Community Foundation of Sonoma County

Monthly Report- March 31, 2019

Graystone Consulting
3562 Round Barn Circle
1st Floor
Santa Rosa, CA 95403

Delivered On: 04/12/2019
Todd Au, CIMA®
Senior Vice President
Institutional Consultant

Tony Parmisano, CFA ®
Portfolio Manager
Senior Vice President
Institutional Consultant

Matthew Veal, CFP®
Senior Vice President
Financial Advisor

Address:
3562 Round Barn Circle, 1st Floor
Santa Rosa, CA 95403

Phones:
Main Line 707-571-5755
Toll-Free 888-267-5868
Fax 707-524-1099

E-Mail:
todd.au@msgraystone.com
anthony.l.parmisano@msgraystone.com
matthew.veal@msgraystone.com
<table>
<thead>
<tr>
<th></th>
<th>Qtr. To Date</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Years</th>
<th>5 Years</th>
<th>10 Years</th>
<th>Since Incept.</th>
<th>Inception Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Long Term Pool</strong></td>
<td>8.63</td>
<td>8.63</td>
<td>3.22</td>
<td>8.26</td>
<td>4.39</td>
<td>8.28</td>
<td>6.28</td>
<td>02/01/1997</td>
</tr>
<tr>
<td>Long Term Pool Composite Benchmark</td>
<td>8.57</td>
<td>8.57</td>
<td>3.76</td>
<td>8.20</td>
<td>5.45</td>
<td>9.00</td>
<td>5.95</td>
<td></td>
</tr>
<tr>
<td>Spending Benchmark</td>
<td>1.29</td>
<td>1.29</td>
<td>5.25</td>
<td>5.25</td>
<td>5.25</td>
<td>5.25</td>
<td>5.25</td>
<td></td>
</tr>
<tr>
<td><strong>Core Portfolio</strong></td>
<td>8.55</td>
<td>8.55</td>
<td>3.36</td>
<td>7.89</td>
<td>N/A</td>
<td>N/A</td>
<td>5.95</td>
<td>07/01/2015</td>
</tr>
<tr>
<td><strong>Satellite Portfolio</strong></td>
<td>9.60</td>
<td>9.60</td>
<td>3.32</td>
<td>11.62</td>
<td>N/A</td>
<td>N/A</td>
<td>8.25</td>
<td>07/01/2015</td>
</tr>
</tbody>
</table>

**Market Value ($)**

- Core Portfolio Equities: 56,395,543 (55.58%)
- Core Portfolio Fixed Income: 29,764,635 (29.34%)
- Satellite Portfolio Equities: 12,053,533 (11.88%)
- Satellite Portfolio Fixed Income: 2,996,466 (2.95%)
- Cash: 251,482 (0.25%)

**March 31, 2019 Differences**

- Core Portfolio Equities: -1%
- Core Portfolio Fixed Income: 1%
- International Fixed Income: 0%
- Satellite Portfolio Equities: 0%
- US Fixed Income-Short Duration: 0%
- Emerging Markets: 0%
- US Mid Cap: 0%
- US Small Cap: 0%
- International Developed: 0%
- US Large Cap: 0%

**March 31, 2019 Allocation (%)**

- Core Portfolio Equities: 55.58%
- Core Portfolio Fixed Income: 29.34%
- Satellite Portfolio Equities: 11.88%
- Satellite Portfolio Fixed Income: 2.95%
- Cash: 0.25%

**Total Fund**: $101,461,658

*The Composite Benchmark is a blend of indices meant to represent the underlying asset allocation of the pool. See disclosures for Composite Benchmark descriptions.*

*The Spending Benchmark is 5.25%. This is the return that needs to be generated on investments to pay an administrative fee of 1.5% and to distribute another 3.75% donors/investors.*
Community Foundation Sonoma County
Intermediate Term Pool
Performance and Asset Allocation
as of March 31, 2019

