Investment Performance Review Period Ending September 30, 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 21
8	Asset Allocation & Performance Fiscal Year Periods (net)	Page 24
9	Total Fund Composite Returns Based Analysis	Page 27
10	Rhumbline Equity Returns Based Analysis	Page 30
11	Rhumbline R1000 Value Returns Based Analysis	Page 32
12	Rhumbline R1000 Growth Returns Based Analysis	Page 33
13	Rhumbline S&P Mid Cap 400 Returns Based Analysis	Page 34
14	Anchor Equity Returns Based Analysis	Page 35
15	New Amsterdam Equity Returns Based Analysis	Page 39
16	Eagle Equity Returns Based Analysis	Page 43
17	Wellington Equity Returns Based Analysis	Page 47
18	Vanguard Intl Returns Based Analysis	Page 49
19	Oppenheimer Int Equity Returns Based Analysis	Page 51
20	Rhumbline International Eq Returns Based Analysis	Page 55
21	Garcia Hamilton Fixed Inc Returns Based Analysis	Page 57
22	Intercontinental Returns Based Analysis	Page 61
23	JPM Returns Based Analysis	Page 65
24	Benchmark History	Page 67
25	Definitions & Disclosure Pages	Page 70

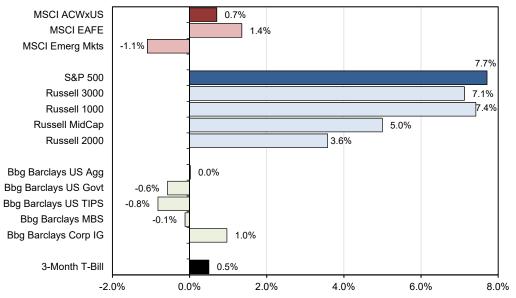


3rd Quarter 2018 Market Environment

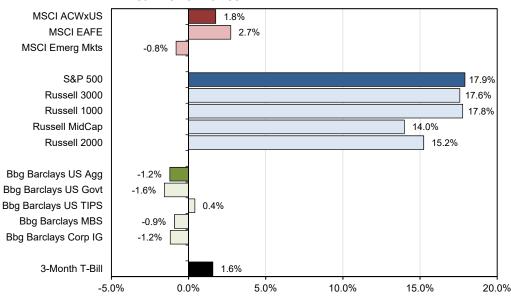


- Market returns were mixed across major equity and fixed income indices for the 3rd guarter of 2018 with many themes from the 2nd guarter repeating during the current period. Broad domestic equity indices pushed higher on continued strength in both economic and corporate earnings data. Corporate earnings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



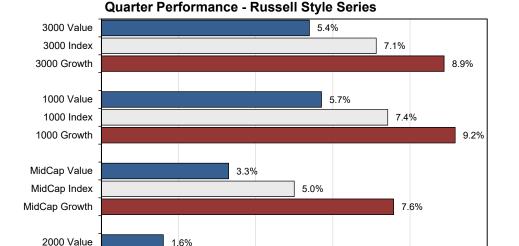


1-Year Performance





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



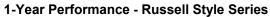
3.6%

4.0%

5.5%

6.0%

8.0%

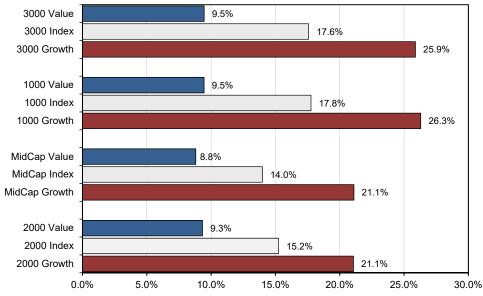


2.0%

2000 Index

2000 Growth

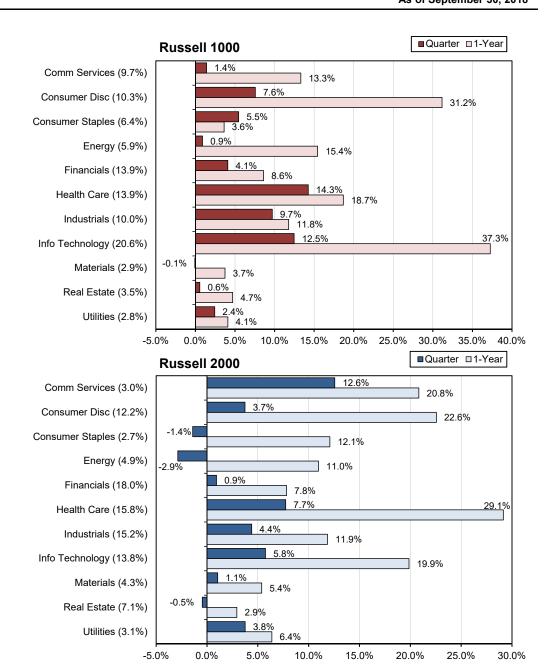
0.0%





10.0%

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





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

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

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

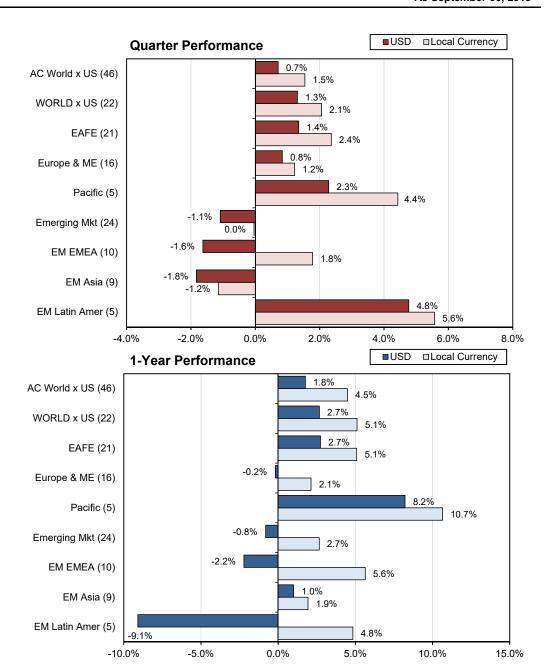
Top 10 Performing Stocks (by Quarter)						
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector		
CareDx Inc	0.04%	135.7%	679.7%	Health Care		
Reata Pharmaceuticals Inc A	0.07%	133.8%	162.9%	Health Care		
Invitae Corp	0.05%	127.6%	78.5%	Health Care		
RigNet Inc	0.01%	97.6%	18.3%	Energy		
Tandem Diabetes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

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

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



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



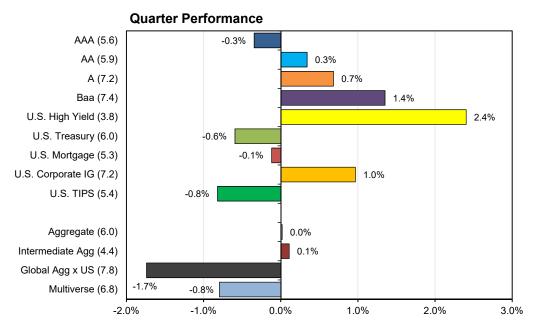


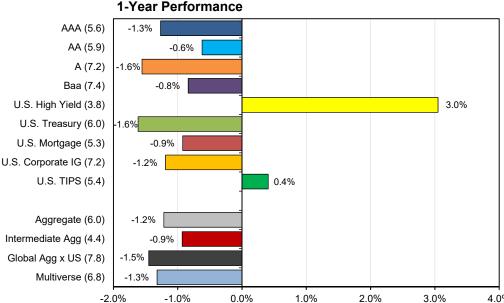
MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.4%	3.3%	-2.4%
Consumer Discretionary	11.1%	-0.5%	3.3%
Consumer Staples	11.3%	-0.1%	2.5%
Energy	6.0%	3.5%	24.6%
Financials	19.8%	0.9%	-4.0%
Health Care	10.9%	5.6%	7.1%
Industrials	14.3%	2.6%	4.2%
Information Technology	6.2%	0.3%	7.4%
Materials	8.1%	0.4%	5.1%
Real Estate	3.5%	-3.0%	1.0%
Utilities	3.3%	-0.6%	0.7%
Total	100.0%	1.4%	2.7%
MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	7.6%	-3.0%	-4.1%
Consumer Discretionary	10.7%	-3.2%	-1.4%
Consumer Staples	9.7%	-0.6%	1.6%
Energy	7.1%	4.1%	18.3%
Financials	22.0%	1.7%	-1.9%
Health Care	8.3%	4.5%	7.6%
Industrials	11.7%	2.8%	3.8%
Information Technology	8.5%	1.3%	5.6%
Materials	8.2%	0.4%	5.2%
Real Estate	3.2%	-3.5%	-2.7%
Utilities	3.0%	-0.9%	-1.2%
Total	100.0%	0.7%	1.8%
MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	14.8%	-9.4%	-6.0%
Consumer Discretionary	11.3%	-9.9%	-13.2%
Consumer Staples	6.7%	-2.9%	-1.9%
Energy	6.3%	14.5%	26.0%
Financials	23.3%	1.5%	0.4%
Health Care	3.1%	-7.2%	11.4%
Industrials	5.3%	2.5%	-4.3%
Information Technology	15.9%	2.2%	2.3%
Materials	7.8%	4.5%	8.6%
Real Estate	2.9%	-5.6%	-15.1%
Utilities	2.5%	-1.9%	-5.4%
Total	100.0%	-1.1%	-0.8%

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



- Broad fixed income benchmarks had mixed results during the 3rd quarter. Interest rates rose across all maturities on the US Treasury Yield Curve. The Federal Open Market Committee (FOMC), decided to increase short-term interest rates by 25 basis points at their September meeting citing continued strength in the economy and stable inflation. This is the third rate hike of 2018. The current Fed Funds Rate target range sits at 2.00%-2.25%. The FOMC also changed the language used in its policy statement, removing the word "accommodative", which investors took as a signal that the Fed plans to continue its trend of monetary policy tightening. The yield curve continued to flatten, although very gradually, as short-term yields rose at a greater rate than long-term yields during the quarter. The difference in yields between the 2year and 10-year Treasury now sits at just 0.24%. As the curve continues to flatten, it moves closer to becoming "inverted", which happens when shortterm maturities have greater yields than long-term securities. Historically, an inverted yield curve has signaled a greater probability of a recession. The Fed is also continuing the reduction of the size of its balance sheet by slowing its pace of reinvestment as the securities it holds mature. The Bloomberg Barclays US Aggregate Index was flat during the quarter, posting a 0.0% return. Over the 1-year period the index has fallen -1.2%.
- Within investment grade credit, lower quality corporate issues outperformed higher quality issues as credit spreads tightened steadily over the quarter. On an absolute basis, without negating the duration differences in the sub-indices, Baa rated credit was the best performing investment grade credit quality segment returning 1.4% for the quarter, while AAA was the worst performing, falling -0.3%. High yield debt outperformed relative to investment grade credit, returning 2.0%, as spreads tightened to a greater degree for these issues and the index benefitted from less sensitivity to rising interest rates due to its lower duration. Returns are negative for all investment grade quality segments when viewed over the 1-year period while high yield continues to outperform with a return of 3.0%.
- Of the Bloomberg Barclays US Aggregate Index's three broad sectors, US investment grade corporates were the best performing investment grade sector through the quarter, returning 1.0%, and the only sector to post a positive return for the period. Corporate credit outperformed as credit spreads tightened. Demand for these securities outweighed supply for the period despite considerable new issuance and a headwind from the sectors higher duration relative to other index sectors. Treasuries were the worst performing sector posting a -0.6% return. Over the 1-year period, all three broad investment grade sectors posted losses with mortgages, investment grade credit and Treasuries falling -0.9%, -1.2% and -1.6% respectively.







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

1-Year Trailing Market Rates

Treasury Yield Curve

0.00

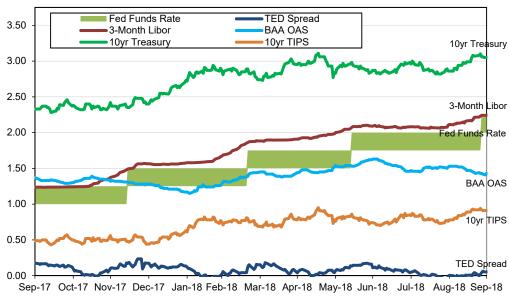
1 mo

3 mo

6 mo

1 yr

2 yr



3.50
3.50
3.00
3.00
12/31/2017
3/31/2018
9/30/2018
6/30/2018
3/31/2017
2.50
1.50
1.50

3 yr

5 yr

7 yr

10 yr

20 yr



30 yr

Total Fund Compliance:	Yes	No
The total plan return (net) equaled or exceeded the total plan benchmark over the trailing three year period.	103	•
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 \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Total Fund Composite	384,984,679	100.0	100.0	0.0	-
Eagle Equity	27,686,063	7.2	5.0	2.2	-8,436,829
Anchor Equity	18,621,568	4.8	4.0	0.8	-3,222,181
New Amsterdam Equity	20,407,610	5.3	8.0	-2.7	10,391,164
RhumbLine Equity S&P 500	40,832,673	10.6	9.0	1.6	-6,184,052
RhumbLine S&P Mid Cap 400	17,493,372	4.5	4.0	0.5	-2,093,985
RhumbLine R1000 Growth	22,642,391	5.9	8.0	-2.1	8,156,383
Wellington	20,408,345	5.3	5.0	0.3	-1,159,111
RhumbLine R1000 Value	16,202,680	4.2	9.0	-4.8	18,445,942
Oppenheimer Int Equity	12,807,481	3.3	3.0	0.3	-1,257,941
/anguard Intl Equity (VTRIX)	20,490,368	5.3	5.0	0.3	-1,241,134
RhumbLine International Equity	20,472,477	5.3	5.0	0.3	-1,223,243
Garcia Hamilton Fixed Income	73,264,444	19.0	22.0	-3.0	11,432,185
ntercontinental	34,140,146	8.9	8.0	0.9	-3,341,372
J.P. Morgan	19,617,206	5.1	5.0	0.1	-367,972
Aberdeen U.S. P.E. VII	3,021,120	0.8	0.0	0.8	-3,021,120
JP Morgan Global P.E. VII	700,839	0.2	0.0	0.2	-700,839
R&D Cash	1,384,188	0.4	0.0	0.4	-1,384,188

Eagle Equity (7.2%) Anchor Equity (4.8%) New Amsterdam Equity (5.3%) RhumbLine Equity S&P 500 (10.6%) RhumbLine S&P Mid Cap 400 (4.5%) RhumbLine R1000 Growth (5.9%) Wellington (5.3%) RhumbLine R1000 Value (4.2%) Oppenheimer Int Equity (3.3%) Vanguard Int Equity (VTRIX) (5.3%) RhumbLine International Equity (5.3%) Garcia Hamilton Fixed Income (19.0%) Intercontinental (8.9%) J.P. Morgan (5.1%)

