Investment Performance Review Period Ending June 30, 2019

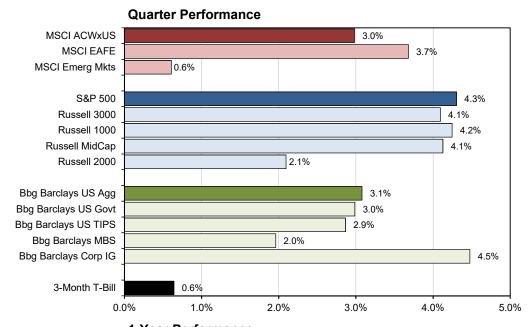
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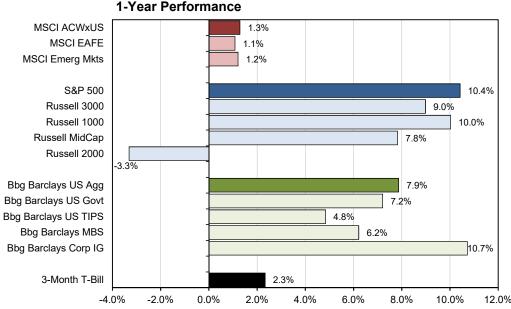


2nd Quarter 2019 Market Environment



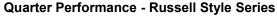
- Broad asset class returns were positive during the 2nd quarter of 2019 with both equity and fixed income indices extending their year-to-date gains. US stocks outperformed international stocks during a very volatile quarter. Equity indices rose to start the period as progress in global trade negotiations outweighed signs of weakness in macroeconomic data. However, trade discussions between the US and China fell apart in May prompting increased tariffs and sharp declines in equity markets. The softening in economic data, stubbornly low inflation and the threat of slower future growth caused by ongoing disruption in trade led the Federal Reserve (Fed) to communicate a shift toward a more accommodative policy stance. This change in central bank posture caused markets to rebound strongly, ending the quarter higher for the period. Fixed income returns were also positive during the quarter as the prospect of more accommodative monetary policy pushed interest rates lower, increasing bond prices. Within domestic equity markets, large cap stocks outperformed small cap equities during the quarter with the S&P 500 Index returning 4.3% versus a 2.1% return on the small cap Russell 2000 Index. US equity returns over the 1-year period were positive within large and mid cap stocks, returning 10.4% and 7.8% respectively, but small cap stocks posted a loss, falling -3.3%.
- Similar to US markets, international markets were volatile during the 2nd quarter as investors reacted to mixed economic data, heightened geopolitical uncertainly, particularly around the outlook for global trade and Brexit, and increased accommodation in central bank policy with the European Central Bank (ECB) and People's Bank of China (PBoC) pledging additional stimulus if needed. Developed markets outperformed emerging markets during the period with the MSCI EAFE Index returning 3.7% versus a 0.6% return on the MSCI Emerging Markets Index. Both developing and emerging markets posted modest gains over the 1-year period, returning 1.1% and 1.2% respectively.
- Fixed income returns were in line with equities during the 2nd quarter. The broad market Bloomberg Barclays Aggregate Index returned 3.1% as a more dovish stance from the Fed and other global central banks pushed interest rates lower across the US Treasury Yield Curve. The curve steepened but remained inverted with shorter-term maturities paying higher interest rates than those in the middle of the curve. Investment grade corporate issues were the best performing securities for the second quarter in a row, outperforming Treasury and securitized issues. The Bloomberg Barclays Corporate IG Index returned 4.5% for the period, as corporate credit had tailwinds due to greater interest rate sensitivity, higher yields and tightening credit spreads. Corporate issues also outperformed the other major fixed income sectors over the 1-year period, returning 10.7% versus a 7.9% return for the Bloomberg Barclays Aggregate Index.

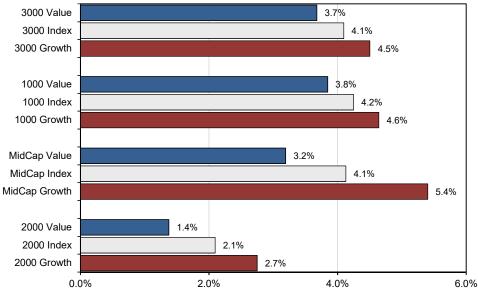




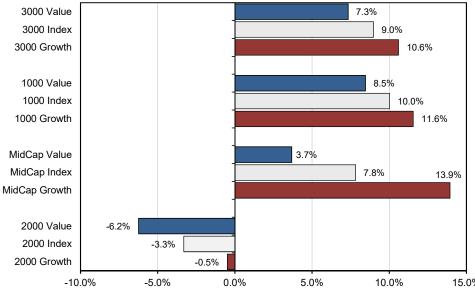


- US equity index returns were modestly positive across the style and capitalization spectrum for the 2nd quarter. Corporate earnings reported during the guarter surprised to the upside, but economic data released during the period showed signs of slowing growth. Developments around global trade were particularly prominent during the period, heavily influencing market sentiment. Positive developments in trade negotiations with China came to an abrupt halt in May leading the US to increase tariffs on \$200 billion of Chinese imports from 10% to 25% and announce that the US would consider tariffs on the remaining \$300 billion in goods imported from China. China retaliated by increasing the tariff range on \$60 billion of US goods from 5-10% to 5-25%. Additionally, the US instituted a ban on sales of technology equipment to Chinese telecommunications firm Huawei citing national security risks. China is expected to take similar action in retaliation although nothing has been announced. Trade talks are ready to resume and both sides have agreed to cease escalations following a meeting between President Trump and President Jinping at the G20 summit held at the end of the quarter. In addition, President Trump threatened a 5% tariff on all Mexican imports as a tact to reduce the level of illegal immigration at the US border with Mexico, and US waivers on sanctions for Iranian oil ended leading to increased tensions in the region that were further escalated after Iran downed a US drone. Despite these headwinds, markets rose following comments from an increasingly accommodative Fed as investors priced in greater odds of easy monetary policy going forward.
- During the quarter, higher market cap stocks outperformed lower market cap stocks across the style spectrum with the only exception being the outperformance of mid cap growth stocks relative to large cap growth stocks. The large cap Russell 1000 Index gained 4.2% during the period versus a 4.1% return for the Russell MidCap Index and a 2.1% gain on the small cap Russell 2000 Index as market participants may be moving toward the relative safety of large cap names as the economy continues to show growing signs of weakness. When viewed over the most recent 1-year period, large cap stocks outperformed relative to small cap stocks. The Russell 1000 returned 10.0% for the year while the Russell 2000 fell -3.3%.
- Growth indices outperformed value indices across the market cap spectrum during the 2nd quarter. Growth stocks have outperformed value in nine of the last ten quarters. The Russell MidCap Growth Index was the best performing style index for the period, returning 5.4% for the quarter with the small cap value index posting the lowest relative return, a gain of 1.4%. The trend of growth outperformance is also visible over the 1-year period as growth indices have benefitted from larger exposures to technology which has been a large driver of index performance over the last year, as well as a meaningful underweight to energy which has been a relative detractor.



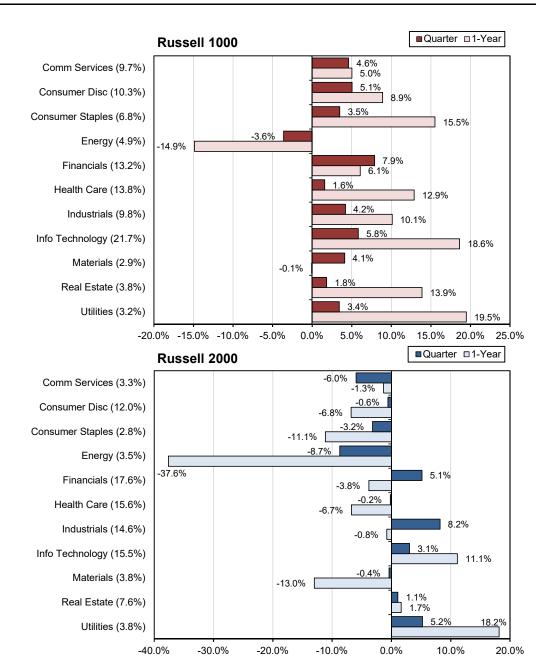


1-Year Performance - Russell Style Series





- Sector performance was broadly positive across large cap sectors for the 2nd quarter. There were gains for ten out of eleven sectors within the Russell 1000 Index during the period with four sectors outpacing the return of the index. Cyclical sectors such as technology, industrials and consumer discretionary were some of the best performers through the quarter returning 5.8%, 4.2% and 5.1% respectively. Financials also outperformed, returning 7.9%, as investors weighed the benefits of continued economic expansion due to easing monetary policy against the effects of lower interest rates on bank earnings. More defensive higher yielding sectors such as consumer staples, real estate and utilities underperformed for the quarter returning 3.5%, 1.8% and 3.4% respectively. The energy sector was the only large cap sector to post a negative return during the quarter, falling -3.6%, as headwinds from weakening economic data and low oil and natural gas prices weighed on 1st quarter earnings. Health care stocks also lagged as continued discussions in Washington around the potential for increased regulation on drug pricing acted as a headwind. Returns over the 1-year period were positive with nine out of eleven sectors posting gains, six of which were over 10%. Defensive sectors such as utilities, REITs and consumer staples performed well returning 19.5%, 13.9% and 15.5% respectively. Technology returns were also strong gaining 18.6%. Energy and materials were the only sectors to post negative results over the 1-year period with energy falling -14.9% and materials returning -0.1%.
- Quarterly results for small cap sectors were generally worse than their large capitalization counterparts with only two of eleven sectors (industrials and utilities) outperforming their corresponding large cap equivalents. Five of eleven sectors produced gains during the period with four of eleven economic sectors outpacing the Russell 2000 Index return for the quarter. Similar to large caps, cyclical sectors performed well on hopes that any Fed policy easing would counteract the recent weakness in economic growth. The industrials sector performed particularly well returning 8.2%, financials posted a 5.1% gain and technology returned 3.1%. Utilities also outperformed returning 5.2%. The largest detractors over the period were energy and communication services which returned -8.7% and -6.0% respectively. Over the trailing 1-year period, returns were broadly negative. Utilities and technology were relative bright spots returning 18.2% and 11.1%. The energy sector was an outlier in terms of negative returns losing -37.6% during the period. There were also notable losses in materials and consumer staples with materials losing -13.0% and consumer staples falling -11.1%.





| Top 10 Weighted Stocks | | | | | | |
|--------------------------|--------|-----------------|------------------|------------------------|--|--|
| Russell 1000 | Weight | 1-Qtr Return | 1-Year Return | Sector | | |
| Microsoft Corp | 3.71% | 14.0% | 37.5% | Information Technology | | |
| Apple Inc | 3.44% | 4.6% | 8.6% | Information Technology | | |
| Amazon.com Inc | 2.85% | 6.3% | 11.4% | Consumer Discretionary | | |
| Facebook Inc A | 1.68% | 15.8% | -0.7% | Communication Services | | |
| Berkshire Hathaway Inc B | 1.51% | 6.1% | 14.2% | Financials | | |
| Johnson & Johnson | 1.37% | 0.3% | 17.9% | Health Care | | |
| JPMorgan Chase & Co | 1.35% | 11.3% | 10.3% | Financials | | |
| Alphabet Inc Class C | 1.20% | -7.9% | -3.1% | Communication Services | | |
| Exxon Mobil Corp | 1.19% | -4.1% | -3.3% | Energy | | |
| Alphabet Inc A | 1.18% | -8.0% | -4.1% | Communication Services | | |

| Top 10 Weighted Stocks | | | | | | |
|------------------------|--------|-----------------|------------------|------------------------|--|--|
| Russell 2000 | Weight | 1-Qtr Return | 1-Year Return | Sector | | |
| Array BioPharma Inc | 0.48% | 90.0% | 176.1% | Health Care | | |
| The Trade Desk Inc A | 0.37% | 15.1% | 142.8% | Information Technology | | |
| Etsy Inc | 0.36% | -8.7% | 45.5% | Consumer Discretionary | | |
| Coupa Software Inc | 0.35% | 39.2% | 103.4% | Information Technology | | |
| Five Below Inc | 0.32% | -3.4% | 22.8% | Consumer Discretionary | | |
| Planet Fitness Inc A | 0.31% | 5.4% | 64.9% | Consumer Discretionary | | |
| HubSpot Inc | 0.31% | 2.6% | 36.0% | Information Technology | | |
| Haemonetics Corp | 0.30% | 37.6% | 34.2% | Health Care | | |
| Woodward Inc | 0.30% | 19.4% | 48.0% | Industrials | | |
| Ciena Corp | 0.29% | 10.1% | 55.1% | Information Technology | | |

| Top 10 Performing Stocks (by Quarter) | | | | | |
|---------------------------------------|--------|-----------------|------------------|------------------------|--|
| Russell 1000 | Weight | 1-Qtr Return | 1-Year Return | Sector | |
| Adient PLC | 0.01% | 87.3% | -50.0% | Consumer Discretionary | |
| Anadarko Petroleum Corp | 0.13% | 55.8% | -1.6% | Energy | |
| Cypress Semiconductor Corp | 0.03% | 49.8% | 46.9% | Information Technology | |
| Okta Inc A | 0.04% | 49.3% | 145.2% | Information Technology | |
| Erie Indemnity Co Class A | 0.02% | 43.2% | 122.5% | Financials | |
| Heico Corp | 0.02% | 41.1% | 83.9% | Industrials | |
| Legg Mason Inc-LeggMason RETAIL | 0.01% | 39.9% | 14.4% | Financials | |
| Exact Sciences Corp | 0.05% | 36.3% | 97.4% | Health Care | |
| Caesars Entertainment Corp | 0.02% | 36.0% | 10.5% | Consumer Discretionary | |
| Ardagh Group SA | 0.00% | 35.9% | 9.6% | Materials | |

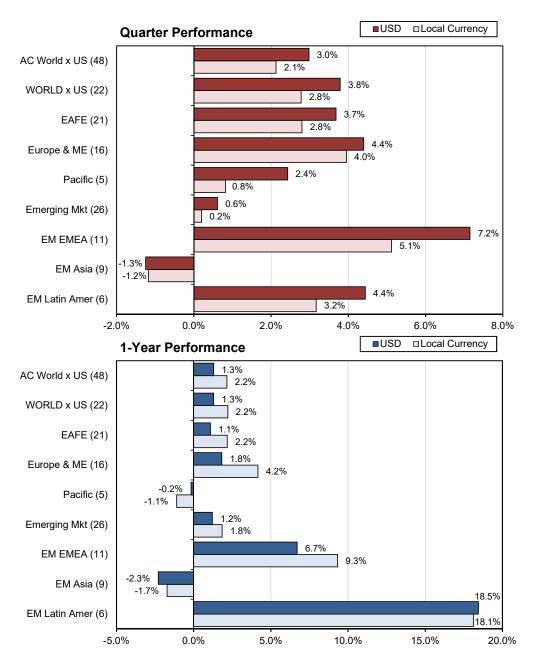
| Top 10 Performing Stocks (by Quarter) | | | | | | |
|---------------------------------------|--------|-----------------|------------------|------------------------|--|--|
| Russell 2000 | Weight | 1-Qtr Return | 1-Year Return | Sector | | |
| lovance Biotherapeutics Inc | 0.13% | 157.8% | 91.6% | Health Care | | |
| Arqule Inc | 0.06% | 129.9% | 99.1% | Health Care | | |
| Adverum Biotechnologies Inc | 0.03% | 126.9% | 124.3% | Health Care | | |
| Chimerix Inc | 0.01% | 105.7% | -9.2% | Health Care | | |
| Enphase Energy Inc | 0.08% | 97.5% | 170.9% | Information Technology | | |
| Maxar Technologies Inc | 0.02% | 94.8% | -84.0% | Industrials | | |
| Array BioPharma Inc | 0.48% | 90.0% | 176.1% | Health Care | | |
| Melinta Therapeutics Inc | 0.00% | 87.3% | -79.1% | Health Care | | |
| G1 Therapeutics Inc | 0.03% | 84.7% | -29.5% | Health Care | | |
| Foundation Building Materials Inc | 0.01% | 80.7% | 15.6% | Industrials | | |

| Bottom 10 Performing Stocks (by Quarter) | | | | | |
|--|--------|-----------------|------------------|------------------------|--|
| Russell 1000 | Weight | 1-Qtr Return | 1-Year Return | Sector | |
| 2U Inc | 0.01% | -46.9% | -55.0% | Information Technology | |
| Alkermes PLC | 0.01% | -38.2% | -45.2% | Health Care | |
| Range Resources Corp | 0.01% | -37.7% | -58.0% | Energy | |
| Antero Resources Corp | 0.00% | -37.4% | -74.1% | Energy | |
| Chesapeake Energy Corp | 0.01% | -37.1% | -62.8% | Energy | |
| RPC Inc | 0.00% | -36.5% | -48.8% | Energy | |
| Realogy Holdings Corp | 0.00% | -35.8% | -67.4% | Real Estate | |
| The Chemours Co | 0.02% | -34.7% | -44.2% | Materials | |
| United Therapeutics Corp | 0.01% | -33.5% | -31.0% | Health Care | |
| Mylan NV | 0.04% | -32.8% | -47.3% | Health Care | |

| Bottom 10 Performing Stocks (by Quarter) | | | | | | |
|--|--------|-----------------|------------------|------------------------|--|--|
| Russell 2000 | Weight | 1-Qtr Return | 1-Year Return | Sector | | |
| FuelCell Energy Inc | 0.00% | -94.0% | -98.9% | Industrials | | |
| Halcon Resources Corp | 0.00% | -86.9% | -96.0% | Energy | | |
| Pioneer Energy Services Corp | 0.00% | -85.7% | -95.7% | Energy | | |
| Eros International PLC | 0.00% | -85.2% | -89.6% | Communication Services | | |
| Superior Energy Services Inc | 0.01% | -72.2% | -86.7% | Energy | | |
| electroCore Inc | 0.00% | -71.4% | -87.9% | Health Care | | |
| Ultra Petroleum Corp | 0.00% | -70.5% | -92.2% | Energy | | |
| Nuvectra Corp | 0.00% | -69.6% | -83.7% | Health Care | | |
| Dean Foods Co | 0.00% | -69.5% | -91.1% | Consumer Staples | | |
| Kirkland's Inc | 0.00% | -67.9% | -80.6% | Consumer Discretionary | | |



