

As of June 30, 2020

Quarterly Review

FCERS 10-15-20



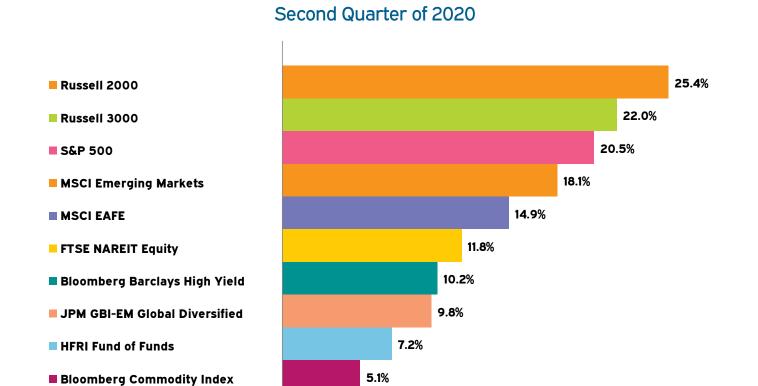


Agenda

- 1. The World Markets in the Second Quarter 2020
- 2. Executive Summary
  - Aggregate Plan Overview
  - Manager Highlights
  - Second Quarter Manager Summary
  - Watch List
  - Market Environment 2Q20 Overview
- 3. 2Q20 Review
- 4. Glossary and Notes

# The World Markets Second Quarter of 2020





4.2%

10%

15%

20%

25%

30%

2.9%

5%

0%

The World Markets<sup>1</sup>

■ Bloomberg Barclays US TIPS

■ Bloomberg Barclays Aggregate

<sup>&</sup>lt;sup>1</sup> Source: InvestorForce.



