

Investment Performance Review
Period Ending March 31, 2017

Village of Winnetka Police Pension Fund

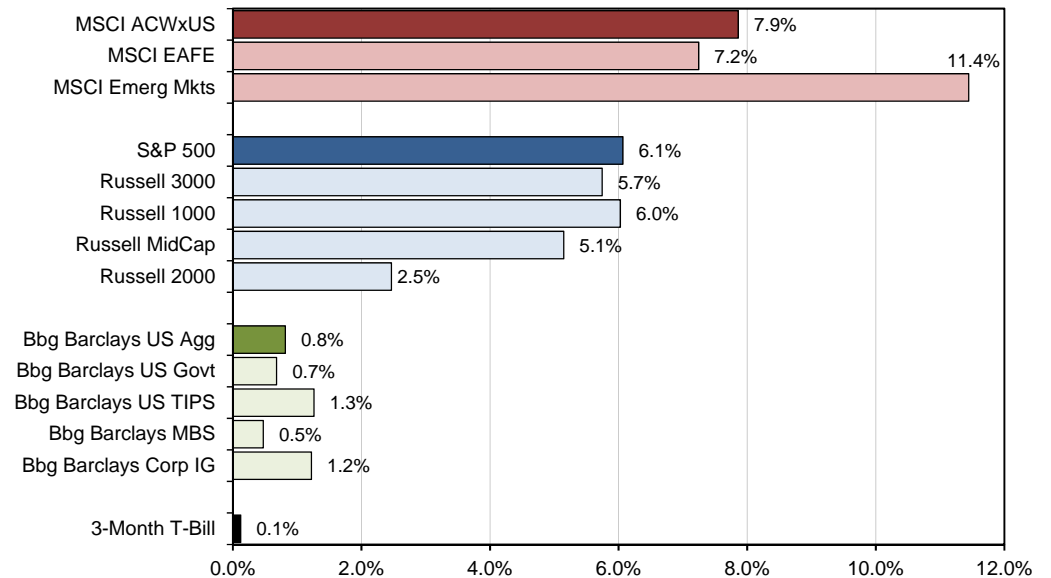


1st Quarter 2017 Market Environment

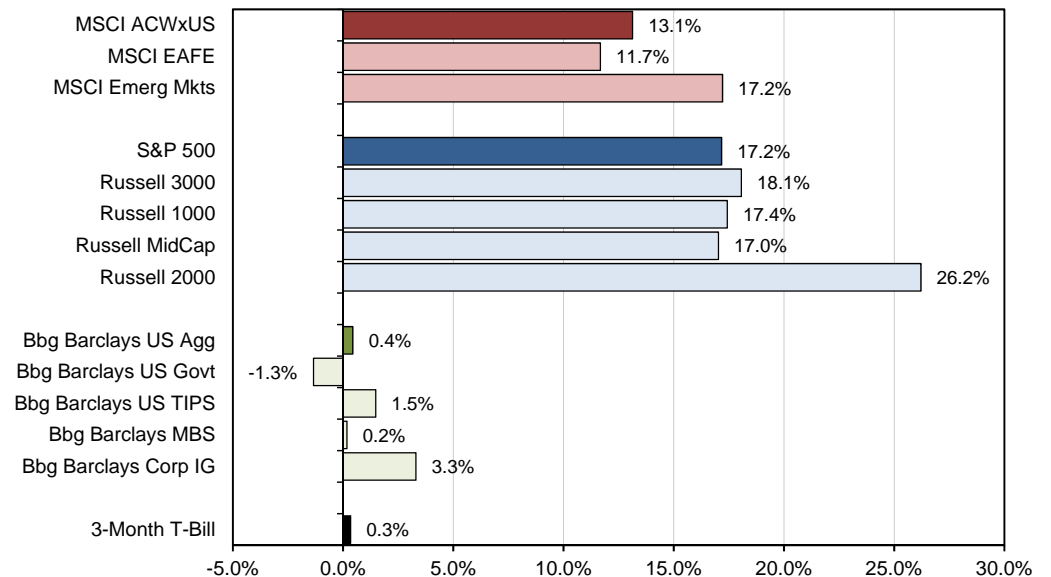


- Returns for the 1st quarter of 2017 were positive across equity and fixed income indices. Broad domestic and international equity market performance was fueled by largely improving global economic data. While domestic equity indices trailed international equity indices due to U.S. Dollar (USD) weakness, performance was solid on the back of Trump administration campaign promises for pro-business policy initiatives, government regulation rollbacks, tax reform, and domestic infrastructure investment. Despite concerns over the duration of the equity market's current run, this policy optimism caused many major domestic indices to reach all-time highs at various points during the quarter. Large cap stocks reversed a recent trend of small cap equity outperformance during the quarter with the S&P 500 Index returning 6.1% versus a weaker 2.5% return for the Russell 2000 Index. Despite their relatively muted quarterly performance, small cap stocks still handily outperformed large cap issues over the 1-year period with the Russell 2000 returning 26.2% versus a 17.2% return for the S&P 500.
- International equity market benchmarks had an excellent start to calendar 2017, outpacing U.S. markets and posting substantial returns for the 1st quarter. Both developed and emerging market international equities experienced tailwinds from increasingly positive global macroeconomic data, a weakening USD and ongoing accommodative global central bank policies. Emerging market stocks were the greatest beneficiaries of these positive trends, outperforming their developed market counterparts by more than 5% for the quarter. The MSCI Emerging Market Index returned a solid 11.4% for the quarter and 17.2% for 1-year period. While weaker by comparison, the developed market MSCI EAFE Index also posted robust performance returning 7.2% for the quarter and 11.7% over the 1-year period.
- In March, the continued pickup in inflation measures coupled with other positive economic data pushed the Federal Open Market Committee (FOMC) to maintain its commitment to remove policy accommodation from the financial system. During the quarter, the FOMC increased the Fed Funds rate by 0.25% for the second time in six months. Since the increase was largely telegraphed by Fed Chair Janet Yellen, financial markets had already priced in a high likelihood of a rate hike, and thus, market's reaction to the news was subdued. Outside of an unforeseen pickup in economic growth or downside shock, markets are currently pricing in two additional rate increase for 2017. All investment grade bond benchmarks were modestly positive for the quarter. Corporate and Treasury Inflation Protected Securities (TIPS) benefitted the most from the current economic backdrop and outperformed other major bond sectors. The broad market Bloomberg Barclays U.S. Aggregate Index returned 0.8% for the quarter and 0.4% over the 1-year period.

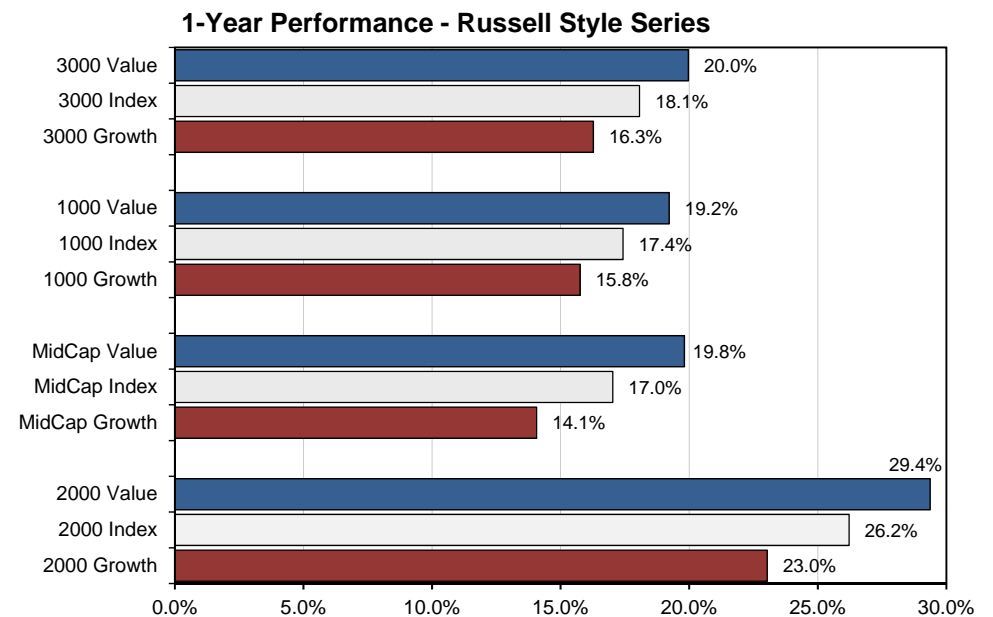
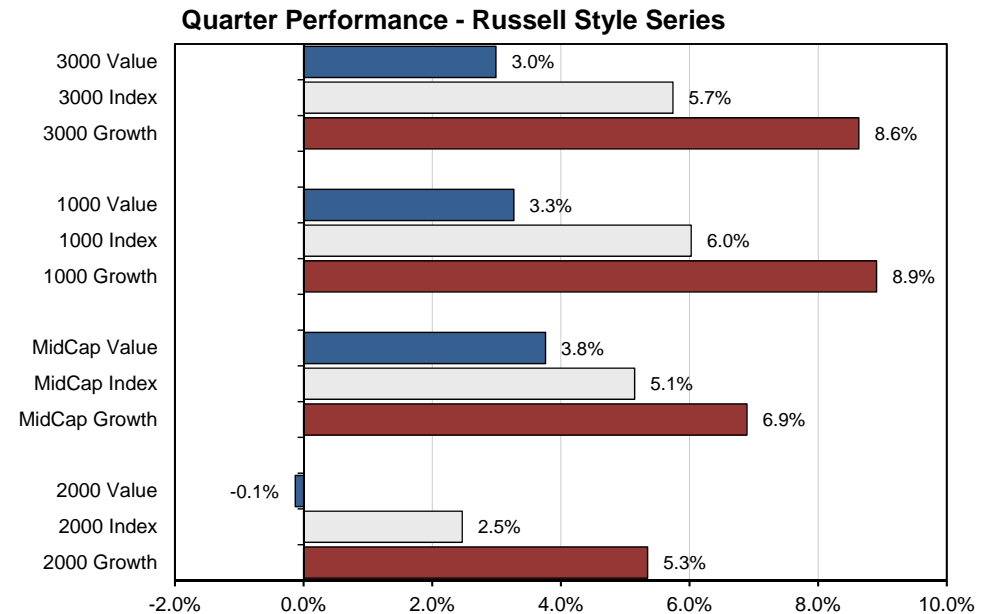
Quarter Performance