- Broad international equity returns were positive for the quarter in both local currency and USD terms. The MSCI ACWI ex US Index gained 2.1% in local currency terms and 3.0% in US dollar (USD) terms during the 2nd quarter. Similar to US markets, international equity investors balanced difficulties around global trade with central bank shifts toward more accommodative policies as a response to slowing global growth. Notably the ECB President Mario Draghi stated that further monetary policy action may need to be taken if inflation remains below target and the PBoC launched stimulus measures designed to encourage growth following the deterioration of trade negotiations with the US. Returns in USD largely outperformed those in local currency during the quarter as the USD depreciated against most major developed currencies following dovish Fed comments in June. However, the recent USD strength can still be seen over the 1-year period with USD returns trailing most local currency returns. Returns for the MSCI ACWI ex US Index were 2.2% in local currency terms and 1.3%in USD terms for the trailing year.
- Results for developed market international indices were positive in both local currency and USD terms during the 2nd quarter, with the MSCI EAFE Index returning 2.8% and 3.7% respectively. Outside of central bank policy and trade, there was notable news out of the UK with Prime Minister Theresa May resigning from her post after her Brexit withdrawal plan failed to gain parliamentary approval and a new vote for the office is currently underway. UK markets were pressured by continued uncertainty around Brexit with the UK having until October to strike an agreement with the European Union (EU) or withdraw with no agreement in place. Despite the growing uncertainty, the Bank of England (BoE) left monetary policy unchanged. Japan also underperformed as the yen appreciated due to its perceived safe haven status and trade headwinds were expected to affect its export driven economy. The MSCI EAFE Index returned 2.2% and 1.1% for the last twelve months in local currency and USD terms respectively.
- Emerging markets underperformed relative to developed markets for the 2nd quarter, slightly appreciating in both local currency and USD terms. The MSCI Emerging Markets Index gained 0.2% and 0.6% respectively. As expected, geopolitical tensions around trade put pressure on emerging market stocks, with Chinese equities underperforming relative to most countries. Latin American stocks performed well with Brazil and Argentina posting strong returns as commodity prices appreciated from recent lows at the end of 2018 and interest rates fell. Russian equities also performed well, benefiting from increasing commodity prices, but also had a tailwind from a decrease in the likelihood of future US sanctions. One year returns for the MSCI Emerging Market Index were 1.8% in local currency terms and 1.2% in USD terms.



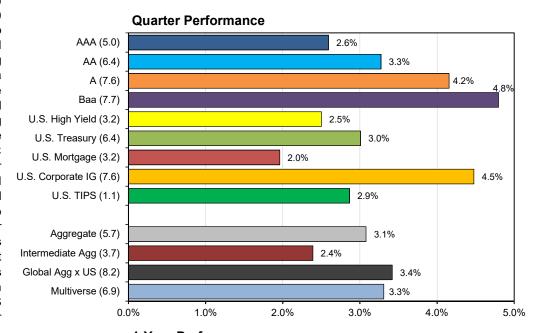


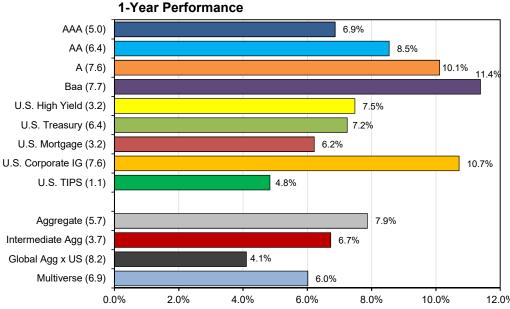
| MSCI - EAFE | Sector Weight | Quarter Return | 1-Year Return |
|-----------------------------------|---------------|----------------|----------------|
| Communication Services | 5.4% | 4.0% | 4.3% |
| Consumer Discretionary | 11.1% | 5.9% | -2.6% |
| Consumer Staples | 11.7% | 1.9% | 4.8% |
| Energy | 5.6% | 0.4% | -5.5% |
| Financials | 18.9% | 4.3% | -2.9% |
| Health Care | 11.2% | 2.0% | 7.5% |
| Industrials | 14.8% | 5.9% | 2.4% |
| Information Technology | 6.7% | 6.6% | 2.7% |
| Materials | 7.4% | 3.9% | 0.2% |
| Real Estate | 3.6% | -2.2% | 2.3% |
| Utilities | 3.6% | 1.5% | 9.8% |
| Total | 100.0% | 3.7% | 1.1% |
| MSCI - ACWIXUS | Sector Weight | Quarter Return | 1-Year Return |
| Communication Services | 6.9% | 1.0% | 5.6% |
| Consumer Discretionary | 11.3% | 3.8% | -3.6% |
| Consumer Staples | 9.8% | 2.2% | 4.6% |
| Energy | 7.2% | 0.5% | -1.4% |
| Financials | 21.9% | 4.4% | 2.0% |
| Health Care | 8.3% | 1.2% | 4.2% |
| Industrials | 11.9% | 5.2% | 2.9% |
| Information Technology | 8.5% | 4.0% | -0.7% |
| Materials | 7.6% | 2.9% | -0.5% |
| Real Estate | 3.3% | -1.6% | 4.3% |
| Utilities | 3.3% | 2.2% | 10.1% |
| Total | 100.0% | 3.0% | 1.3% |
| MOOL E MI. | 0 | 0 1 51 | 4.77 |
| MSCI - Emerging Mkt | Sector Weight | Quarter Return | 1-Year Return |
| Communication Services | 11.7% | -2.4% -1.2% | 4.5% -7.6% |
| Consumer Discretionary | | | |
| Consumer Staples | 6.6% | 3.3% 1.2% | 0.9% |
| Energy Financials | 25.2% | 4.0% | 11.9% |
| Health Care | 25.2% | -6.6% | -24.7% |
| Industrials | 5.3% | 0.0% | -24.7% 4.1% |
| | 13.9% | -0.1% | -6.1% |
| Information Technology Materials | 7.6% | -0.1% | -0.1% |
| Real Estate | 3.0% | -0.2% | 10.1% |
| Utilities | 2.7% | 2.9% | 9.0% |
| Ounties | 2.1 /0 | 2.370 | 9.070 |

| | MSCI-EAFE | MSCI-ACWIXUS | Quarter | 1- Year |
|---------------------------|-----------|--------------|---------|---------|
| Country | Weight | Weight | Return | Return |
| Japan | 23.7% | 15.8% | 1.0% | -4.2% |
| United Kingdom | 16.8% | 11.2% | 0.9% | -2.1% |
| France | 11.4% | 7.6% | 6.5% | 3.0% |
| Switzerland | 9.3% | 6.2% | 8.4% | 19.8% |
| Germany | 8.8% | 5.9% | 7.1% | -3.8% |
| Australia | 7.1% | 4.8% | 7.3% | 6.6% |
| Hong Kong | 4.0% | 2.7% | 1.0% | 10.4% |
| Netherlands | 3.6% | 2.4% | 5.8% | 5.3% |
| Spain | 3.0% | 2.0% | 2.6% | -2.1% |
| Sweden | 2.7% | 1.8% | 4.9% | 3.4% |
| Italy | 2.3% | 1.6% | 2.9% | -0.7% |
| Denmark | 1.7% | 1.1% | 1.6% | 5.8% |
| Singapore | 1.4% | 0.9% | 7.0% | 8.3% |
| Finland | 1.0% | 0.7% | 0.2% | -4.7% |
| Belgium | 1.0% | 0.7% | 1.2% | -9.1% |
| Norway | 0.7% | 0.7% | 2.4% | -4.3% |
| Israel | 0.6% | 0.4% | -3.6% | -4.5% |
| Ireland | 0.5% | 0.4% | 4.7% | -9.2% |
| | | | | |
| New Zealand | 0.3% | 0.2% | 3.9% | 16.0% |
| Austria | 0.2% | 0.2% | 0.8% | -13.1% |
| Portugal | 0.2% | 0.1% | 1.6% | -4.6% |
| Total EAFE Countries | 100.0% | 66.8% | 3.7% | 1.1% |
| Canada | | 6.8% | 4.9% | 3.3% |
| Total Developed Countries | | 73.6% | 3.8% | 1.3% |
| China | | 8.3% | -4.0% | -6.7% |
| Korea | | 3.3% | -1.0% | -9.1% |
| Taiwan | | 2.9% | 0.9% | 1.1% |
| India | | 2.4% | 0.5% | 7.9% |
| Brazil | | 2.0% | 7.2% | 39.4% |
| South Africa | | 1.6% | 6.6% | -0.8% |
| Russia | | 1.1% | 16.9% | 27.1% |
| Thailand | | 0.8% | 9.3% | 19.8% |
| Saudi Arabia | | 0.8% | 0.6% | 11.0% |
| Mexico | | 0.7% | 1.1% | -7.4% |
| Indonesia | | 0.6% | 3.2% | 20.3% |
| Malaysia | | 0.6% | 1.2% | -0.8% |
| Philippines | | 0.3% | 4.4% | 19.7% |
| Poland | | 0.3% | 3.5% | 10.5% |
| Qatar | | 0.3% | 0.6% | 18.8% |
| Chile | | 0.2% | -5.6% | -12.1% |
| United Arab Emirates | | 0.2% | -2.7% | 3.0% |
| Turkey | | 0.1% | 2.8% | -17.1% |
| Colombia | | 0.1% | -2.4% | -3.7% |
| Peru | | 0.1% | -1.9% | 3.5% |
| Argentina | | 0.1% | 31.7% | 15.8% |
| Greece | | 0.1% | 16.2% | -9.2% |
| Hungary | | 0.1% | -4.1% | 12.7% |
| Czech Republic | | 0.0% | 2.6% | 1.1% |
| Egypt | | 0.0% | 7.8% | 5.4% |
| Pakistan | | 0.0% | -20.8% | -36.7% |
| Total Emerging Countries | | 26.4% | 0.6% | 1.2% |
| Total ACWIxUS Countries | | 100.0% | 3.0% | 1.3% |



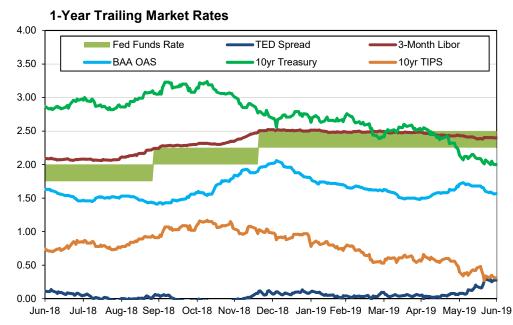
- Broad fixed income benchmarks built on their early 2019 gains during the 2nd guarter. During the 1st guarter, the Federal Open Market Committee (FOMC) reacted to a difficult end to 2018 by issuing guidance that the FOMC is no longer projecting any further interest rate increases through 2019. Federal Reserve Chair Jerome Powell also stated that the Fed would begin tapering the roll off from the planned balance sheet reduction program in May with a plan to halt the program entirely in September. The stoppage of the balance sheet reduction program represents an easing of monetary policy. The Fed took an increasingly dovish stance during the 2nd quarter reacting to softening economic data, tepid inflation and increased risks around global trade. While the committee left interest rates unchanged, the minutes from the June FOMC meeting indicate that the committee felt "downside risks to the outlook for economic activity had risen materially" during the quarter with several participants noting that a "near-term cut in the target range for the Federal Funds Rate could help cushion the effects of possible future adverse shocks to the economy". These comments led market participants to forecast greater odds of an interest rate cut this year, pushing markets higher. Interest rates fell across all maturities on the US Treasury Yield Curve with the greatest declines occurring in the mid- and long-term issues. The curve remains inverted with short-term maturities paying higher interest rates than issues in the mid- to long-end of the curve. The bellwether Bloomberg Barclays US Aggregate Index posted positive returns for both the 1st quarter and the 1-year period, returning 3.1% and 7.9% respectively.
- Within investment grade credit, lower quality issues outperformed higher quality issues as investors gravitated toward higher risk securities during the quarter. Lower quality issues also benefitted from their higher durations. 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 4.8% for the quarter, while AAA was the worst performing, returning 2.6%. High yield issues returned 2.5% for the quarter as these issues did not commensurately benefit from the drop in interest rates due to their lower durations. Returns over the 1-year period generally show lower quality securities outperforming higher quality issues.
- Investment grade corporates outperformed the more defensive Treasury and mortgage backed sectors of the Bloomberg Barclays US Aggregate Index's three broad sectors during the 2nd quarter. Investment grade corporate credit returned 4.5%, as falling interest rates benefitted these securities to a greater degree and credit spreads have continued to tighten since the end of 2018. When viewed over the 1-year period, corporate credit outperformed both Treasuries and mortgage backed securities. Corporate issues returned 10.7% versus a 6.2% return for mortgages and 7.2% gain on Treasury securities.







- Global fixed income returns were in line with their domestic counterparts, slightly outperforming during the 2nd guarter. These indices have lower, or in some cases (Germany, Japan), negative yields, but have higher durations. The returns of these indices are also significantly influenced by fluctuations in their currency denomination relative to the USD. The USD depreciated against most other developed currencies, acting as a tailwind to global bond indices. The return on global bonds, as represented by the Bloomberg Barclays Global Aggregate ex US Index, was 3.4%. Global bonds still trail over the 1-vear period with the Global Aggregate ex US Index returning 4.1% versus a 7.9% return on the domestically focused Barclays Aggregate Index. As global growth has shown signs of stalling, several international central banks have started to step back from more restrictive postures. The ECB and the PBoC have moved toward an easing of monetary policy and implemented various stimulus programs designed to support their respective economies. The Bank of England and the Bank of Japan made no major policy changes during the quarter as they continue to review macroeconomic data within their respective countries.
- Much of the index performance detailed in the bar graphs on the previous page is visible on a time series basis by reviewing the line graphs to the right. The '1-Year Trailing Market Rates' chart illustrates that the 10-year Treasury yield (green line) fell from recent high's greater than 3.0%, to 2.0% to end the guarter. The blue line illustrates changes in the BAA OAS (Option Adjusted Spread). This measure quantifies the additional yield premium that investors require to purchase and hold non-Treasury issues. This line illustrates an abrupt increase in credit spreads during the 4th quarter of 2018 as investors moved to higher quality assets during the quarter's risk-off environment. Subsequently, spreads dropped steadily until they rose again in May and then later declined in June. This spread tightening 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 6 basis points over the last three months. The green band across the graph illustrates the gradual increase in the Federal Funds Rate due to the tightening of US monetary policy during 2018. There have been no changes to the Federal Funds Rate in 2019.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four calendar quarters. The downward shift in interest rates as well as a general steepening of the yield curve are clearly visible over the last quarter. As mentioned, the yield curve continues to invert as yields on shorter-term maturities fell less than interest rates in the middle- to long-end of the curve.