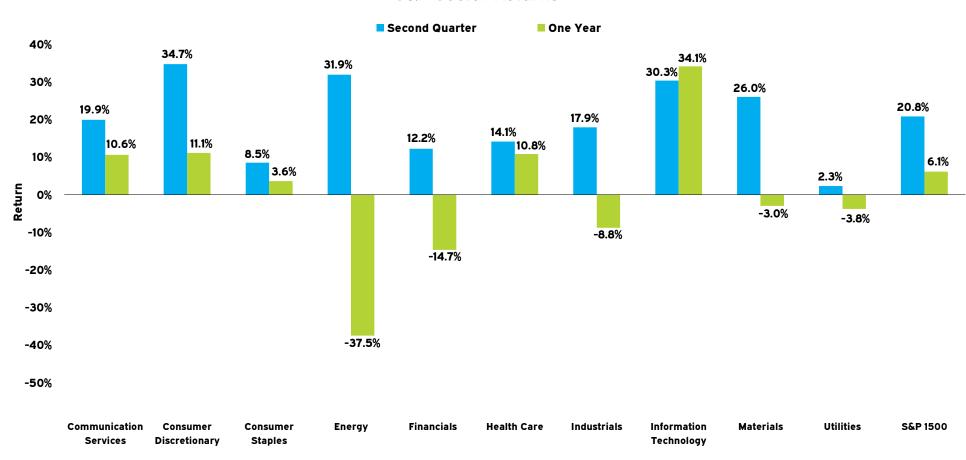
#### Index Returns<sup>1</sup>

|                                        |      | (%)   | (%)   | (%)  | (%)  | (%)  |
|----------------------------------------|------|-------|-------|------|------|------|
| Domestic Equity                        |      |       |       |      |      |      |
| S&P 500                                | 20.5 | -3.1  | 7.5   | 10.7 | 10.7 | 14.0 |
| Russell 3000                           | 22.0 | -3.5  | 6.5   | 10.0 | 10.0 | 13.7 |
| Russell 1000                           | 21.8 | -2.8  | 7.5   | 10.6 | 10.5 | 14.0 |
| Russell 1000 Growth                    | 27.8 | 9.8   | 23.3  | 19.0 | 15.9 | 17.2 |
| Russell 1000 Value                     | 14.3 | -16.3 | -8.8  | 1.8  | 4.6  | 10.4 |
| Russell MidCap                         | 24.6 | -9.1  | -2.2  | 5.8  | 6.8  | 12.3 |
| Russell MidCap Growth                  | 30.3 | 4.2   | 11.9  | 14.8 | 11.6 | 15.1 |
| Russell MidCap Value                   | 19.9 | -18.1 | -11.8 | -0.5 | 3.3  | 10.3 |
| Russell 2000                           | 25.4 | -13.0 | -6.6  | 2.0  | 4.3  | 10.5 |
| Russell 2000 Growth                    | 30.6 | -3.1  | 3.5   | 7.9  | 6.9  | 12.9 |
| Russell 2000 Value                     | 18.9 | -23.5 | -17.5 | -4.3 | 1.3  | 7.8  |
| Foreign Equity                         |      |       |       |      |      |      |
| MSCI ACWI (ex. US)                     | 16.1 | -11.0 | -4.8  | 1.1  | 2.3  | 5.0  |
| MSCI EAFE                              | 14.9 | -11.3 | -5.1  | 0.8  | 2.1  | 5.7  |
| MSCI EAFE (Local Currency)             | 12.6 | -10.5 | -4.2  | 1.3  | 2.6  | 6.9  |
| MSCI EAFE Small Cap                    | 19.9 | -13.1 | -3.5  | 0.5  | 3.8  | 8.0  |
| MSCI Emerging Markets                  | 18.1 | -9.8  | -3.4  | 1.9  | 2.9  | 3.3  |
| MSCI Emerging Markets (Local Currency) | 16.7 | -5.5  | 1.4   | 4.5  | 5.1  | 6.0  |
| Fixed Income                           |      |       |       |      |      |      |
| Bloomberg Barclays Universal           | 3.8  | 5.2   | 7.9   | 5.2  | 4.4  | 4.1  |
| Bloomberg Barclays Aggregate           | 2.9  | 6.1   | 8.7   | 5.3  | 4.3  | 3.8  |
| Bloomberg Barclays US TIPS             | 4.2  | 6.0   | 8.3   | 5.0  | 3.7  | 3.5  |
| Bloomberg Barclays High Yield          | 10.2 | -3.8  | 0.0   | 3.3  | 4.8  | 6.7  |
| JPM GBI-EM Global Diversified          | 9.8  | -6.9  | -2.8  | 1.1  | 2.3  | 1.6  |
| Other                                  |      |       |       |      |      |      |
| FTSE NAREIT Equity                     | 11.8 | -18.7 | -13.0 | 0.0  | 4.1  | 9.1  |
| Bloomberg Commodity Index              | 5.1  | -19.4 | -17.4 | -6.1 | -7.7 | -5.8 |
| HFRI Fund of Funds                     | 7.2  | -2.2  | -0.2  | 2.0  | 1.4  | 2.7  |

<sup>&</sup>lt;sup>1</sup> Source: InvestorForce.



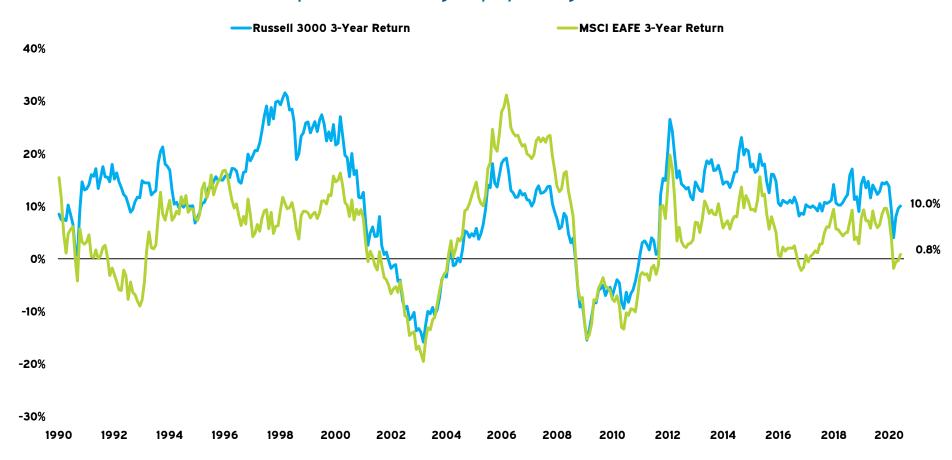




<sup>&</sup>lt;sup>1</sup> Source: InvestorForce. Represents S&P 1500 (All Cap) data.



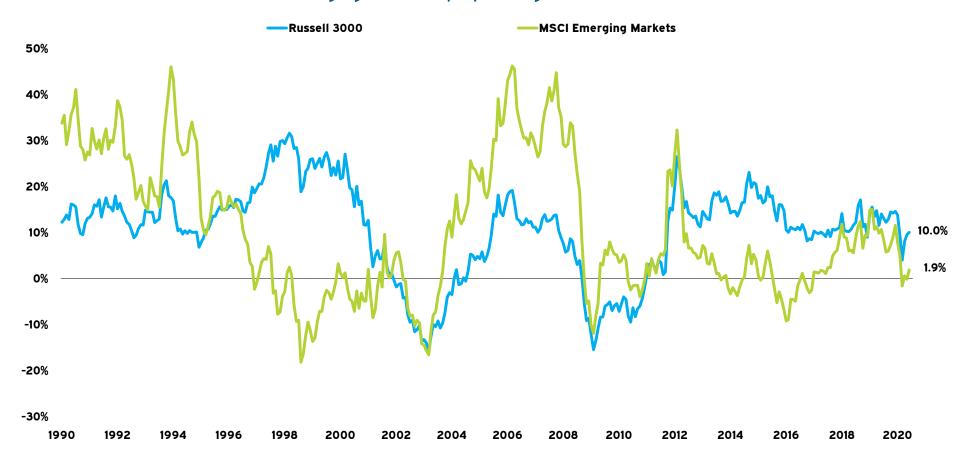
### US and Developed Market Foreign Equity Rolling Three-Year Returns<sup>1</sup>



<sup>&</sup>lt;sup>1</sup> Source: InvestorForce.