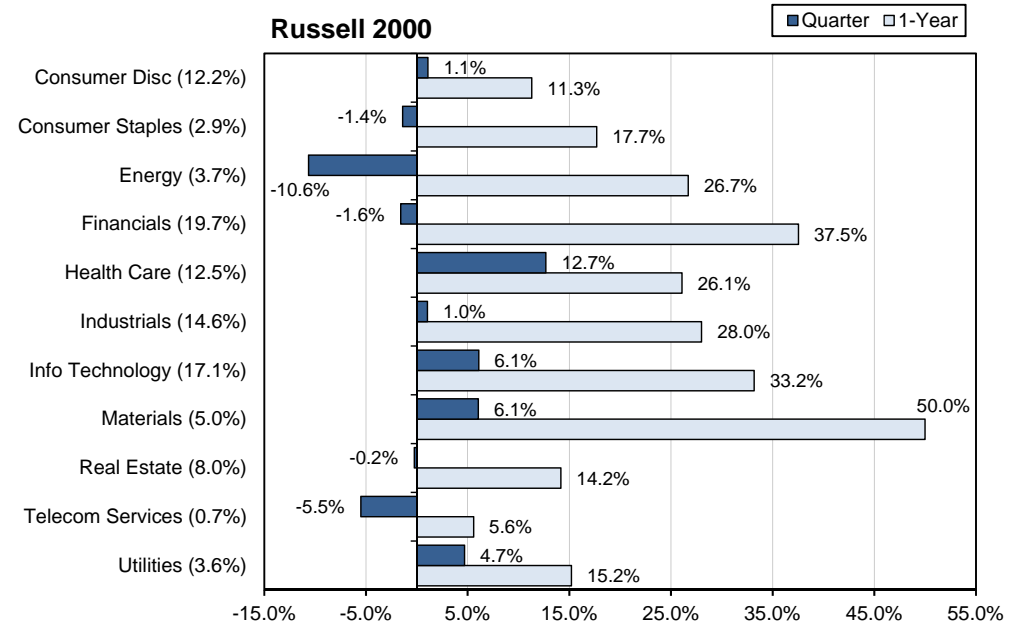
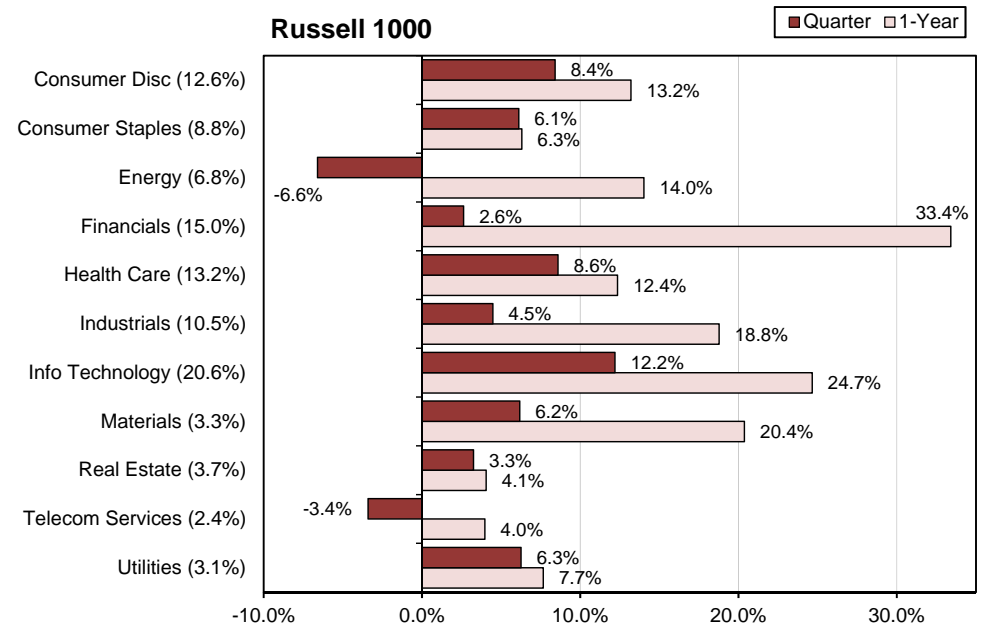
1-Year Performance



- U.S. equity index returns were largely positive across the style and capitalization spectrum for the 1st quarter and the trailing 1-year period. Domestic equity index returns were driven by optimism surrounding the Trump administration's previously referenced pro-growth agenda. Markets were also driven higher by positive trends in economic data reported throughout the period including improvements in consumer and business sentiment, corporate earnings, and employment. The only major setback to the 1st quarter's optimism was the GOP's failure to repeal the Affordable Care Act in late March. This event raised market concerns surrounding the expediency and impact of future promised policy changes.
- Large cap stocks were the best performing capitalization segment for the quarter for both core and growth issues while mid cap equities posted a slight premium relative to other capitalizations within the value spectrum. The large-cap Russell 1000 Index returned a solid 6.0% for the quarter while the small cap Russell 2000 Index returned a more modest 2.5%. This return spread was partially due to market speculation that potential foreign trade restrictions expected to disproportionately impact larger companies may not be fully realized. Conversely, over the 1-year period, small cap issues still maintain a considerable performance advantage, with the small cap Russell 2000 returning 26.2% versus a return of 17.4% for the large cap Russell 1000.
- Index sector allocations were a substantial contributor to growth index outperformance during the 1st quarter as growth indices benefitted from significant underweights to the energy and financials sectors, both of which lagged the broad index return. Growth benchmarks also benefitted from greater exposure to the information technology and health care sectors which posted strong sector returns. The Russell 2000 Value Index's return of -0.1% was the worst performing style index for the period as well as the only index to post a negative return. Like capitalization performance differentials, the 1st quarter's style performance trend reverses when viewed over the 1-year period with value indices outperforming growth benchmarks across all market capitalization levels.
- Domestic equity valuations appear stretched relative to historical levels based on Forward Price/Earnings ratios (P/E), with even the most reasonably valued indices trading above their historical P/E valuations. Index P/E valuations range from 112% and 127% of their respective 15-year P/E averages. The mid cap growth and small cap value indices appear the most inexpensive and the large cap value and small cap growth look the most overvalued.



- Sector performance within the Russell 1000 Index was largely positive for the 1st quarter. Six of eleven economic sectors outpaced the Russell 1000 Index return, and nine of eleven sectors posted gains during the period. Energy (-6.6%) was the worst performing sector as crude prices fell throughout the quarter on fears of oversupply as accelerating production in the U.S. undermined the effects of an agreement between OPEC and Russia to limit global supply. Telecommunication services was the only other large cap sector to post negative performance for the quarter with a return of -3.4%. Technology was the best performing sector in the large cap index as increasing business and consumer confidence drove demand and pushed technology stock prices 12.2% higher through the quarter. Health care also outperformed, rising 8.6% for the quarter as uncertainty surrounding health care reform dissipated after the GOP's failure to repeal the Affordable Care Act, which indefinitely postponed changes to current legislation. Over the trailing 1-year period, financials, technology and materials were the best performing sectors, each returning greater than 20%. All eleven economic sectors of the Russell 1000 index posted positive returns for the 1-year period.
- Small cap sector results lagged their large capitalization counterparts for the 1st quarter, with only four of eleven economic sectors outpacing the Russell 2000 Index return for the quarter, and only six of eleven sectors posting positive results for the period. Most of the sector trends observable in large cap index sector performance also impacted small cap sectors. Similar to large cap issues, energy was the biggest detractor, falling -10.6% for the quarter. Returns for health care (12.7%) and technology (6.1%) drove positive index performance. Over the last year the materials, financials, and technology sectors each posted returns in excess of 30% and all eleven sectors posted positive performance over the trailing 1-year period.
- Using S&P 500 sector valuations as a proxy for the market, Forward P/E ratios for eight of the GICS sectors were higher than their long-term averages at quarter-end. Using these historical P/E measures, the energy, materials and utilities sectors appear the most extended. In contrast the technology, health care and telecommunications sectors were trading at a discount to their long-term average P/E ratios.