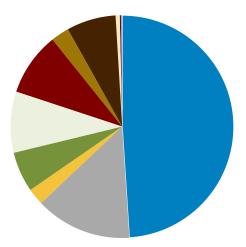
Treasury Yield Curve 4.00 9/30/2018 12/31/2018 3/31/2019 6/30/2019 3.50 3.00 2.50 2.00 1.50 1.00 0.50 0.00 6 mo 30 yr 1 mo 3 mo 1 yr 2 yr 3 yr 5 yr 7 yr 10 yr 20 yr



800,071,724

800,071,724

Asset Allocation by Segment June 30, 2019 : \$800,071,724



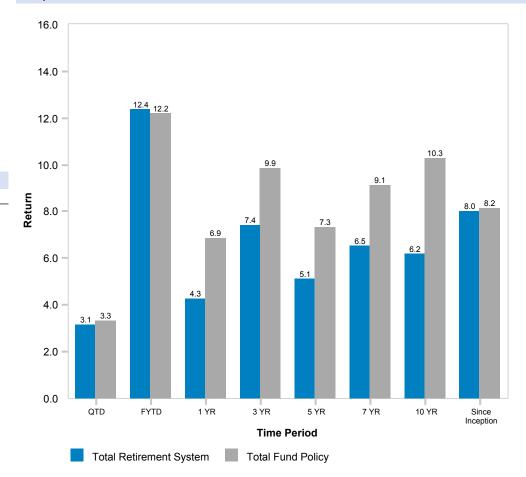
| _ | | | |
|-------------------------|-------------|-------------|-------------|
| | QTD | FYTD | 1 YR |
| Total Retirement System | | | |
| Beginning Market Value | 779,645,365 | 716,447,174 | 777,917,515 |
| Net Contributions | -4,050,451 | -5,026,825 | -10,563,718 |
| Return on Investment | 24,904,086 | 89,607,112 | 34,798,924 |

800,071,724

Comparative Performance

Ending Market Value

Gain/Loss Summary



| location | | |
|---------------------------------|--------------|------------|
| | Market Value | Allocation |
| Total Domestic Equity | 391,862,309 | 49.0 |
| ■ Total International Equity | 111,702,443 | 14.0 |
| ■ Total Other Equity | 19,412,314 | 2.4 |
| ■ Total Core Fixed Income | 46,754,751 | 5.8 |
| Total Non Core Fixed Income | 39,210,121 | 4.9 |
| Total Other Fixed Income | 31,759,510 | 4.0 |
| ■ Total Real Estate | 73,458,707 | 9.2 |
| ■ Total Timber Funds | 21,176,295 | 2.6 |
| ■ Total Multi Asset Funds | 57,127,843 | 7.1 |
| Cash Account | 4,716,434 | 0.6 |
| Cash Account PE | - | 0.0 |
| ■ Retiree Death Benefit Account | 1,452,962 | 0.2 |
| APRS Building | 1,438,036 | 0.2 |

Market values subject to availability from Northern Trust and individual managers.

All performance data is Net of Fees. Please refer to the end of the report for Investment Pricing Summary and Additional Notes.

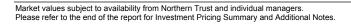


June 30, 2019 : \$800,071,724

| ocation | | |
|---|--------------|------------|
| | Market Value | Allocation |
| NT Collective Russell 3000 Index | 236,495,317 | 29.6 |
| Baird Mid Cap Growth | 62,402,053 | 7.8 |
| Nuance Mid Cap Value | 50,585,585 | 6.3 |
| Kennedy Small Cap Value | 42,379,355 | 5.3 |
| Driehaus International Small Cap Growth | 13,254,732 | 1.7 |
| Thompson Siegel & Walmsley | 78,363,327 | 9.8 |
| LMCG Emerging Markets Fund | 20,084,383 | 2.5 |
| Huff Energy Fund | 9,063,469 | 1.1 |
| Sail Venture Fund I | 1 | 0.0 |
| Sail Venture Fund II | 1 | 0.0 |
| Sail Pre-Exit Acceleration Fund | 1 | 0.0 |
| Excelsior Investors, Ltd. | 572,105 | 0.1 |
| Franklin Park Private Equity | 9,776,737 | 1.2 |
| Orleans Capital | 46,754,751 | 5.8 |
| Templeton Global Multisector Plus | 39,210,121 | 4.9 |
| LBC Credit Partners III | 5,786,526 | 0.7 |
| LBC Credit Partners IV | 13,746,770 | 1.7 |
| Providence Debt Fund III | 7,513,308 | 0.9 |
| Capital Point Partners | 4,510,519 | 0.6 |
| Franchise Equity Capital Partners II | 202,386 | 0.0 |
| Rockspring Capital Land Funds (I - VI) | 6,895,949 | 0.9 |
| ARES Advisors (V & VI) | 809,144 | 0.1 |
| ■ INVESCO Real Estate Funds (I & II) | 26,531 | 0.0 |
| Edison Investments | 2,174,630 | 0.3 |
| India Property Fund | 664,192 | 0.1 |
| Gainesville Property | 1,818,400 | 0.2 |
| Morgan Stanley | 51,663,359 | 6.5 |
| AEW Partners Fund VIII | 6,607,560 | 0.8 |
| GreenOak US III | 2,798,942 | 0.3 |
| BTG Pactual 1 | 1,230,092 | 0.2 |
| Capitol Timberland Investments | 16,793,777 | 2.1 |
| Domain Environmental Investments II | 3,152,426 | 0.4 |
| ■ Double Eagle Capital Ace Fund, Ltd. | 12,466,630 | 1.6 |
| ■ BlackRock Multi Asset Fund | 44,661,212 | 5.6 |
| Cash Account | 4,716,434 | 0.6 |
| Cash Account PE | - | 0.0 |
| Retiree Death Benefit Account | 1,452,962 | 0.2 |
| 4000 D 315 | 4 400 000 | |

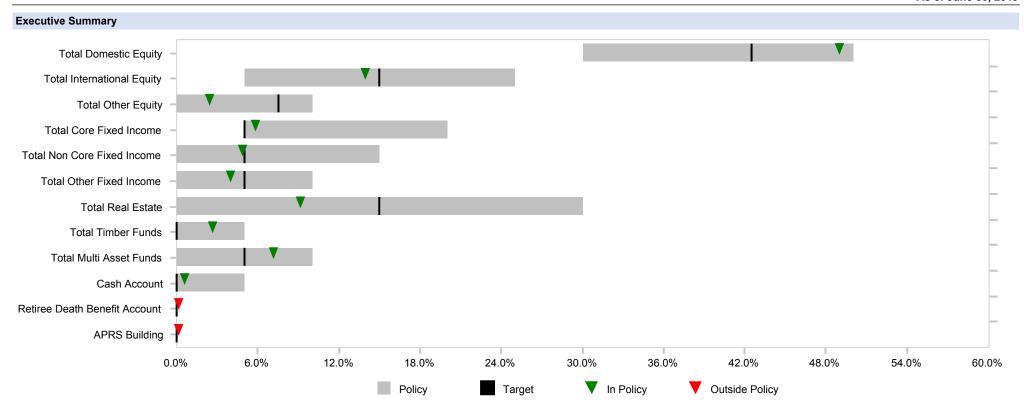
1,438,036

APRS Building





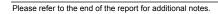
0.2



| Asset Allocation Compliance | | | | | |
|-------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------|
| | Asset Allocation \$ | Current Allocation (%) | Minimum Allocation (%) | Maximum Allocation (%) | Target Allocation (%) |
| Total Retirement System | 800,071,724 | 100.0 | N/A | N/A | 100.0 |
| Total Domestic Equity | 391,862,309 | 49.0 | 30.0 | 50.0 | 42.5 |
| Total International Equity | 111,702,443 | 14.0 | 5.0 | 25.0 | 15.0 |
| Total Other Equity | 19,412,314 | 2.4 | 0.0 | 10.0 | 7.5 |
| Total Core Fixed Income | 46,754,751 | 5.8 | 5.0 | 20.0 | 5.0 |
| Total Non Core Fixed Income | 39,210,121 | 4.9 | 0.0 | 15.0 | 5.0 |
| Total Other Fixed Income | 31,759,510 | 4.0 | 0.0 | 10.0 | 5.0 |
| Total Real Estate | 73,458,707 | 9.2 | 0.0 | 30.0 | 15.0 |
| Total Timber Funds | 21,176,295 | 2.6 | 0.0 | 5.0 | 0.0 |
| Total Multi Asset Funds | 57,127,843 | 7.1 | 0.0 | 10.0 | 5.0 |
| Cash Account | 4,716,434 | 0.6 | 0.0 | 5.0 | 0.0 |
| Retiree Death Benefit Account | 1,452,962 | 0.2 | 0.0 | 0.0 | 0.0 |
| APRS Building | 1,438,036 | 0.2 | 0.0 | 0.0 | 0.0 |



| | Market Value 04/01/2019 | Net Transfers | Contributions | Distributions | Management Fees | Other Expenses | Income | Apprec./ Deprec. | Return On Investment | Market Value 06/30/2019 |
|---|----------------------------|------------------|---------------|---------------|--------------------|-------------------|-----------|---------------------|-------------------------|----------------------------|
| Total Retirement System | 779,645,365 | - | 12,904,902 | -16,955,353 | -388,119 | -39,156 | 3,169,562 | 21,734,524 | 24,904,086 | 800,071,724 |
| Total Equity | 504,587,597 | -961,807 | - | - | -287,989 | - | 761,980 | 18,877,287 | 19,639,266 | 522,977,066 |
| Total Domestic Equity | 379,633,768 | -4,903,968 | - | - | -225,489 | - | 731,140 | 16,626,858 | 17,357,998 | 391,862,309 |
| NT Collective Russell 3000 Index | 232,198,754 | -5,117,847 | - | - | -11,610 | - | 957 | 9,425,063 | 9,426,019 | 236,495,317 |
| Baird Mid Cap Growth | 58,298,243 | 99,916 | - | - | -99,916 | - | 132,167 | 3,971,643 | 4,103,810 | 62,402,053 |
| Nuance Mid Cap Value | 47,723,581 | 12,950 | - | - | -12,950 | - | 395,074 | 2,466,929 | 2,862,003 | 50,585,585 |
| Kennedy Small Cap Value | 41,413,189 | 101,014 | - | - | -101,014 | - | 202,942 | 763,223 | 966,165 | 42,379,355 |
| Total International Equity | 109,421,175 | - | - | - | - | - | - | 2,281,268 | 2,281,268 | 111,702,443 |
| Driehaus International Small Cap Growth | 12,835,721 | - | - | - | - | - | - | 419,012 | 419,012 | 13,254,732 |
| Thompson Siegel & Walmsley | 76,521,399 | - | - | - | - | - | - | 1,841,928 | 1,841,928 | 78,363,327 |
| LMCG Emerging Markets Fund | 20,064,055 | - | - | - | - | - | - | 20,328 | 20,328 | 20,084,383 |
| Total Other Equity | 15,532,654 | 3,942,160 | - | - | -62,500 | - | 30,840 | -30,840 | - | 19,412,314 |
| Huff Energy Fund | 9,063,469 | - | - | - | - | - | - | - | - | 9,063,469 |
| Sail Venture Fund I | 1 | - | - | - | - | - | - | - | - | 1 |
| Sail Venture Fund II | 1 | - | - | - | - | - | - | - | - | 1 |
| Sail Pre-Exit Acceleration Fund | 1 | - | - | - | - | - | - | - | - | 1 |
| Excelsior Investors, Ltd. | 602,945 | -30,840 | - | - | - | - | 30,840 | -30,840 | - | 572,105 |
| Franklin Park Private Equity | 5,866,237 | 3,973,000 | - | - | -62,500 | - | - | - | - | 9,776,737 |
| Total Fixed Income | 114,595,542 | 378,324 | - | - | -56,352 | - | 1,167,125 | 1,639,742 | 2,806,868 | 117,724,381 |
| Orleans Capital | 45,456,867 | 17,046 | - | - | -17,046 | - | 429,128 | 868,757 | 1,297,884 | 46,754,751 |
| Templeton Global Mulisector Plus Trust | 38,439,135 | 44,739 | - | - | -44,739 | - | - | 770,986 | 770,986 | 39,210,121 |
| Total Other Fixed Income | 30,699,540 | 316,538 | - | - | 5,434 | - | 737,998 | - | 737,998 | 31,759,510 |
| Capital Point Partners | 4,510,519 | -282,371 | - | - | - | - | 282,371 | - | 282,371 | 4,510,519 |
| Franchise Equity Capital Partners II | 227,136 | -24,750 | - | - | - | - | - | - | - | 202,386 |
| LBC Credit Partners III | 6,342,824 | -660,953 | - | - | 5,434 | - | 99,221 | - | 99,221 | 5,786,526 |
| LBC Credit Partners IV | 11,637,445 | 1,924,008 | - | - | - | - | 185,317 | - | 185,317 | 13,746,770 |
| Providence Debt Fund III | 7,981,615 | -639,396 | _ | _ | _ | _ | 171,089 | _ | 171,089 | 7,513,308 |

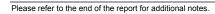




Financial Reconciliation Total Fund

1 Quarter Ending June 30, 2019

| | Market Value 04/01/2019 | Net Transfers | Contributions | Distributions | Management Fees | Other Expenses | Income | Apprec./ Deprec. | Return On Investment | Market Value 06/30/2019 |
|--|----------------------------|------------------|---------------|---------------|--------------------|-------------------|---------|---------------------|-------------------------|----------------------------|
| Total Real Estate & Timber | 94,395,075 | -617,354 | - | | -43,778 | | 506,315 | 394,744 | 901,059 | 94,635,002 |
| Total Real Estate | 73,063,989 | -391,132 | - | - | - | - | 506,315 | 279,535 | 785,850 | 73,458,707 |
| Rockspring Capital Land Funds (I - VI) | 8,768,610 | -1,699,448 | - | - | - | - | - | -173,213 | -173,213 | 6,895,949 |
| Rockspring Capital Land Fund I | 467,598 | - | - | - | - | - | - | -2,128 | -2,128 | 465,471 |
| Rockspring Capital Land Fund II | 2,797,721 | -1,176,966 | - | - | - | - | - | -296,776 | -296,776 | 1,323,979 |
| Rockspring Capital Land Fund III | 1,062,837 | - | - | - | - | - | - | -1,302 | -1,302 | 1,061,535 |
| Rockspring Capital Land Fund V | 3,125,394 | -495,929 | - | - | - | - | - | 125,445 | 125,445 | 2,754,910 |
| Rockspring Capital Land Fund VI | 1,315,060 | -26,553 | - | - | - | - | - | 1,548 | 1,548 | 1,290,05 |
| ARES Advisors (V & VI) | 788,780 | - | - | - | - | - | - | 20,364 | 20,364 | 809,144 |
| ARES Value Enhancement Fund V | 74,274 | - | - | - | - | - | - | -259 | -259 | 74,01 |
| ARES Value Enhancement Fund VI | 714,507 | - | - | - | - | - | - | 20,622 | 20,622 | 735,129 |
| INVESCO Real Estate Funds (I & II) | 26,876 | - | - | - | - | - | - | -345 | -345 | 26,53 |
| INVESCO Real Estate Fund II | 26,876 | - | - | - | - | - | - | -345 | -345 | 26,53 |
| Edison Investments | 2,166,111 | -7,114 | - | - | - | - | 7,114 | 8,519 | 15,633 | 2,174,630 |
| India Property Fund | 664,192 | - | - | - | - | - | - | - | - | 664,192 |
| Gainesville Property | 1,818,400 | - | - | - | - | - | - | - | - | 1,818,400 |
| Morgan Stanley | 50,739,948 | - | - | - | - | - | 499,201 | 424,210 | 923,411 | 51,663,359 |
| AEW Partners Fund VIII | 5,292,130 | 1,315,430 | - | - | - | - | - | - | - | 6,607,560 |
| GreenOak US III | 2,798,942 | - | - | - | - | - | - | - | - | 2,798,942 |
| Total Timber Funds | 21,331,086 | -226,222 | - | - | -43,778 | - | - | 115,209 | 115,209 | 21,176,29 |
| BTG Pactual (1, 2 & 3) | 1,250,984 | 2,961 | - | - | -2,961 | - | - | -20,892 | -20,892 | 1,230,09 |
| BTG Pactual 1 | 1,250,984 | 2,961 | - | - | -2,961 | - | - | -20,892 | -20,892 | 1,230,09 |
| Capitol Timberland Investments | 16,657,676 | 40,817 | - | - | -40,817 | - | - | 136,101 | 136,101 | 16,793,77 |
| Domain Environmental Investments II | 3,422,426 | -270,000 | - | - | - | - | - | - | - | 3,152,42 |