20.0%

0.0%

40.0%

Policy

Target

60.0%

▼ In Policy

80.0%

100.0%



120.0%

Recommendation

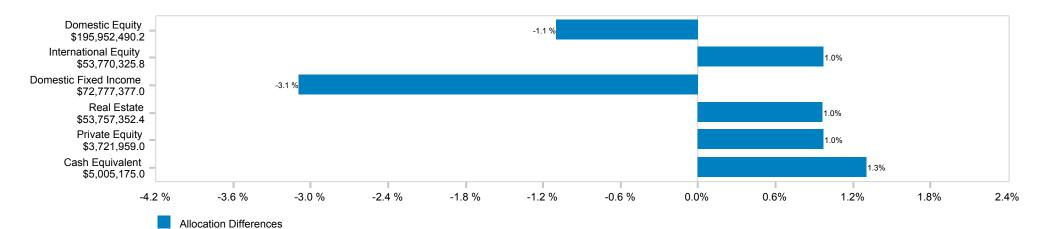
Executive Summary

Aberdeen U.S. P.E. VII (0.8%) JP Morgan Global P.E. VII (0.2%)

R&D Cash (0.4%)

-20.0 %

	Asset Allocation \$	Current Allocation (%)	Target Allocation (%)	Differences (%)	Target Rebal. (\$000)
Domestic Equity	195,952,490	50.9	52.0	-1.1	4,239,543
International Equity	53,770,326	14.0	13.0	1.0	-3,722,317
Domestic Fixed Income	72,777,377	18.9	22.0	-3.1	11,919,252
Real Estate	53,757,352	14.0	13.0	1.0	-3,709,344
Private Equity	3,721,959	1.0	0.0	1.0	-3,721,959
Cash Equivalent	5,005,175	1.3	0.0	1.3	-5,005,175
Total Fund	384,984,679	100.0	100.0	0.0	-



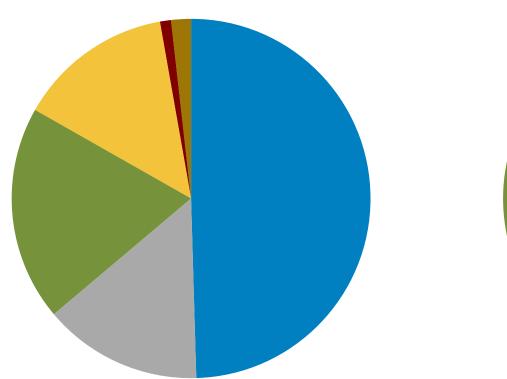


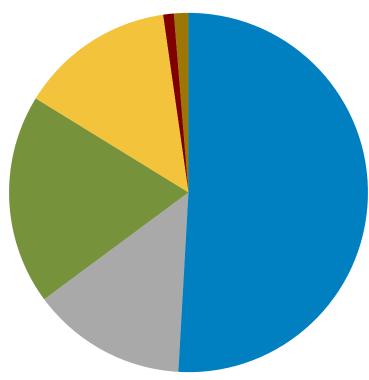


Asset Allocation Compliance

Asset Allocation By Segment as of June 30, 2018 : \$375,014,842

Asset Allocation By Segment as of September 30, 2018 : \$384,984,679



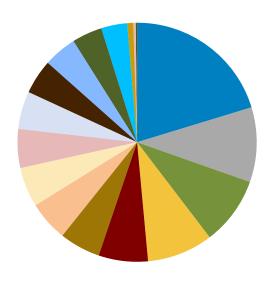


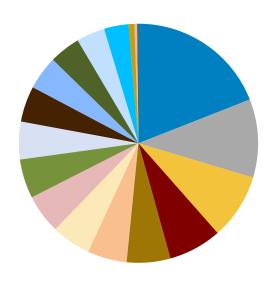
ocation			Allocation		
Segments	Market Value	Allocation	Segments	Market Value	Allocation
■ Domestic Equity	185,777,722	49.5	■ Domestic Equity	195,952,490	50.9
International Equity	53,699,775	14.3	International Equity	53,770,326	14.0
Domestic Fixed Income	72,565,788	19.4	Domestic Fixed Income	72,777,377	18.9
Real Estate	52,526,474	14.0	Real Estate	53,757,352	14.0
■ Private Equity	3,721,959	1.0	Private Equity	3,721,959	1.0
Cash Equivalent	6,723,123	1.8	Cash Equivalent	5,005,175	1.3



Asset Allocation By Manager as of June 30, 2018 : \$375,014,842

Asset Allocation By Manager as of September 30, 2018 : \$384,984,679





ocation			Allocation		
	Market Value	Allocation		Market Value	Allocation
Garcia Hamilton Fixed Income	76,051,344	20.3	Garcia Hamilton Fixed Income	73,264,444	19.0
■ RhumbLine Equity S&P 500	37,912,728	10.1	■ RhumbLine Equity S&P 500	40,832,673	10.6
New Amsterdam Equity	34,666,563	9.2	Intercontinental	34,140,146	8.9
Intercontinental	33,366,119	8.9	■ Eagle Equity	27,686,063	7.2
■ Eagle Equity	25,029,698	6.7	■ RhumbLine R1000 Growth	22,642,391	5.9
■ RhumbLine R1000 Growth	20,742,534	5.5	Vanguard Intl Equity (VTRIX)	20,490,368	5.3
Vanguard Intl Equity (VTRIX)	20,289,401	5.4	RhumbLine International Equity	20,472,477	5.3
RhumbLine International Equity	20,195,884	5.4	Wellington	20,408,345	5.3
Wellington	19,683,981	5.2	New Amsterdam Equity	20,407,610	5.3
J.P. Morgan	19,160,355	5.1	J.P. Morgan	19,617,206	5.1
■ Anchor Equity	17,558,472	4.7	Anchor Equity	18,621,568	4.8
RhumbLine S&P Mid Cap 400	16,845,403	4.5	RhumbLine S&P Mid Cap 400	17,493,372	4.5
■ RhumbLine R1000 Value	15,328,200	4.1	■ RhumbLine R1000 Value	16,202,680	4.2
Oppenheimer Int Equity	13,214,513	3.5	SSGA Small-Mid Cap Equity (SSMKX)	14,787,472	3.8
Aberdeen U.S. P.E. VII	3,021,120	0.8	Oppenheimer Int Equity	12,807,481	3.3
R&D Cash	1,247,688	0.3	Aberdeen U.S. P.E. VII	3,021,120	0.8
■ JP Morgan Global P.E. VII	700,839	0.2	■ R&D Cash	1,384,188	0.4
SSGA Small-Mid Cap Equity (SSMKX)	-	0.0	■ JP Morgan Global P.E. VII	700,839	0.2
Mutual Fund Cash	-	0.0	Mutual Fund Cash	4,236	0.0



Asset Allocation & Performance															
		ocation	_						Perfor	mance	(%)				
	Market Value \$	%	Q.	TR	FY	TD	1	YR	3 `	YR	5	YR	Ince	ption	Inception Date
Total Fund Composite	384,984,679	100.0	3.47	(32)	10.19	(15)	10.19	(15)	10.97	(20)	8.55	(24)	6.55	(21)	10/01/2007
Total Fund Policy Index			3.49	(32)	9.50	(24)	9.50	(24)	11.08	(18)	8.74	(17)	6.73	(12)	
All Public Plans-Total Fund Median			3.13		8.22		8.22		10.00		7.86		5.95		
Total Equity Composite	252,852,500	65.7	4.74		12.87		12.87		13.67		9.94		6.64		10/01/2007
Total Equity Policy Index			5.00		13.66		13.66		15.54		11.31		7.35		
Total Domestic Equity	199,082,174	51.7													
RhumbLine Equity S&P 500	40,832,673	10.6	7.70	(35)	17.87	(43)	17.87	(43)	17.26	(37)	N/A		13.49	(35)	07/01/2015
S&P 500 Index			7.71	(35)	17.91	(41)	17.91	(41)	17.31	(35)	13.95	(41)	13.53	(34)	
IM U.S. Large Cap Equity (SA+CF) Median			7.10		17.06		17.06		16.34		13.47		12.58		
RhumbLine R1000 Value	16,202,680	4.2	5.71	(49)	9.43	(77)	9.43	(77)	N/A		N/A		10.82	(80)	06/01/2017
Russell 1000 Value Index			5.70	(49)	9.45	(77)	9.45	(77)	13.55	(71)	10.72	(71)	10.84	(80)	
IM U.S. Large Cap Value Equity (SA+CF) Median			5.64		11.72		11.72		14.64		11.57		13.74		
RhumbLine R1000 Growth	22,642,391	5.9	9.16	(25)	26.25	(38)	26.25	(38)	N/A		N/A		25.11	(39)	04/01/2017
Russell 1000 Growth Index			9.17	(25)	26.30	(37)	26.30	(37)	20.55	(23)	16.58	(31)	25.14	(39)	
IM U.S. Large Cap Growth Equity (SA+CF) Median			8.19		24.66		24.66		18.85		15.70		23.95		
RhumbLine S&P Mid Cap 400	17,493,372	4.5	3.85	(72)	14.16	(61)	14.16	(61)	N/A		N/A		15.81	(59)	10/01/2016
S&P MidCap 400 Index			3.86	(69)	14.21	(58)	14.21	(58)	15.68	(43)	11.91	(57)	15.85	(57)	
IM U.S. Mid Cap Equity (SA+CF) Median			5.10		15.71		15.71		15.33		12.08		16.46		
Anchor Equity	18,621,568	4.8	6.19	(7)	14.65	(20)	14.65	(20)	13.95	(52)	11.24	(48)	8.26	(79)	10/01/2007
Russell Midcap Value Index			3.30	(57)	8.81	(59)	8.81	(59)	13.09	(65)	10.72	(63)	7.94	(89)	
IM U.S. Mid Cap Value Equity (SA+CF) Median			3.39		9.56		9.56		14.19		11.17		9.34		
New Amsterdam Equity	20,407,610	5.3	1.78	(83)	6.13	(92)	6.13	(92)	11.61	(91)	N/A		10.66	(65)	10/01/2014
Russell 2500 Index			4.70	(52)	16.19	(41)	16.19	(41)	16.13	(45)	11.37	(56)	11.98	(50)	
IM U.S. SMID Cap Equity (SA+CF) Median			4.79		14.61		14.61		15.84		11.51		11.95		
SSGA Small-Mid Cap Equity (SSMKX)	14,787,472	3.8	N/A		N/A		N/A		N/A		N/A		-1.78	(33)	09/01/2018
Russell 2500 Index			4.70	(19)	16.19	(19)	16.19	(19)	16.13	(28)	11.37	(20)	-1.52	(24)	
IM U.S. SMID Cap Core Equity (MF) Median			3.25		12.42		12.42		14.65		9.92		-2.23		
Eagle Equity	27,686,063	7.2	10.83	(18)	32.48	(31)	32.48	(31)	22.04	(29)	14.25	(33)	13.71	(56)	07/01/2011
Russell 2000 Growth Index			5.52	(73)	21.06	(75)	21.06	(75)	17.98	(74)	12.14	(71)	12.88	(74)	
IM U.S. Small Cap Growth Equity (SA+CF) Median			7.72		27.11		27.11		19.63		13.40		14.11		



	Allo	cation							Perfor	mance((%)				
	Market Value \$	%	Q:	TR	FY	/TD	1	YR	3 '	YR	5	YR	Ince	ption	Inception Date
Wellington	20,408,345	5.3	3.90	(22)	11.34	(36)	11.34	(36)	N/A		N/A		12.66	(87)	04/01/2016
Russell 2000 Value Index			1.60	(51)	9.33	(48)	9.33	(48)	16.12	(35)	9.91	(66)	17.50	(32)	
IM U.S. Small Cap Value Equity (SA+CF) Median			1.69		9.02		9.02		15.00		10.76		16.12		
Total International Equity	53,770,326	14.0													
Vanguard Intl Equity (VTRIX)	20,490,368	5.3	0.99	(49)	1.90	(19)	1.90	(19)	10.05	(1)	3.96	(3)	6.00	(1)	07/01/2013
MSCI EAFE Value			1.26	(40)	0.24	(40)	0.24	(40)	8.76	(13)	3.71	(8)	5.91	(1)	
IM International Large Cap Value Equity (MF) Median			0.85		-0.42		-0.42		6.83		2.19		3.91		
Oppenheimer Int Equity	12,807,481	3.3	-3.08	(59)	1.31	(13)	1.31	(13)	14.14	(25)	4.33	(51)	4.71	(31)	01/01/2013
MSCI Emerging Markets Index			-0.95	(33)	-0.44	(23)	-0.44	(23)	12.77	(41)	3.99	(61)	2.72	(72)	
IM Emerging Markets Equity (SA+CF) Median			-2.30		-2.59		-2.59	, ,	12.14	. ,	4.34	, ,	3.56	, ,	
RhumbLine International Equity	20,472,477	5.3	1.37	(27)	2.74	(39)	2.74	(39)	N/A		N/A		11.87	(70)	02/01/2016
MSCI EAFE Index			1.42	(25)	3.25	(34)	3.25	(34)	9.77	(68)	4.90	(62)	12.25	(66)	
IM International Equity (SA+CF) Median			0.17		1.46		1.46		11.12		5.63		13.65		
Total Fixed Income Composite	73,264,444	19.0	0.12		0.33		0.33		1.56		2.68		4.25		10/01/2007
Fixed Income Index			0.11		-0.93		-0.93		0.95		1.70		3.42		
Garcia Hamilton Fixed Income	73,264,444	19.0	0.12	(95)	0.34	(12)	0.34	(12)	1.61	(30)	2.71	(10)	4.69	(6)	10/01/2007
Fixed Income Index			0.11	(96)	-0.93	(96)	-0.93	(96)	0.95	(92)	1.70	(76)	3.42	(83)	
IM U.S. Intermediate Duration (SA+CF) Median			0.37		-0.39		-0.39		1.37		1.91		3.74		
Total Real Estate	53,757,352	14.0													
Intercontinental	34,140,146	8.9	2.52	(22)	11.41	(11)	11.41	(11)	12.01	(23)	13.05	(21)	13.39	(36)	07/01/2010
Real Estate Policy			1.67	(77)	7.16	(100)	7.16	(100)	7.75	(87)	9.57	(83)	10.89	(85)	
IM U.S. Private Real Estate (SA+CF) Median			2.35	• •	9.69	` ,	9.69	, ,	9.53	` '	11.41	. ,	13.02	. ,	
J.P. Morgan	19,617,206	5.1	2.71	(13)	10.94	(18)	10.94	(18)	10.99	(30)	N/A		13.52	(16)	07/01/2014
Real Estate Policy			1.67	(77)	7.16	(100)	7.16	(100)	7.75	(87)	N/A		9.26	(85)	
IM U.S. Private Real Estate (SA+CF) Median			2.35		9.69		9.69		9.53		11.41		11.18		
R&D Cash	1,384,188	0.4													