<table>
<thead>
<tr>
<th></th>
<th>Qtr. To Date</th>
<th>YTD 1 Year</th>
<th>3 Years</th>
<th>5 Years</th>
<th>10 Years</th>
<th>Since Incept.</th>
<th>Inception Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediate Term Pool</td>
<td>4.72</td>
<td>4.72</td>
<td>3.83</td>
<td>4.35</td>
<td>3.70</td>
<td>3.51</td>
<td>08/01/2003</td>
</tr>
<tr>
<td>IT Pool Composite Benchmark</td>
<td>4.59</td>
<td>4.59</td>
<td>4.12</td>
<td>4.46</td>
<td>3.50</td>
<td>5.38</td>
<td></td>
</tr>
<tr>
<td>Real Return Target Benchmark</td>
<td>1.16</td>
<td>1.16</td>
<td>4.41</td>
<td>3.45</td>
<td>2.99</td>
<td>2.67</td>
<td></td>
</tr>
<tr>
<td>Core Portfolio</td>
<td>4.73</td>
<td>4.73</td>
<td>4.15</td>
<td>4.33</td>
<td>N/A</td>
<td>N/A</td>
<td>01/01/2016</td>
</tr>
<tr>
<td>Satellite Portfolio</td>
<td>5.81</td>
<td>5.81</td>
<td>3.27</td>
<td>6.56</td>
<td>N/A</td>
<td>N/A</td>
<td>01/01/2016</td>
</tr>
</tbody>
</table>

March 31, 2019 : $24,190,383

<table>
<thead>
<tr>
<th></th>
<th>Market Value ($)</th>
<th>Allocation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Portfolio Equities</td>
<td>5,084,722</td>
<td>21.02</td>
</tr>
<tr>
<td>Core Portfolio Fixed Income</td>
<td>15,216,180</td>
<td>62.90</td>
</tr>
<tr>
<td>Satellite Portfolio Equities</td>
<td>1,182,026</td>
<td>4.89</td>
</tr>
<tr>
<td>Satellite Portfolio Fixed Income</td>
<td>2,390,711</td>
<td>9.88</td>
</tr>
<tr>
<td>Cash</td>
<td>316,745</td>
<td>1.31</td>
</tr>
<tr>
<td>Total Fund</td>
<td>24,190,383</td>
<td>100.00</td>
</tr>
</tbody>
</table>

March 31, 2019

<table>
<thead>
<tr>
<th></th>
<th>Market Value ($000)</th>
<th>Allocation (%)</th>
<th>Target (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Large Cap</td>
<td>2,643.64</td>
<td>10.93</td>
<td>11.00</td>
</tr>
<tr>
<td>US Mid Cap</td>
<td>232.70</td>
<td>0.96</td>
<td>1.00</td>
</tr>
<tr>
<td>US Small Cap</td>
<td>169.00</td>
<td>0.70</td>
<td>0.75</td>
</tr>
<tr>
<td>International Developed</td>
<td>1,616.11</td>
<td>6.68</td>
<td>6.75</td>
</tr>
<tr>
<td>Emerging Markets</td>
<td>423.27</td>
<td>1.75</td>
<td>1.75</td>
</tr>
<tr>
<td>International Fixed Income</td>
<td>5,086.17</td>
<td>21.03</td>
<td>21.25</td>
</tr>
<tr>
<td>US Fixed Income-Short Duration</td>
<td>10,130.01</td>
<td>41.88</td>
<td>42.50</td>
</tr>
<tr>
<td>Satellite Portfolio</td>
<td>3,572.74</td>
<td>14.77</td>
<td>15.00</td>
</tr>
<tr>
<td>Cash</td>
<td>316.74</td>
<td>1.31</td>
<td>0.00</td>
</tr>
<tr>
<td>Total Fund</td>
<td>24,190.38</td>
<td>100.00</td>
<td>100.00</td>
</tr>
</tbody>
</table>