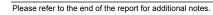




Financial Reconciliation Total Fund

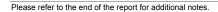
1 Quarter Ending June 30, 2019

| | Market Value 04/01/2019 | Net Transfers | Contributions | Distributions | Management Fees | Other Expenses | Income | Apprec./ Deprec. | Return On Investment | Market Value 06/30/2019 |
|-------------------------------------|----------------------------|------------------|---------------|---------------|--------------------|-------------------|---------|---------------------|-------------------------|----------------------------|
| Total Multi Asset Funds | 63,081,881 | -7,463,772 | - | - | - | - | 686,983 | 822,751 | 1,509,733 | 57,127,843 |
| Double Eagle Capital Ace Fund, Ltd. | 12,295,589 | - | - | - | - | - | - | 171,041 | 171,041 | 12,466,630 |
| BlackRock Multi Asset Fund | 50,786,292 | -7,463,772 | - | - | - | - | 686,983 | 651,710 | 1,338,692 | 44,661,212 |
| Cash Account | 129,950 | 8,664,610 | 12,857,455 | -16,935,353 | - | -39,156 | 38,928 | - | 38,928 | 4,716,434 |
| Cash Account PE | - | - | - | - | - | - | - | - | - | - |
| Retiree Death Benefit Account | 1,417,284 | - | 47,447 | -20,000 | - | - | 8,231 | - | 8,231 | 1,452,962 |
| APRS Building | 1,438,036 | - | - | - | - | - | - | - | - | 1,438,036 |





| | Market Value | Net | | | Management | Other | | Apprec./ | Return On | Market Value |
|---|--------------|-------------|---------------|---------------|------------|----------|-----------|------------|------------|--------------|
| | 01/01/2019 | Transfers | Contributions | Distributions | Fees | Expenses | Income | Deprec. | Investment | 06/30/2019 |
| Fotal Retirement System | 716,447,174 | - | 28,254,612 | -33,281,438 | -856,079 | -99,658 | 5,886,029 | 83,721,083 | 89,607,112 | 800,071,724 |
| Total Equity | 447,486,822 | -232,472 | - | - | -609,570 | -12,376 | 1,318,089 | 75,026,572 | 76,344,662 | 522,977,066 |
| Total Domestic Equity | 331,905,829 | -4,644,887 | - | - | -484,570 | - | 1,286,628 | 63,799,308 | 65,085,937 | 391,862,309 |
| NT Collective Russell 3000 Index | 203,581,085 | -5,107,668 | - | - | -21,789 | - | 957 | 38,042,732 | 38,043,689 | 236,495,317 |
| Baird Mid Cap Growth | 49,174,534 | 185,947 | - | - | -185,947 | - | 243,972 | 12,983,547 | 13,227,519 | 62,402,05 |
| Nuance Mid Cap Value | - | 47,926,601 | - | _ | -12,950 | - | 491,543 | 2,180,390 | 2,671,933 | 50,585,58 |
| Seizert Mid Cap Value | 42,823,370 | -47,847,055 | - | _ | -66,596 | - | 127,895 | 4,962,386 | 5,090,281 | |
| Kennedy Small Cap Value | 36,326,840 | 197,289 | - | - | -197,289 | - | 422,261 | 5,630,254 | 6,052,515 | 42,379,35 |
| Total International Equity | 100,707,860 | -621 | - | - | - | - | 621 | 10,994,583 | 10,995,204 | 111,702,443 |
| Driehaus International Small Cap Growth | 11,355,213 | -621 | - | - | - | - | 621 | 1,899,519 | 1,900,140 | 13,254,73 |
| Thompson Siegel & Walmsley | 70,752,231 | - | - | - | - | - | - | 7,611,096 | 7,611,096 | 78,363,32 |
| LMCG Emerging Markets Fund | 18,600,416 | - | - | - | - | - | - | 1,483,968 | 1,483,968 | 20,084,38 |
| Total Other Equity | 14,873,133 | 4,413,036 | - | - | -125,000 | -12,376 | 30,840 | 232,681 | 263,521 | 19,412,31 |
| Huff Energy Fund | 9,063,469 | - | - | _ | - | - | - | - | - | 9,063,469 |
| Sail Venture Fund I | 1 | - | - | _ | - | - | - | - | - | |
| Sail Venture Fund II | 1 | - | - | - | - | - | - | - | - | |
| Sail Pre-Exit Acceleration Fund | 1 | - | - | - | - | - | - | - | - | |
| Excelsior Investors, Ltd. | 626,646 | -30,840 | - | - | - | - | 30,840 | -54,541 | -23,701 | 572,10 |
| Franklin Park Private Equity | 5,183,015 | 4,443,876 | - | - | -125,000 | -12,376 | - | 287,222 | 287,222 | 9,776,737 |
| Total Fixed Income | 112,553,086 | -290,331 | | | -110,767 | | 2,134,308 | 3,438,086 | 5,572,393 | 117,724,381 |
| Orleans Capital | 44,093,031 | 33,371 | - | - | -33,371 | - | 835,057 | 1,826,663 | 2,661,720 | 46,754,75 |
| Templeton Global Multisector Plus | 37,805,826 | 89,876 | - | _ | -89,876 | - | · - | 1,404,295 | 1,404,295 | 39,210,12 |
| Total Other Fixed Income | 30,654,229 | -413,577 | - | - | 12,479 | _ | 1,299,251 | 207,128 | 1,506,378 | 31,759,51 |
| Capital Point Partners | 3,998,502 | -282,371 | _ | _ | - | _ | 282,371 | 512,017 | 794,388 | 4,510,51 |
| Franchise Equity Capital Partners II | 243,804 | -44,550 | _ | _ | - | - | 24,750 | -21,618 | 3,132 | 202,38 |
| LBC Credit Partners III | 7,058,663 | -1,263,924 | _ | _ | 12,479 | _ | 228,098 | -248,789 | -20,691 | 5,786,52 |
| LBC Credit Partners IV | 11,239,261 | 2,262,771 | _ | _ | , - | - | 336,785 | -92,046 | 244,738 | 13,746,77 |
| Providence Debt Fund III | 8,114,000 | -1,085,503 | _ | _ | _ | _ | 427,247 | 57,564 | 484,811 | 7,513,30 |



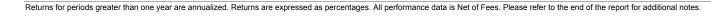


| | Market Value 01/01/2019 | Net Transfers | Contributions | Distributions | Management Fees | Other Expenses | Income | Apprec./ Deprec. | Return On Investment | Market Value 06/30/2019 |
|--|----------------------------|------------------|---------------|---------------|--------------------|-------------------|-----------|---------------------|-------------------------|----------------------------|
| Total Real Estate & Timber | 91,371,553 | 1,295,273 | | | -135,741 | -8,521 | 1,007,767 | 1,104,671 | 2,112,439 | 94,635,002 |
| Total Real Estate | 70,397,552 | 1,478,572 | - | - | -49,040 | -8,521 | 1,007,767 | 632,377 | 1,640,145 | 73,458,707 |
| Rockspring Capital Land Funds (I - VI) | 8,809,174 | -1,699,448 | - | - | - | - | - | -213,777 | -213,777 | 6,895,949 |
| Rockspring Capital Land Fund I | 477,809 | - | - | - | - | - | - | -12,338 | -12,338 | 465,471 |
| Rockspring Capital Land Fund II | 2,808,727 | -1,176,966 | - | - | - | - | - | -307,782 | -307,782 | 1,323,979 |
| Rockspring Capital Land Fund III | 1,065,602 | - | - | - | - | - | _ | -4,067 | -4,067 | 1,061,535 |
| Rockspring Capital Land Fund V | 3,139,057 | -495,929 | - | - | - | - | _ | 111,782 | 111,782 | 2,754,910 |
| Rockspring Capital Land Fund VI | 1,317,979 | -26,553 | - | - | - | - | _ | -1,372 | -1,372 | 1,290,055 |
| ARES Advisors (V & VI) | 762,583 | - | - | - | - | - | - | 46,561 | 46,561 | 809,144 |
| ARES Value Enhancement Fund V | 73,998 | _ | - | - | - | - | _ | 17 | 17 | 74,015 |
| ARES Value Enhancement Fund VI | 688,585 | - | - | - | - | - | _ | 46,544 | 46,544 | 735,129 |
| INVESCO Real Estate Funds (I & II) | 26,898 | - | - | - | - | - | - | -367 | -367 | 26,531 |
| INVESCO Real Estate Fund II | 26,898 | - | - | - | - | - | _ | -367 | -367 | 26,531 |
| Edison Investments | 2,157,705 | -14,228 | - | - | - | - | 14,228 | 16,925 | 31,153 | 2,174,630 |
| India Property Fund | 676,548 | _ | - | - | - | - | - | -12,356 | -12,356 | 664,192 |
| Gainesville Property | 1,818,400 | 1,466 | - | - | - | -1,466 | _ | - | _ | 1,818,400 |
| Morgan Stanley | 50,104,031 | _ | - | - | - | - | 993,539 | 565,789 | 1,559,328 | 51,663,359 |
| AEW Partners Fund VIII | 4,323,989 | 2,047,316 | - | - | - | - | - | 236,255 | 236,255 | 6,607,560 |
| GreenOak US III | 1,718,224 | 1,143,466 | - | - | -49,040 | -7,055 | - | -6,653 | -6,653 | 2,798,942 |
| Total Timber Funds | 20,974,001 | -183,299 | - | - | -86,701 | - | - | 472,294 | 472,294 | 21,176,295 |
| BTG Pactual 1 | 1,250,984 | 5,938 | - | - | -5,938 | - | - | -20,892 | -20,892 | 1,230,092 |
| Capitol Timberland Investments | 16,326,965 | 40,817 | - | - | -40,817 | - | - | 466,812 | 466,812 | 16,793,777 |
| Domain Environmental Investments II | 3,396,052 | -230,054 | - | - | -39,946 | - | - | 26,374 | 26,374 | 3,152,426 |



| | Market Value 01/01/2019 | Net Transfers | Contributions | Distributions | Management Fees | Other Expenses | Income | Apprec./ Deprec. | Return On Investment | Market Value 06/30/2019 |
|-------------------------------------|----------------------------|------------------|---------------|---------------|--------------------|-------------------|-----------|---------------------|-------------------------|----------------------------|
| Total Multi Asset Funds | 62,087,711 | -10,463,772 | - | - | | | 1,352,149 | 4,151,754 | 5,503,903 | 57,127,843 |
| Double Eagle Capital Ace Fund, Ltd. | 11,802,108 | - | - | - | - | - | - | 664,523 | 664,523 | 12,466,630 |
| BlackRock Multi Asset Fund | 50,285,603 | -10,463,772 | - | - | - | - | 1,352,149 | 3,487,232 | 4,839,381 | 44,661,212 |
| Cash Account | 110,402 | 9,691,301 | 28,151,820 | -33,215,822 | - | -78,761 | 57,494 | -1 | 57,493 | 4,716,434 |
| Cash Account PE | - | - | - | - | - | - | - | - | - | - |
| Retiree Death Benefit Account | 1,399,563 | - | 102,793 | -65,616 | - | - | 16,222 | - | 16,222 | 1,452,962 |
| APRS Building | 1,438,036 | - | - | - | - | - | - | - | - | 1,438,036 |

| | | | | | Performance | (%) | | | |
|---|-----------|------------|-----------------------|------------|-------------|-----------|-----------|------------|------------------|
| | QTR | YTD | 1 YR | 3 YR | 5 YR | 7 YR | 10 YR | Inception | Inceptio Date |
| Total Retirement System (Net) | 3.15 | 12.36 | 4.27 | 7.41 | 5.14 | 6.53 | 6.20 | 8.02 | 10/01/1992 |
| Total Retirement System (Gross) | 3.20 (55) | 12.48 (39) | 4.53 (92) | 7.66 (83) | 5.39 (74) | 6.83 (89) | 6.64 (97) | 8.34 (21) | 10/01/1992 |
| Total Fund Policy | 3.31 | 12.21 | 6.87 | 9.87 | 7.33 | 9.15 | 10.26 | 8.16 | |
| Variance | -0.11 | 0.27 | -2.34 | -2.21 | -1.94 | -2.32 | -3.62 | 0.18 | |
| All Public Plans-Total Fund Median | 3.24 | 12.03 | 6.36 | 8.92 | 5.99 | 8.23 | 9.14 | 7.78 | |
| Total Equity | 3.84 | 16.92 | 3.70 | 11.13 | 5.86 | 10.61 | 10.26 | 8.67 | 01/01/1994 |
| Total Equity Policy | 4.09 | 17.81 | 7.21 | 12.88 | 7.83 | 11.86 | 12.32 | 8.40 | |
| Variance | -0.25 | -0.89 | -3.51 | -1.75 | -1.97 | -1.25 | -2.06 | 0.27 | |
| Domestic Equity | 4.55 (31) | 19.50 (36) | 7.37 (43) | 13.34 (39) | 8.04 (49) | N/A | N/A | 10.67 (49) | 05/01/2013 |
| Russell 3000 Index | 4.10 | 18.71 | 8.98 | 14.02 | 10.19 | 13.79 | 14.67 | 12.39 | |
| Variance | 0.45 | 0.79 | -1.61 | -0.68 | -2.15 | N/A | N/A | -1.72 | |
| IM U.S. Equity (SA+CF+MF) Median | 3.61 | 17.81 | 5.81 | 11.87 | 7.94 | 12.28 | 13.69 | 10.58 | |
| NT Collective Russell 3000 Index | 4.10 (51) | 18.73 (43) | 9.02 (45) | 14.05 (45) | 10.22 (41) | N/A | N/A | 10.59 (39) | 01/01/2014 |
| Russell 3000 Index | 4.10 | 18.71 | 8.98 | 14.02 | 10.19 | 13.79 | 14.67 | 10.56 | |
| Variance | 0.00 | 0.02 | 0.04 | 0.03 | 0.03 | N/A | N/A | 0.03 | |
| M U.S. All Cap Core Equity (SA+CF) Median | 4.19 | 18.60 | 7.94 | 13.34 | 9.37 | 13.98 | 14.49 | 9.85 | |
| Baird Mid Cap Growth | 6.86 (45) | 26.49 (55) | 16.52 (30) | 17.51 (41) | 10.43 (63) | N/A | N/A | 10.43 (63) | 07/01/2014 |
| Russell Midcap Growth Index | 5.40 | 26.08 | 13.94 | 16.49 | 11.10 | 14.76 | 16.02 | 11.10 | |
| Variance | 1.46 | 0.41 | 2.58 | 1.02 | -0.67 | N/A | N/A | -0.67 | |
| M U.S. Mid Cap Growth Equity (SA+CF) Median | 6.45 | 27.00 | 14.14 | 16.55 | 11.31 | 14.35 | 15.94 | 11.31 | |
| Nuance Mid Cap Value | 6.00 (6) | N/A | N/A | N/A | N/A | N/A | N/A | 6.00 (6) | 04/01/2019 |
| Russell Midcap Value Index | 3.19 | 18.02 | 3.68 | 8.95 | 6.72 | 12.34 | 14.56 | 3.19 | |
| Variance | 2.81 | N/A | N/A | N/A | N/A | N/A | N/A | 2.81 | |
| M U.S. Mid Cap Value Equity (SA+CF) Median | 3.35 | 18.19 | 2.27 | 10.45 | 6.94 | 12.82 | 14.32 | 3.35 | |
| Kennedy Small Cap Value | 2.09 (57) | 16.11 (47) | -8.22 (77) | 8.09 (76) | N/A | N/A | N/A | 9.86 (82) | 03/01/2016 |
| Russell 2000 Value Index | 1.38 | 13.47 | -6.24 | 9.81 | 5.39 | 10.31 | 12.40 | 12.83 | |
| Variance | 0.71 | 2.64 | -1.98 | -1.72 | N/A | N/A | N/A | -2.97 | |
| IM U.S. Small Cap Value Equity (SA+CF) Median | 2.32 | 15.80 | -4.69 | 9.93 | 6.19 | 11.83 | 14.17 | 12.39 | |