Asset Allocation & Performance									
		ocation				Performance	(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	Inception	Inception Date
Total Fund Composite	384,984,679	100.0	3.38	9.76	9.76	10.45	8.03	6.15	10/01/2007
Total Fund Policy Index			3.49	9.50	9.50	11.08	8.74	6.73	
Total Equity Composite	252,852,500	65.7	4.66	12.55	12.55	13.24	9.43	6.20	10/01/2007
Total Equity Policy Index			5.00	13.66	13.66	15.54	11.31	7.35	
Total Domestic Equity	199,082,174	51.7							
RhumbLine Equity S&P 500	40,832,673	10.6	7.69	17.81	17.81	17.22	N/A	13.46	07/01/2015
S&P 500 Index			7.71	17.91	17.91	17.31	13.95	13.53	
RhumbLine R1000 Value	16,202,680	4.2	5.69	9.39	9.39	N/A	N/A	10.78	06/01/2017
Russell 1000 Value Index			5.70	9.45	9.45	13.55	10.72	10.84	
RhumbLine R1000 Growth	22,642,391	5.9	9.15	26.20	26.20	N/A	N/A	25.05	04/01/2017
Russell 1000 Growth Index			9.17	26.30	26.30	20.55	16.58	25.14	
RhumbLine S&P Mid Cap 400	17,493,372	4.5	3.83	14.10	14.10	N/A	N/A	15.76	10/01/2016
S&P MidCap 400 Index			3.86	14.21	14.21	15.68	11.91	15.85	
Anchor Equity	18,621,568	4.8	6.07	14.11	14.11	13.41	10.66	7.78	10/01/2007
Russell Midcap Value Index			3.30	8.81	8.81	13.09	10.72	7.94	
New Amsterdam Equity	20,407,610	5.3	1.68	5.71	5.71	11.15	N/A	10.22	10/01/2014
Russell 2500 Index			4.70	16.19	16.19	16.13	11.37	11.98	
SSGA Small-Mid Cap Equity (SSMKX)) 14,787,472	3.8	N/A	N/A	N/A	N/A	N/A	-1.78	09/01/2018
Russell 2500 Index			4.70	16.19	16.19	16.13	11.37	-1.52	
Eagle Equity	27,686,063	7.2	10.62	31.52	31.52	21.15	13.40	12.88	07/01/2011
Russell 2000 Growth Index			5.52	21.06	21.06	17.98	12.14	12.88	
Vellington	20,408,345	5.3	3.68	10.38	10.38	N/A	N/A	11.78	04/01/2016
Russell 2000 Value Index			1.60	9.33	9.33	16.12	9.91	17.50	



	Allo	ocation				Performance	(%)		
	Market Value \$	%	QTR	FYTD	1 YR	3 YR	5 YR	Inception	Inception Date
Total International Equity	53,770,326	14.0							
Vanguard Intl Equity (VTRIX) MSCI EAFE Value	20,490,368	5.3	0.99 1.26	1.90 0.24	1.90 0.24	10.05 8.76	3.96 3.71	6.00 5.91	07/01/2013
Oppenheimer Int Equity MSCI Emerging Markets Index	12,807,481	3.3	-3.29 -0.95	0.47 -0.44	0.47 -0.44	13.26 12.77	3.45 3.99	3.89 2.72	01/01/2013
RhumbLine International Equity MSCI EAFE Index	20,472,477	5.3	1.36 1.42	2.68 3.25	2.68 3.25	N/A 9.77	N/A 4.90	11.82 12.25	02/01/2016
Total Fixed Income Composite Fixed Income Index	73,264,444	19.0	0.07 0.11	0.12 -0.93	0.12 -0.93	1.36 0.95	2.48 1.70	4.07 3.42	10/01/2007
Garcia Hamilton Fixed Income Fixed Income Index	73,264,444	19.0	0.07 0.11	0.13 -0.93	0.13 -0.93	1.41 0.95	2.51 1.70	4.50 3.42	10/01/2007
Total Real Estate	53,757,352	14.0							
Intercontinental Real Estate Policy	34,140,146	8.9	2.32 1.67	10.36 7.16	10.36 7.16	10.22 7.75	11.10 9.57	12.10 10.89	07/01/2010
J.P. Morgan Real Estate Policy	19,617,206	5.1	2.38 1.67	9.38 7.16	9.38 7.16	9.31 7.75	N/A N/A	12.00 9.26	07/01/2014
R&D Cash	1,384,188	0.4							



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Comparative Performance - IRR Private Equity

As of September 30, 2018

Comparative Performance - IR	R						
	QTD	FYTD	1 YR	3 YR	5 YR	Inception	Inception Date
Aberdeen U.S. P.E. VII	0.00	N/A	N/A	N/A	N/A	13.37	05/16/2018
JP Morgan Global P.E. VII	0.00	N/A	N/A	N/A	N/A	-6.25	05/18/2018



	ΔIIA	cation					Perform	nance(%)				
	Market	Cation	Oct-2017	Oct-2016	Oct-2015	Oct-2014	Oct-2013		Oct-2011	Oct-2010	Oct-2009	Oct-2008
	Value \$	%	To Sep-2018	То	То	To Sep-2015	То	To Sep-2013	То	To Sep-2011	То	To Sep-2009
Total Fund Composite	384,984,679	100.0	10.19 (15)	14.01 (16)	8.77 (73)	0.69 (24)	9.53 (65)	13.75 (29)	18.42 (38)	0.22 (51)	10.94 (25)	2.33 (43)
Total Fund Policy Index			9.50 (24)	13.01 (33)	10.75 (17)	0.71 (23)	10.14 (51)	14.75 (15)	19.53 (19)	1.38 (25)	10.58 (33)	1.45 (53)
All Public Plans-Total Fund Median			8.22	12.21	9.67	-0.52	10.17	12.51	17.98	0.29	9.88	1.69
Total Equity Composite	252,852,500	65.7	12.87	18.47	9.85	-1.34	10.82	18.19	22.91	-0.26	13.84	-2.87
Total Equity Policy Index			13.66	18.97	14.06	-2.21	13.29	22.52	27.50	-0.83	11.21	-4.75
Total Domestic Equity	199,082,174	51.7										
361 Capital (BRC Equity)	-	0.0	N/A	N/A	4.57 (96)	0.14 (20)	20.33 (26)	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index			9.45 (77)	15.12 (76)	16.19 (25)	-4.42 (65)	18.89 (42)	22.30 (60)	30.92 (26)	-1.89 (62)	8.90 (55)	-10.62 (84)
IM U.S. Large Cap Value Equity (SA+CF) Median			11.72	17.92	13.13	-3.24	18.35	23.71	28.17	-0.97	9.32	-5.89
RhumbLine Equity S&P 500	40,832,673	10.6	17.87 (43)	18.55 (58)	15.40 (25)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S&P 500 Index			17.91 (41)	18.61 (55)	15.43 (24)	-0.61 (57)	19.73 (37)	19.34 (70)	30.20 (38)	1.14 (46)	10.16 (50)	-6.91 (65)
IM U.S. Large Cap Equity (SA+CF) Median			17.06	18.85	13.19	-0.30	18.78	21.07	29.11	0.78	10.13	-5.50
RhumbLine R1000 Value	16,202,680	4.2	9.43 (77)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index			9.45 (77)	15.12 (76)	16.19 (25)	-4.42 (65)	18.89 (42)	` '	30.92 (26)	-1.89 (62)	. ,	-10.62 (84)
IM U.S. Large Cap Value Equity (SA+CF) Median			11.72	17.92	13.13	-3.24	18.35	23.71	28.17	-0.97	9.32	-5.89
RhumbLine R1000 Growth	22,642,391	5.9	26.25 (38)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 1000 Growth Index			26.30 (37)	21.94 (36)	13.76 (22)	3.17 (55)	19.15 (40)	19.27 (64)	29.19 (38)	3.78 (30)	12.65 (36)	-1.85 (38)
IM U.S. Large Cap Growth Equity (SA+CF) Median			24.66	20.80	11.60	3.61	18.12	20.24	27.62	1.40	11.28	-2.99
Garcia Hamilton Equity	-	0.0	N/A	N/A	11.91 (49)	1.41 (72)	17.12 (61)	12.80 (99)	27.13 (55)	2.94 (38)	11.51 (47)	-5.16 (66)
Russell 1000 Growth Index			26.30 (37)	21.94 (36)	13.76 (22)	3.17 (55)	19.15 (40)	19.27 (64)	29.19 (38)	3.78 (30)	12.65 (36)	-1.85 (38)
IM U.S. Large Cap Growth Equity (SA+CF) Median			24.66	20.80	11.60	3.61	18.12	20.24	27.62	1.40	11.28	-2.99
RhumbLine S&P Mid Cap 400	17,493,372	4.5	14.16 (61)	17.49 (55)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S&P MidCap 400 Index			14.21 (58)	17.52 (53)	15.33 (29)	1.40 (54)	11.82 (67)	27.68 (56)	28.54 (40)	-1.28 (58)	17.78 (42)	-3.11 (56)
IM U.S. Mid Cap Equity (SA+CF) Median			15.71	17.58	11.86	1.49	13.58	28.06	27.30	-0.64	16.80	-2.72
Anchor Equity	18,621,568	4.8	14.65 (20)	14.45 (80)	12.76 (68)	4.71 (7)	9.97 (91)	16.82 (100)	21.94 (95)	-1.20 (50)	16.15 (44)	-0.66 (35)
Russell Midcap Value Index			8.81 (59)	13.37 (85)	17.26 (28)	-2.07 (58)	17.46 (27)	27.77 (62)	29.28 (47)	-2.36 (57)	16.93 (31)	-7.12 (90)
IM U.S. Mid Cap Value Equity (SA+CF) Median			9.56	17.05	15.15	-1.23	15.83	28.85	28.57	-1.44	15.59	-2.72
Oak Ridge Equity	-	0.0	N/A	N/A	N/A	3.41 (44)	7.64 (84)	25.96 (64)	22.03 (76)	N/A	N/A	N/A
Russell Midcap Growth Index			21.10 (53)	17.82 (60)	11.24 (28)	1.45 (69)	14.43 (27)	27.54 (48)	26.69 (42)	0.80 (53)	18.27 (51)	-0.40 (44)
IM U.S. Mid Cap Growth Equity (SA+CF) Median			22.02	18.78	8.38	2.98	11.43	27.31	26.18	1.20	18.31	-1.59



	Allo	cation					Perform	nance(%)				
	Market Value \$	%	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	То	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	То	То	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010	Oct-2008 To Sep-2009
New Amsterdam Equity	20,407,610	5.3	6.13 (92)	20.50 (34)	8.71 (75)	7.88 (9)	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2500 Index			16.19 (41)	17.79 (63)		0.38 (57)		29.79 (53)	30.93 (38)	-2.22 (63)	15.92 (55)	-5.68 (67)
IM U.S. SMID Cap Equity (SA+CF) Median			14.61	18.95	12.56	0.97	10.31	30.01	29.21	-0.95	16.23	-3.08
SSGA Small-Mid Cap Equity (SSMKX)	14,787,472	3.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2500 Index			16.19 (19)	17.79 (60)	14.44 (44)	0.38 (54)	8.97 (23)	29.79 (47)	30.93 (34)	-2.22 (36)	15.92 (23)	-5.68 (44)
IM U.S. SMID Cap Core Equity (MF) Median			12.42	18.59	13.48	0.61	6.31	29.44	29.17	-3.59	13.88	-6.81
Eagle Equity	27,686,063	7.2	32.48 (31)	22.28 (40)	12.20 (46)	4.68 (43)	2.33 (64)	33.00 (59)	28.41 (65)	N/A	N/A	N/A
Russell 2000 Growth Index			21.06 (75)	20.98 (58)	12.12 (46)	4.04 (49)	3.79 (54)	33.07 (58)	31.18 (48)	-1.12 (67)	14.79 (54)	-6.32 (63)
IM U.S. Small Cap Growth Equity (SA+CF) Median			27.11	21.53	11.53	3.76	4.28	33.93	30.61	1.06	15.30	-3.86
Wellington	20,408,345	5.3	11.34 (36)	14.79 (88)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2000 Value Index			9.33 (48)	20.55 (51)	18.81 (25)	-1.60 (67)	4.13 (80)	27.04 (82)	32.63 (41)	-5.99 (74)	11.84 (76)	-12.61 (86)
IM U.S. Small Cap Value Equity (SA+CF) Median			9.02	20.57	15.69	0.79	6.96	30.97	31.11	-2.83	14.99	-4.15
Total International Equity	53,770,326	14.0										
Vanguard Intl Equity (VTRIX)	20,490,368	5.3	1.90 (19)	20.63 (44)	8.41 (1)	-13.91 (79)	5.83 (16)	N/A	N/A	N/A	N/A	N/A
MSCI EAFE Value			0.24 (40)	23.22 (1)	4.16 (30)	-12.18 (78)	6.18 (16)	24.91 (12)	13.34 (56)	-9.46 (12)	-1.15 (80)	8.06 (4)
IM International Large Cap Value Equity (MF) Median			-0.42	20.52	3.34	-10.30	3.48	22.62	13.59	-11.49	0.54	-1.35
Oppenheimer Int Equity	12,807,481	3.3	1.31 (13)	23.04 (48)	19.28 (35)	-22.23 (88)	6.91 (46)	N/A	N/A	N/A	N/A	N/A
MSCI Emerging Markets Index			-0.44 (23)	22.91 (49)	17.21 (51)	-18.98 (68)	4.66 (69)	1.33 (75)	17.34 (57)	-15.89 (57)	20.54 (60)	19.44 (51)
IM Emerging Markets Equity (SA+CF) Median			-2.59	22.67	17.31	-17.33	6.49	4.43	18.02	-15.04	22.26	19.60
RhumbLine International Equity	20,472,477	5.3	2.74 (39)	19.24 (64)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MSCI EAFE Index			3.25 (34)	19.65 (61)	7.06 (76)	-8.27 (50)	4.70 (63)	24.29 (33)	14.33 (71)	-8.94 (45)	3.71 (80)	3.80 (65)
IM International Equity (SA+CF) Median			1.46	21.05	11.48	-8.30	5.80	20.28	17.27	-9.58	9.57	7.03
Total Fixed Income Comments	70 004 444	40.0	0.22	0.60	3.79	2.00	4.70	4.00	9.04	0.44	7.00	40.50
Total Fixed Income Composite	73,264,444	19.0	0.33 -0.93	0.60	3.79	3.98 2.95	4.78 2.74	1.03 -0.71	****	2.41 3.59	7.99 8.16	10.50 10.56
Fixed Income Index			-0.93	0.25	3.57	2.95	2.74	-0.71	4.31	3.39	0.10	10.56
Garcia Hamilton Fixed Income	73,264,444	19.0	0.34 (12)	0.69 (51)	3.84 (59)	3.98 (5)	4.78 (10)	1.03 (8)	9.04 (7)	2.61 (86)	` ,	13.95 (15)
Fixed Income Index			-0.93 (96)	0.25 (87)	3.57 (73)	2.95 (32)	2.74 (58)	-0.71 (77)	4.31 (84)	3.59 (52)	8.16 (54)	
IM U.S. Intermediate Duration (SA+CF) Median			-0.39	0.70	3.90	2.70	2.88	-0.27	5.56	3.60	8.25	11.51
RhumbLine Fixed Income	-	0.0	N/A	-0.06 (94)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Blmbg. Barc. U.S. Aggregate Index			-1.22 (90)	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)
IM U.S. Broad Market Core Fixed Income (SA+CF) Median	า		-0.74	0.63	5.67	3.02	4.52	-1.22	6.70	5.26	9.28	12.30