The Market Environment
Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000
As of March 31, 2017

| Top 10 Weighted Stocks | | | | |
|--------------------------|--------|--------------|---------------|----------------------------|
| Russell 1000 | Weight | 1-Qtr Return | 1-Year Return | Sector |
| Apple Inc | 3.48% | 24.6% | 34.6% | Information Technology |
| Microsoft Corp | 2.20% | 6.6% | 22.4% | Information Technology |
| Amazon.com Inc | 1.52% | 18.2% | 49.3% | Consumer Discretionary |
| Johnson & Johnson | 1.51% | 8.8% | 18.3% | Health Care |
| Exxon Mobil Corp | 1.51% | -8.3% | 1.6% | Energy |
| JPMorgan Chase & Co | 1.41% | 2.4% | 52.5% | Financials |
| Facebook Inc A | 1.41% | 23.5% | 24.5% | Information Technology |
| Berkshire Hathaway Inc B | 1.39% | 2.3% | 17.5% | Financials |
| General Electric Co | 1.21% | -4.9% | -3.3% | Industrials |
| AT&T Inc | 1.13% | -1.1% | 11.2% | Telecommunication Services |

| Top 10 Weighted Stocks | | | | |
|-----------------------------------|--------|--------------|---------------|------------------------|
| Russell 2000 | Weight | 1-Qtr Return | 1-Year Return | Sector |
| Advanced Micro Devices Inc | 0.58% | 28.3% | 410.5% | Information Technology |
| The Chemours Co | 0.37% | 74.4% | 454.3% | Materials |
| Microsemi Corp | 0.31% | -4.5% | 34.5% | Information Technology |
| Olin Corp | 0.29% | 29.2% | 95.8% | Materials |
| LogMeIn Inc | 0.27% | 1.5% | 96.4% | Information Technology |
| New Residential Investment Corp | 0.27% | 11.1% | 65.4% | Financials |
| Coherent Inc | 0.26% | 49.7% | 123.8% | Information Technology |
| Take-Two Interactive Software Inc | 0.26% | 20.2% | 57.3% | Information Technology |
| Exelixis Inc | 0.26% | 45.3% | 441.8% | Health Care |
| F N B Corp | 0.25% | -6.5% | 18.3% | Financials |

| Top 10 Performing Stocks (by Quarter) | | | | |
|---------------------------------------|--------|--------------|---------------|------------------------|
| Russell 1000 | Weight | 1-Qtr Return | 1-Year Return | Sector |
| Community Health Systems Inc | 0.00% | 58.7% | -41.9% | Health Care |
| NRG Energy Inc | 0.03% | 52.8% | 45.0% | Utilities |
| Vertex Pharmaceuticals Inc | 0.12% | 48.4% | 37.6% | Health Care |
| bluebird bio Inc | 0.00% | 47.3% | 113.9% | Health Care |
| Arconic Inc | 0.05% | 42.4% | N/A | Industrials |
| DexCom Inc | 0.03% | 41.9% | 24.8% | Health Care |
| Agios Pharmaceuticals Inc | 0.01% | 39.9% | 43.8% | Health Care |
| Activision Blizzard Inc | 0.12% | 38.9% | 48.2% | Information Technology |
| Lumentum Holdings Inc | 0.00% | 38.0% | 97.8% | Information Technology |
| Alnylam Pharmaceuticals Inc | 0.02% | 36.9% | -18.4% | Health Care |

| Top 10 Performing Stocks (by Quarter) | | | | |
|---------------------------------------|--------|--------------|---------------|------------------------|
| Russell 2000 | Weight | 1-Qtr Return | 1-Year Return | Sector |
| Calithera Biosciences Inc | 0.00% | 255.4% | 103.3% | Health Care |
| Rocket Fuel Inc | 0.00% | 213.5% | 70.2% | Information Technology |
| Esperion Therapeutics Inc | 0.03% | 182.0% | 108.8% | Health Care |
| ViewRay Inc | 0.00% | 171.9% | 97.9% | Health Care |
| Global Blood Therapeutics Inc | 0.03% | 155.0% | 132.3% | Health Care |
| TG Therapeutics Inc | 0.02% | 150.6% | 36.7% | Health Care |
| Internap Corp | 0.00% | 141.6% | 36.3% | Information Technology |
| Applied Optoelectronics Inc | 0.05% | 139.5% | 276.6% | Information Technology |
| Infinity Pharmaceuticals Inc | 0.01% | 139.3% | -38.7% | Health Care |
| NewLink Genetics Corp | 0.03% | 134.4% | 32.4% | Health Care |

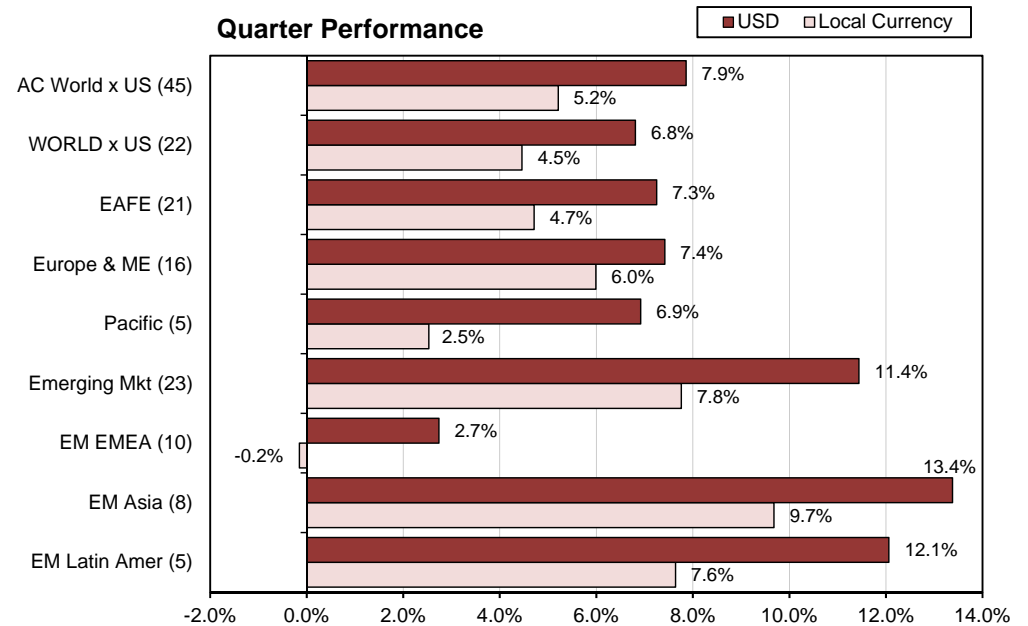
| Bottom 10 Performing Stocks (by Quarter) | | | | |
|--|--------|--------------|---------------|----------------------------|
| Russell 1000 | Weight | 1-Qtr Return | 1-Year Return | Sector |
| Cobalt International Energy Inc | 0.00% | -56.3% | -82.0% | Energy |
| Seadrill Ltd | 0.00% | -54.6% | -51.5% | Energy |
| Rite Aid Corp | 0.02% | -48.4% | -47.9% | Consumer Staples |
| Vista Outdoor Inc | 0.01% | -44.2% | -60.3% | Consumer Discretionary |
| Babcock & Wilcox Enterprises Inc | 0.00% | -43.7% | -56.4% | Industrials |
| Colony NorthStar Inc A | 0.03% | -36.1% | -17.5% | Real Estate |
| Frontier Communications Corp Class B | 0.01% | -34.1% | -57.0% | Telecommunication Services |
| GNC Holdings Inc | 0.00% | -33.3% | -76.1% | Consumer Discretionary |
| Fossil Group Inc | 0.00% | -32.5% | -60.7% | Consumer Discretionary |
| Endo International PLC | 0.01% | -32.2% | -60.4% | Health Care |

| Bottom 10 Performing Stocks (by Quarter) | | | | |
|--|--------|--------------|---------------|------------------------|
| Russell 2000 | Weight | 1-Qtr Return | 1-Year Return | Sector |
| Argos Therapeutics Inc | 0.00% | -90.8% | -92.9% | Health Care |
| Peabody Energy Corp | 0.00% | -86.4% | -70.7% | Energy |
| Ultrapetrol Bahamas Ltd | 0.00% | -83.2% | -93.8% | Industrials |
| GulfMark Offshore Inc | 0.00% | -80.0% | -94.3% | Energy |
| Rentech Inc | 0.00% | -79.8% | -77.5% | Materials |
| Walter Investment Management Corp | 0.00% | -77.3% | -85.9% | Financials |
| Adeptus Health Inc Class A | 0.00% | -76.4% | -96.8% | Health Care |
| Novan Inc | 0.00% | -76.4% | N/A | Health Care |
| Galena Biopharma Inc | 0.00% | -68.6% | -97.8% | Health Care |
| Cumulus Media Inc Class A | 0.00% | -68.5% | -91.4% | Consumer Discretionary |