| | | | | | Performance (| (%) | | | |
|---|-----------|------------|------------------------|-----------|---------------|------|-------|------------|-------------------|
| | QTR | YTD | 1 YR | 3 YR | 5 YR | 7 YR | 10 YR | Inception | Inception Date |
| International Equity | 2.08 (59) | 10.92 (76) | -4.43 (80) | 7.43 (71) | 1.60 (69) | N/A | N/A | 5.15 (33) | 05/01/2013 |
| MSCI AC World ex USA | 3.22 | 14.00 | 1.80 | 9.91 | 2.65 | 6.85 | 7.03 | 4.39 | |
| Variance | -1.14 | -3.08 | -6.23 | -2.48 | -1.05 | N/A | N/A | 0.76 | |
| IM International Equity (SA+CF+MF) Median | 2.58 | 13.49 | -0.10 | 8.76 | 2.53 | 6.74 | 7.22 | 4.21 | |
| Driehaus International Small Cap Growth | 3.26 (42) | 16.73 (32) | -5 .10 (38) | 9.53 (33) | 5.58 (19) | N/A | N/A | 10.19 (16) | 09/01/2012 |
| MSCI AC World ex USA Small Growth | 1.95 | 13.80 | -6.13 | 7.91 | 3.79 | 8.10 | 9.05 | 7.66 | |
| Variance | 1.31 | 2.93 | 1.03 | 1.62 | 1.79 | N/A | N/A | 2.53 | |
| IM International SMID Cap Growth Equity (MF) Median | 2.78 | 14.27 | -6.64 | 8.62 | 3.72 | 8.55 | 9.56 | 8.10 | |
| Thompson Siegel & Walmsley | 2.41 (81) | 10.76 (95) | -4 .09 (95) | 6.89 (92) | N/A | N/A | N/A | 2.60 (95) | 10/01/2014 |
| MSCI EAFE (Net) Index | 3.68 | 14.03 | 1.08 | 9.11 | 2.25 | 7.31 | 6.90 | 3.68 | |
| Variance | -1.27 | -3.27 | -5.17 | -2.22 | N/A | N/A | N/A | -1.08 | |
| IM International Large Cap Core Equity (SA+CF) Median | 3.61 | 14.84 | 0.87 | 9.11 | 3.18 | 8.13 | 8.31 | 4.45 | |
| LMCG Emerging Markets Fund | 0.10 (86) | 7.98 (88) | -4.45 (92) | 8.15 (78) | 0.40 (95) | N/A | N/A | 1.53 (94) | 04/01/2014 |
| MSCI Emerging Markets Index | 0.74 | 10.78 | 1.61 | 11.06 | 2.87 | 4.53 | 6.17 | 4.01 | |
| Variance | -0.64 | -2.80 | -6.06 | -2.91 | -2.47 | N/A | N/A | -2.48 | |
| IM Emerging Markets Equity (SA+CF) Median | 1.57 | 12.29 | 1.89 | 10.54 | 3.26 | 5.61 | 7.42 | 4.37 | |
| Total Other Equity | -0.38 | 0.91 | -20.63 | N/A | N/A | N/A | N/A | -16.08 | 01/01/2017 |

Huff Energy Fund

Excelsior Investors, Ltd.

Franklin Park Private Equity

Sail Venture Fund I

Sail Venture Fund II

Sail Pre-Exit Acceleration Fund



| | | | | | Performance (| (%) | | | |
|---|-----------|-----------|-----------|-----------|---------------|------|-------|-----------|-------------------|
| | QTR | YTD | 1 YR | 3 YR | 5 YR | 7 YR | 10 YR | Inception | Inceptior Date |
| Total Fixed Income | 2.42 | 4.90 | 6.31 | 2.72 | 1.75 | 2.36 | 4.68 | 6.75 | 12/01/1993 |
| Total Fixed Income Policy | 3.20 | 5.95 | 6.94 | 2.14 | 2.16 | 2.22 | 3.53 | 5.03 | |
| Variance | -0.78 | -1.05 | -0.63 | 0.58 | -0.41 | 0.14 | 1.15 | 1.72 | |
| Orleans Capital | 2.82 (93) | 5.96 (84) | 7.64 (90) | 2.56 (66) | 3.05 (78) | N/A | N/A | 3.50 (77) | 01/01/2014 |
| Blmbg. Barc. U.S. Aggregate Index | 3.08 | 6.11 | 7.87 | 2.31 | 2.95 | 2.62 | 3.90 | 3.40 | |
| Variance | -0.26 | -0.15 | -0.23 | 0.25 | 0.10 | N/A | N/A | 0.10 | |
| IM U.S. Broad Market Core Fixed Income (SA+CF) Median | 3.14 | 6.43 | 8.11 | 2.80 | 3.29 | 3.10 | 4.61 | 3.77 | |
| Templeton Global Mulisector Plus Trust | 1.89 (96) | 3.47 (96) | 5.80 (64) | 4.35 (13) | 1.42 (55) | N/A | N/A | 2.17 (43) | 03/01/2014 |
| Blmbg. Barc. Global Multiverse | 3.31 | 5.78 | 6.01 | 1.95 | 1.35 | 1.79 | 3.13 | 1.73 | |
| Variance | -1.42 | -2.31 | -0.21 | 2.40 | 0.07 | N/A | N/A | 0.44 | |
| IM Global Fixed Income (MF) Median | 3.37 | 6.54 | 6.42 | 2.56 | 1.51 | 2.09 | 3.66 | 1.98 | |
| Total Other Fixed Income | 2.57 | 5.31 | 4.86 | N/A | N/A | N/A | N/A | 2.41 | 01/01/2017 |

Capital Point Partners

Franchise Equity Capital Partners II

LBC Credit Partners III

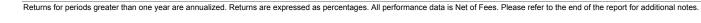
LBC Credit Partners IV

Providence Debt Fund III



| | | | | | Performanc | e (%) | | | |
|-------------------------------------|-------|-------|-------|-------|------------|-------|-------|-----------|-------------------|
| | QTR | YTD | 1 YR | 3 YR | 5 YR | 7 YR | 10 YR | Inception | Inceptior Date |
| Alternative Investments | | | | | | | | | |
| Multi Asset Funds | 2.60 | 9.21 | 5.30 | 3.51 | 1.23 | 2.36 | 5.92 | 5.75 | 12/01/2008 |
| HFRI Fund of Funds Composite Index | 1.48 | 6.15 | 1.14 | 4.25 | 2.19 | 3.66 | 3.21 | 3.38 | |
| Variance | 1.12 | 3.06 | 4.16 | -0.74 | -0.96 | -1.30 | 2.71 | 2.37 | |
| Double Eagle Capital Ace Fund, Ltd. | 1.39 | 5.63 | 0.91 | 2.95 | 1.24 | 3.61 | N/A | 3.42 | 09/01/2010 |
| HFRI Fund of Funds Composite Index | 1.48 | 6.15 | 1.14 | 4.25 | 2.19 | 3.66 | 3.21 | 3.00 | |
| Variance | -0.09 | -0.52 | -0.23 | -1.30 | -0.95 | -0.05 | N/A | 0.42 | |
| BlackRock Multi Asset Fund | 2.84 | 10.03 | 7.29 | N/A | N/A | N/A | N/A | 3.11 | 02/01/2018 |
| BlackRock Multi Hybrid | 3.67 | 11.62 | 7.50 | N/A | N/A | N/A | N/A | 3.35 | |
| Variance | -0.83 | -1.59 | -0.21 | N/A | N/A | N/A | N/A | -0.24 | |
| ther Assets | | | | | | | | | |
| Cash Account | 0.58 | 1.13 | 2.13 | 1.26 | 0.78 | 0.58 | 0.48 | 4.50 | 06/01/1988 |
| Cash Account PE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 03/01/2014 |
| Retiree Death Benefit Account | 0.57 | 1.15 | 2.15 | 1.26 | 0.78 | 0.57 | 0.55 | 1.41 | 12/01/2004 |
| other Alternative Assets | | | | | | | | | |
| Total Real Estate | 1.08 | 2.22 | 4.74 | 3.16 | 8.48 | 8.38 | 4.83 | 3.92 | 08/01/2005 |
| NCREIF Property Index | 1.51 | 3.34 | 6.51 | 6.89 | 8.83 | 9.43 | 9.25 | 8.06 | |
| Variance | -0.43 | -1.12 | -1.77 | -3.73 | -0.35 | -1.05 | -4.42 | -4.14 | |
| Total Timber Funds | 0.34 | 1.84 | 2.07 | -3.00 | -0.03 | -0.06 | -0.47 | 1.73 | 08/01/2005 |
| NCREIF Timberland Index | 1.04 | 1.15 | 2.95 | 3.29 | 4.62 | 6.03 | 3.98 | 6.61 | |
| Variance | -0.70 | 0.69 | -0.88 | -6.29 | -4.65 | -6.09 | -4.45 | -4.88 | |

| | | | | P | Performance (% |) | | | |
|---|------------|-------------------------|------------|------------|--------------------------|------------|------------|-----------|------------------|
| | YTD | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 |
| Total Retirement System (Net) | 12.36 | -6.18 | 11.89 | 7.67 | -1.05 | 5.61 | 10.66 | 8.79 | -3.16 |
| Total Retirement System (Gross) | 12.48 (39) | - 5 .95 (87) | 12.17 (84) | 7.87 (40) | - <mark>0.83</mark> (67) | 5.94 (65) | 11.16 (83) | 9.31 (90) | -2.68 (97 |
| Total Fund Policy | 12.21 | -3.12 | 15.79 | 8.04 | 2.43 | 8.08 | 17.56 | 11.31 | 4.69 |
| Variance | 0.27 | -2.83 | -3.62 | -0.17 | -3.26 | -2.14 | -6.40 | -2.00 | -7.37 |
| All Public Plans-Total Fund Median | 12.03 | -4.15 | 15.22 | 7.47 | -0.16 | 6.62 | 15.92 | 12.59 | 0.48 |
| Total Equity | 16.92 | -9.83 | 18.49 | 11.41 | -2.87 | 5.30 | 29.57 | 10.82 | -8.56 |
| Total Equity Policy | 17.81 | -7.34 | 22.07 | 9.61 | -0.51 | 6.91 | 29.57 | 16.70 | -3.34 |
| Variance | -0.89 | -2.49 | -3.58 | 1.80 | -2.36 | -1.61 | 0.00 | -5.88 | -5.22 |
| Domestic Equity | 19.50 (36) | -7.18 (49) | 17.39 (54) | 15.76 (32) | - <mark>3.09</mark> (63) | 8.03 (58) | N/A | N/A | N/A |
| Russell 3000 Index | 18.71 | -5.24 | 21.13 | 12.74 | 0.48 | 12.56 | 33.55 | 16.42 | 1.03 |
| Variance | 0.79 | -1.94 | -3.74 | 3.02 | -3.57 | -4.53 | N/A | N/A | N/A |
| IM U.S. Equity (SA+CF+MF) Median | 17.81 | -7.43 | 18.17 | 11.72 | -1.46 | 9.18 | 33.88 | 15.25 | -1.67 |
| NT Collective Russell 3000 Index | 18.73 (43) | -5.23 (51) | 21.15 (48) | 12.79 (47) | 0.49 (50) | 12.55 (32) | N/A | N/A | N/A |
| Russell 3000 Index | 18.71 | -5.24 | 21.13 | 12.74 | 0.48 | 12.56 | 33.55 | 16.42 | 1.03 |
| Variance | 0.02 | 0.01 | 0.02 | 0.05 | 0.01 | -0.01 | N/A | N/A | N/A |
| IM U.S. All Cap Core Equity (SA+CF) Median | 18.60 | -5.19 | 20.91 | 12.17 | 0.45 | 10.80 | 35.95 | 15.97 | 0.32 |
| Baird Mid Cap Growth | 26.49 (55) | -1.60 (33) | 26.98 (30) | 5.35 (54) | -3 .03 (81) | N/A | N/A | N/A | N/A |
| Russell Midcap Growth Index | 26.08 | -4.75 | 25.27 | 7.33 | -0.20 | 11.90 | 35.74 | 15.81 | -1.65 |
| Variance | 0.41 | 3.15 | 1.71 | -1.98 | -2.83 | N/A | N/A | N/A | N/A |
| IM U.S. Mid Cap Growth Equity (SA+CF) Median | 27.00 | -4.56 | 25.42 | 5.64 | 1.04 | 8.69 | 36.42 | 15.13 | -0.95 |
| Nuance Mid Cap Value | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Russell Midcap Value Index | 18.02 | -12.29 | 13.34 | 20.00 | -4.78 | 14.75 | 33.46 | 18.51 | -1.38 |
| Variance | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| IM U.S. Mid Cap Value Equity (SA+CF) Median | 18.19 | -12.36 | 15.64 | 18.22 | -3.21 | 11.86 | 36.47 | 17.14 | -0.92 |
| Kennedy Small Cap Value | 16.11 (47) | -19.83 (92) | 12.51 (42) | N/A | N/A | N/A | N/A | N/A | N/A |
| Russell 2000 Value Index | 13.47 | -12.86 | 7.84 | 31.74 | -7.47 | 4.22 | 34.52 | 18.05 | -5.50 |
| Variance | 2.64 | -6.97 | 4.67 | N/A | N/A | N/A | N/A | N/A | N/A |
| IM U.S. Small Cap Value Equity (SA+CF) Median | 15.80 | -14.33 | 11.59 | 26.39 | -4.29 | 5.71 | 38.07 | 17.55 | -3.15 |





| | | | | | Performance (% |) | | | |
|---|------------|-------------|------------|-----------------------|-------------------|--------------------------|------------|-------|--------|
| | YTD | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 |
| International Equity | 10.92 (76) | -16.28 (56) | 27.37 (61) | 0.67 (64) | -2.40 (52) | - <mark>0.27</mark> (24) | N/A | N/A | N/A |
| MSCI AC World ex USA | 14.00 | -13.78 | 27.77 | 5.01 | -5.25 | -3.44 | 15.78 | 17.39 | -13.33 |
| Variance | -3.08 | -2.50 | -0.40 | -4.34 | 2.85 | 3.17 | N/A | N/A | N/A |
| IM International Equity (SA+CF+MF) Median | 13.49 | -15.75 | 29.32 | 2.37 | -2.11 | -3.96 | 18.14 | 18.89 | -14.31 |
| Driehaus International Small Cap Growth | 16.73 (32) | -16.92 (30) | 41.19 (7) | -6.24 (88) | 12.59 (12) | -4.32 (40) | 29.24 (33) | N/A | N/A |
| MSCI AC World ex USA Small Growth | 13.80 | -18.07 | 33.99 | -0.04 | 6.74 | -3.35 | 18.80 | 17.17 | -17.67 |
| Variance | 2.93 | 1.15 | 7.20 | -6.20 | 5.85 | -0.97 | 10.44 | N/A | N/A |
| IM International SMID Cap Growth Equity (MF) Median | 14.27 | -19.55 | 34.34 | -1.01 | 6.71 | -5.01 | 26.57 | 21.71 | -15.16 |
| Thompson Siegel & Walmsley | 10.76 (95) | -15.93 (69) | 22.70 (92) | 0.47 (64) | 1.38 (37) | N/A | N/A | N/A | N/A |
| MSCI EAFE (Net) Index | 14.03 | -13.79 | 25.03 | 1.00 | -0.81 | -4.90 | 22.78 | 17.32 | -12.14 |
| Variance | -3.27 | -2.14 | -2.33 | -0.53 | 2.19 | N/A | N/A | N/A | N/A |
| IM International Large Cap Core Equity (SA+CF) Median | 14.84 | -14.67 | 26.48 | 1.38 | 0.25 | -3.72 | 23.31 | 19.46 | -12.31 |
| LMCG Emerging Markets Fund | 7.98 (88) | -16.89 (69) | 35.93 (57) | 7.14 (71) | -18.73 (95) | N/A | N/A | N/A | N/A |
| MSCI Emerging Markets Index | 10.78 | -14.25 | 37.75 | 11.60 | -14.60 | -1.82 | -2.27 | 18.64 | -18.17 |
| Variance | -2.80 | -2.64 | -1.82 | -4.46 | -4.13 | N/A | N/A | N/A | N/A |
| IM Emerging Markets Equity (SA+CF) Median | 12.29 | -15.24 | 36.81 | 10.27 | -12.61 | -0.10 | 1.00 | 20.52 | -18.06 |
| Total Other Equity | 0.91 | -22.42 | -17.60 | N/A | N/A | N/A | N/A | N/A | N/A |

Huff Energy Fund

Excelsior Investors, Ltd.