Asset Allocation & Performance Total Fund Composite (Gross)

As of September 30, 2018

	Allo	cation					Perform	nance(%)				
	Market Value \$	%	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	То	Oct-2014 To Sep-2015	То	То	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010	Oct-2008 To Sep-2009
Total Real Estate	53,757,352	14.0										
Intercontinental Real Estate Policy	34,140,146	8.9	7.16 (100)	(- /	9.22 (94)	13.48 (78)	11.26 (91)	11.00 (81)	14.24 (43) 11.00 (75)	19.17 (40) 16.10 (66)	N/A N/A	N/A N/A
IM U.S. Private Real Estate (SA+CF) Median			9.69	8.30	11.57	15.79	13.12	13.35	13.10	17.30		-35.27
J.P. Morgan Real Estate Policy	19,617,206	5.1	10.94 (18) 7.16 (100)	9.93 (25) 6.89 (73)	9.22 (94)	20.93 (17)	N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A
IM U.S. Private Real Estate (SA+CF) Median			9.69	8.30	11.57	15.79	13.12	13.35	13.10	17.30	6.39	-35.27
R&D Cash	1,384,188	0.4										



	Alla	cation					Dorforn	nance(%)				
	Market Value \$	%	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010	Oct-2008 To Sep-2009
Total Fund Composite	384,984,679	100.0	9.76	13.44	8.22	0.21	8.99	13.26	17.90	-0.17	10.59	2.07
Total Fund Policy Index			9.50	13.01	10.75	0.71	10.14	14.75	19.53	1.38	10.58	1.45
Total Equity Composite	252,852,500	65.7	12.55	18.05	9.29	-1.87	10.14	17.61	22.25	-0.74	13.42	-3.23
Total Equity Policy Index			13.66	18.97	14.06	-2.21	13.29	22.52	27.50	-0.83	11.21	-4.75
Total Domestic Equity	199,082,174	51.7										
361 Capital (BRC Equity)	-	0.0	N/A	N/A	4.06	-0.35	19.81	N/A	N/A	N/A	N/A	N/A
Russell 1000 Value Index			9.45	15.12	16.19	-4.42	18.89	22.30	30.92	-1.89	8.90	-10.62
RhumbLine Equity S&P 500	40,832,673	10.6	17.81	18.49	15.39	N/A						
S&P 500 Index			17.91	18.61	15.43	-0.61	19.73	19.34	30.20	1.14	10.16	-6.91
RhumbLine R1000 Value	16,202,680	4.2	9.39	N/A								
Russell 1000 Value Index			9.45	15.12	16.19	-4.42	18.89	22.30	30.92	-1.89	8.90	-10.62
RhumbLine R1000 Growth	22,642,391	5.9	26.20	N/A								
Russell 1000 Growth Index			26.30	21.94	13.76	3.17	19.15	19.27	29.19	3.78	12.65	-1.85
Garcia Hamilton Equity	-	0.0	N/A	N/A	11.27	1.16	16.51	12.25	26.52	2.43	10.96	-5.51
Russell 1000 Growth Index			26.30	21.94	13.76	3.17	19.15	19.27	29.19	3.78	12.65	-1.85
RhumbLine S&P Mid Cap 400	17,493,372	4.5	14.10	17.44	N/A							
S&P MidCap 400 Index			14.21	17.52	15.33	1.40	11.82	27.68	28.54	-1.28	17.78	-3.11
Anchor Equity	18,621,568	4.8	14.11	13.91	12.21	4.07	9.33	16.27	21.37	-1.66	15.62	-1.04
Russell Midcap Value Index			8.81	13.37	17.26	-2.07	17.46	27.77	29.28	-2.36	16.93	-7.12
Oak Ridge Equity	-	0.0	N/A	N/A	N/A	2.81	6.99	25.22	21.33	N/A	N/A	N/A
Russell Midcap Growth Index			21.10	17.82	11.24	1.45	14.43	27.54	26.69	0.80	18.27	-0.40
New Amsterdam Equity	20,407,610	5.3	5.71	20.00	8.25	7.46	N/A	N/A	N/A	N/A	N/A	N/A
Russell 2500 Index			16.19	17.79	14.44	0.38	8.97	29.79	30.93	-2.22	15.92	-5.68
SSGA Small-Mid Cap Equity (SSM	KX) 14,787,472	3.8	N/A									
Russell 2500 Index			16.19	17.79	14.44	0.38	8.97	29.79	30.93	-2.22	15.92	-5.68
Eagle Equity	27,686,063	7.2	31.52	21.37	11.38	3.90	1.53	32.03	27.38	N/A	N/A	N/A
Russell 2000 Growth Index			21.06	20.98	12.12	4.04	3.79	33.07	31.18	-1.12	14.79	-6.32



	Allo	cation					Perform	nance(%)				
	Market Value \$	%	Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013	Oct-2011 To Sep-2012	Oct-2010 To Sep-2011	Oct-2009 To Sep-2010	Oct-2008 To Sep-2009
Wellington	20,408,345	5.3	10.38	13.78	N/A							
Russell 2000 Value Index			9.33	20.55	18.81	-1.60	4.13	27.04	32.63	-5.99	11.84	-12.61
Total International Equity	53,770,326	14.0										
Vanguard Intl Equity (VTRIX)	20,490,368	5.3	1.90	20.63	8.41	-13.91	5.83	N/A	N/A	N/A	N/A	N/A
MSCI EAFE Value			0.24	23.22	4.16	-12.18	6.18	24.91	13.34	-9.46	-1.15	8.06
Oppenheimer Int Equity	12,807,481	3.3	0.47	21.80	18.73	-22.95	5.83	N/A	N/A	N/A	N/A	N/A
MSCI Emerging Markets Index			-0.44	22.91	17.21	-18.98	4.66	1.33	17.34	-15.89	20.54	19.44
RhumbLine International Equity	20,472,477	5.3	2.68	19.18	N/A							
MSCI EAFE Index			3.25	19.65	7.06	-8.27	4.70	24.29	14.33	-8.94	3.71	3.80
Total Fixed Income Composite	73,264,444	19.0	0.12	0.40	3.60	3.78	4.57	0.83	8.83	2.21	7.83	10.35
Fixed Income Index			-0.93	0.25	3.57	2.95	2.74	-0.71	4.31	3.59	8.16	10.56
Garcia Hamilton Fixed Income	73,264,444	19.0	0.13	0.49	3.64	3.78	4.57	0.83	8.83	2.39	8.01	13.79
Fixed Income Index			-0.93	0.25	3.57	2.95	2.74	-0.71	4.31	3.59	8.16	10.56
RhumbLine Fixed Income	_	0.0	N/A	-0.24	N/A							
Blmbg. Barc. U.S. Aggregate Index			-1.22	0.07	5.19	2.94	3.96	-1.68	5.16	5.26	8.16	10.56
Total Real Estate	53,757,352	14.0										
Intercontinental	34,140,146	8.9	10.36	9.59	10.71	12.18	12.68	13.98	13.96	19.17	N/A	N/A
Real Estate Policy	• •		7.16	6.89	9.22	13.48	11.26	11.00	11.00	16.10	N/A	N/A
J.P. Morgan	19,617,206	5.1	9.38	8.21	10.36	19.53	N/A	N/A	N/A	N/A	N/A	N/A
Real Estate Policy			7.16	6.89	9.22	13.48	N/A	N/A	N/A	N/A	N/A	N/A
R&D Cash	1,384,188	0.4										

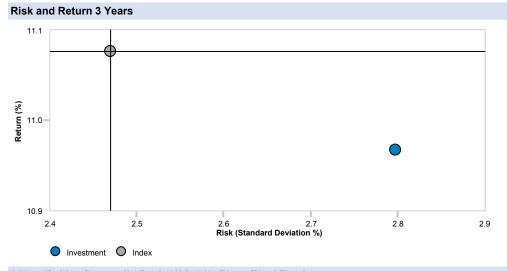


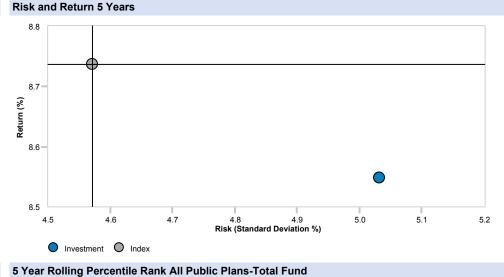
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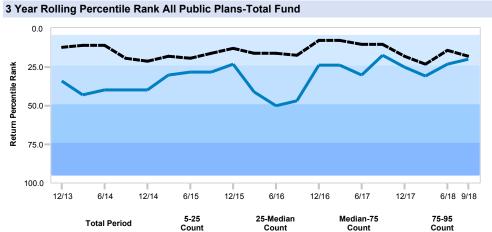


Historical Statis	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	10.97	2.80	3.49	98.80	11	69.43	1
Index	11.08	2.47	3.92	100.00	11	100.00	1

Historical Statistics 5 Years								
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters	
Investment	8.55	5.03	1.59	100.57	17	116.17	3	
Index	8.74	4.57	1.78	100.00	17	100.00	3	







7 (35%)

20 (100%)

Count

13 (65%)

0 (0%)

Count

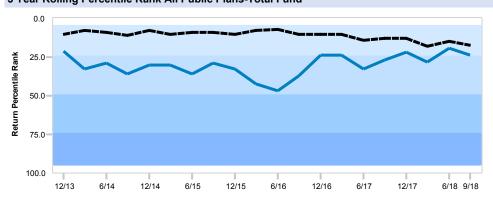
0 (0%)

0 (0%)

Count

0 (0%)

0 (0%)



	Total Period	Cou		Z5-IVIE Cou		Cou		75- Cou	
Investment	20	6	(30%)	14	(70%)	0	(0%)	0	(0%)
Index	20	20	(100%)	0	(0%)	0	(0%)	0	(0%)



Investment

__ Index

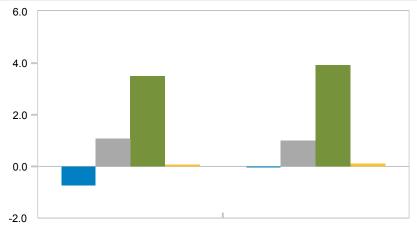
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20



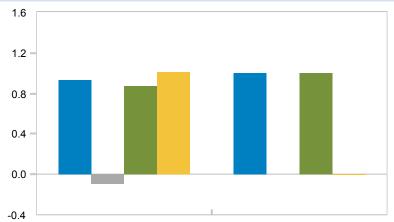


Risk / Reward Historical Statistics 3 Years Ending September 30, 2018



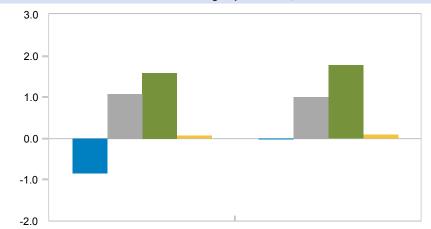
	Total Fund Composite	Total Fund Policy Index
■ Alpha	-0.71	0.00
Beta	1.06	1.00
Sharpe Ratio	3.49	3.92
Treynor Ratio	0.09	0.10

Benchmark Relative Historical Statistics 3 Years Ending September 30, 2018



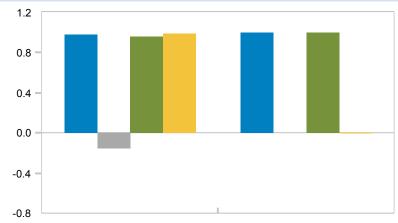
	Total Fund Composite	Total Fund Policy Index
Actual Correlation	0.93	1.00
Information Ratio	-0.09	N/A
R-Squared	0.87	1.00
Tracking Error	1.01	0.00

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



	Total Fund Composite	Total Fund Policy Index
Alpha	-0.86	0.00
■ Beta	1.08	1.00
Sharpe Ratio	1.59	1.78
Treynor Ratio	0.07	0.08

Benchmark Relative Historical Statistics 5 Years Ending September 30, 2018



	Total Fund Composite	Total Fund Policy Index
Actual Correlation	0.98	1.00
Information Ratio	-0.16	N/A
R-Squared	0.97	1.00
Tracking Error	0.99	0.00

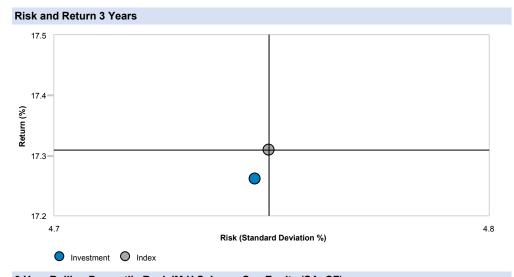
Benchmark: Total Fund Policy Index

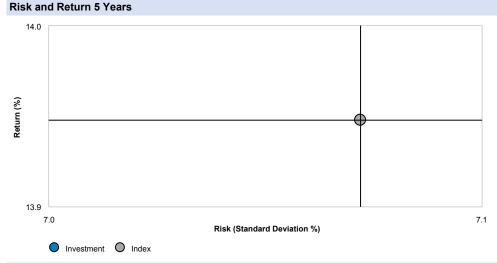


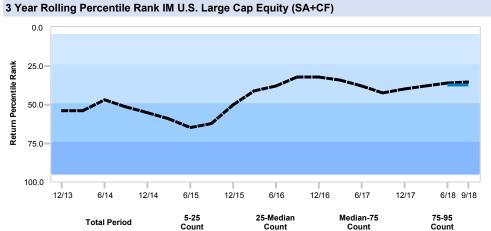
mambemo Equity	oai ooo oai ooo iiiaox
	As of September 30, 2018

Historical Statis	stics 3 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	17.26	4.75	3.28	99.76	11	100.91	1
Index	17 21	4.75	3 20	100.00	11	100.00	4

Historical Stati	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Index	13.95	7.07	1.85	100.00	18	100.00	2







2 (100%)

13 (65%)

0 (0%)

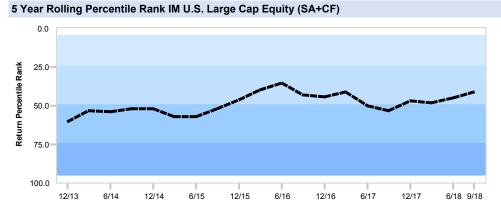
7 (35%)

0 (0%)

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%)	11 (55%)	9 (45%)	0 (0%)	