*The Composite Benchmark is a blend of indices meant to represent the underlying asset allocation of the pool. See disclosures for Composite Benchmark description.
*The Real Return Target Benchmark illustrates an absolute return over cash of 2.25%.
# Community Foundation Sonoma County
## SRI Long Term Pool
### Performance and Asset Allocation
#### as of March 31, 2019

<table>
<thead>
<tr>
<th>Qtr. To Date</th>
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<th>Inception Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRI Long Term Pool</td>
<td>8.48</td>
<td>8.48</td>
<td>3.65</td>
<td>7.19</td>
<td>4.67</td>
<td>9.77</td>
<td>4.89</td>
</tr>
<tr>
<td>SRI Pool Composite Benchmark</td>
<td>8.38</td>
<td>8.38</td>
<td>3.54</td>
<td>7.98</td>
<td>5.47</td>
<td>10.50</td>
<td>5.81</td>
</tr>
<tr>
<td>Spending Benchmark</td>
<td>1.29</td>
<td>1.29</td>
<td>5.25</td>
<td>5.25</td>
<td>5.25</td>
<td>5.25</td>
<td>5.25</td>
</tr>
</tbody>
</table>

**Global Equities**
- Aperio SRI/ESG Global Equity: 12.96, 4.05, N/A, N/A, N/A, 12.82, 11/01/2016
- Equity Blended Benchmark: 12.13, 3.16, N/A, N/A, N/A, 12.18

**Fixed Income**
- BlackRock VBI Fixed Income: 1.41, 2.96, N/A, N/A, N/A, 1.23, 11/01/2016
- BC Gov/Cr 1-5 yr: 1.62, 3.54, N/A, N/A, N/A, 1.40

### Market Value and Allocation

<table>
<thead>
<tr>
<th></th>
<th>Market Value ($)</th>
<th>Allocation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equity</td>
<td>14,907,506</td>
<td>65.32</td>
</tr>
<tr>
<td>Fixed Income</td>
<td>7,656,172</td>
<td>33.55</td>
</tr>
<tr>
<td>Cash</td>
<td>259,189</td>
<td>1.14</td>
</tr>
</tbody>
</table>

March 31, 2019: $22,822,868

- **Public Equity**
  - Target Alloc.: $14,907,506
  - Actual Alloc.: $14,907,506
  - Differences: 0%
- **Fixed Income and Cash**
  - Target Alloc.: $7,915,361
  - Actual Alloc.: $7,915,361
  - Differences: 0%

*The Composite Benchmark is a blend of indices meant to represent the underlying asset allocation of the pool. See disclosures for Composite Benchmark descriptions.*

*The Spending Benchmark is 5.25%. This is the return that needs to be generated on investments to pay an administrative fee of 1.5% and to distribute another 3.75%.*
Benchmark Descriptions

Community Foundation Sonoma County Long-Term Pool Composite Benchmark

- From November 2011 to September 2013 – 40% MSCI AC World Net, 20% BC Aggregate, 5% Citi WGBI UnHedged, 5% BTOP 50 Index, 5% S&P NAM Natural Resources, 25% HFRI Fund of Funds Composite
- From October 2013 to April 2014 – 40% MSCI AC World Net, 15% BC Aggregate, 5% Citi WGBI UnHedged, 5% BTOP 50 Index, 3% S&P NAM Natural Resources, 25% HFRI Fund of Funds Composite, 2% Bloomberg Commodity
- From May 2014 to June 2015- 40% MSCI AC World Net, 15% BC Aggregate, 5% Citi WGBI UnHedged, 30% HFRI Fund of Funds Composite, 2% Bloomberg Commodity
- From July 2015 to Present- 33% S&P 500, 23.5% Barclays US Gov./Credit 1-5year, 20.5% FTSE Developed Markets (Ex. North America), 11.75% Barclays Global Aggregate (Ex USD Float Adjusted), 5.25% FTSE Emerging Markets, 3.5% S&P Mid Cap 400, 2.5% S&P Small Cap 600