Franklin Park Private Equity

Sail Venture Fund I

Sail Venture Fund II

Sail Pre-Exit Acceleration Fund



| | | | | F | Performance (% |) | | | |
|---|-----------|------------------------|-----------|-----------|-------------------|-----------|-------|-------|-------|
| | YTD | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 |
| Total Fixed Income | 4.90 | 0.06 | 2.86 | 4.36 | -0.97 | 1.69 | -3.42 | 13.45 | -1.20 |
| Total Fixed Income Policy | 5.95 | -0.66 | 5.60 | 2.77 | -1.37 | 3.20 | -2.10 | 4.54 | 6.72 |
| Variance | -1.05 | 0.72 | -2.74 | 1.59 | 0.40 | -1.51 | -1.32 | 8.91 | -7.92 |
| Orleans Capital | 5.96 (84) | 0.07 (50) | 3.87 (60) | 3.79 (28) | 0.57 (73) | 5.08 (94) | N/A | N/A | N/A |
| Blmbg. Barc. U.S. Aggregate Index | 6.11 | 0.01 | 3.54 | 2.65 | 0.55 | 5.97 | -2.02 | 4.21 | 7.84 |
| Variance | -0.15 | 0.06 | 0.33 | 1.14 | 0.02 | -0.89 | N/A | N/A | N/A |
| IM U.S. Broad Market Core Fixed Income (SA+CF) Median | 6.43 | 0.07 | 4.06 | 3.11 | 0.82 | 6.16 | -1.56 | 5.92 | 7.84 |
| Templeton Global Mulisector Plus Trust | 3.47 (96) | -0 .11 (19) | 3.84 (82) | 7.33 (8) | -4.27 (62) | N/A | N/A | N/A | N/A |
| Blmbg. Barc. Global Multiverse | 5.78 | -1.36 | 7.69 | 2.84 | -3.29 | 0.48 | -2.19 | 4.84 | 5.55 |
| Variance | -2.31 | 1.25 | -3.85 | 4.49 | -0.98 | N/A | N/A | N/A | N/A |
| IM Global Fixed Income (MF) Median | 6.54 | -1.75 | 6.81 | 2.92 | -3.83 | 1.91 | -2.52 | 7.33 | 4.01 |
| Total Other Fixed Income | 5.31 | 1.27 | -0.49 | N/A | N/A | N/A | N/A | N/A | N/A |

Capital Point Partners

Franchise Equity Capital Partners II

LBC Credit Partners III

LBC Credit Partners IV

Providence Debt Fund III



| | | | | | Performance (| %) | | | |
|-------------------------------------|-------|-------|-------|-------|---------------|-------|--------|-------|-------|
| | YTD | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 | 2011 |
| Iternative Investments | | | | | | | | | |
| Multi Asset Funds | 9.21 | -2.74 | 0.81 | 0.37 | -1.70 | -6.00 | 12.18 | 9.71 | -4.32 |
| HFRI Fund of Funds Composite Index | 6.15 | -4.02 | 7.77 | 0.51 | -0.27 | 3.37 | 8.96 | 4.79 | -5.72 |
| Variance | 3.06 | 1.28 | -6.96 | -0.14 | -1.43 | -9.37 | 3.22 | 4.92 | 1.40 |
| Double Eagle Capital Ace Fund, Ltd. | 5.63 | -1.09 | 0.81 | -1.53 | 0.78 | 0.17 | 16.13 | 8.92 | -6.81 |
| HFRI Fund of Funds Composite Index | 6.15 | -4.02 | 7.77 | 0.51 | -0.27 | 3.37 | 8.96 | 4.79 | -5.72 |
| Variance | -0.52 | 2.93 | -6.96 | -2.04 | 1.05 | -3.20 | 7.17 | 4.13 | -1.09 |
| BlackRock Multi Asset Fund | 10.03 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| BlackRock Multi Hybrid | 11.62 | -4.19 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Variance | -1.59 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| ther Assets | | | | | | | | | |
| Cash Account | 1.13 | 1.72 | 0.76 | 0.27 | 0.01 | 0.06 | 0.02 | 0.59 | -0.21 |
| Cash Account PE | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Retiree Death Benefit Account | 1.15 | 1.72 | 0.77 | 0.27 | 0.02 | 0.01 | 0.01 | 0.15 | 1.24 |
| ther Alternative Assets | | | | | | | | | |
| Total Real Estate | 2.22 | 5.14 | 2.90 | 0.76 | 5.40 | 31.16 | 10.25 | 7.49 | 6.25 |
| NCREIF Property Index | 3.34 | 6.72 | 6.96 | 7.97 | 13.33 | 11.82 | 10.98 | 10.54 | 14.26 |
| Variance | -1.12 | -1.58 | -4.06 | -7.21 | -7.93 | 19.34 | -0.73 | -3.05 | -8.01 |
| Total Timber Funds | 1.84 | 0.13 | -3.94 | -6.92 | 1.93 | 10.81 | -4.18 | 0.02 | -1.33 |
| NCREIF Timberland Index | 1.15 | 3.21 | 3.63 | 2.59 | 4.97 | 10.48 | 9.69 | 7.75 | 1.57 |
| Variance | 0.69 | -3.08 | -7.57 | -9.51 | -3.04 | 0.33 | -13.87 | -7.73 | -2.90 |

Comparative Performance - IRR Other Alternative Investments As of June 30, 2019

| Comparative Performance - IRR | | | | | | | | | |
|--|----------------------|-------|-------|---------------|-----------------|------------------|------------------|-------------------------------|-------------------|
| | Market Value (\$) | МТН | QTR | YTD | 1 YR | 3 YR | 5 YR | Inception IRR | Inception Date |
| Total Real Estate Investments | 73,458,707 | 1.07 | 1.07 | 2.21 | 4.62 | 2.98 | 10.32 | 6.80 | 07/31/200 |
| Edison Investments | 2,174,630 | 0.39 | 0.72 | 1.45 | 8.00 | 9.97 | 22.93 | 12.07 | 09/30/199 |
| ARES Advisors (V & VI) | 809,144 | 2.68 | 2.58 | 6.11 | 11.00 | 18.38 | 20.29 | 3.98 | 05/31/200 |
| Rockspring Capital Land Funds (I - VI) | 6,895,949 | -2.31 | -2.12 | -2.51 | -7.36 | -6.97 | -0.26 | 1.24 | 11/30/200 |
| , | , , | | | | | | | | |
| INVESCO Real Estate Funds (I & II) | 26,531 | -1.28 | -1.28 | -1.36 | -4.85 | -4.95 | 5.82 | 4.31 | 03/31/200 |
| India Property Fund | 664,192 | 0.00 | 0.00 | -1.83 | -36.42 | -19.71 | -10.82 | -5.45 | 05/24/200 |
| Gainesville Property | 1,818,400 | 0.00 | 0.00 | -0.08 | -0.89 | -4.13 | -7.44 | -7.79 | 01/31/200 |
| Morgan Stanley | 51,663,359 | 1.82 | 1.82 | 3.11 | 7.20 | 8.17 | N/A | 8.25 | 12/31/201 |
| AEW Partners Fund VIII | 6,607,560 | 0.00 | 0.00 | 4.60 | 17.00 | N/A | N/A | 5.29 | 06/26/201 |
| GreenOak US III | 2,798,942 | 0.00 | 0.00 | -2.71 | -6.29 | N/A | N/A | -22.29 | 06/22/201 |
| Total Timber Funds | 21,176,295 | 0.63 | 0.34 | 1.84 | 2.05 | -3.45 | 0.91 | 0.01 | 07/31/200 |
| BTG Pactual 1 | 1,230,092 | -0.24 | -1.91 | -2.14 | 1.79 | -15.40 | 0.38 | 3.94 | 11/30/199 |
| Capitol Timberland Investments | 16,793,777 | 0.82 | 0.57 | 2.61 | 2.96 | -0.80 | 1.99 | 3.57 | 09/30/200 |
| Domain Environmental Investments II | 3,152,426 | 0.00 | 0.00 | -0.41 | -2.10 | -4.97 | -3.81 | -1.47 | 04/30/2008 |
| Total Other Equity | 19,412,314 | 0.00 | -0.36 | 0.78 | -16.84 | N/A | N/A | 0.00 | 01/01/201 |
| Huff Energy Fund | 9,063,469 | 0.00 | 0.00 | 0.00 | -24.09 | -13.06 | -9.45 | -0.28 | 12/31/200 |
| Excelsior Investors, Ltd. | 9,003,409 572,105 | 0.00 | 0.00 | -3.86 | -24.09 10.42 | 14.70 | -9.45 N/A | -0.28 -6.98 | 12/31/200 |
| Franklin Park Private Equity | 9,776,737 | 0.00 | -0.79 | -3.80 2.27 | -1.10 | N/A | N/A | -0.96 -4.63 | 01/31/201 |
| Sail Venture Fund I | 9,770,737 | 0.00 | 0.00 | 0.00 | 0.00 | -98.94 | -94.08 | - -4 .03 -65.31 | 12/31/2010 |
| Sail Venture Fund II | 1 | 0.00 | 0.00 | 0.00 | 0.00 | -98.54 | -94.08 -94.12 | -87.19 | 02/28/200 |
| Sail Pre-Exit Acceleration Fund | 1 | 0.00 | 0.00 | 0.00 | 0.00 | -98.54 -98.54 | -94.12 -94.04 | -91.08 | 01/31/201 |
| | | | | | | | | | |
| Total Other Fixed Income | 31,759,510 | 0.00 | 2.51 | 5.24 | 4.71 | N/A | N/A | 0.00 | 01/03/201 |
| Capital Point Partners | 4,510,519 | 0.00 | 6.52 | 20.30 | 11.96 | -10.22 | -7.99 | 1.22 | 03/31/200 |
| Franchise Equity Capital Partners II | 202,386 | 0.00 | 0.00 | 1.45 | 4.69 | -13.92 | -10.04 | 0.66 | 04/28/200 |
| LBC Credit Partners III | 5,786,526 | 0.00 | 1.77 | -0.13 | -0.59 | 2.58 | 8.02 | 8.43 | 03/07/201 |
| LBC Credit Partners IV | 13,746,770 | 0.00 | 1.59 | 2.24 | 7.23 | N/A | N/A | 9.58 | 09/19/201 |
| Providence Debt Fund III | 7,513,308 | 0.00 | 2.27 | 6.44 | 2.20 | 8.00 | 7.50 | 7.71 | 04/21/201 |



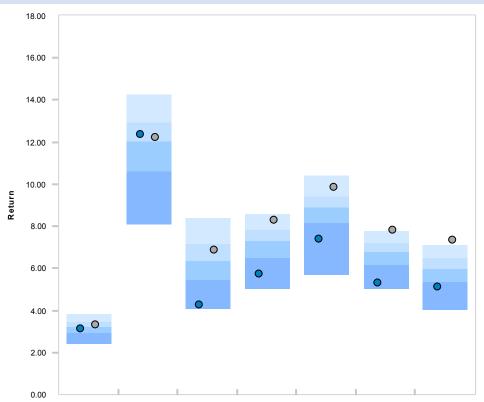
| Private Equity Summary of Partnership | | | | | |
|---------------------------------------|---------------------|-----------------------|-------------------|------------|------------------|
| Partnerships | Drawn Down \$ | Market Value \$ | Distributed \$ | IRR (%) | TVPI Multiple |
| Total Real Estate Investments | | | | | |
| Edison Investments | 8,146,177 | 2,174,630 | 19,871,373 | 12.1 | 2.7 |
| ARES Value Enhancement Fund V | 5,000,000 | 74,015 | 5,893,900 | 5.9 | 1.2 |
| ARES Value Enhancement Fund VI | 5,000,000 | 735,129 | 5,837,197 | 3.2 | 1.3 |
| Rockspring Capital Land Fund I | 3,618,330 | 465,471 | 4,738,306 | 10.1 | 1.4 |
| Rockspring Capital Land Fund II | 7,870,282 | 1,323,979 | 8,961,066 | 2.7 | 1.3 |
| Rockspring Capital Land Fund III | 5,125,000 | 1,061,535 | 5,898,227 | 3.4 | 1.4 |
| Rockspring Capital Land Fund IV | 7,615,498 | - | 9,438,696 | 3.0 | 1.2 |
| Rockspring Capital Land Fund V | 5,165,128 | 2,754,910 | 3,418,960 | 1.6 | 1.2 |
| Rockspring Capital Land Fund VI | 3,502,221 | 1,290,055 | 1,779,021 | -1.3 | 0.9 |
| INVESCO Real Estate Fund II | 7,027,609 | 26,531 | 9,105,937 | 6.8 | 1.3 |
| India Property Fund | 4,354,162 | 664,192 | 2,339,421 | -5.5 | 0.7 |
| Gainesville Property | 5,434,416 | 1,818,400 | 570,711 | -7.8 | 0.4 |
| Morgan Stanley | 40,000,000 | 51,663,359 | - | 8.3 | 1.3 |
| AEW Partners Fund VIII | 8,062,401 | 6,607,560 | 1,776,025 | 5.3 | 1.0 |
| GreenOak US III | 3,333,975 | 2,798,942 | - | -22.3 | 0.8 |
| Total Timber Investments | | | | | |
| BTG Pactual 1 | 8,802,303 | 1,230,092 | 14,412,803 | 3.5 | 1.8 |
| Capitol Timberland Investments | 14,307,251 | 16,793,777 | 3,918,545 | 3.6 | 1.4 |
| Domain Environmental Investments II | 7,580,288 | 3,152,426 | 3,726,648 | -1.5 | 0.9 |

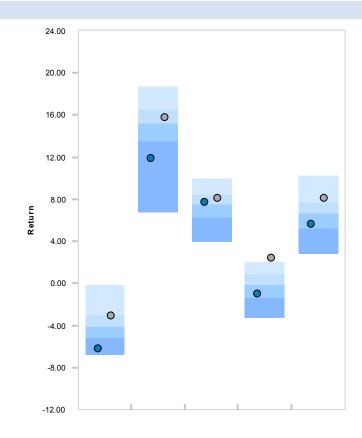


| Partnerships | Drawn Down \$ | Market Value \$ | Distributed \$ | IRR (%) | TVPI Multiple |
|--------------------------------------|---------------------|-----------------------|-------------------|------------|------------------|
| Total Other Equity | | | | | |
| Huff Energy Fund | 11,095,509 | 9,063,469 | 1,786,358 | -0.3 | 1.0 |
| Excelsior Investors, Ltd. | 1,018,466 | 572,105 | 177,395 | -7.0 | 0.7 |
| Franklin Park Private Equity | 10,023,696 | 9,776,737 | 18,581 | -4.6 | 1.0 |
| Sail Venture Fund I | 5,000,000 | 1 | 343,503 | -65.3 | 0.1 |
| Sail Venture Fund II | 5,366,749 | 1 | 688,247 | -87.2 | 0.1 |
| Sail Pre-Exit Acceleration Fund | 4,947,894 | 1 | - | -91.1 | 0.0 |
| Total Other Fixed Income | | | | | |
| Capital Point Partners | 12,058,210 | 4,510,519 | 8,286,461 | 1.2 | 1.1 |
| Franchise Equity Capital Partners II | 14,663,847 | 202,386 | 14,809,912 | 0.7 | 1.0 |
| LBC Credit Partners III | 18,837,140 | 5,786,526 | 16,894,270 | 8.4 | 1.2 |
| LBC Credit Partners IV | 17,000,000 | 13,746,770 | 4,970,782 | 9.6 | 1.1 |
| Providence Debt Fund III | 10,017,001 | 7,513,308 | 5,308,871 | 7.7 | 1.3 |