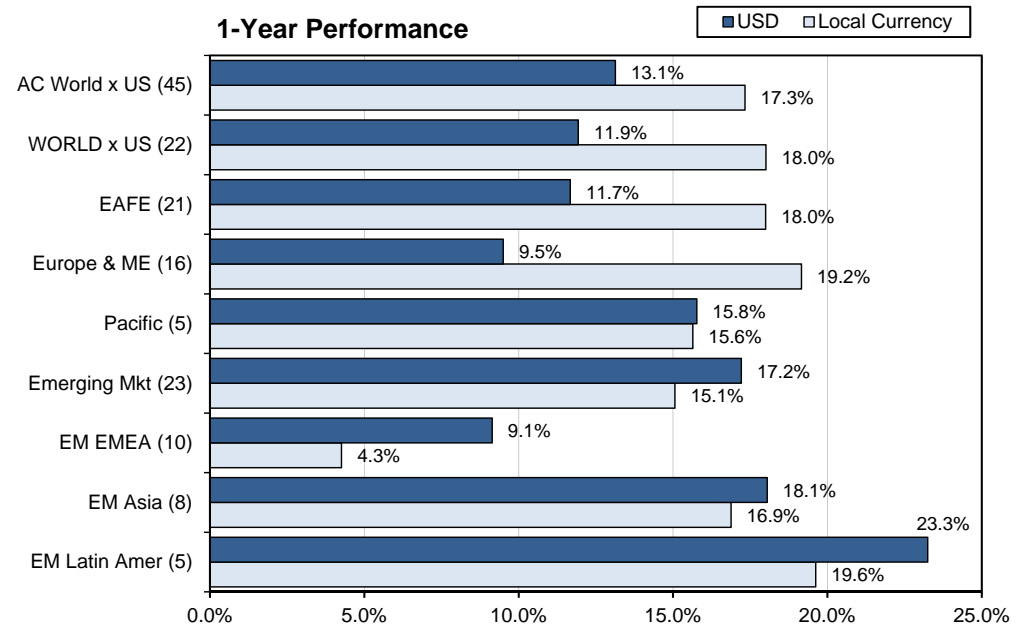


- While USD strength is on the high side of its 10-year range, the USD weakened through the quarter providing a tailwind to international index returns denominated in USD. However, the 1-year performance for the broad international indices still show a large negative currency impact from USD strength. The primary factors contributing to USD strength are an increasing divergence in U.S. monetary policy (tightening) relative to other developed countries (further accommodation) as well as the Trump administration's pro-growth policy agenda. However, improvement in growth prospects outside of the U.S. and the measured implementation of a more restrictive U.S. monetary policy has led to a pause in the USD's upward trajectory.
- International index performance for the 1st quarter was broadly positive for both developed and emerging markets in both USD and local currency terms. In USD terms, the developed market MSCI EAFE Index returned 7.3% as continued monetary stimulus and improving macroeconomic data in the U.K., Europe and Asia increased investor optimism, fueling demand for stocks. Returns in Europe and Japan were supplemented by perceived stabilization within their respective political systems. Also, noteworthy was the U.K. decision to invoke Article 50, signaling the start of their two-year separation process with the European Union. Returns for Eurozone stocks were up over 8% while stocks in Japan and the U.K. gained 4.5% and 5.0% in USD respectively. Developed market index performance is also robust when viewed over the 1-year period with the EAFE index returning 11.7% in USD terms.
- Emerging market equities had an impressive start to 2017 with the MSCI Emerging Market Index posting an 11.4% USD return for the 1st quarter. A weakening USD, continued improvement in global growth, and a lack of Trump administration attention toward protectionist trade policies provided an attractive backdrop for emerging market returns. India (17.1%), Poland (17.8%) and South Korea (16.9%) had the strongest returns in USD terms, while Russia (-4.6%) was the index's worst performing constituent. In USD terms, emerging markets have returned a substantial 17.2% over the past 12 months. Stocks in Latin America outperformed, led by Brazil's 42.8% return, pushing the MSCI Emerging Market Latin America Index 23.3% higher for the 1-year period.

Quarter Performance



1-Year Performance



Source: MSCI Global Index Monitor (Returns are Net)



The Market Environment
U.S. Dollar International Index Attribution & Country Detail
As of March 31, 2017

| MSCI - EAFE | Sector Weight | Quarter Return | 1-Year Return |
|----------------------------|---------------|----------------|---------------|
| Consumer Discretionary | 12.2% | 5.3% | 8.7% |
| Consumer Staples | 11.4% | 9.1% | 2.6% |
| Energy | 5.0% | -1.8% | 18.8% |
| Financials | 21.3% | 7.3% | 19.9% |
| Health Care | 10.7% | 8.3% | 2.1% |
| Industrials | 14.3% | 9.1% | 14.5% |
| Information Technology | 5.7% | 11.7% | 20.7% |
| Materials | 7.9% | 7.6% | 30.4% |
| Real Estate | 3.7% | 6.0% | 3.9% |
| Telecommunication Services | 4.4% | 5.1% | -2.8% |
| Utilities | 3.4% | 7.7% | 1.5% |
| Total | 100.0% | 7.3% | 11.7% |

| MSCI - ACWIXUS | Sector Weight | Quarter Return | 1-Year Return |
|----------------------------|---------------|----------------|---------------|
| Consumer Discretionary | 11.3% | 6.9% | 9.1% |
| Consumer Staples | 9.9% | 8.6% | 2.3% |
| Energy | 6.8% | -0.9% | 18.4% |
| Financials | 23.3% | 7.5% | 18.9% |
| Health Care | 8.0% | 8.0% | 1.5% |
| Industrials | 11.9% | 9.5% | 13.9% |
| Information Technology | 9.9% | 14.6% | 25.9% |
| Materials | 8.0% | 8.4% | 29.0% |
| Real Estate | 3.2% | 6.7% | 4.0% |
| Telecommunication Services | 4.5% | 6.0% | -0.9% |
| Utilities | 3.2% | 8.2% | 2.2% |
| Total | 100.0% | 7.9% | 13.1% |

| MSCI - Emerging Mkt | Sector Weight | Quarter Return | 1-Year Return |
|----------------------------|---------------|----------------|---------------|
| Consumer Discretionary | 10.4% | 12.9% | 10.4% |
| Consumer Staples | 6.9% | 7.6% | 1.6% |
| Energy | 7.3% | 4.4% | 24.1% |
| Financials | 24.1% | 10.0% | 22.1% |
| Health Care | 2.4% | 5.5% | -2.0% |
| Industrials | 5.9% | 13.6% | 8.1% |
| Information Technology | 24.5% | 17.0% | 30.4% |
| Materials | 7.5% | 12.1% | 27.7% |
| Real Estate | 2.6% | 10.5% | 7.5% |
| Telecommunication Services | 5.6% | 7.6% | 3.0% |
| Utilities | 2.8% | 10.0% | 4.0% |
| Total | 100.0% | 11.4% | 17.2% |