Community Foundation Sonoma County Intermediate Term Pool Composite Benchmark

- From July 2003 to April 2012 - 15% S&P 500, 5% Russell 2000, 5% MSCI EAFE Net, 65% BC Gov/Cr Intm, 10% 90-Day T-Bills
- From March 2012 to September 2013 - 20% MSCI AC World Net, 50% BC Aggregate, 5% Bloomberg Commodity, 15% HFRI FoF Composite, 10% 90-Day T-Bills
- From October 2013 to April 2014 - 20% MSCI AC World Net, 40% BC Aggregate, 2.5% Bloomberg Commodity, 17.5% HFRI Fund of Funds Composite, 20% 90-Day T-Bills
- From May 2014 to December 2015 - 20% MSCI AC World Net, 40% BC Aggregate, 17.5% HFRI Fund of Funds Composite, 20% 90-Day T-Bills, 2.5% Real Assets Equal Weighted Index
- From January 2016 to Present - 50% Barclays US Gov./Credit 1-5 year, 25% Barclays Global Aggregate (Ex USD Float Adjusted), 13% S&P 500, 8% FTSE Developed Markets (Ex. North America), 2% FTSE Emerging Markets, 1.25% S&P Mid Cap 400, 0.75% S&P Small Cap 600

Community Foundation Sonoma County SRI Long Term Pool Composite Benchmark

- From May 2001 to June 2012 – 40% S&P 500, 15% Russell 2000, 15% MSCI EAFE Net, 25% BC Agg, 5% 90-Day T-Bills
- From July 2012 to October 2016 – 30.25% S&P 500, 11.75% Russell 2000, 28% MSCI EAFE Net, 25% BC Agg, 5% 90-Day T-Bills
- From November 2016 to Present - 33% S&P 500, 35.25% Barclays US Gov./Credit 1-5 year, 20.5% FTSE Developed Markets (Ex. North America), 5.25% FTSE Emerging Markets, 3.5% S&P Mid Cap 400, 2.5% S&P Small Cap 600

The information and data contained in this report are from sources considered reliable, but their accuracy and completeness is not guaranteed. This report has been prepared for illustrative purposes only and is not intended to be used as a substitute for monthly transaction statements you receive on a regular basis from Morgan Stanley Smith Barney LLC. Please compare the data on this document carefully with your monthly statements to verify its accuracy. The Company strongly encourages you to consult with your own accountants or other advisors with respect to any tax questions.
Performance Appendix

Performance Data below is net of fees. Please see the Morgan Stanley Smith Barney LLC Form ADV Part 2 Brochure for advisory accounts and/or any applicable brokerage account trade confirmation statements for a full disclosure of the applicable charges, fees and expenses. Your Financial Advisor will provide those documents to you upon request.

<table>
<thead>
<tr>
<th>Portfolio Name</th>
<th>QTD</th>
<th>YTD</th>
<th>1 Year</th>
<th>3 Years</th>
<th>5 Years</th>
<th>10 Years</th>
<th>Since Inception</th>
<th>Inception Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aperio SRI/ESG Global Equity</td>
<td>12.96</td>
<td>12.96</td>
<td>4.05</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>11.00</td>
</tr>
<tr>
<td>BlackRock VBI Fixed Income</td>
<td>1.41</td>
<td>1.41</td>
<td>2.96</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>1.00</td>
</tr>
</tbody>
</table>

**Glossary of Terms**

**Active Contribution Return:** The gain or loss percentage of an investment relative to the performance of the investment benchmark.

**Active Exposure:** The percentage difference in weight of the portfolio compared to its policy benchmark.

**Active Return:** Arithmetic difference between the manager’s return and the benchmark’s return over a specified time period.

**Actual Correlation:** A measure of the correlation (linear dependence) between two variables X and Y, with a value between +1 and -1 inclusive. This is also referred to as coefficient of correlation.