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





| | QTR | FYTD | 1 YR | 2 YR | 3 YR | 4 YR | 5 YR | | 2018 | 2017 | 2016 | 2015 | 2014 |
|---|-----------|------------|-----------|-----------|-----------|-----------|-----------|---|-----------|---------------|-----------|------------|-----------|
| Total Retirement System | 3.15 (61) | 12.36 (43) | 4.27 (94) | 5.75 (91) | 7.41 (89) | 5.29 (93) | 5.14 (82) | Total Retirement System | -6.18 (90 |) 11.89 (85) | 7.67 (45) | -1.05 (71) | 5.61 (71) |
| Total Fund Policy | 3.31 (42) | 12.21 (46) | 6.87 (32) | 8.30 (11) | 9.87 (14) | 7.83 (5) | 7.33 (4) | Total Fund Policy | -3.12 (28 | 3) 15.79 (40) | 8.04 (37) | 2.43 (4) | 8.08 (20) |
| Median | 3.24 | 12.03 | 6.36 | 7.28 | 8.92 | 6.77 | 5.99 | Median | -4.15 | 15.22 | 7.47 | -0.16 | 6.62 |

| Comparative Performance | | | | | | |
|--|-----------|------------|-----------|-----------|------------|-----------|
| | 1 Qtr | 1 Qtr | 1 Qtr | 1 Qtr | 1 Qtr | 1 Qtr |
| | Ending | Ending | Ending | Ending | Ending | Ending |
| | Mar-2019 | Dec-2018 | Sep-2018 | Jun-2018 | Mar-2018 | Dec-2017 |
| Total Retirement System | 8.93 (33) | -9.73 (92) | 2.81 (40) | 1.14 (45) | -0.04 (35) | 3.13 (77) |
| Total Fund Policy All Public Plans-Total Fund Median | 8.61 (45) | -8.10 (65) | 3.64 (10) | 1.90 (15) | -0.17 (40) | 4.17 (17) |
| | 8.42 | -7.55 | 2.58 | 1.03 | -0.32 | 3.61 |



3 Yr Rolling Under/Over Performance - 5 Years Total Retirement System (%) 0.91 0.08 0.8 0.8 Over Performance Under Performance 4.0 8.0 12.0 0.0 16.0 Total Fund Policy (%) X Latest Date Under Performance Earliest Date

3 Yr Rolling Percentile Ranking - 5 Years 00000000000 Return Percentile Rank 25.0 50.0 75.0 100.0 3/16 3/17 9/18 6/19 3/15 9/16 9/17 3/18 5-25 25-Median Median-75 75-95 **Total Period** Count Count Count Count Total Retirement System 20 0 (0%) 0 (0%) 3 (15%) 17 (85%)

15 (75%)

5 (25%)

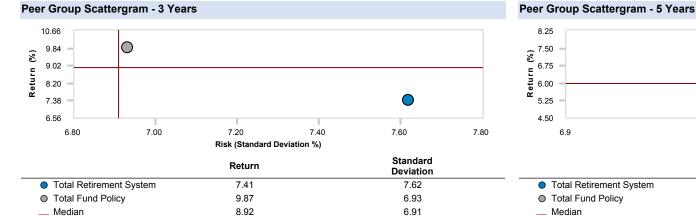
0 (0%)

7.14

7.01

7.06

0 (0%)



| 8.25 | | | | |
|----------------------------------|------------------|-------------|-----------------------|-----|
| ⊋ 7.50 – | 0 | | | |
| <u>e</u> 6.75 – | · · | | | |
| 7.50 = 6.75 = 6.75 = 6.00 = 6.00 | | | | |
| 5.25 | | | | |
| 4.50 | | | | |
| 6.9 | 7.0 | 7.1 | | 7.2 |
| | Risk (Standard D | eviation %) | | |
| | Return | | Standard Deviation | |

5.14

7.33

5.99

| Historical Statistics - 3 | Years | | | | | | | |
|---------------------------|-------------------|-------------------------|---------------------------|-------|----------------------|-----------------|------|------------------|
| | Tracking Error | Up Market Capture | Down Market Capture | Alpha | Information Ratio | Sharpe Ratio | Beta | Downside Risk |
| Total Retirement System | 1.34 | 90.14 | 112.80 | -3.02 | -1.67 | 0.80 | 1.09 | 5.22 |
| Total Fund Policy | 0.00 | 100.00 | 100.00 | 0.00 | N/A | 1.20 | 1.00 | 4.49 |

Total Fund Policy

Total Retirement System

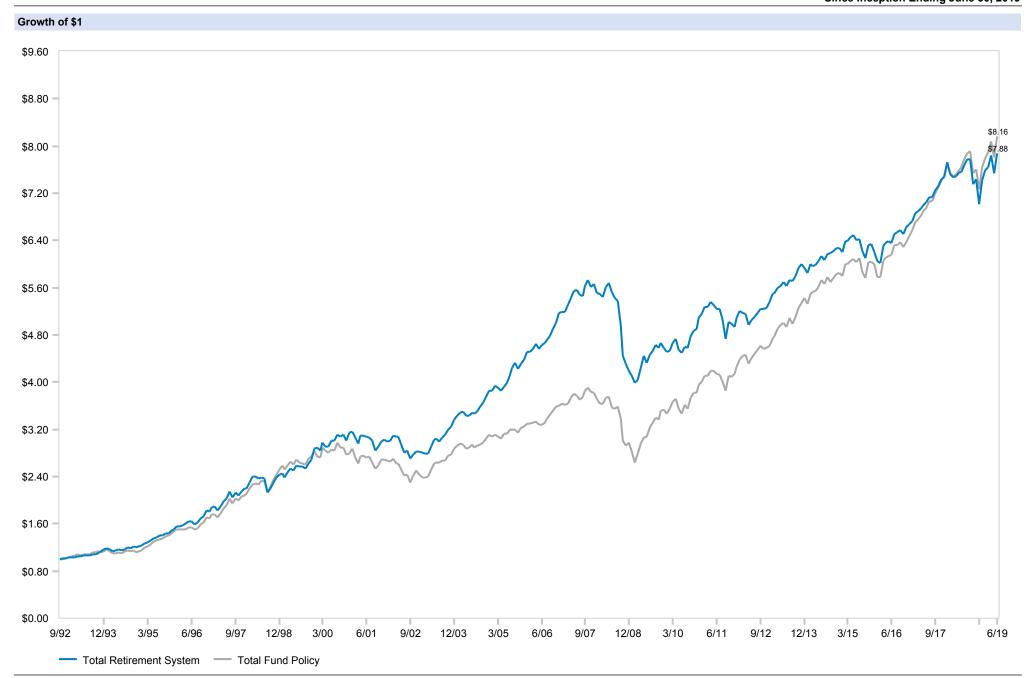
Total Fund Policy

__ Median

20

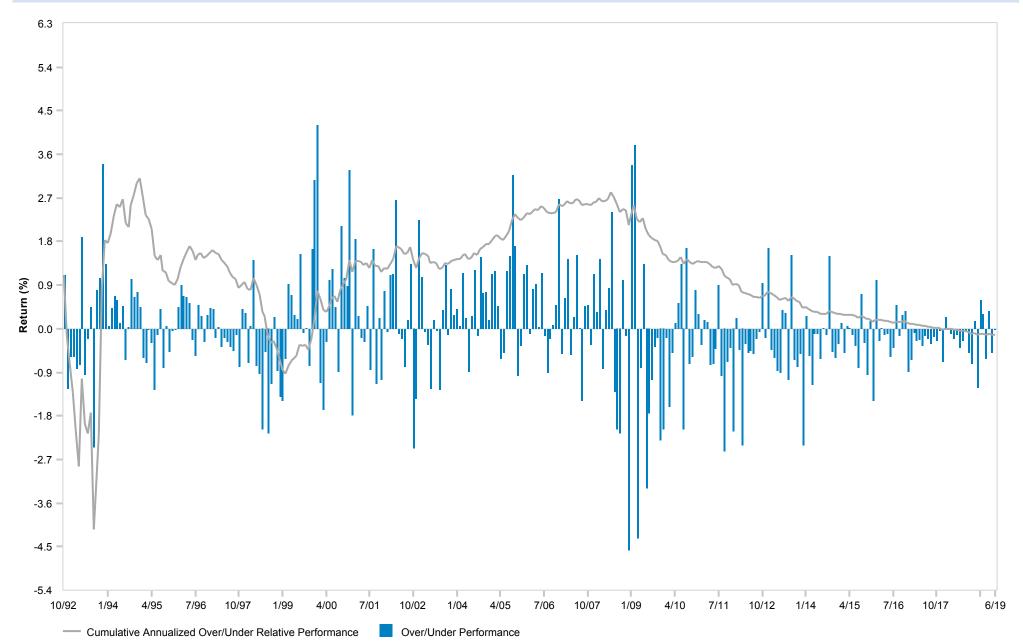
| | Tracking Error | Up Market Capture | Down Market Capture | Alpha | Information Ratio | Sharpe Ratio | Beta | Downside Risk |
|-------------------------|-------------------|-------------------------|---------------------------|-------|----------------------|-----------------|------|------------------|
| Total Retirement System | 1.67 | 86.32 | 103.44 | -1.97 | -1.23 | 0.62 | 0.99 | 4.69 |
| Total Fund Policy | 0.00 | 100.00 | 100.00 | 0.00 | N/A | 0.93 | 1.00 | 4.37 |











Calculation based on monthly periodicity.



| Total Fund Compliance: | Yes | No | N/A |
|--|-----|----|-----|
| The total plan return equaled or exceeded the total plan benchmark over the trailing three and five year periods. | | • | |
| The total plan return ranked within the top 50th percentile of its peer group over the trailing three and five year periods. | | • | |
| The total plan return equaled or exceeded the actuarial earnings assumption of 7.25% over the three and five year periods. | | • | |
| | | | |
| | | | |
| | | | |

| Equity Compliance: | Yes | No | N/A |
|--|-----|----|-----|
| Total domestic equity return equaled or exceeded the benchmark over the trailing three and five year periods. | | • | |
| Total domestic equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods. | • | | |
| Total international equity return equaled or exceeded the benchmark over the trailing three and five year periods. | | • | |
| Total international equity return ranked within the top 50th percentile of its peer group over the trailing three and five year periods. | | • | |
| The total equity allocation was less than or equal to 85% but greater than or equal to 35% of the total fund value at market. | • | | |
| The total domestic equity allocation was less than or equal to 50% but greater than or equal to 30% of the total fund value at market. | • | | |
| The total international equity allocation was less than or equal to 25% but greater than or equal to 5% of the total fund value at market. | • | | |
| | | | |

| Fixed Income Compliance: | Yes | No | N/A |
|---|-----|----|-----|
| Total core fixed income return equaled or exceed the benchmark over the trailing three and five year periods. | • | | |
| Total core fixed income return ranked within the top 50th percentile of its peer group over the trailing three and five year periods. | • | | |
| Total non-US fixed income return equaled or exceed the benchmark over the trailing three and five year periods. | • | | |
| Total non-US fixed income return ranked within the top 50th percentile of its peer group over the trailing three and five year periods. | | • | |
| The total fixed income allocation was less than or equal to 45% but greater than or equal to 5% of the total fund value at market. | • | | |
| The core fixed income allocation was less than or equal to 20% but greater than or equal to 5% of the total fund value at market. | • | | |
| The total non-US fixed income allocation was less than or equal to 15% of the total fund value at market. | • | | |
| | | | |



| | Bai | Baird Mid Cap Nuance MC | | Kennedy SC | | sc | Driehaus | | ıs | TS&W | | 1 | | | |
|---|-----|-------------------------|-----|------------|----|-----|----------|----|-----|------|----|-----|-----|----|-----|
| | | | | | | | | | | | | | | | |
| | Yes | No | N/A | Yes | No | N/A | Yes | No | N/A | Yes | No | N/A | Yes | No | N/A |
| Manager outperformed the index over the trailing three and five year periods. | • | | | | | • | | • | | • | | | | • | |
| Manager ranked within the top 50%-tile over trailing three and five year periods. | | • | | | | • | | • | | • | | | | • | |
| Less than four consecutive quarters of under performance relative to the benchmark. | • | | | • | | | • | | | • | | | | • | |
| Three and five-year downside capture ratios less than 100% | • | | | | | • | • | | | • | | | | • | |
| Manager maintained style consistency for the mandate | • | | | • | | | • | | | • | | | • | | |
| Manager maintained low turnover in portfolio team or senior management. | • | | | • | | | • | | | • | | | • | | |
| Benchmark and index remained the same for the portfolio. | • | | | • | | | • | | | • | | | • | | |
| Manager sustained compliance with IPS. | • | | | • | | | • | | | • | | | • | | |
| No investigation by SEC was conducted on the manager. | • | | | • | | | • | | | • | | | • | | |
| Manager did not experience significant asset flows into or out of the company. | • | | | • | | | • | | | • | | | • | | |
| Manager is charging the same fee. | • | | | • | | | • | | | • | | | • | | |
| No reported servicing issues with manager. | • | | | • | | | • | | | • | | | • | | |

| | | LMCG | | Orleans Templeton | | on | | | | | | | | | |
|---|-----|------|-----|-------------------|----|-----|-----|----|-----|-----|----|-----|-----|----|-----|
| | Yes | No | N/A | Yes | No | N/A | Yes | No | N/A | Yes | No | N/A | Yes | No | N/A |
| Manager outperformed the index over the trailing three and five year periods. | | • | | • | | | • | | | | | | | | |
| Manager ranked within the top 50%-tile over trailing three and five year periods. | | • | | | • | | • | | | | | | | | |
| Less than four consecutive quarters of under performance relative to the benchmark. | | • | | • | | | • | | | | | | | | |
| Three and five-year downside capture ratios less than 100% | • | | | • | | | • | | | | | | | | |
| Manager maintained style consistency for the mandate | • | | | • | | | • | | | | | | | | |
| Manager maintained low turnover in portfolio team or senior management. | • | | | • | | | • | | | | | | | | |
| Benchmark and index remained the same for the portfolio. | • | | | • | | | • | | | | | | | | |
| Manager sustained compliance with IPS. | • | | | • | | | • | | | | | | | | |
| No investigation by SEC was conducted on the manager. | • | | | • | | | • | | | | | | | | |
| Manager did not experience significant asset flows into or out of the company. | • | | | • | | | • | | | | | | | | |
| Manager is charging the same fee. | • | | | • | | | • | | | | | | | | |
| No reported servicing issues with manager. | • | | | • | | | • | | | | | | | | |

^{*}The 3 & 5 year periods used for evaluation represent the historical performance of composite portfolios. As such, this data represents a combination of current managers, strategies and allocations as well as the realized performance of terminated portfolios and prior allocation strategies. The peer universes used are gross of fees therefore the manager returns used for the purpose of measuring compliance are also gross.