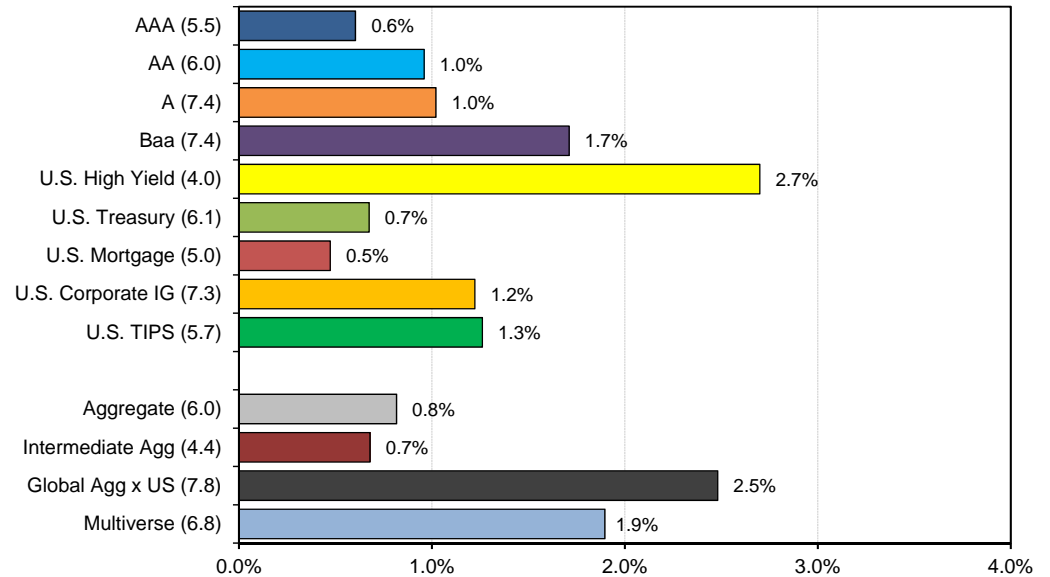
| Country | MSCI-EAFE Weight | MSCI-ACWIXUS Weight | Quarter Return | 1-Year Return |
|----------------------------------|------------------|---------------------|----------------|---------------|
| Japan | 23.4% | 16.3% | 4.5% | 14.4% |
| United Kingdom | 17.9% | 12.4% | 5.0% | 7.4% |
| France | 10.2% | 7.1% | 7.3% | 12.4% |
| Germany | 9.5% | 6.6% | 8.4% | 14.2% |
| Switzerland | 8.7% | 6.1% | 8.3% | 9.1% |
| Australia | 7.6% | 5.3% | 11.0% | 21.1% |
| Hong Kong | 3.5% | 2.4% | 13.4% | 16.6% |
| Netherlands | 3.5% | 2.4% | 11.3% | 12.9% |
| Spain | 3.4% | 2.3% | 14.8% | 18.4% |
| Sweden | 2.9% | 2.0% | 9.5% | 10.4% |
| Italy | 2.2% | 1.5% | 6.2% | 7.6% |
| Denmark | 1.6% | 1.1% | 6.1% | -9.8% |
| Singapore | 1.3% | 0.9% | 13.5% | 9.5% |
| Belgium | 1.2% | 0.8% | 5.1% | -0.4% |
| Finland | 1.0% | 0.7% | 7.3% | 7.9% |
| Israel | 0.7% | 0.5% | 5.5% | -11.8% |
| Norway | 0.6% | 0.4% | 1.4% | 13.0% |
| Ireland | 0.5% | 0.3% | 3.8% | 0.6% |
| Austria | 0.2% | 0.1% | 9.0% | 21.9% |
| New Zealand | 0.2% | 0.1% | 2.0% | 8.1% |
| Portugal | 0.2% | 0.1% | 8.3% | 8.6% |
| Total EAFE Countries | 100.0% | 69.7% | 7.3% | 11.7% |
| Canada | | 6.9% | 2.5% | 14.8% |
| Total Developed Countries | | 76.5% | 6.8% | 11.9% |
| China | | 6.3% | 12.9% | 19.7% |
| Korea | | 3.5% | 16.9% | 20.9% |
| Taiwan | | 2.9% | 11.8% | 23.0% |
| India | | 2.1% | 17.1% | 18.4% |
| Brazil | | 1.8% | 10.4% | 42.8% |
| South Africa | | 1.6% | 4.4% | 8.1% |
| Russia | | 0.9% | -4.6% | 27.6% |
| Mexico | | 0.9% | 16.0% | -2.8% |
| Indonesia | | 0.6% | 7.0% | 12.5% |
| Malaysia | | 0.6% | 8.3% | -8.1% |
| Thailand | | 0.5% | 8.6% | 17.6% |
| Chile | | 0.3% | 15.9% | 18.6% |
| Poland | | 0.3% | 17.8% | 3.5% |
| Philippines | | 0.3% | 6.1% | -7.3% |
| Turkey | | 0.2% | 10.8% | -16.6% |
| Qatar | | 0.2% | 1.9% | 4.3% |
| United Arab Emirates | | 0.2% | 2.3% | 7.0% |
| Colombia | | 0.1% | 5.7% | 9.2% |
| Peru | | 0.1% | 5.5% | 29.3% |
| Greece | | 0.1% | -3.5% | -3.4% |
| Hungary | | 0.1% | -0.1% | 15.3% |
| Czech Republic | | 0.0% | 5.7% | -4.5% |
| Egypt | | 0.0% | 1.8% | -4.2% |
| Total Emerging Countries | | 23.5% | 11.4% | 17.2% |
| Total ACWIXUS Countries | | 100.0% | 7.9% | 13.1% |

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

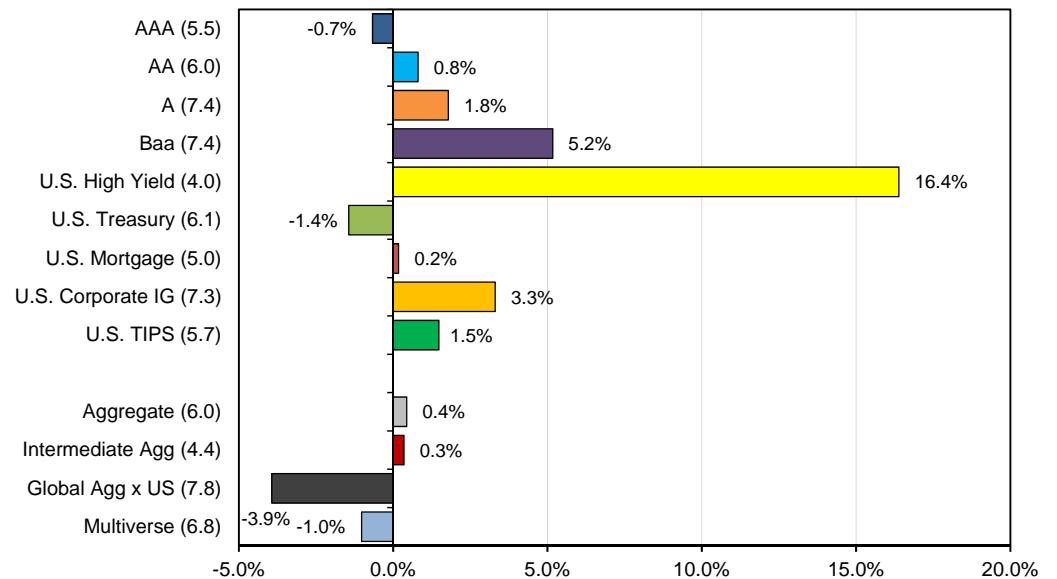


- Each of the fixed income benchmarks we track posted gains for the 1st quarter with the broad market Bloomberg Barclays Aggregate Index returning 0.8% for the period. Short-term market yields rose through the quarter as investors prepared for a widely anticipated 25 basis point (bps) interest rate increase by the Fed. The Fed's second rate hike in six-months was supported by growing inflation and continued improvement in U.S. macroeconomic data. The effect of the interest rate increase was largely "priced in" by the market as participants viewed the move as a sign of continued Fed confidence in the U.S. economic recovery. Fixed income index performance was mixed over the 1-year period with the Bloomberg Barclays Aggregate index returning a muted 0.4% for the period.
- Lower quality bonds outperformed higher quality issues for both the quarter and 1-year period as contracting credit spreads from improvements in economic fundamentals acted as a tailwind to these issues. During the 1st quarter credit spreads for high yield debt decreased by 26 bps versus only 5 bps for investment grade corporate issues. AAA issues returned a muted 0.6% over the quarter compared to a solid 1.7% return for Baa issues. High yield debt was the largest beneficiary of these economic trends, returning 2.7% for the quarter and a significant 16.4% for the 1-year period.
- A review of sector performance shows credit and U.S. TIPS outpaced U.S. Treasury and mortgage backed security (MBS) indices. Credit issues benefited from tightening spreads and TIPS strength coincided with higher future inflation expectations. MBS was the worst performing sector for the quarter as the Fed signaled an eventual end to their ongoing reinvestment in agency MBS (shrinking their balance sheet), which caused spreads on MBS to rise 12 bps. Led by a weakening USD, global bond indices posted solid results for the quarter. Fixed income returns over the 1-year period are mixed with the corporate and TIPS segments outpacing Treasury and MBS issues. Despite a strong quarter, global bond returns trail domestic indices over the 1-year period with the Bloomberg Barclays Aggregate ex U.S. returning -3.9% for the period.
- The Fed indicated future rate increases will be implemented at a measured pace based on an ongoing assessment of current economic data. However, future policy action by the Trump administration and global economic developments will also likely impact the pace of future interest rate increases. Current market expectations are for two additional interest rate increases in 2017.