**Alpha:** A measure of a portfolio's time weighted return in excess of the market’s return, both adjusted for risk. A positive alpha indicates that the portfolio outperformed the market on a risk-adjusted basis, and a negative alpha indicates the portfolio did worse than the market.

**Best Quarter:** The highest quarterly return for a certain time period.

**Beta:** A measure of the sensitivity of a portfolio’s time weighted return (net of fees) against that of the market. A beta greater than 1.00 indicates volatility greater than the market.

**Consistency:** The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. The higher the consistency figure, the more value a manager has contributed to the product’s performance.

**Core:** Refers to an investment strategy mandate that is blend of growth and value styles without a pronounced tilt toward either style.

**Cumulative Selection Return (Cumulative Return):** Cumulative investment performance over a specified period of time.

**Distribution Rate:** The most recent distribution paid, annualized, and then divided by the current market price. Distribution rate may consist of investment income, short-term capital gains, long-term capital gains, and/or return of capital.

**Down Market Capture:** The ratio of average portfolio returns over the benchmark during periods of negative benchmark return. Lower values indicate better product performance.

**Downside Risk:** A measure similar to standard deviation, but focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. The higher the value, the more risk the product has.

**Downside Semi Deviation:** A statistical calculation that measures the volatility of returns below a minimum acceptable return. This return measure isolates the negative portion of volatility: the larger the number, the greater the volatility.

**Drawdown:** A drawdown is the peak-to-trough decline during a specific period of an investment, fund or commodity.

**Excess over Benchmark:** The percentage gain or loss of an investment relative to the investment's benchmark.

**Excess Return:** Arithmetic difference between the manager’s return and the risk-free return over a specified time period.

**Growth:** A diversified investment strategy which includes investment selections that have capital appreciation as the primary goal, with little or no dividend payouts. These strategies can include reinvestment in expansion, acquisitions, and/or research and development opportunities.

**Growth of Dollar:** The aggregate amount an investment has gained or lost over a certain time period, also referred to as Cumulative Return, stated in terms of the amount to which an initial dollar investment would have grown over the given time period.

**Investment Decision Process (IDP):** A model for structuring the investment process and implementing the correct attribution methodologies. The IDP includes every decision made concerning the division of the assets under management over the various asset categories. To analyze each decision’s contribution to the total return, a modeling approach must measure the marginal value of every individual decision. In this respect, the hierarchy of the decisions becomes very important. We therefore use the IDP model, which serves as a proper foundation for registering the decisions and relating them to each other.

**Information Ratio:** Measured by dividing the active rate of return by the tracking error. The higher the Information Ratio, the more value-added contribution by the manager.

**Jensen's Alpha:** The Jensen's alpha measure is a risk-adjusted performance measure that represents the average return on a portfolio or investment above or below that predicted by the capital asset pricing model
**SA/CF (Separate Account/Comingled Fund):** Represents an acronym for Separate Account and Commingled Fund investment vehicles.

**Sector Benchmark:** A market index that serves as a proxy for a sector within an asset class.

**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 the absolute rate of return per unit of risk. The higher the value, the better the product’s historical risk-adjusted performance results in.

**Standard Deviation:** A statistical measure of the range of a portfolio's performance; the variability of a return around its average return over a specified time period.

**Total Fund Benchmark:** The policy benchmark for a complete asset pool that could consist of multiple investment mandates.

**Total Fund Composite:** The aggregate of multiple portfolios within an asset pool or household.

**Tracking Error:** A measure of standard deviation for a portfolio's investment performance, relative to the performance of an appropriate market benchmark.

**Treynor Ratio:** A ratio that divides the excess return (above the risk free rate) by the portfolio’s beta to arrive at a unified measure of risk adjusted return. It is generally used to rank portfolios, funds and benchmarks. A higher ratio is indicative of higher returns per unit of market risk. This measurement can help determine if the portfolio is reaching its goal of increasing returns while managing market risk.

**Up Market Capture:** The ratio of average portfolio returns over the benchmark during periods of positive benchmark return. Higher values indicate better product performance.

