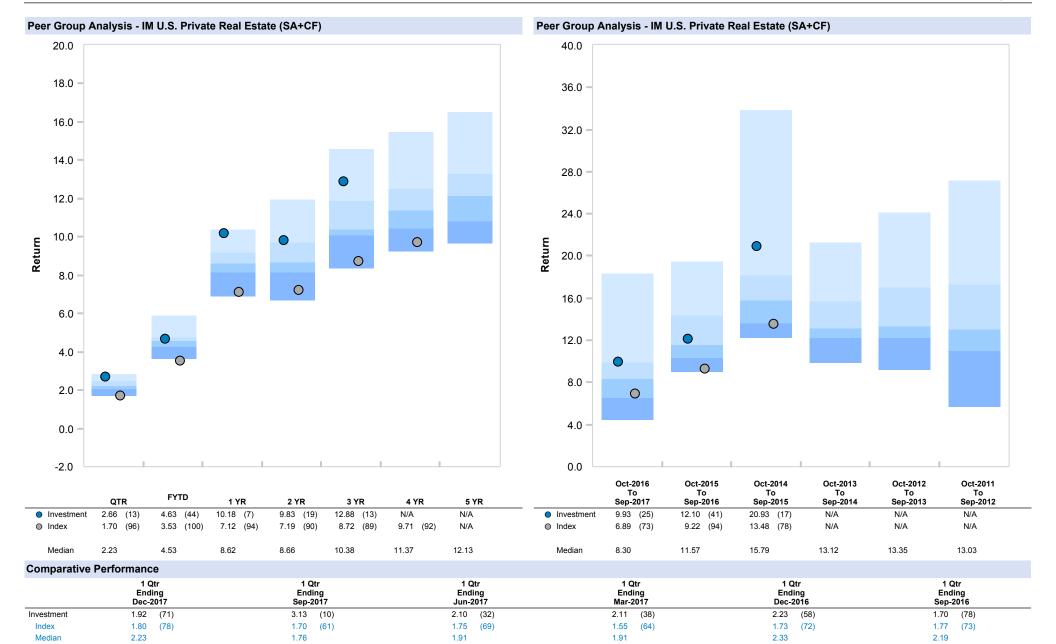
## 5 Year Rolling Percentile Rank IM U.S. Private Real Estate (SA+CF) 0.0 Return Percentile Rank 25.0 50.0= 75.0 100.0 6/13 12/13 6/14 12/14 6/15 12/15 6/16 12/16 6/17 12/17 3/18

	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	0	0	0	0	0	
Index	0	0	0	0	0	



Investment

\_\_ Index





Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
Oct-2007		Apr-2014	
Blmbg. Barc. U.S. Aggregate Index	35.00	Bloomberg Barclays Intermed Aggregate Index	26.00
S&P 500 Index	29.00	S&P 500 Index	25.00
Russell Midcap Index	16.00	Russell Midcap Index	16.00
Russell 2000 Index	10.00	Russell 2000 Index	10.00
MSCI EAFE Index	10.00	MSCI EAFE Index	10.00
		NCREIF Property Index	10.00
Jul-2010		MSCI Emerging Markets Index	3.00
Blmbg. Barc. U.S. Aggregate Index	35.00		
S&P 500 Index	26.00	Oct-2016	
Russell Midcap Index	16.00	Bloomberg Barclays Intermed Aggregate Index	22.00
Russell 2000 Index	10.00	S&P 500 Index	26.00
MSCI EAFE Index	10.00	Russell Midcap Index	8.00
NCREIF Property Index	3.00	Russell 2000 Index	10.00
		MSCI EAFE Index	10.00
Apr-2011		NCREIF Property Index	13.00
Bloomberg Barclays Intermed Aggregate Index	35.00	MSCI Emerging Markets Index	3.00
S&P 500 Index	26.00	Russell 2500 Index	8.00
Russell Midcap Index	16.00		
Russell 2000 Index	10.00		
MSCI EAFE Index	10.00		
NCREIF Property Index	3.00		
Oct-2011			
Bloomberg Barclays Intermed Aggregate Index	30.00		
S&P 500 Index	29.00		
Russell Midcap Index	16.00		
Russell 2000 Index	10.00		
MSCI EAFE Index	10.00		
NCREIF Property Index	5.00		
Jan-2013			
Bloomberg Barclays Intermed Aggregate Index	30.00		
S&P 500 Index	26.00		
Russell Midcap Index	16.00		
Russell 2000 Index	10.00		
MSCI EAFE Index	10.00		
NCREIF Property Index	5.00		
MSCI Emerging Markets Index	3.00		



Total Equity Historical Hybrid Composition		Fixed Income Historical Hybrid Composition	
Allocation Mandate	Weight (%)	Allocation Mandate	Weight (%)
Oct-2007		Oct-2007	
S&P 500 Index	44.60	Blmbg. Barc. U.S. Aggregate Index	100.00
Russell Midcap Index	24.60		
Russell 2000 Index	15.40	Apr-2011	
MSCI EAFE Index	15.40	Bloomberg Barclays Intermed Aggregate Index	100.00
Jul-2010			
S&P 500 Index	40.00		
Russell Midcap Index	24.60		
Russell 2000 Index	15.40		
MSCI EAFE Index	15.40		
NCREIF Property Index	4.60		
Oct-2011			
S&P 500 Index	45.00		
Russell Midcap Index	25.00		
Russell 2000 Index	15.00		
MSCI EAFE Index	15.00		
Jan-2013			
S&P 500 Index	40.00		
Russell Midcap Index	25.00		
Russell 2000 Index	15.00		
MSCI EAFE Index	15.00		
MSCI Emerging Markets Index	5.00		
Oct-2014			
S&P 500 Index	40.00		
Russell Midcap Index	12.50		
Russell 2000 Index	15.00		
MSCI EAFE Index	15.00		
MSCI Emerging Markets Index	5.00		
Russell 2500 Index	12.50		



Active I	Rei	turi	n
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- 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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