Quarter Performance

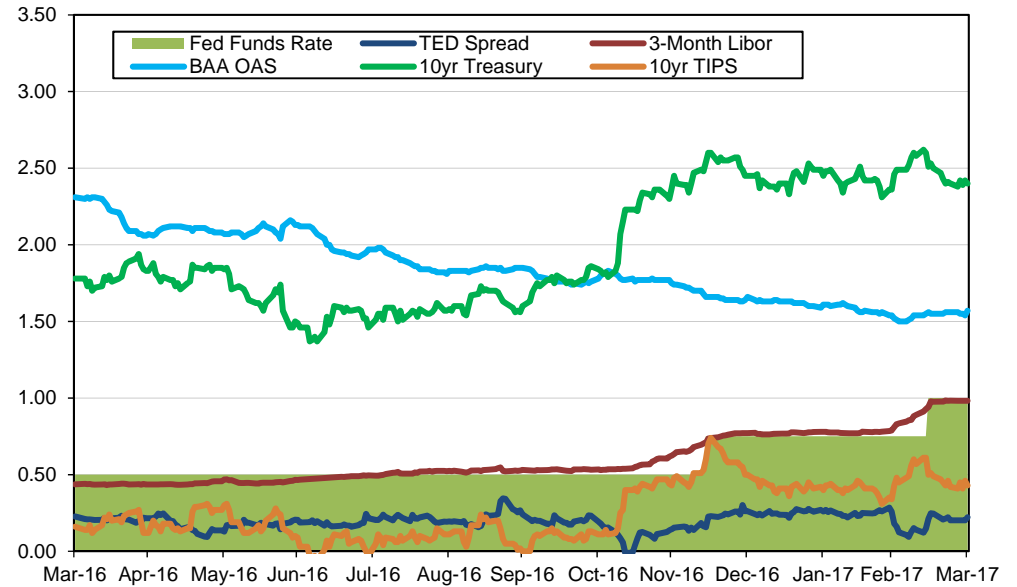


1-Year Performance

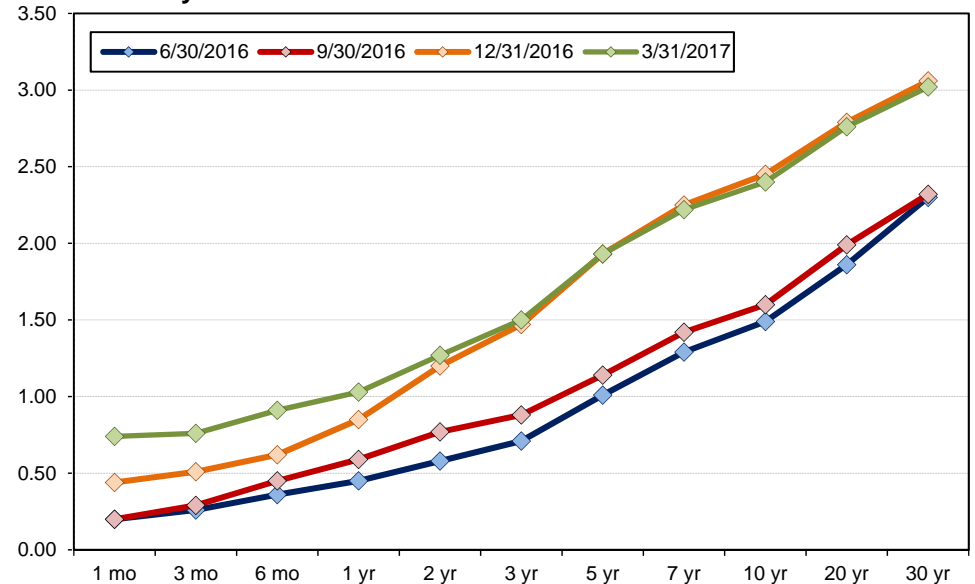


- Much of the index performance detailed in the bar graphs on the previous page is visible on a time series basis by reviewing the line graphs to the right. The '1-Year Trailing Market Rates' chart illustrates that after trading in a tight range for most of 2016, the 10-year Treasury yield (green line) rose dramatically in the 4th quarter of 2016 but held largely steady during the 1st quarter of 2017. After closing 2016 with a 2.45% yield, the 10-year Treasury finished the 1st quarter at a slightly lower 2.40%. The blue line illustrates changes in the BAA OAS (Option Adjusted Spread). This measure quantifies the additional yield premium that investors require to purchase and hold non-Treasury issues. This line illustrates a steady decline in credit spreads throughout 2016 and into 2017. This decline is equivalent to an interest rate decrease on corporate bonds, which produces a tailwind for corporate bond index returns. These credit spreads have tightened by about 75 bps over the last 12-months. The green shading at the bottom of the graph illustrates the continued increase in the Federal Funds Rate due to a less accommodative Fed monetary policy.
- The lower graph provides a snapshot of the U.S. Treasury yield curve at each of the last four calendar quarters. The yield curve flattened throughout the 1st quarter as yields on shorter-term maturities rose during the period, while interest rates on the long end of the curve (beyond 5-years) exhibited marginal declines. While interest rate movement during the during 1st quarter were relative small, the significant upward shift in interest rates since June of 2016 is clearly visible. Yields on the 3-month Treasury Bill have increased by 50 bps since June 30, 2016 and yields on the 30-year Treasury Bond have jumped by more than 70 bps over the same period.
- Despite the rise in short-term interest rates, most fixed income indices finished the 1st quarter in positive territory. In a rising rate environment, it is generally expected that longer-duration market indices will fall more than equivalent lower-duration benchmarks. However, the magnitude of interest rate shifts across the term structure and spread movements can lead to atypical short-term results. Finally, while global benchmarks are impacted by the same local yield and duration factors as domestic benchmarks, the returns of these indices are also significantly influenced by fluctuations in their currency denomination relative to the USD. This currency effect can either be an offsetting benefit to negative yield and duration factors in a rising rate environment as it was during the 1st quarter, or it can further exacerbate negative performance as it did in 2016.

1-Year Trailing Market Rates



Treasury Yield Curve



Financial Reconciliation
Total Fund
1 Quarter Ending March 31, 2017

| 1 Quarter | Market Value 01/01/2017 | Net Flows | Return On Investment | Market Value 03/31/2017 |
|------------------------------------|------------------------------------|------------------|---------------------------------|------------------------------------|
| Police Total Fund | 28,118,329 | -69,123 | 1,008,319 | 29,057,525 |
| Total Domestic Equity | 13,025,268 | -561,488 | 608,792 | 13,072,572 |
| Seizert Capital | 4,871,328 | -81,595 | 204,284 | 4,994,016 |
| Holland Capital Management | 4,411,465 | -82,631 | 371,115 | 4,699,949 |
| T. Rowe Price (TRMCX) | 1,458,513 | -160,000 | 47,338 | 1,345,851 |
| Prudential (TASVX) | 2,283,962 | -237,262 | -13,944 | 2,032,756 |
| Total International Equity | 3,468,362 | - | 302,242 | 3,770,605 |
| Harbor International (HAINX) | 3,468,362 | - | 302,242 | 3,770,605 |
| Total Domestic Fixed Income | 9,555,324 | -7,275 | 64,673 | 9,612,722 |
| C.S. McKee | 4,701,224 | -3,525 | 30,924 | 4,728,624 |
| Great Lakes Advisors | 4,854,100 | -3,750 | 33,749 | 4,884,099 |
| Total Real Estate | 1,782,643 | - | 32,433 | 1,815,076 |
| Principal Real Estate | 1,782,643 | - | 32,433 | 1,815,076 |
| Cash | 286,731 | 499,640 | 178 | 786,549 |



| Fiscal Year To Date | Market Value 01/01/2017 | Net Flows | Return On Investment | Market Value 03/31/2017 |
|------------------------------------|------------------------------------|------------------|---------------------------------|------------------------------------|
| Police Total Fund | 28,118,329 | -69,123 | 1,008,319 | 29,057,525 |
| Total Domestic Equity | 13,025,268 | -561,488 | 608,792 | 13,072,572 |
| Seizert Capital | 4,871,328 | -81,595 | 204,284 | 4,994,016 |
| Holland Capital Management | 4,411,465 | -82,631 | 371,115 | 4,699,949 |
| T. Rowe Price (TRMCX) | 1,458,513 | -160,000 | 47,338 | 1,345,851 |
| Prudential (TASVX) | 2,283,962 | -237,262 | -13,944 | 2,032,756 |
| Total International Equity | 3,468,362 | - | 302,242 | 3,770,605 |
| Harbor International (HAINX) | 3,468,362 | - | 302,242 | 3,770,605 |
| Total Domestic Fixed Income | 9,555,324 | -7,275 | 64,673 | 9,612,722 |
| C.S. McKee | 4,701,224 | -3,525 | 30,924 | 4,728,624 |
| Great Lakes Advisors | 4,854,100 | -3,750 | 33,749 | 4,884,099 |
| Total Real Estate | 1,782,643 | - | 32,433 | 1,815,076 |
| Principal Real Estate | 1,782,643 | - | 32,433 | 1,815,076 |
| Cash | 286,731 | 499,640 | 178 | 786,549 |



Financial Reconciliation
Total Fund
1 Year Ending March 31, 2017

| 1 Year | Market Value 04/01/2016 | Net Flows | Return On Investment | Market Value 03/31/2017 |
|------------------------------------|------------------------------------|-------------------|---------------------------------|------------------------------------|
| Police Total Fund | 27,302,043 | -1,129,510 | 2,884,991 | 29,057,525 |
| Total Domestic Equity | 12,117,422 | -1,445,716 | 2,400,866 | 13,072,572 |
| Seizert Capital | 4,362,935 | -379,974 | 1,011,056 | 4,994,016 |
| Holland Capital Management | 4,521,553 | -386,146 | 564,542 | 4,699,949 |
| T. Rowe Price (TRMCX) | 1,485,880 | -438,667 | 298,638 | 1,345,851 |
| Prudential (TASVX) | 1,747,055 | -240,929 | 526,630 | 2,032,756 |
| Total International Equity | 3,918,717 | -443,667 | 295,554 | 3,770,605 |
| Harbor International (HAINX) | 3,918,717 | -443,667 | 295,554 | 3,770,605 |
| Total Domestic Fixed Income | 9,585,829 | -29,232 | 56,125 | 9,612,722 |
| C.S. McKee | 4,716,117 | -14,232 | 26,739 | 4,728,624 |
| Great Lakes Advisors | 4,869,712 | -15,000 | 29,387 | 4,884,099 |
| Total Real Estate | 1,182,929 | 500,000 | 132,148 | 1,815,076 |
| Principal Real Estate | 1,182,929 | 500,000 | 132,148 | 1,815,076 |
| Cash | 497,146 | 289,104 | 299 | 786,549 |