**Upside Semi Deviation:** A statistical calculation that measures the volatility of returns above an acceptable return. This return measure isolates the positive portion of volatility: the larger the number, the greater the volatility.

**Value:** A diversified investment strategy that includes investment selections which tend to trade at a lower price relative to its dividends, earnings, and sales. Common attributes are stocks that include high dividend, low price-to-book ratio, and/or low price-to-earnings ratio.

**Worst Quarter:** The lowest rolling quarterly return for a certain time period.

### Performance Disclosures

*Performance results are annualized for time periods greater than one year and include all cash and cash equivalents, realized and unrealized capital gains and losses, and dividends, interest and income. The investment results depicted herein represent historical performance. As a result of recent market activity, current performance may vary from the figures shown. Past performance is not a guarantee of future results.***

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Benchmark indices and blends included in this material are for informational purposes only, are provided solely as a comparison tool and may not reflect the underlying composition and/or investment objective(s) associated with the account(s). Indices are unmanaged and not available for direct
Past performance is no guarantee of future results.

Investing involves market risk, including possible loss of principal. Growth investing does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations. Value investing involves the risk that the market may not recognize that securities are undervalued and they may not appreciate as anticipated. Small and mid-capitalization companies may lack the financial resources, product diversification and competitive strengths of larger companies. The securities of small capitalization companies may not trade as readily as, and be subject to higher volatility than those of larger, more established companies. Bond funds and bond holdings have the same interest rate, inflation and credit risks that are associated with the underlying bonds owned by the funds. The return of principal in bond funds, and in funds with significant bond holdings, is not guaranteed. International securities’ prices may carry additional risks, including foreign economic, political, monetary and/or legal factors, changing currency exchange rates, foreign taxes and differences in financial and accounting standards. International investing may not be for everyone. These risks may be magnified in emerging markets. Alternative investments, including private equity funds, real estate funds, hedge funds, managed futures funds, and funds of hedge funds, private equity, and managed futures funds, are speculative and entail significant risks that can include losses due to leveraging or other speculative investment practices, lack of liquidity, volatility of returns, restrictions on transferring interests in a fund, potential lack of diversification, absence and/or delay of information regarding valuations and pricing, complex tax structures and delays in tax reporting, less regulation and higher fees than mutual funds and risks associated with the operations, personnel and processes of the advisor. Master Limited Partnerships (MLPs) are limited partnerships or limited liability companies that are taxed as partnerships and whose interests (limited partnership units or limited liability company units) are traded on securities exchanges like shares of common stock. Currently, most MLPs operate in the energy, natural resources or real estate sectors. Investments in MLP interests are subject to the risks generally applicable to companies in the energy and natural resources sectors, including commodity pricing risk, supply and demand risk, depletion risk and exploration risk; and MLP interests in the real estate sector are subject to special risks, including interest rate and property value fluctuations, as well as risks related to general and economic conditions. Because of their narrow focus, MLPs maintain exposure to price volatility of commodities and/or underlying assets and tend to be more volatile than investments that diversify across many sectors and companies. MLPs are also subject to additional risks including: investors having limited control and rights to vote on matters affecting the MLP, limited access to capital, cash flow risk, lack of liquidity, dilution risk, conflict of interests, and limited call rights related to acquisitions.

Mortgage backed securities also involve prepayment risk, in that faster or slower prepayments than expected on underlying mortgage loans can dramatically alter the yield-to-maturity of a mortgage-backed security and prepayment risk includes the possibility that a fund may invest the proceeds at generally lower interest rates.