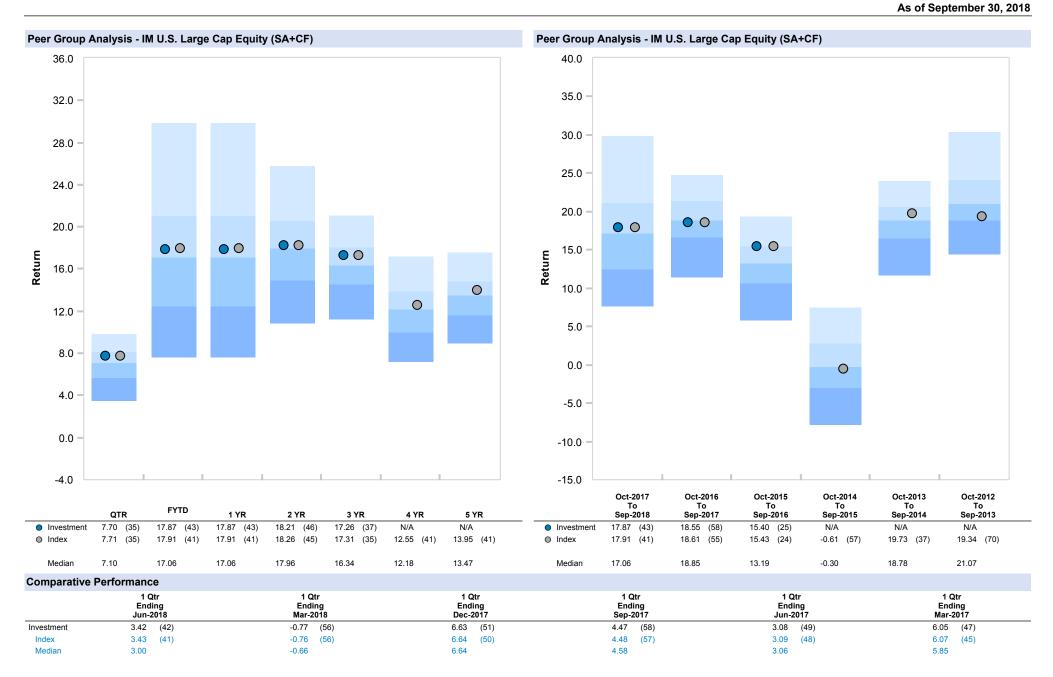


Investment

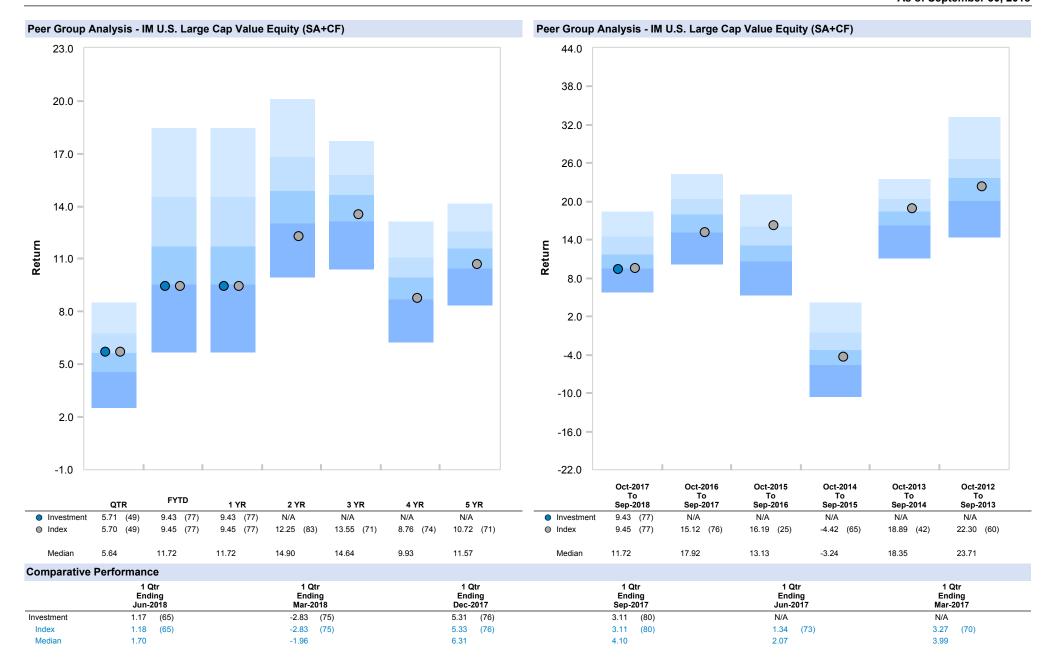
__ Index

2

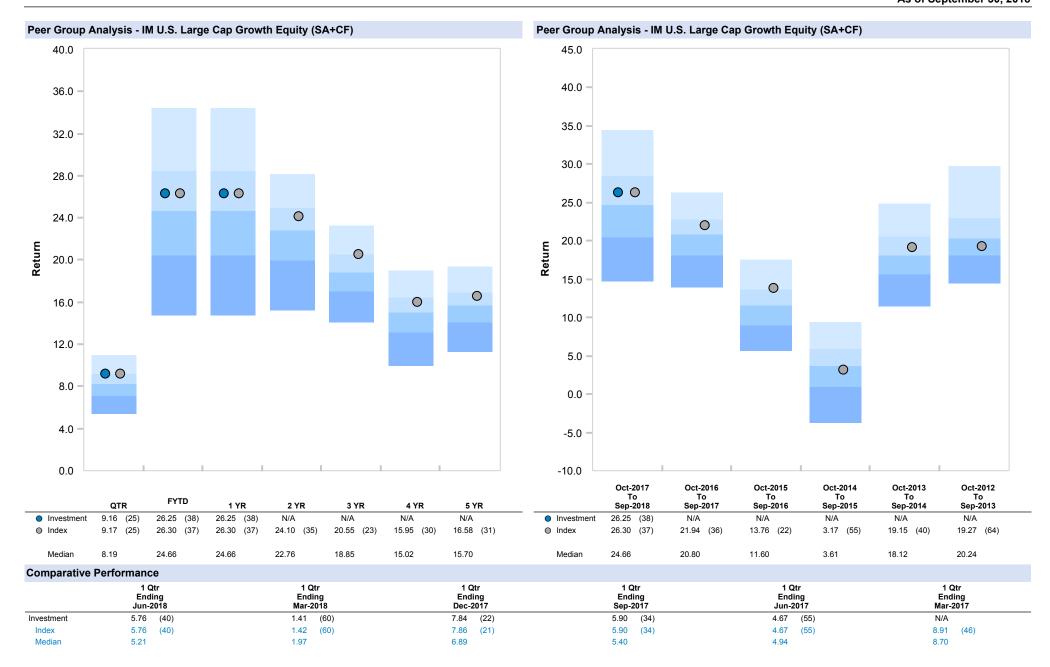
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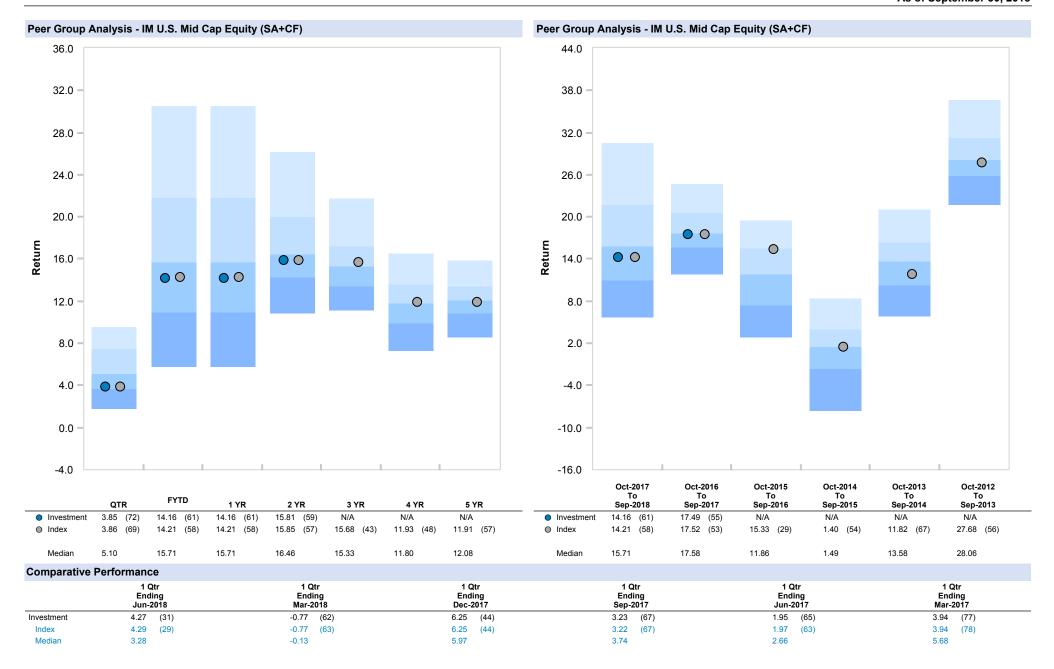








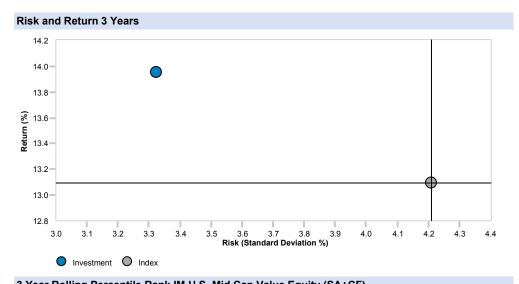






Historical Statistics 3 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	13.95	3.33	3.77	99.57	11	3.71	1			
Index	13.00	4 21	2.70	100.00	11	100.00	4			

Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	11.24	6.65	1.59	96.11	16	68.60	4
Index	10.72	7.50	1.34	100.00	16	100.00	4



Risk and Return 5 Years 11.4 11.2= Return (%) 10.8= 10.6 6.4 6.5 6.6 6.7 6.8 6.9 7.0 7.1 7.2 7.3 7.4 7.5 7.6 7.7 Risk (Standard Deviation %) Investment Index

3 Year Rolling Percentile Rank IM U.S. Mid Cap Value Equity (SA+CF) 0.0 Return Percentile Rank 25.0 100.0 6/14 12/14 12/15 6/16 6/17 12/13 6/15 12/16 12/17 6/18 9/18 5-25 25-Median Median-75 75-95 Total Period

Count

4 (20%)

7 (35%)

Count

7 (35%)

13 (65%)

Count

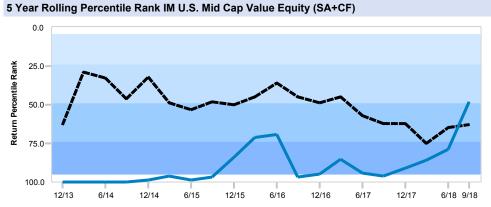
9 (45%)

0 (0%)

Count

0 (0%)

0 (0%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	0 (0%)	1 (5%)	2 (10%)	17 (85%)
Index	20	0 (0%)	12 (60%)	8 (40%)	0 (0%)



Investment

__ Index

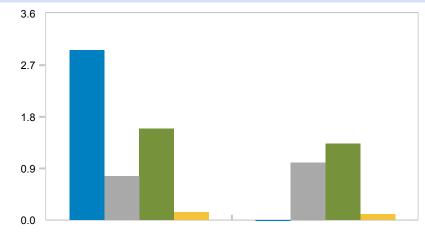
20





Risk / Reward Historical Statistics 3 Years Ending September 30, 2018 12.0 9.0 6.0 3.0 Anchor Equity Russell Midcap Value Index Alpha 7.49 0.00 Beta 0.48 1.00

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



	Anchor Equity	Russell Midcap Value Index
■ Alpha	2.95	0.00
■ Beta	0.76	1.00
Sharpe Ratio	1.59	1.34
Treynor Ratio	0.14	0.10
■ Beta ■ Sharpe Ratio	0.76 1.59	1.00 1.34

Benchmark Relative Historical Statistics 3 Years Ending September 30, 2018

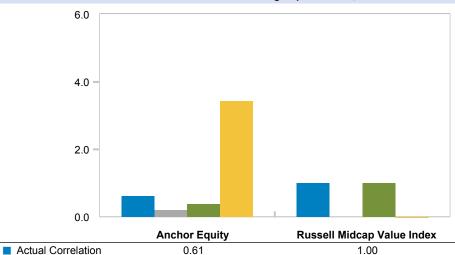
0.22

0.37

3.43

3.77

0.26



2.70

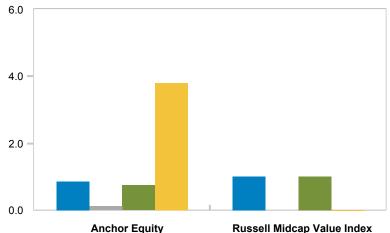
0.12

N/A

1.00

0.00

Benchmark Relative Historical Statistics 5 Years Ending September 30, 2018



Anchor Equity	Russell Midcap Value In
0.86	1.00
0.11	N/A
0.74	1.00
3.81	0.00
	0.86 0.11 0.74

Benchmark: Russell Midcap Value Index

Information Ratio

R-Squared

Tracking Error

■ Sharpe Ratio

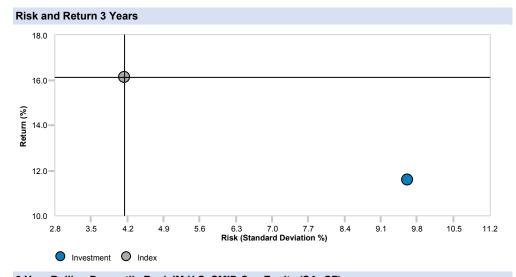
Treynor Ratio

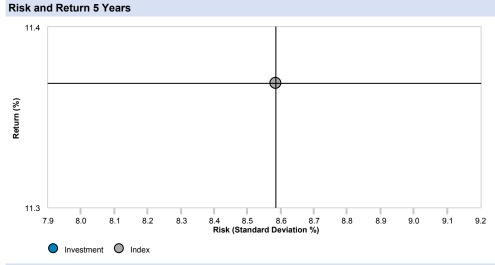




Historical Statistics 3 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		
Investment	11.61	9.63	1.11	79.72	8	876.25	4		
Index	16 13	4 14	3.51	100.00	11	100.00	1		

Historical Statis	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	11.37	8.59	1.26	100.00	16	100.00	4







Count

2 (40%)

4 (20%)

Count

0 (0%)

16 (80%)

Count

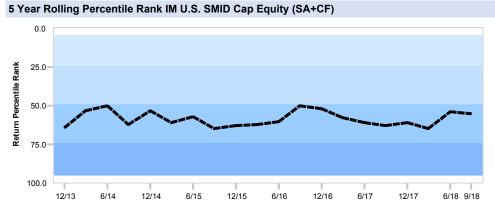
3 (60%)

0 (0%)

Count

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





Risk / Reward Historical Statistics 3 Years Ending September 30, 2018 8.0 0.0 -8.0 -16.0 -24.0 **New Amsterdam Equity**

Risk / Reward Historical Statistics 5 Years Ending September 30, 2018 1.6 1.2 0.8 0.4 0.0

	New Amsterdam Equity	Russell 2500 Index
Alpha	N/A	0.00
Beta	N/A	1.00
Sharpe Ratio	N/A	1.26
Treynor Ratio	N/A	0.11