| Comparative Performance | | | | | | | | | | | | | | |
|--|-------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|
| | QTR | | FYTD | | 1 YR | | 3 YR | | 5 YR | | 7 YR | | 10 YR | |
| Police Total Fund | 3.61 | (78) | 3.61 | (78) | 10.82 | (45) | 5.91 | (23) | 7.74 | (37) | 7.91 | (44) | 6.73 | (3) |
| Police - Total Fund Policy | 3.51 | (81) | 3.51 | (81) | 11.27 | (35) | 6.09 | (17) | 7.87 | (34) | 7.99 | (42) | 6.14 | (16) |
| All Master Trust - Total Fund Median | 4.45 | | 4.45 | | 10.68 | | 5.01 | | 7.33 | | 7.70 | | 5.43 | |
| Police Total Fund | 3.61 | (91) | 3.61 | (91) | 10.82 | (43) | 5.91 | (24) | 7.74 | (35) | 7.91 | (47) | 6.73 | (5) |
| Police - Total Fund Policy | 3.51 | (95) | 3.51 | (95) | 11.27 | (31) | 6.09 | (17) | 7.87 | (34) | 7.99 | (44) | 6.14 | (19) |
| Master Trust >=45% and <65% Equity Median | 4.53 | | 4.53 | | 10.71 | | 5.09 | | 7.38 | | 7.76 | | 5.52 | |
| Total Domestic Equity | 4.75 | (50) | 4.75 | (50) | 20.67 | (29) | 10.05 | (15) | 13.56 | (17) | 13.16 | (22) | 8.78 | (18) |
| Russell 3000 Index | 5.74 | (39) | 5.74 | (39) | 18.07 | (44) | 9.76 | (19) | 13.18 | (22) | 12.89 | (27) | 7.54 | (39) |
| IM U.S. Equity (SA+CF+MF) Median | 4.75 | | 4.75 | | 17.13 | | 7.54 | | 11.71 | | 11.73 | | 7.00 | |
| Seizert | 4.26 | (45) | 4.26 | (45) | 24.27 | (12) | 9.88 | (21) | 14.50 | (13) | 13.29 | (22) | N/A | |
| Russell 1000 Value Index | 3.27 | (71) | 3.27 | (71) | 19.22 | (40) | 8.67 | (44) | 13.13 | (48) | 12.18 | (58) | 5.93 | (83) |
| IM U.S. Large Cap Value Equity (SA+CF) Median | 4.04 | | 4.04 | | 17.95 | | 8.46 | | 13.00 | | 12.46 | | 7.08 | |
| Holland | 8.52 | (59) | 8.52 | (59) | 13.17 | (80) | 10.08 | (54) | 11.99 | (68) | N/A | | N/A | |
| Russell 1000 Growth Index | 8.91 | (52) | 8.91 | (52) | 15.76 | (51) | 11.27 | (27) | 13.32 | (31) | 13.68 | (33) | 9.13 | (46) |
| IM U.S. Large Cap Growth Equity (SA+CF) Median | 8.95 | | 8.95 | | 15.78 | | 10.27 | | 12.73 | | 13.10 | | 8.92 | |
| T. Rowe Price (TRMCX) | 3.23 | (46) | 3.23 | (46) | 20.56 | (23) | 9.75 | (4) | 14.45 | (9) | 12.80 | (27) | 9.00 | (3) |
| Russell Midcap Value Index | 3.76 | (24) | 3.76 | (24) | 19.82 | (38) | 8.94 | (17) | 14.07 | (16) | 13.42 | (6) | 7.47 | (22) |
| IM U.S. Mid Cap Value Equity (MF) Median | 3.10 | | 3.10 | | 19.08 | | 7.43 | | 12.46 | | 11.96 | | 6.47 | |
| Prudential (TASVX) | -0.83 | (46) | -0.83 | (46) | 29.89 | (15) | 8.87 | (9) | N/A | | N/A | | N/A | |
| Russell 2000 Value Index | -0.13 | (33) | -0.13 | (33) | 29.37 | (19) | 7.62 | (28) | 12.54 | (19) | 11.59 | (37) | 6.09 | (53) |
| IM U.S. Small Cap Value Equity (MF) Median | -0.99 | | -0.99 | | 23.75 | | 5.62 | | 11.36 | | 11.06 | | 6.26 | |
| Total International Equity | 8.71 | (27) | 8.71 | (27) | 8.45 | (78) | -1.11 | (76) | 4.10 | (71) | 4.85 | (33) | 1.20 | (54) |
| MSCI AC World ex USA Index (Net) | 7.86 | (48) | 7.86 | (48) | 13.13 | (26) | 0.56 | (46) | 4.36 | (65) | 3.82 | (62) | 1.35 | (50) |
| IM International Large Cap Equity (MF) Median | 7.77 | | 7.77 | | 10.71 | | 0.23 | | 4.81 | | 4.26 | | 1.34 | |
| Harbor (HAINX) | 8.71 | (14) | 8.71 | (14) | 8.45 | (87) | -1.11 | (70) | 4.10 | (56) | N/A | | N/A | |
| MSCI AC World ex USA Index (Net) | 7.86 | (42) | 7.86 | (42) | 13.13 | (35) | 0.56 | (32) | 4.36 | (50) | 3.82 | (43) | 1.35 | (22) |
| IM International Large Cap Core Equity (MF) Median | 7.47 | | 7.47 | | 11.60 | | -0.23 | | 4.36 | | 3.57 | | 0.70 | |

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



Comparative Performance

Total Fund

As of March 31, 2017

| | QTR | | FYTD | | 1 YR | | 3 YR | | 5 YR | | 7 YR | | 10 YR | |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Total Domestic Fixed Income | 0.68 | (80) | 0.68 | (80) | 0.58 | (84) | 2.47 | (67) | 2.20 | (73) | 3.16 | (74) | 4.24 | (69) |
| Police - Total Domestic Fixed Policy | 0.68 | (80) | 0.68 | (80) | 0.35 | (90) | 2.25 | (73) | 1.95 | (79) | 2.89 | (79) | 3.97 | (76) |
| IM U.S. Fixed Income (SA+CF) Median | 1.08 | | 1.08 | | 1.98 | | 3.04 | | 3.22 | | 4.25 | | 4.79 | |
| C.S. McKee | 0.66 | (86) | 0.66 | (86) | 0.57 | (73) | 2.49 | (33) | 2.13 | (62) | N/A | | N/A | |
| Bloomberg Barclays US Interm Agg Index | 0.68 | (82) | 0.68 | (82) | 0.35 | (85) | 2.25 | (56) | 1.95 | (78) | 2.94 | (78) | 3.91 | (84) |
| IM U.S. Intermediate Duration (SA+CF) Median | 0.80 | | 0.80 | | 0.84 | | 2.31 | | 2.27 | | 3.21 | | 4.25 | |
| Great Lakes | 0.70 | (78) | 0.70 | (78) | 0.60 | (71) | 2.44 | (35) | 2.26 | (51) | N/A | | N/A | |
| Bloomberg Barclays US Interm Agg Index | 0.68 | (82) | 0.68 | (82) | 0.35 | (85) | 2.25 | (56) | 1.95 | (78) | 2.94 | (78) | 3.91 | (84) |
| IM U.S. Intermediate Duration (SA+CF) Median | 0.80 | | 0.80 | | 0.84 | | 2.31 | | 2.27 | | 3.21 | | 4.25 | |
| Real Estate | | | | | | | | | | | | | | |
| Principal Real Estate | 1.82 | (N/A) | 1.82 | (N/A) | 8.84 | (N/A) | N/A | | N/A | | N/A | | N/A | |
| NCREIF Fund Index - ODCE (EW) (Net) | 1.82 | (N/A) | 1.82 | (N/A) | 7.93 | (N/A) | 11.12 | (N/A) | 11.07 | (N/A) | 12.52 | (N/A) | 4.49 | (N/A) |
| IM U.S. Open End Private Real Estate (SA+CF) Median | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | |
| Cash | 0.04 | | 0.04 | | 0.08 | | 0.06 | | 0.06 | | 0.07 | | 0.60 | |
| 90 Day U.S. Treasury Bill | 0.10 | | 0.10 | | 0.30 | | 0.14 | | 0.11 | | 0.11 | | 0.66 | |