Tax managed funds may not meet their objective of being tax-efficient. Real estate investments are subject to special risks, including interest rate and property value fluctuations, as well as risks related to general and economic conditions. High yield fixed income securities, also known as “junk bonds”, are considered speculative, involve greater risk of default and tend to be more volatile than investment grade fixed income securities. Credit quality is a measure of a bond issuer’s creditworthiness, or ability to repay interest and principal to bondholders in a timely manner. The credit ratings shown are based on security rating as provided by Standard & Poor’s, Moody's and/or Fitch, as applicable. Credit ratings are issued by the rating agencies for the underlying securities in the fund and not the fund itself, and the credit quality of the securities in the fund does not represent the stability or safety of the fund. Credit ratings shown range from AAA, being the highest, to D, being the lowest based on S&P and Fitch’s classification (the equivalent of Aaa and C, respectively, by Moody’s). Ratings of BBB or higher by S&P and Fitch (Baa or higher by Moody’s) are considered to be investment grade-quality securities. If two or more of the agencies have assigned different ratings to a security, the highest rating is applied. Securities that are not rated by all three agencies are listed as “NR”.

“Alpha tilt strategies comprise a core holding of stocks that mimic a benchmark type index such as the S&P 500 to which additional securities are added to help tilt the fund toward potentially outperforming the market in an effort to enhance overall investment returns. Tilt strategies are subject to significant timing risk and could potentially expose investors to extended periods of underperformance.”

Custom Account Index: The Custom Account Index is an investment benchmark based on your historical target allocations and/or manager selection that you may use to evaluate the performance of your account. The Custom Account index does take into consideration certain changes that may have occurred in your portfolio since the inception of your account, i.e., asset class and/or manager changes. However, in some circumstances, it may not be an appropriate benchmark for use with your specific account composition. For detailed report of the historical composition of this blend please contact your Financial Advisor.

Peer Groups

Peer Groups are a collection of similar investment strategies that essentially group investment products that share the same investment approach. Peer Groups are used for comparison purposes to compare and illustrate a clients investment portfolio versus its peer across various quantitative metrics like performance and risk. Peer Group comparison is conceptually another form of benchmark comparison whereby the actual investment can be ranked versus its peer across various quantitative metrics.

All Peer Group data are provided by Investment Metrics, LLC.

The URL below provides all the definitions and methodology about the various Peer Groups

https://www.invmetrics.com/style-peer-groups

Peer Group Ranking Methodology

A percentile rank denotes the value of a product in which a certain percent of observations fall within a peer group. The range of percentile rankings is between 1 and 100, where 1 represents a high statistical value and
but have significant differences from traditional alternative investment vehicles. Non-traditional alternative strategy vehicles may behave like, have characteristics of, or employ various investment strategies and techniques for both hedging and more speculative purposes such as short-selling, leverage, derivatives, and options, which can increase volatility and the risk of investment loss. Characteristics such as correlation to traditional markets, investment strategy, and market sector exposure can play arole in the classification of a traditional security being classified as alternative.

Traditional alternative investment vehicles are illiquid and usually are not valued daily. The estimated valuation provided will be as of the most recent date available and will be included in summaries of your assets. Such valuation may not be the most recent provided by the fund in which you are invested. No representation is made that the valuation is a market value or that the interest could be liquidated at this value. We are not required to take any action with respect to your investment unless valid instructions are received from you in a timely manner. Some positions reflected herein may not represent interests in the fund, but rather redemption proceeds withheld by the issuer pending final valuations which are not subject to the investment performance of the fund and may or may not accrue interest for the length of the withholding. Morgan Stanley does not engage in an independent valuation of your alternative investment assets. Morgan Stanley provides periodic information to you including the market value of an alternative investment vehicle based on information received from the management entity of the alternative investment vehicle or another service provider.