Benchmark Relative Historical Statistics 3 Years Ending September 30, 2018

0.76

-0.53

0.58

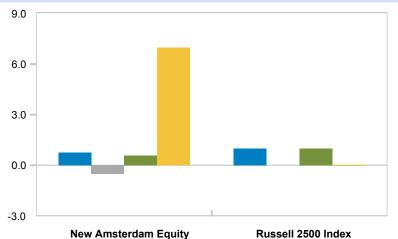
7.01

-14.65

1.77

1.11

0.06



Russell 2500 Index

0.00

1.00

3.51

0.15

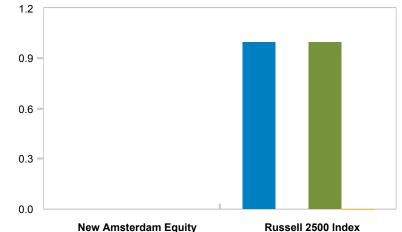
1.00

N/A

1.00

0.00

Benchmark Relative Historical Statistics	5 Years Ending September 30, 2018
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	New Amsterdam Equity	Russell 2500 illus
Actual Correlation	N/A	1.00
Information Ratio	N/A	N/A
R-Squared	N/A	1.00
Tracking Error	N/A	0.00

Tracking Error Benchmark: Russell 2500 Index

R-Squared

Actual Correlation

Information Ratio

Alpha

Beta

■ Sharpe Ratio

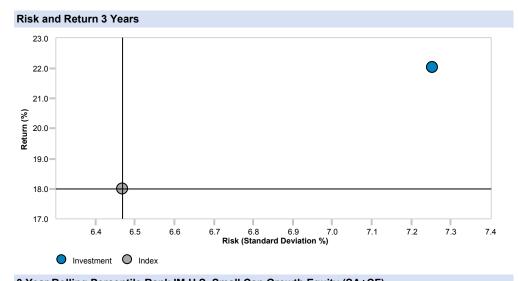
Treynor Ratio





Historical Statistics 3 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		
Investment	22.04	7.25	2.80	118.27	11	88.49	1		
Index	17 98	6 47	2 55	100.00	11	100.00	1		

Historical Statistics 5 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		
Investment	14.25	10.05	1.37	105.58	16	81.45	4		
Index	12.14	10.82	1.09	100.00	17	100.00	3		



Risk and Return 5 Years 15.0 14.5= 14.0= **Return** (%) 13.5— 12.5= 12.0-11.5 9.8 9.9 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 11.0 Risk (Standard Deviation %) Investment Index

3 Year Rolling Percentile Rank IM U.S. Small Cap Growth Equity (SA+CF) 0.0 Return Percentile Rank 25.0 75.0 100.0 6/16 6/17 12/13 6/14 12/14 6/15 12/15 12/16 12/17 6/18 9/18 5-25 25-Median Median-75 75-95

Count

8 (44%)

5 (25%)

Count

7 (39%)

15 (75%)

Count

2 (11%)

0 (0%)

Count

1 (6%)

0 (0%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	10	0 (0%)	2 (20%)	8 (80%)	0 (0%)
Index	20	0 (0%)	0 (0%)	20 (100%)	0 (0%)

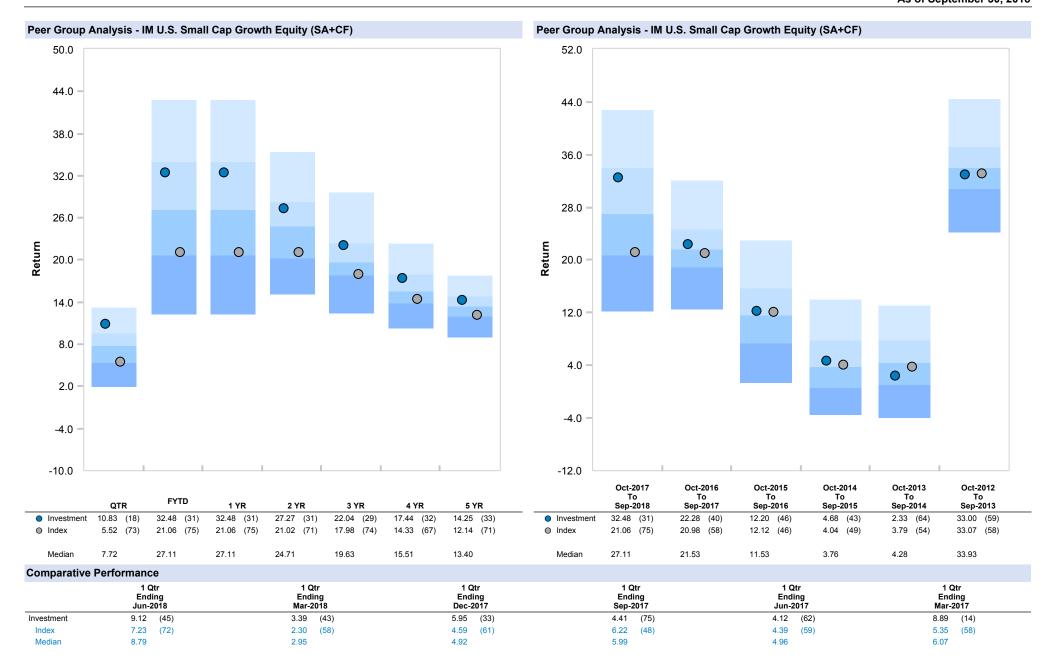


Investment

__ Index

Total Period

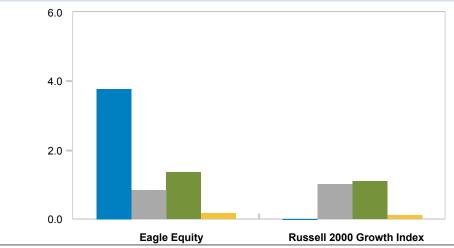
18





Risk / Reward Historical Statistics 3 Years Ending September 30, 2018 8.0 6.0 4.0 2.0 Eagle Equity Russell 2000 Growth Index Alpha 5.37 0.00 Beta 0.90 1.00

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



	Eagle Equity	Russell 2000 Growth Index
Alpha	3.79	0.00
Beta	0.84	1.00
Sharpe Ratio	1.37	1.09
Treynor Ratio	0.16	0.12

Benchmark Relative Historical Statistics 3 Years Ending September 30, 2018

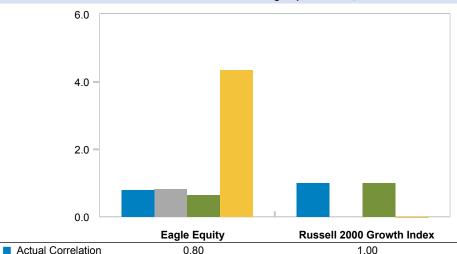
0.82

0.65

4.36

2.80

0.22



2.55

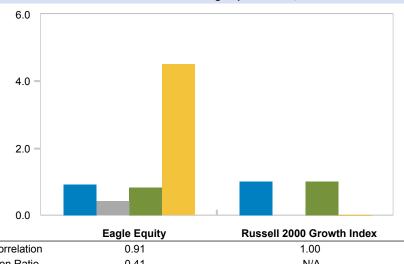
0.16

N/A

1.00

0.00

Benchmark Relative Historical Statistics 5 Years Ending September 30, 2018



 Eagle Equity
 Russell 2000 Growth Indicates

 Actual Correlation
 0.91
 1.00

 Information Ratio
 0.41
 N/A

 R-Squared
 0.83
 1.00

 Tracking Error
 4.52
 0.00

Benchmark: Russell 2000 Growth Index

■ Information Ratio

R-Squared

Tracking Error

Sharpe Ratio

Treynor Ratio





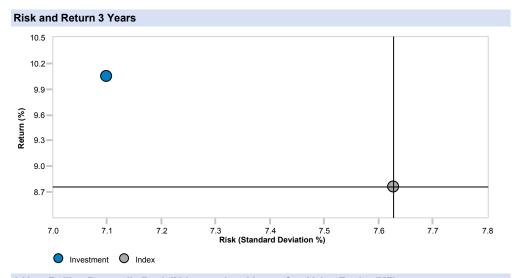


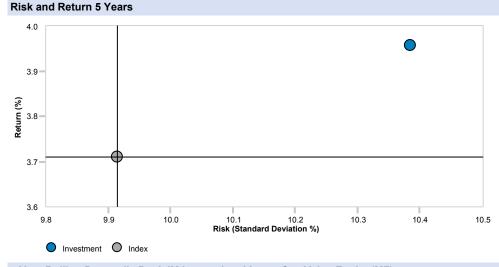




Historical Statistics 3 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	10.05	7.10	1.27	92.44	8	40.24	4			
Index	8 76	7.63	1.03	100.00	8	100.00	4			

Historical Statistics 5 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		
Investment	3.96	10.38	0.38	95.19	12	87.73	8		
Index	3.71	9.91	0.37	100.00	13	100.00	7		







Count

2 (20%)

7 (35%)

Count

0 (0%)

0 (0%)

Count

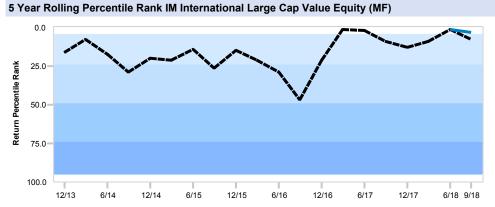
0 (0%)

0 (0%)

Count

8 (80%)

13 (65%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	2	2 (100%)	0 (0%)	0 (0%)	0 (0%)
Index	20	16 (80%)	4 (20%)	0 (0%)	0 (0%)



Investment

__ Index

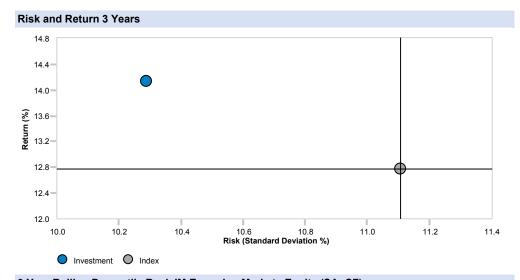
10

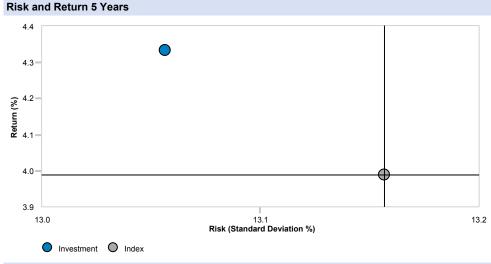


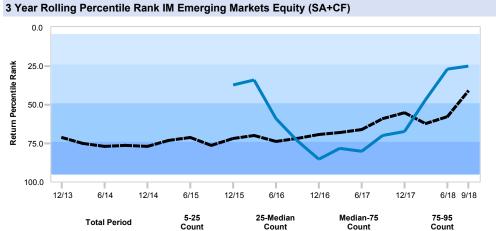


Historical Statistics 3 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	14.14	10.29	1.26	105.04	9	93.24	3			
Index	12 77	11 11	1.07	100.00	0	100.00	3			

Historical Statistics 5 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		
Investment	4.33	13.06	0.36	104.67	12	103.56	8		
Index	3.99	13.16	0.33	100.00	13	100.00	7		







4 (33%)

1 (5%)

4 (33%)

15 (75%)

3 (25%)

4 (20%)

1 (8%)

0 (0%)



	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	4	0 (0%)	3 (75%)	1 (25%)	0 (0%)
Index	20	0 (0%)	0 (0%)	11 (55%)	9 (45%)



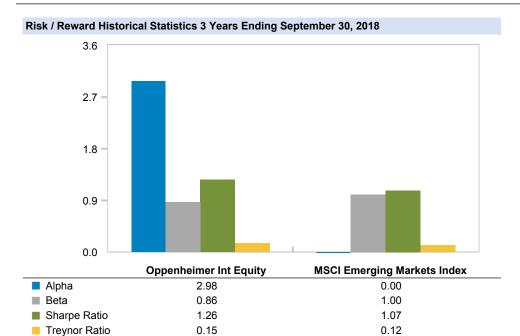
Investment

__ Index

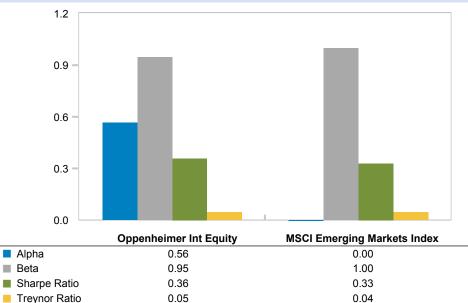
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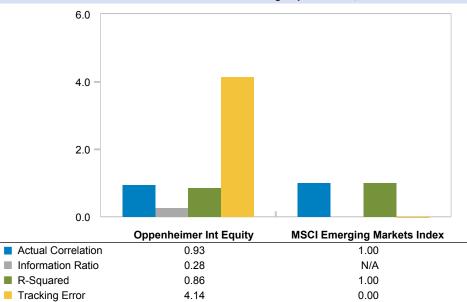




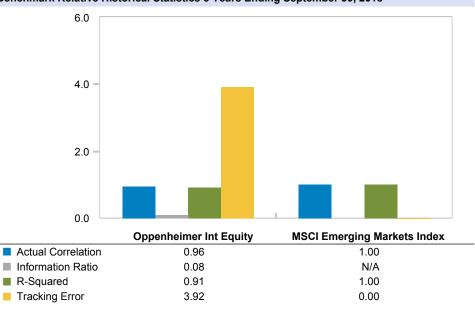
Risk / Reward Historical Statistics 5 Years Ending September 30, 2018



Benchmark Relative Historical Statistics 3 Years Ending September 30, 2018



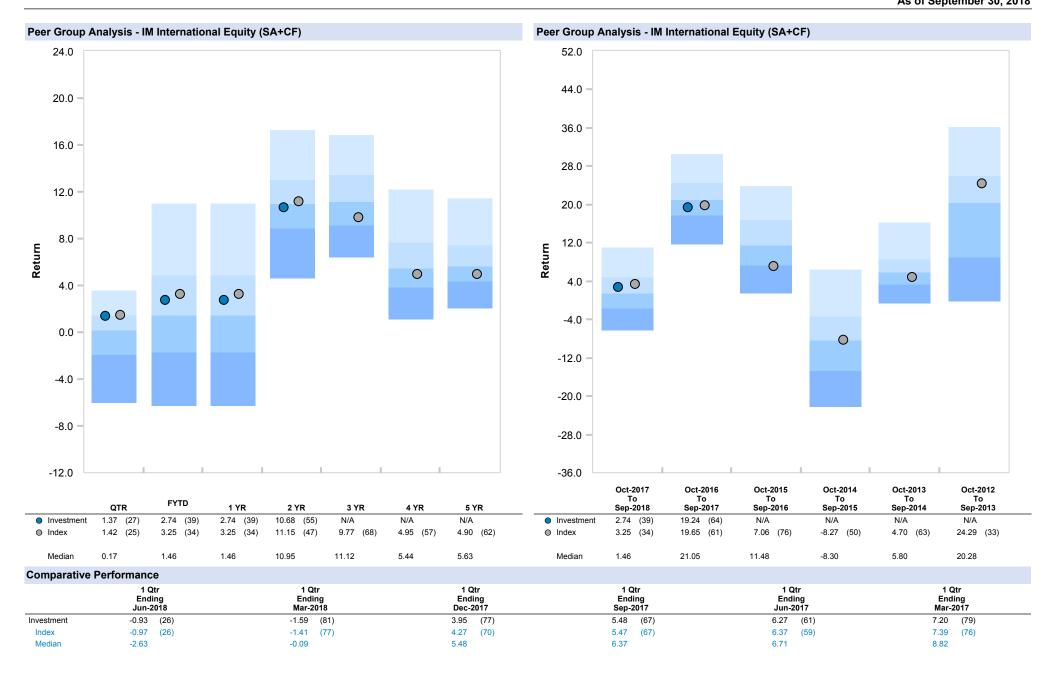
Benchmark Relative Historical Statistics 5 Years Ending September 30, 2018