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



Comparative Performance
Total Fund
1 Year Ending

| Comparative Performance | | | | | | | | | | | | | | | | | | |
|--|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|---------------|-------------|
| | Mar-2017 | | Mar-2016 | | Mar-2015 | | Mar-2014 | | Mar-2013 | | Mar-2012 | | Mar-2011 | | Mar-2010 | | Mar-2009 | |
| Police Total Fund | 10.82 | (45) | 0.18 | (18) | 7.01 | (44) | 12.26 | (48) | 8.82 | (71) | 6.11 | (18) | 10.64 | (80) | 21.58 | (87) | -9.60 | (7) |
| Police - Total Fund Policy | 11.27 | (35) | -0.11 | (22) | 7.43 | (36) | 11.95 | (52) | 9.25 | (62) | 6.56 | (14) | 10.07 | (84) | 20.95 | (88) | -15.59 | (12) |
| All Master Trust - Total Fund Median | 10.68 | | -1.56 | | 6.66 | | 12.05 | | 9.69 | | 4.13 | | 12.72 | | 31.69 | | -24.74 | |
| Police Total Fund | 10.82 | (43) | 0.18 | (12) | 7.01 | (44) | 12.26 | (51) | 8.82 | (82) | 6.11 | (15) | 10.64 | (93) | 21.58 | (99) | -9.60 | (1) |
| Police - Total Fund Policy | 11.27 | (31) | -0.11 | (16) | 7.43 | (35) | 11.95 | (58) | 9.25 | (72) | 6.56 | (11) | 10.07 | (96) | 20.95 | (99) | -15.59 | (1) |
| Master Trust >=45% and <65% Equity Median | 10.71 | | -1.76 | | 6.76 | | 12.26 | | 9.95 | | 4.03 | | 12.96 | | 32.25 | | -25.82 | |
| Total Domestic Equity | 20.67 | (29) | -0.08 | (24) | 10.55 | (46) | 23.53 | (42) | 14.70 | (38) | 6.38 | (35) | 18.25 | (51) | 57.30 | (36) | -33.73 | (24) |
| Russell 3000 Index | 18.07 | (44) | -0.34 | (26) | 12.37 | (32) | 22.61 | (51) | 14.56 | (39) | 7.18 | (30) | 17.41 | (55) | 52.44 | (51) | -38.20 | (56) |
| IM U.S. Equity (SA+CF+MF) Median | 17.13 | | -3.83 | | 9.97 | | 22.62 | | 13.35 | | 4.01 | | 18.49 | | 52.50 | | -37.62 | |
| Seizert | 24.27 | (12) | -2.00 | (47) | 8.93 | (64) | 26.76 | (21) | 17.04 | (36) | 2.82 | (75) | 18.33 | (19) | 55.28 | (32) | N/A | |
| Russell 1000 Value Index | 19.22 | (40) | -1.54 | (41) | 9.33 | (57) | 21.57 | (68) | 18.77 | (21) | 4.79 | (58) | 15.15 | (51) | 53.56 | (40) | -42.42 | (84) |
| IM U.S. Large Cap Value Equity (SA+CF) Median | 17.95 | | -2.29 | | 9.93 | | 23.22 | | 15.97 | | 5.50 | | 15.19 | | 51.06 | | -37.91 | |
| Holland | 13.17 | (80) | 3.98 | (11) | 13.36 | (69) | 21.26 | (79) | 8.92 | (54) | 13.05 | (17) | N/A | | N/A | | N/A | |
| Russell 1000 Growth Index | 15.76 | (51) | 2.52 | (21) | 16.09 | (43) | 23.22 | (61) | 10.09 | (42) | 11.02 | (32) | 18.26 | (44) | 49.75 | (36) | -34.28 | (53) |
| IM U.S. Large Cap Growth Equity (SA+CF) Median | 15.78 | | -0.29 | | 15.30 | | 24.00 | | 9.31 | | 9.21 | | 17.42 | | 47.44 | | -34.14 | |
| T. Rowe Price (TRMCX) | 20.56 | (23) | -0.05 | (7) | 9.71 | (51) | 22.49 | (57) | 21.27 | (18) | 1.10 | (34) | 17.02 | (90) | 69.59 | (24) | -34.73 | (13) |
| Russell Midcap Value Index | 19.82 | (38) | -3.39 | (30) | 11.70 | (32) | 22.95 | (51) | 21.49 | (17) | 2.28 | (19) | 22.26 | (43) | 72.41 | (21) | -42.51 | (80) |
| IM U.S. Mid Cap Value Equity (MF) Median | 19.08 | | -5.68 | | 9.73 | | 23.15 | | 18.91 | | -0.12 | | 21.62 | | 63.32 | | -39.63 | |
| Prudential (TASVX) | 29.89 | (15) | -7.45 | (58) | 7.36 | (22) | N/A | | N/A | | N/A | | N/A | | N/A | | N/A | |
| Russell 2000 Value Index | 29.37 | (19) | -7.72 | (60) | 4.43 | (41) | 22.65 | (62) | 18.09 | (23) | -1.07 | (63) | 20.63 | (69) | 65.07 | (59) | -38.89 | (44) |
| IM U.S. Small Cap Value Equity (MF) Median | 23.75 | | -7.13 | | 3.56 | | 24.11 | | 14.71 | | 0.61 | | 22.22 | | 68.15 | | -39.25 | |
| Total International Equity | 8.45 | (78) | -8.61 | (49) | -2.44 | (71) | 16.29 | (33) | 8.71 | (51) | -1.54 | (13) | 15.73 | (10) | 60.75 | (12) | -47.19 | (64) |
| MSCI AC World ex USA Index (Net) | 13.13 | (26) | -9.19 | (57) | -1.01 | (53) | 12.31 | (76) | 8.36 | (57) | -7.17 | (65) | 13.15 | (26) | 60.93 | (11) | -46.46 | (57) |
| IM International Large Cap Equity (MF) Median | 10.71 | | -8.70 | | -0.87 | | 15.04 | | 8.73 | | -5.91 | | 11.03 | | 51.66 | | -45.92 | |
| Harbor (HAINX) | 8.45 | (87) | -8.61 | (29) | -2.44 | (74) | 16.29 | (32) | 8.71 | (55) | -1.54 | (9) | N/A | | N/A | | N/A | |
| MSCI AC World ex USA Index (Net) | 13.13 | (35) | -9.19 | (34) | -1.01 | (46) | 12.31 | (69) | 8.36 | (64) | -7.17 | (63) | 13.15 | (21) | 60.93 | (10) | -46.46 | (61) |
| IM International Large Cap Core Equity (MF) Median | 11.60 | | -10.24 | | -1.14 | | 14.43 | | 8.83 | | -5.68 | | 10.35 | | 52.12 | | -45.80 | |

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



Comparative Performance
Total Fund
1 Year Ending

| | Mar-2017 | Mar-2016 | Mar-2015 | Mar-2014 | Mar-2013 | Mar-2012 | Mar-2011 | Mar-2010 | Mar-2009 |
|---|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| Total Domestic Fixed Income | 0.58 (84) | 2.63 (8) | 4.22 (51) | 0.02 (81) | 3.62 (78) | 7.01 (51) | 4.23 (82) | 3.59 (90) | 7.63 (4) |
| Police - Total Domestic Fixed Policy | 0.35 (90) | 2.20 (21) | 4.24 (51) | 0.01 (81) | 3.04 (82) | 6.24 (62) | 4.33 (82) | 2.51 (94) | 7.54 (4) |
| IM U.S. Fixed Income (SA+CF) Median | 1.98 | 1.31 | 4.26 | 0.98 | 5.93 | 7.04 | 6.67 | 13.09 | 0.05 |
| C.S. McKee | 0.57 (73) | 3.02 (4) | 3.91 (47) | 0.11 (70) | 3.11 (84) | N/A | N/A | N/A | N/A |
| Bloomberg Barclays US Interm Agg Index | 0.35 (85) | 2.20 (46) | 4.24 (32) | 0.01 (75) | 3.04 (84) | 6.16 (61) | 4.76 (68) | 7.40 (73) | 3.39 (43) |
| IM U.S. Intermediate Duration (SA+CF) Median | 0.84 | 2.12 | 3.88 | 0.38 | 4.01 | 6.37 | 5.07 | 8.96 | 2.73 |
| Great Lakes | 0.60 (71) | 2.25 (42) | 4.51 (19) | -0.08 (81) | 4.10 (47) | N/A | N/A | N/A | N/A |
| Bloomberg Barclays US Interm Agg Index | 0.35 (85) | 2.20 (46) | 4.24 (32) | 0.01 (75) | 3.04 (84) | 6.16 (61) | 4.76 (68) | 7.40 (73) | 3.39 (43) |
| IM U.S. Intermediate Duration (SA+CF) Median | 0.84 | 2.12 | 3.88 | 0.38 | 4.01 | 6.37 | 5.07 | 8.96 | 2.73 |
| Real Estate | | | | | | | | | |
| Principal Real Estate | 8.84 (N/A) | 12.22 (76) | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| NCREIF Fund Index-ODCE (EW) (Net) | 7.93 (N/A) | 13.12 (62) | 12.37 (89) | 12.32 (81) | 9.70 (85) | 13.61 (64) | 18.91 (69) | -20.90 (56) | -23.31 (45) |
| IM U.S. Open End Private Real Estate (SA+CF) Median | N/A | 13.46 | 14.69 | 13.88 | 12.40 | 14.42 | 20.75 | -20.06 | -24.76 |
| Cash | 0.08 | 0.04 | 0.06 | 0.06 | 0.08 | 0.09 | 0.12 | 0.14 | 1.31 |
| 90 Day U.S. Treasury Bill | 0.30 | 0.08 | 0.03 | 0.05 | 0.08 | 0.05 | 0.17 | 0.14 | 1.20 |

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



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



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