Austin Police Retirement System Investment Pricing Summary as of 6/30/2019

| Plan | Most Recent Statement Date | Statement Frequency | Statement Source |
|---|-------------------------------|------------------------|------------------|
| Total Retirement System | | | |
| Total Equity | | | |
| Total Domestic Equity | | | |
| NT Collective Russell 3000 Fund | 6/30/2019 | Monthly | Custodian |
| Baird Mid Cap Growth | 6/30/2019 | Monthly | Custodian |
| Nuance Mid Cap Value | 6/30/2019 | Monthly | Custodian |
| Kennedy Small Cap Value | 6/30/2019 | Monthly | Custodian |
| Total International Equity | | | |
| Thompson Siegel & Walmsley | 6/30/2019 | Monthly | Custodian |
| Driehaus International Small Cap Growth | 6/30/2019 | Monthly | Custodian |
| LMCG Emerging Markets | 6/30/2019 | Monthly | Custodian |
| Total Other Equity | | | |
| Huff Energy Fund | 12/31/2017 | Quarterly | Manager |
| Sail Venture Fund I | 12/31/2014 | Quarterly | Manager |
| Sail Venture Fund II | 12/31/2014 | Quarterly | Manager |
| Sail Pre-Exit Acceleration Fund | 12/31/2014 | Quarterly | Manager |
| Excelsior Investors, Ltd. | 11/30/2018 | Monthly | Manager |
| Franklin Park | 3/31/2019 | Quarterly | Manager |
| Total Fixed Income | | | |
| Total Fixed Income Funds | | | |
| Orleans Capital | 6/30/2019 | Monthly | Custodian |
| Templeton Global Multisector Plus | 6/30/2019 | Monthly | Custodian |

Austin Police Retirement System Investment Pricing Summary as of 6/30/2019

| Plan | Most Recent Statement Date | Statement Frequency | Statement Source |
|--|-------------------------------|------------------------|---------------------|
| Total Other Fixed Income Funds | | | |
| Capital Point Partners | 3/31/2019 | Quarterly | Manager |
| Franchise Equity Capital Partners II | 3/31/2019 | Quarterly | Manager |
| LBC Credit Partners III | 3/31/2019 | Quarterly | Manager |
| LBC Credit Partners IV | 3/31/2019 | Quarterly | Manager |
| Providence Debt Fund III | 3/31/2019 | Quarterly | Manager |
| Total Alternatives | | | |
| Total Real Estate (Composite)(6091100) | | | |
| Rockspring Capital Land Funds (I - VI) | 6/30/2019 | Quarterly | Manager |
| Rockspring Capital Land Fund I | 6/30/2019 | Quarterly | Manager |
| Rockspring Capital Land Fund II | 6/30/2019 | Quarterly | Manager |
| Rockspring Capital Land Fund III | 6/30/2019 | Quarterly | Manager |
| Rockspring Capital Land Fund V | 6/30/2019 | Quarterly | Manager |
| Rockspring Capital Land Fund VI | 6/30/2019 | Quarterly | Manager |
| Ares Advisors (V & VI) | 6/30/2019 | Quarterly | Manager |
| Ares Value Enhancement Fund V | 6/30/2019 | Quarterly | Manager |
| Ares Value Enhancement Fund VI | 6/30/2019 | Quarterly | Manager |
| INVESCO Real Estate Fund II | 6/30/2019 | Quarterly | Manager |
| Edison Investments | 6/30/2019 | Quarterly | Manager |
| India Property Fund | 3/31/2019 | Quarterly | Manager |
| Gainesville Property | 12/31/2017 | Quarterly | Manager |
| Morgan Stanley | 6/30/2019 | Quarterly | Manager |

Austin Police Retirement System Investment Pricing Summary as of 6/30/2019

| Plan | Most Recent Statement Date | Statement Frequency | Statement Source |
|-------------------------------------|-------------------------------|---------------------|---------------------|
| AEW Parters VIII | 3/31/2019 | Quarterly | Manager |
| GreenOak US III | 3/31/2019 | Quarterly | Manager |
| Total Timber Funds | | | |
| BTG Pactual 1 | 3/31/2019 | Quarterly | Manager |
| Capitol Timberland Investments | 6/30/2019 | Quarterly | Manager |
| Domain Environmental | 3/31/2019 | Quarterly | Manager |
| Total Multi Asset Funds | | | |
| Double Eagle Capital Ace Fund, Ltd. | 6/30/2019 | Monthly | Manager |
| BlackRock Multi Asset | 6/30/2019 | Monthly | Manager |
| Cash Account | 6/30/2019 | Monthly | Custodian |
| PE Cash Account | 6/30/2019 | Monthly | Custodian |
| Retiree Death Benefit Account | 6/30/2019 | Monthly | Custodian |
| APRS Building | | | |

| | Estimated Annual Fee (%) | Market Value (\$) | Estimated Annual Fee (\$) | Fee Schedule |
|--|--------------------------------|----------------------|---------------------------------|--|
| Total Domestic Equity | 0.32 | 391,862,309 | 1,236,811 | |
| NT Collective Russell 3000 Index | 0.02 | 236,495,317 | 47,299 | 0.02 % of Assets |
| Baird Mid Cap Growth | 0.68 | 62,402,053 | 424,412 | 0.70 % of First \$50 M 0.60 % Thereafter |
| Nuance Mid Cap Value | 0.67 | 50,585,585 | 341,306 | 0.70 % of First \$25 M 0.65 % Thereafter |
| Kennedy Small Cap Value | 1.00 | 42,379,355 | 423,794 | 1.00 % of Assets |
| Total International Equity | 0.71 | 111,702,443 | 792,542 | |
| Thompson Siegel & Walmsley | 0.65 | 78,363,327 | 509,362 | 0.65 % of Assets |
| Driehaus International Small Cap Growth | 1.00 | 13,254,732 | 132,547 | 1.00 % of Assets |
| LMCG Emerging Markets Fund | 0.75 | 20,084,383 | 150,633 | 0.75 % of Assets |
| Total Other Equity | 0.95 | 19,412,314 | 184,442 | |
| Huff Energy Fund | 1.65 | 9,063,469 | 150,000 | |
| Sail Venture Fund I | 0.00 | 1 | - | |
| Sail Venture Fund II | 0.00 | 1 | - | |
| Sail Pre-Exit Acceleration Fund | 0.00 | 1 | - | |
| Excelsior Investors, Ltd. | 1.75 | 572,105 | 10,000 | |
| *Franklin Park Private Equity *In addition to the 25 bps management fee, a 1% commitment fee for the first year of that commitment and can potentially earn an incentive fee of 5% after APRS receives an 8% IRR preferred return on its investment. | 0.25 | 9,776,737 | 24,442 | 0.25 % of Assets |
| Total Fixed Income | 0.54 | 117,724,381 | 636,584 | |
| Orleans Capital | 0.15 | 46,754,751 | 70,132 | 0.15 % of Assets |
| Templeton Global Mulisector Plus Trust | 0.62 | 39,210,121 | 243,103 | 0.62 % of First \$50 M 0.51 % of Next \$50 M 0.45 % Thereafter |
| Total Other Fixed Income | 1.02 | 31,759,510 | 323,349 | |
| Capital Point Partners | 0.00 | 4,510,519 | 2 | |
| Franchise Equity Capital Partners II | 2.00 | 202,386 | 4,048 | |
| LBC Credit Partners III | 1.25 | 5,786,526 | 72,332 | |
| LBC Credit Partners IV | 1.25 | 13,746,770 | 171,835 | |
| Providence Debt Fund III | 1.00 | 7,513,308 | 75,133 | |



| | Estimated Annual Fee (%) | Market Value (\$) | Estimated Annual Fee (\$) | Fee Schedule |
|--|--------------------------------|----------------------|---------------------------------|------------------|
| Total Deal Fatete | 0.00 | 72.450.707 | 740.054 | |
| Total Real Estate | 0.98 | 73,458,707 | 718,054 | 4.05.0/ -5.4 |
| Rockspring Capital Land Fund I | 1.25 | 465,471 | 5,818 | 1.25 % of Assets |
| Rockspring Capital Land Fund II | 1.25 | 1,323,979 | 16,550 | 1.25 % of Assets |
| Rockspring Capital Land Fund III | 1.25 | 1,061,535 | 13,269 | 1.25 % of Assets |
| Rockspring Capital Land Fund V | 1.25 | 2,754,910 | 34,436 | 1.25 % of Assets |
| Rockspring Capital Land Fund VI | 1.25 | 1,290,055 | 16,126 | 1.25 % of Assets |
| ARES Value Enhancement Fund V | 0.85 | 74,015 | 629 | 0.85 % of Assets |
| ARES Value Enhancement Fund VI | 0.85 | 735,129 | 6,249 | 0.85 % of Assets |
| INVESCO Real Estate Fund II | 1.50 | 26,531 | 398 | 1.50 % of Assets |
| Edison Investments | 1.00 | 2,174,630 | 21,746 | 1.00 % of Assets |
| India Property Fund | 2.00 | 664,192 | 13,284 | 2.00 % of Assets |
| Gainesville Property | 0.00 | 1,818,400 | - | 0.00 % of Assets |
| Morgan Stanley | 0.90 | 51,663,359 | 464,970 | 0.90 % of Assets |
| AEW Partners Fund VIII | 1.25 | 6,607,560 | 82,595 | 1.25 % of Assets |
| GreenOak US III | 1.50 | 2,798,942 | 41,984 | 1.50 % of Assets |
| Total Timber Funds | 1.04 | 21,176,295 | 219,644 | |
| BTG Pactual 1 | 1.00 | 1,230,092 | 12,301 | 1.00 % of Assets |
| Capitol Timberland Investments | 1.00 | 16,793,777 | 167,938 | 1.00 % of Assets |
| Domain Environmental Investments II | 1.25 | 3,152,426 | 39,405 | 1.25 % of Assets |
| Total Multi Asset Funds | 0.66 | 57,127,843 | 379,235 | |
| Double Eagle Capital Ace Fund, Ltd. (1% Mgt Fee & 10% of profit after a 7% retn) | 1.00 | 12,466,630 | 124,666 | 1.00 % of Assets |
| BlackRock Multi Asset Fund | 0.57 | 44,661,212 | 254,569 | 0.57 % of Assets |
| Cash Account | 0.00 | 4,716,434 | - | 0.00 % of Assets |
| Cash Account PE | | - | - | 0.00 % of Assets |
| Retiree Death Benefit Account | 0.00 | 1,452,962 | - | 0.00 % of Assets |
| APRS Building | 0.00 | 1,438,036 | - | 0.00 % of Assets |
| Total Retirement System | 0.52 | 800,071,724 | 4,167,312 | |



Total Fixed Income Policy

| | | Total Equity Folicy | | | |
|---|------------|---|------------|-----------------------------------|---------------|
| Allocation Mandate | Weight (%) | Allocation Mandate V | Veight (%) | Allocation Mandate | Weight (%) |
| Jan-1976 | | Jan-1979 | | Dec-1993 | |
| S&P 500 Index | 60.00 | Russell 3000 Index | 67.00 | Blmbg. Barc. U.S. Aggregate Index | 100.00 |
| Blmbg. Barc. U.S. Aggregate Index | 40.00 | MSCI World ex U.S. | 33.00 | 30 0 | |
| | | | | Jan-1999 | |
| Jan-2014 | | Jan-2017 | | Blmbg. Barc. U.S. Aggregate Index | 50.00 |
| Russell 3000 Index | 30.00 | Russell 3000 Index | 75.00 | Blmbg. Barc. Global Multiverse | 50.00 |
| MSCI World ex U.S. | 15.00 | MSCI World ex U.S. | 25.00 | | |
| Blmbg. Barc. U.S. Aggregate Index | 5.00 | | | | |
| Blmbg. Barc. Global Multiverse | 5.00 | | | | |
| NCREIF Property Index | 15.00 | | | | |
| NCREIF Timberland Index (Monthly) | 5.00 | | | | |
| Russell 3000 + 300 bps | 12.50 | | | | |
| HFRI Fund of Funds Composite Index | 10.00 | | | | |
| FTSE 3 Month T-Bill | 2.50 | | | | |
| Jan-2017 | | | | | |
| Russell 3000 Index | 45.00 | | | | |
| MSCI World ex U.S. | 15.00 | Total Private Equity Policy | | Wellington Energy Hybrid | |
| Blmbg. Barc. U.S. Aggregate Index | 5.00 | Allocation Mandate | Weight (%) | Allocation Mandate | Weight (%) |
| Blmbg. Barc. Global Multiverse | 5.00 | May-2013 | | Jan-1999 | 11019111 (10) |
| NCREIF Property Index | 15.00 | Russell 3000 Index | 100.00 | Russell 3000 Energy SP | 100.00 |
| NCREIF Timberland Index (Monthly) | 2.50 | Russell 3000 Illuex | 100.00 | Russell 3000 Ellergy SF | 100.00 |
| HFRI Fund of Funds Composite Index | 5.00 | Jan-2017 | | Oct-2015 | |
| Credit Suisse Leveraged Loan Index | 5.00 | Credit Suisse Leveraged Loan Index | 67.00 | S&P 500 Energy | 100.00 |
| Cambridge Associates Private Equity Index | 2.50 | Cambridge Associates Private Equity Ind | | 3, | |
| Jan-2018 | | | | | |
| Russell 3000 Index | 42.50 | | | | |
| MSCI World ex U.S. | 15.00 | | | | |
| Blmbg. Barc. U.S. Aggregate Index | 10.00 | | | | |
| Blmbg. Barc. Global Multiverse | 5.00 | | | | |
| NCREIF Property Index | 15.00 | | | | |
| HFRI Fund of Funds Composite Index | 5.00 | | | | |
| Credit Suisse Leveraged Loan Index | 5.00 | | | | |
| Cambridge Associates Private Equity Index | 2.50 | | | | |
| Total Hedge Fund Policy | | Total Timber Policy | | Total Real Estate Policy | |
| Allocation Mandate | Weight (%) | Allocation Mandate | Weight (%) | Allocation Mandate | Weight (%) |
| | <u> </u> | | - ' ' | | <u> </u> |
| Jan-1990 | | Apr-1987 | | Jan-1978 | |

Total Equity Policy



Total Fund Policy

- All market value and performance information through April 30, 2013 is provided by the previous consultant, CSG.
- All historical return data is presented Net of Fees.
- Best efforts have been made to acquire the most accurate data but due to reporting lag times Private Fixed Income, Real Estate, Timber, Private Equity and Hedge Fund information may not be current. Market values for these investments are subject to revision in future reports as more current information becomes available.
- NCREIF Property Index is updated quarterly. One month return information is shown as 0.00%.
- Effective May 1, 2013 the Sail Xtreme APRS Fund, LP and Xtreme Power, Inc. investments have been reclassified as Private Fixed Income under the Alternative Investments category. Prior to that they were listed as Fixed Income by the prior consultant.
- Returns for all Real Estate, Timber and Private Equity managers are Internal Rates or Return. All other managers are Time Weighted Rates of Return.
- Actuarial Assumption is currently 8.0%
- Prior to 1/1/2009 Capital Point and Clinton Magnolia performance is included in the Total Fixed Income performance.
- The information contained in this report is obtained from third party sources and is not warranted to be accurate, complete or timely. All returns and market values are
 preliminary and subject to revision in future reports upon final reconciliation.
- Pricing may differ between the custodian and manager for reasons beyond the control of AndCo Consulting. Every effort will be made to use the most accurate and timely information available when the report is generated.
- * Xtreme Power declared bankruptcy in January 2014. After discussions with the Fund's Accountant, Auditor and Legal Counsel the investments in this company have been marked down to \$0.00 as of December 31st.

 If any proceeds are recovered in the bankruptcy process they will be credited to the Fund at that time.
- As of 12/31/14 the Excelsior Investors, LTD position was reclassified to from the Hedge Fund composite to the Private Equity composite.
- Capital Point Partners market value sourced from the March 2015 Capital Point Partners Quarterly Portfolio Review.



| 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.



AndCo compiled this report for the sole use of the client for which it was prepared. AndCo is responsible for evaluating the performance results of the Total Fund along with the investment advisors by comparing their performance with indices and other related peer universe data that is deemed appropriate. AndCo uses the results from this evaluation to make observations and recommendations to the client.

AndCo uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. AndCo analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides AndCo with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides AndCo with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause AndCo to believe that the information presented is significantly misstated.

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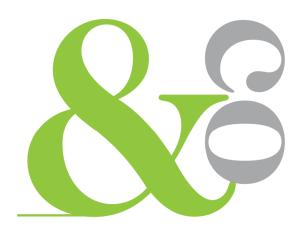
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