Benchmark: MSCI Emerging Markets Index





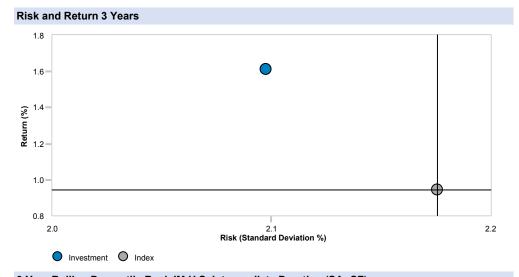


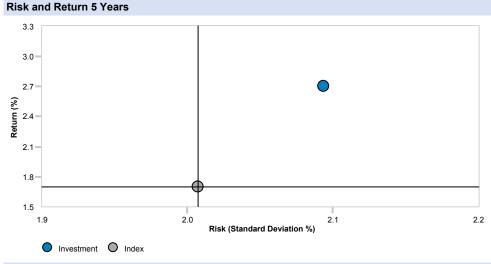


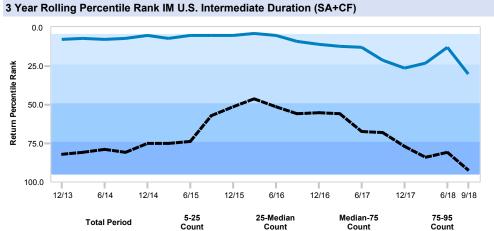


Historical Statistics 3 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		
Investment	1.61	2.10	0.38	111.37	9	66.90	3		
Index	0.95	2 18	0.07	100.00	8	100.00	4		

Historical Statistics 5 Years									
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters		
Investment	2.71	2.09	1.01	121.69	16	52.39	4		
Index	1.70	2.01	0.58	100.00	14	100.00	6		







2 (10%)

1 (5%)

0 (0%)

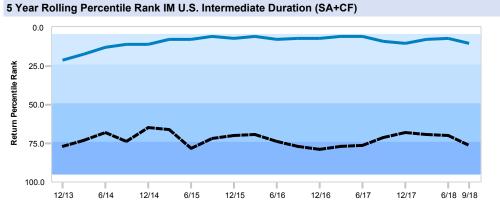
11 (55%)

0 (0%)

8 (40%)

18 (90%)

0 (0%)



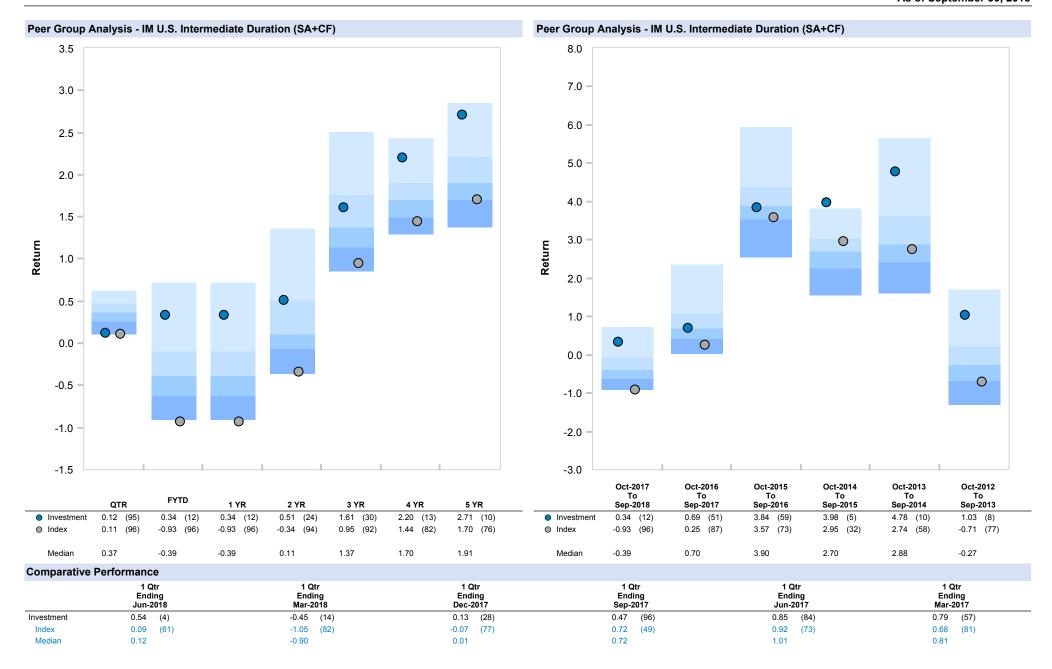
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
Investment	20	20 (100%)	0 (0%)	0 (0%)	0 (0%)
Index	20	0 (0%)	0 (0%)	13 (65%)	7 (35%)



Investment

__ Index

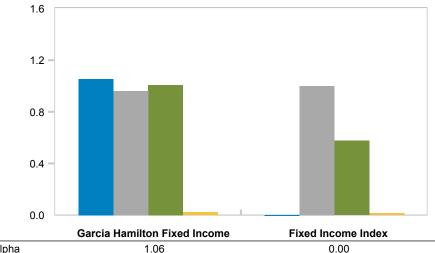
20





Risk / Reward Historical Statistics 3 Years Ending September 30, 2018 1.2 0.9 0.6 0.3 0.0 **Garcia Hamilton Fixed Income Fixed Income Index** Alpha 0.74 0.00 Beta 0.92 1.00

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



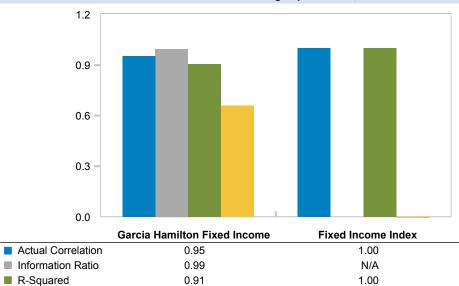
	Garcia Hamilton Fixed Income	Fixed Income Index
Alpha	1.06	0.00
Beta	0.97	1.00
Sharpe Ratio	1.01	0.58
Treynor Ratio	0.02	0.01

Benchmark Relative Historical Statistics 3 Years Ending September 30, 2018

0.66

0.38

0.01



0.07

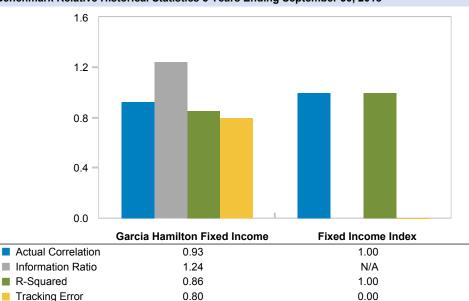
0.00

0.00

Benchmark Relative Historical Statistics 5 Years Ending September 30, 2018

0.80

Tracking Error



Benchmark: Garcia Hamilton Fixed Inc Index

Tracking Error

Sharpe Ratio

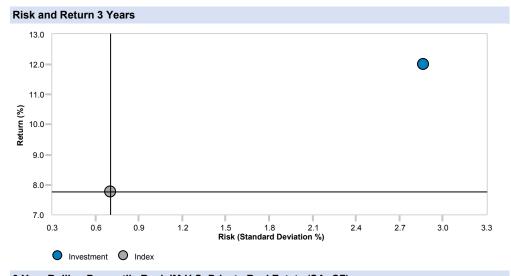
Treynor Ratio

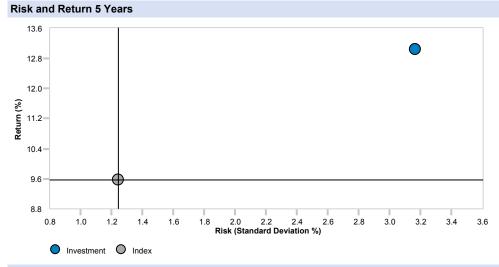


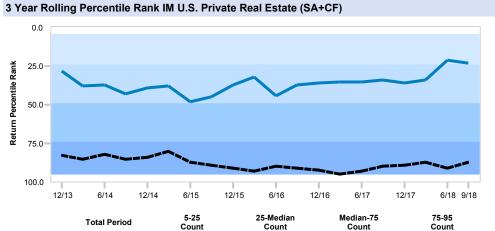


Historical Statistics 3 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	12.01	2.87	3.62	153.02	12	N/A	N/A			
Index	7.75	0.70	7.43	100.00	12	N/A	N/A			

Historical Statis	stics 5 Years						
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters
Investment	13.05	3.17	3.68	135.04	20	N/A	N/A
Index	9.57	1.25	5.93	100.00	20	N/A	N/A







2 (10%)

0 (0%)

18 (90%)

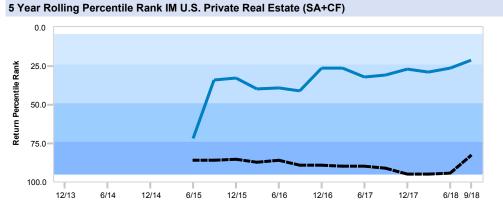
0 (0%)

0 (0%)

0 (0%)

0 (0%)

20 (100%)



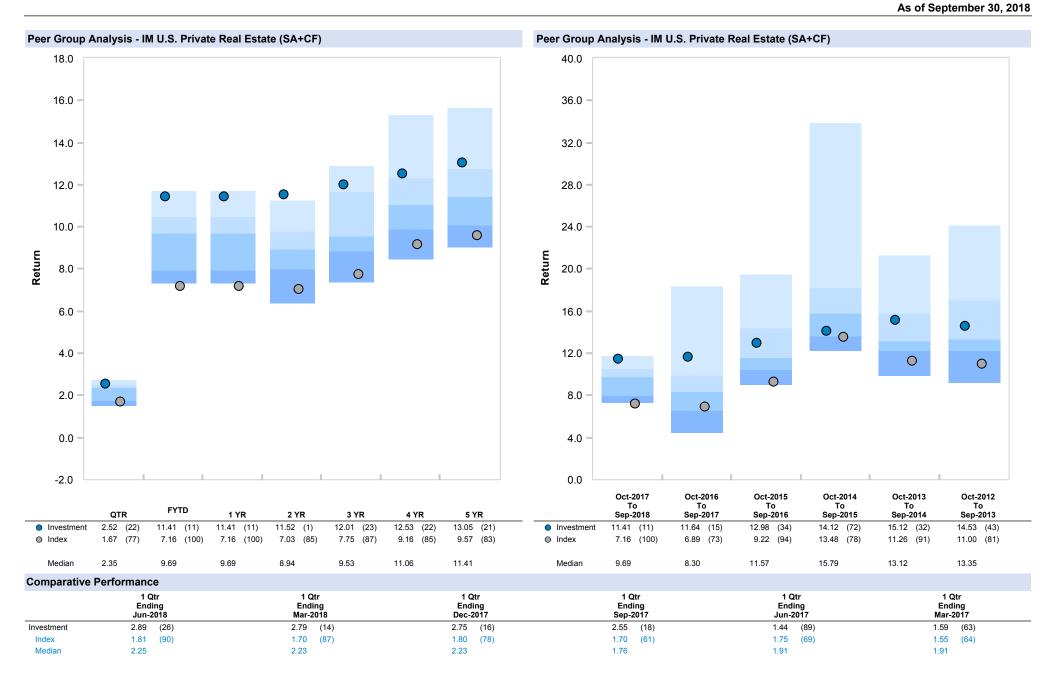
	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count
_ Investment	14	1 (7%)	12 (86%)	1 (7%)	0 (0%)
Index	14	0 (0%)	0 (0%)	0 (0%)	14 (100%)



Investment

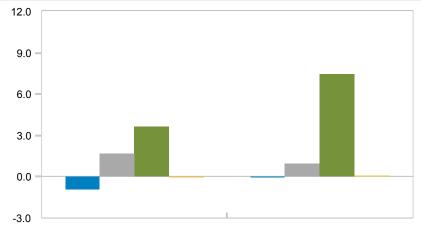
__ Index

20



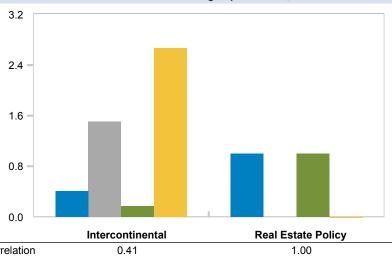


Risk / Reward Historical Statistics 3 Years Ending September 30, 2018



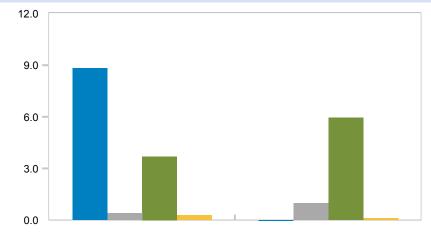
	Intercontinental	Real Estate Policy
Alpha	-0.94	0.00
Beta	1.66	1.00
Sharpe Ratio	3.62	7.43
Treynor Ratio	0.06	0.07

Benchmark Relative Historical Statistics 3 Years Ending September 30, 2018



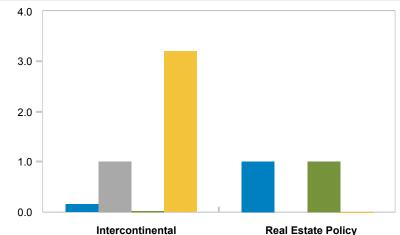
0.0		
	Intercontinental	Real Estate Policy
Actual Correlation	0.41	1.00
Information Ratio	1.50	N/A
R-Squared	0.17	1.00
Tracking Error	2.66	0.00

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



	Intercontinental	Real Estate Policy
Alpha	8.85	0.00
■ Beta	0.42	1.00
Sharpe Ratio	3.68	5.93
Treynor Ratio	0.28	0.09

Benchmark Relative Historical Statistics 5 Years Ending September 30, 2018



	intoroontinontar	itteal Estate i oi
Actual Correlation	0.17	1.00
Information Ratio	1.01	N/A
R-Squared	0.03	1.00
Tracking Error	3.21	0.00

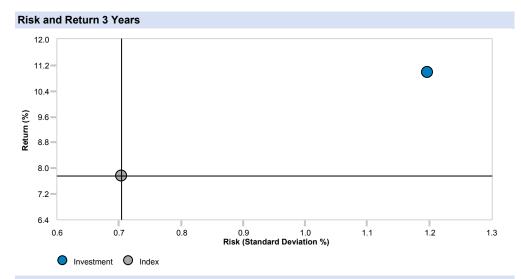
Benchmark: Real Estate Policy





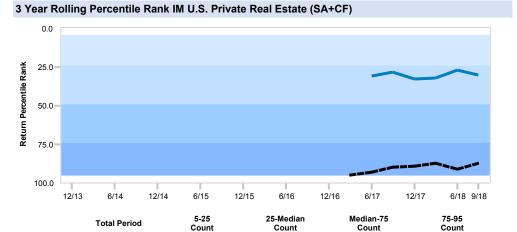
Historical Statistics 3 Years										
	Return	Standard Deviation	Sharpe Ratio	Up Market Capture	Up Quarters	Down Market Capture	Down Quarters			
Investment	10.99	1.20	7.92	140.14	12	N/A	N/A			
Index	7.75	0.70	7.43	100.00	12	N/A	N/A			

Historical Statis	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Risk and Return 5 Years

No data found.