Traditional alternative investment vehicles often are speculative and include a high degree of risk. Investors should carefully review and consider potential risks before investing. Certain of these risks may include but are not limited to: • Loss of all or a substantial portion of the investment due to leveraging, short-selling, or other speculative practices; • Lack of liquidity in that there may be no secondary market for a fund; • Volatility of returns; • Restrictions on transferring interests in a fund; • Potential lack of diversification and resulting higher risk due to concentration of trading authority when a single advisor is utilized; • Absence of information regarding valuations and pricing; • Complex tax structures and delays in tax reporting; • Less regulation and higher fees than mutual funds; and • Risks associated with the operations, personnel, and processes of the manager. As a diversified global financial services firm, Morgan Stanley Wealth Management engages in a broad spectrum of activities including financial advisory services, investment management activities, sponsoring and managing private investment funds, engaging in broker-dealer transactions and principal securities, commodities and foreign exchange transactions, research publication, and other activities. In the ordinary course of its business, Morgan Stanley Wealth Management therefore engages in activities where Morgan Stanley Wealth Management’s interests may conflict with the interests of its clients, including the private investment funds it manages. Morgan Stanley Wealth Management can give no assurance that conflicts of interest will be resolved in favor of its clients or any such fund.

Indices are unmanaged and investors cannot directly invest in them. Composite index results are shown for illustrative purposes and do not represent the performance of a specific investment. Past performance is no guarantee of future results. Actual results may vary. Diversification does not assure a profit or protect against loss in a declining market. Any performance or related information presented has not been adjusted to reflect the impact of the additional fees paid to a placement agent by an investor (for Morgan Stanley placement clients, a one-time upfront Placement Fee of up to 3%, and for Morgan Stanley investment advisory clients, an annual advisory fee of up to 2.5%), which would result in a substantial reduction in the returns if such fees were incorporated.

For most investment advisory clients, the program account will be charged an asset-based wrap fee every quarter ("the Fee"). In general, the Fee covers investment advisory services and reporting. In addition to the Fee, clients will pay the fees and expenses of any fund in which the account is invested. Fund fees and expenses are charged directly to the pool of assets the fund invests in and impact the valuations. Clients must understand that these fees and expenses are an additional cost and will not be included in the Fee amount in the account statements.

As fees are deducted quarterly, the compounding effect will be to increase the impact of the fees by an amount directly related to the gross account performance. For example, for an account with an initial value of $100,000 and a 2.5% annual fee, if the gross performance is 5% per year over a three year period, the compounding effect of the fees will result in a net annual compound rate of return of approximately 2.40%.
per year over a three year period, and the total value of the client’s portfolio at the end of the three year period would be approximately $115,762.50 without the fees and $107,372.63 with the fees. Please see the applicable Morgan Stanley Smith Barney LLC Form ADV Part 2A for more information including a description of the fee schedule. It is available at www.morganstanley.com/ADV or from your Financial Advisor/Private Wealth Advisor.

Alternative investments involve complex tax structures, tax inefficient investing, and delays in distributing important tax information. Individual funds have specific risks related to their investment programs that will vary from fund to fund. Clients should consult their own tax and legal advisors as Morgan Stanley does not provide tax or legal advice. Interests in alternative investment products are offered pursuant to the terms of the applicable offering memorandum, are distributed by Morgan Stanley Smith Barney LLC and certain of its affiliates, and (1) are not FDIC-insured, (2) are not deposits or other obligations of Morgan Stanley or any of its affiliates, (3) are not guaranteed by Morgan Stanley and its affiliates, and (4) involve investment risks, including possible loss of principal. Morgan Stanley Smith Barney LLC is a registered broker-dealer, not a bank.

SIPC insurance does not apply to precious metals, other commodities, or traditional alternative investments.

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Money Market Funds

You could lose money in Money Market Funds. Although MMFs classified as government funds (i.e., MMFs that invest 99.5% of total assets in cash and/or securities backed by the U.S government) and retail funds (i.e., MMFs open to natural person investors only) seek to preserve value at $1.00 per share, they cannot guarantee they will do so. The price of other MMFs will fluctuate and when you sell shares they may be worth more or less than originally paid. MMFs may impose a fee upon sale or temporarily suspend sales if liquidity falls below required minimums. During suspensions, shares would not be available for purchases, withdrawals, check writing or ATM debits. A MMF investment is not insured or guaranteed by the Federal Deposit Insurance Corporation or other government agency.