6 (100%)

0 (0%)

0 (0%)

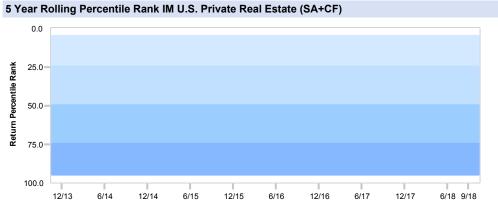
0 (0%)

0 (0%)

7 (100%)

0 (0%)

0 (0%)

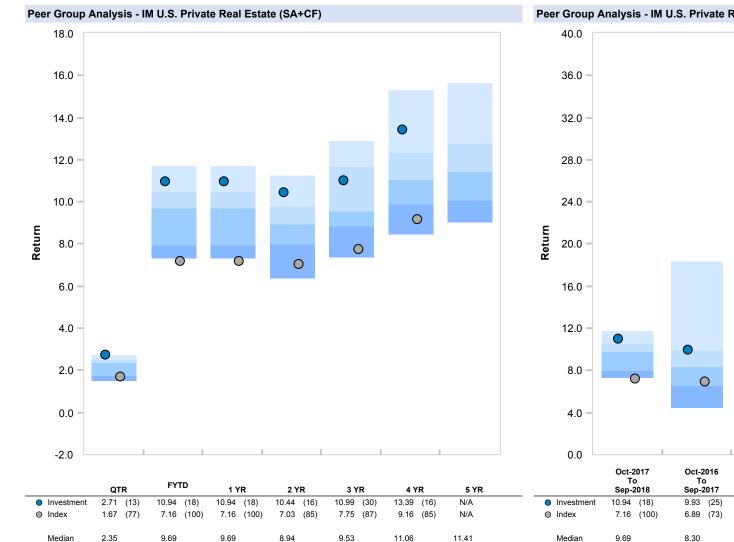


	Total Period	5-25 Count	25-Median Count	Median-75 Count	75-95 Count	
Investment	0	0	0	0	0	
Index	0	0	0	0	0	



Investment

__ Index



Pee	r Group A	ınalysis - IM U	.S. Private R	eal Estate (SA	(+CF)		
	40.0						
	36.0 -						
	32.0 -						
	28.0 -						
	24.0 -						
Return	20.0 -				•		
	16.0 -						
	12.0 -			•	0		
	8.0 -	0	0	0			
	4.0 -						
	0.0						
		Oct-2017 To Sep-2018	Oct-2016 To Sep-2017	Oct-2015 To Sep-2016	Oct-2014 To Sep-2015	Oct-2013 To Sep-2014	Oct-2012 To Sep-2013
•	Investment	10.94 (18)	9.93 (25)	12.10 (41)	20.93 (17)	N/A	N/A
0	Index	7.16 (100)	6.89 (73)	9.22 (94)	13.48 (78)	N/A	N/A
	Median	9.69	8.30	11.57	15.79	13.12	13.35

	1 Qtr Ending Jun-2018	1 Qtr Ending Mar-2018	1 Qtr Ending Dec-2017	1 Qtr Ending Sep-2017	1 Qtr Ending Jun-2017	1 Qtr Ending Mar-2017	
nvestment	3.24 (22)	2.66 (21)	1.92 (71)	3.13 (10)	2.10 (32)	2.11 (38)	
Index	1.81 (90)	1.70 (87)	1.80 (78)	1.70 (61)	1.75 (69)	1.55 (64)	
Median	2.25	2.23	2.23	1.76	1.91	1.91	



Total Fund Historical Hybrid Composition			
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		



Allocation Mandate	Weight (%)			
Oct-2007				
S&P 500 Index	44.60			
Russell Midcap Index	24.60			
Russell 2000 Index	15.40			
MSCI EAFE Index	15.40			
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			

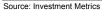
	A3 of Ochtering	Ci 00, 20
Fixed Income Historical Hybrid Composition		
Allocation Mandate	Weight (%)	
Oct-2007		
Blmbg. Barc. U.S. Aggregate Index	100.00	
Apr-2011 Bloomberg Barclays Intermed Aggregate Index	100.00	

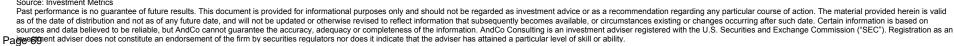


Annual Asset Class Performance

, tillia	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	YTD
Best	MSCI Emerging Markets (Net) Index 25.6 %	MSCI Emerging Markets (Net) Index 34.0 %	MSCI Emerging Markets (Net) Index 32.2 %	MSCI Emerging Markets (Net) Index 39.4 %	Blmbg. Barc. U.S. Aggregate Index 5.2 %	MSCI Emerging Markets (Net) Index 78.5 %	Russell 2000 Growth Index 29.1 %	NCREIF Fund Index-ODCE (EW) (Net) 15.0 %	MSCI Emerging Markets (Net) Index 18.2 %	Russell 2000 Growth Index 43.3 %	S&P 500 Index 13.7 %	NCREIF Fund Index-ODCE (EW) (Net) 14.2 %	Russell 2000 Value Index 31.7 %	MSCI Emerging Markets (Net) Index 37.3 %	Russell 1000 Growth Index 17.1 %
	Russell 2000 Value Index 22.2 %	NCREIF Fund Index-ODCE (EW) (Net) 19.0 %	MSCI EAFE (Net) Index 26.3 %	NCREIF Fund Index-ODCE (EW) (Net) 15.0 %	Bloomberg Barclays Global Aggregate Ex USD 4.4 %	Blmbg. Barc. U.S. Corp High Yield 58.2 %		Blmbg. Barc. U.S. Aggregate Index 7.8 %	Russell 2000 Value Index 18.1 %	Russell 2000 Index 38.8 %	Russell 1000 Value Index 13.5 %	Russell 1000 Growth Index 5.7 %	Russell 2000 Index 21.3 %	Russell 1000 Growth Index 30.2 %	Russell 2000 Growth Index 15.8 %
	MSCI EAFE (Net) Index 20.2 %	MSCI EAFE (Net) Index 13.5 %	Russell 2000 Value Index 23.5 %	Russell 1000 Growth Index 11.8 %	NCREIF Fund Index-ODCE (EW) (Net) -11.1 %	Russell 1000 Growth Index 37.2 %	Russell 2000 Value Index 24.5 %	Blmbg. Barc. U.S. Corp High Yield 5.0 %	Russell 1000 Value Index 17.5 %	Russell 2000 Value Index 34.5 %	Russell 1000 Growth Index 13.1 %	S&P 500 Index 1.4 %	Russell 1000 Value Index 17.3 %	MSCI EAFE (Net) Index 25.0 %	Russell 2000 Index 11.5 %
	Russell 2000 Index 18.3 %	Russell 1000 Value Index 7.1 %	Russell 1000 Value Index 22.2 %	MSCI EAFE (Net) Index 11.2 %	Blmbg. Barc. U.S. Corp High Yield -26.2 %	Russell 2000 Growth Index 34.5 %	MSCI Emerging Markets (Net) Index 18.9 %	Bloomberg Barclays Global Aggregate Ex USD 4.4 %	MSCI EAFE (Net) Index 17.3 %	Russell 1000 Growth Index 33.5 %	NCREIF Fund Index-ODCE (EW) (Net) 11.4 %	Blmbg. Barc. U.S. Aggregate Index 0.5 %	Blmbg. Barc. U.S. Corp High Yield 17.1 %	Russell 2000 Growth Index 22.2 %	S&P 500 Index 10.6 %
	Russell 1000 Value Index 16.5 %	Russell 1000 Growth Index 5.3 %	Russell 2000 Index 18.4 %	Bloomberg Barclays Global Aggregate Ex USD 11.0 %	Russell 2000 Value Index -28.9 %	MSCI EAFE (Net) Index 31.8 %	Russell 1000 Growth Index 16.7 %	Russell 1000 Growth Index 2.6 %	Russell 2000 Index 16.3 %	Russell 1000 Value Index 32.5 %	Blmbg. Barc. U.S. Aggregate Index 6.0 %	MSCI EAFE (Net) Index -0.8 %	S&P 500 Index 12.0 %	S&P 500 Index 21.8 %	Russell 2000 Value Index 7.1 %
	Russell 2000 Growth Index 14.3 %	S&P 500 Index 4.9 %	S&P 500 Index 15.8 %	Russell 2000 Growth Index 7.0 %	Russell 2000 Index -33.8 %	Russell 2000 Index 27.2 %	Russell 1000 Value Index 15.5 %	S&P 500 Index 2.1 %	S&P 500 Index 16.0 %	S&P 500 Index 32.4 %	Russell 2000 Growth Index 5.6 %	Russell 2000 Growth Index -1.4 %	Russell 2000 Growth Index 11.3 %	Russell 2000 Index 14.6 %	Russell 1000 Value Index 3.9 %
	Bloomberg Barclays Global Aggregate Ex USD 12.5 %	Russell 2000 Value Index 4.7 %	NCREIF Fund Index-ODCE (EW) (Net) 15.1 %	Blmbg. Barc. U.S. Aggregate Index 7.0 %	Russell 1000 Value Index -36.8 %	S&P 500 Index 26.5 %		Russell 1000 Value Index 0.4 %	Blmbg. Barc. U.S. Corp High Yield 15.8 %	MSCI EAFE (Net) Index 22.8 %	Russell 2000 Index 4.9 %	Russell 1000 Value Index -3.8 %	MSCI Emerging Markets (Net) Index 11.2 %	Russell 1000 Value Index 13.7 %	Blmbg. Barc. U.S. Corp High Yield 2.6 %
	NCREIF Fund Index-ODCE (EW) (Net) 11.5 %	Russell 2000 Index 4.6 %	Russell 2000 Growth Index 13.3 %	S&P 500 Index 5.5 %	S&P 500 Index -37.0 %	Russell 2000 Value Index 20.6 %	NCREIF Fund Index-ODCE (EW) (Net) 15.1 %	Russell 2000 Growth Index -2.9 %	Russell 1000 Growth Index 15.3 %	NCREIF Fund Index-ODCE (EW) (Net) 12.4 %	Russell 2000 Value Index 4.2 %	Russell 2000 Index -4.4 %	NCREIF Fund Index-ODCE (EW) (Net) 8.4 %	Bloomberg Barclays Global Aggregate Ex USD 10.5 %	MSCI EAFE (Net) Index -1.4 %
	Blmbg. Barc. U.S. Corp High Yield 11.1 %	Russell 2000 Growth Index 4.2 %	Blmbg. Barc. U.S. Corp High Yield 11.9 %	Blmbg. Barc. U.S. Corp High Yield 1.9 %	Russell 1000 Growth Index -38.4 %	Russell 1000 Value Index 19.7 %	S&P 500 Index 15.1 %	Russell 2000 Index -4.2 %	Russell 2000 Growth Index 14.6 %	Blmbg. Barc. U.S. Corp High Yield 7.4 %	Blmbg. Barc. U.S. Corp High Yield 2.5 %	Blmbg. Barc. U.S. Corp High Yield -4.5 %	Russell 1000 Growth Index 7.1 %	Russell 2000 Value Index 7.8 %	Blmbg. Barc. U.S. Aggregate Index -1.6 %
	S&P 500 Index 10.9 %	Blmbg. Barc. U.S. Corp High Yield 2.7 %	Russell 1000 Growth Index 9.1 %	Russell 1000 Value Index -0.2 %	Russell 2000 Growth Index -38.5 %	Bloomberg Barclays Global Aggregate Ex USD 7.5 %	MSCI EAFE (Net) Index 7.8 %	Russell 2000 Value Index -5.5 %	NCREIF Fund Index-ODCE (EW) (Net) 9.9 %	Blmbg. Barc. U.S. Aggregate Index -2.0 %	MSCI Emerging Markets (Net) Index -2.2 %	Bloomberg Barclays Global Aggregate Ex USD -6.0 %	Blmbg. Barc. U.S. Aggregate Index 2.6 %	Blmbg. Barc. U.S. Corp High Yield 7.5 %	Bloomberg Barclays Global Aggregate Ex USD -3.0 %
•	Russell 1000 Growth Index 6.3 %	Blmbg. Barc. U.S. Aggregate Index 2.4 %	Bloomberg Barclays Global Aggregate Ex USD 8.2 %	Russell 2000 Index -1.6 %	MSCI EAFE (Net) Index -43.4 %	Blmbg. Barc. U.S. Aggregate Index 5.9 %	Blmbg. Barc. U.S. Aggregate Index 6.5 %	MSCI EAFE (Net) Index -12.1 %	Blmbg. Barc. U.S. Aggregate Index 4.2 %	MSCI Emerging Markets (Net) Index -2.6 %	Bloomberg Barclays Global Aggregate Ex USD -3.1 %	Russell 2000 Value Index -7.5 %	Bloomberg Barclays Global Aggregate Ex USD 1.5 %	NCREIF Fund Index-ODCE (EW) (Net) 6.9 %	MSCI Emerging Markets (Net) Index -7.7 %
Worst	Blmbg. Barc. U.S. Aggregate Index 4.3 %	Bloomberg Barclays Global Aggregate Ex USD -8.7 %	Blmbg. Barc. U.S. Aggregate Index 4.3 %	Russell 2000 Value Index -9.8 %	MSCI Emerging Markets (Net) Index -53.3 %	NCREIF Fund Index-ODCE (EW) (Net) -31.3 %	Bloomberg Barclays Global Aggregate Ex USD 4.9 %	MSCI Emerging Markets (Net) Index -18.4 %	Bloomberg Barclays Global Aggregate Ex USD 4.1 %	Bloomberg Barclays Global Aggregate Ex USD -3.1 %	MSCI EAFE (Net) Index -4.9 %	MSCI Emerging Markets (Net) Index -14.9 %	MSCI EAFE (Net) Index 1.0 %	Blmbg. Barc. U.S. Aggregate Index 3.5 %	

Year







Δ	cti	ve	R	۵tı	ırn

- 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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