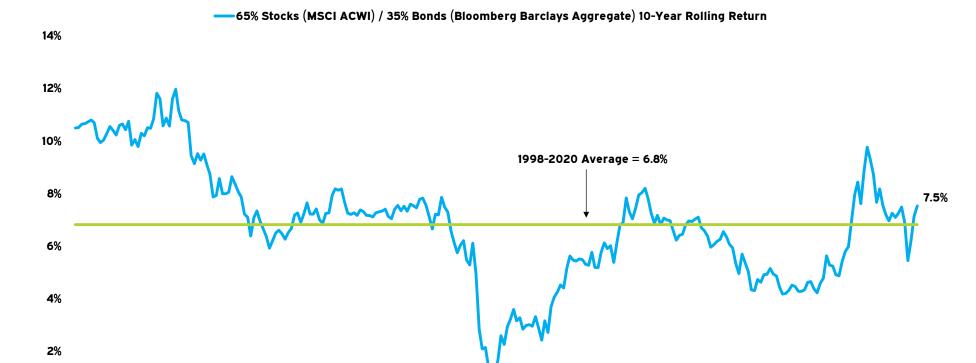
### US and Emerging Market Equity Rolling Three-Year Returns<sup>1</sup>



<sup>&</sup>lt;sup>1</sup> Source: InvestorForce.



### Rolling Ten-Year Returns: 65% Stocks and 35% Bonds<sup>1</sup>

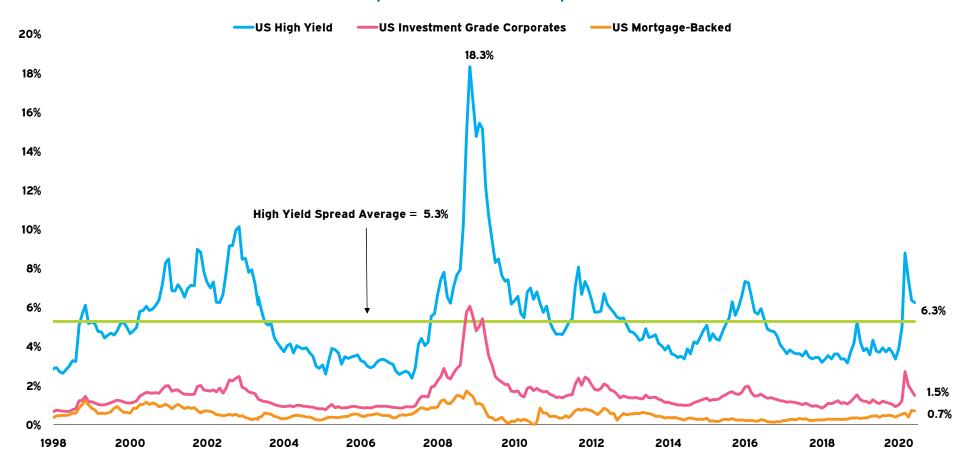


0%

<sup>&</sup>lt;sup>1</sup> Source: InvestorForce.



### Credit Spreads vs. US Treasury Bonds<sup>1,2</sup>

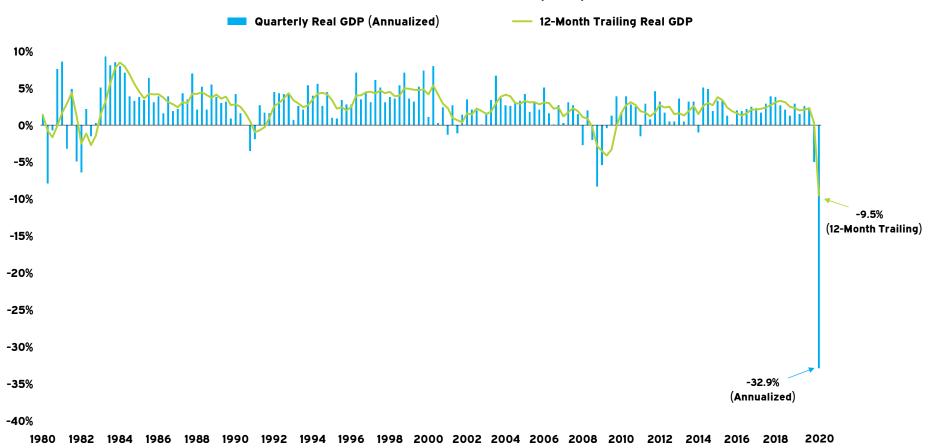


<sup>1</sup> Source: Barclays Live. Data represents the OAS.

<sup>&</sup>lt;sup>2</sup> The median high yield spread was 4.8% from 1997-2020.



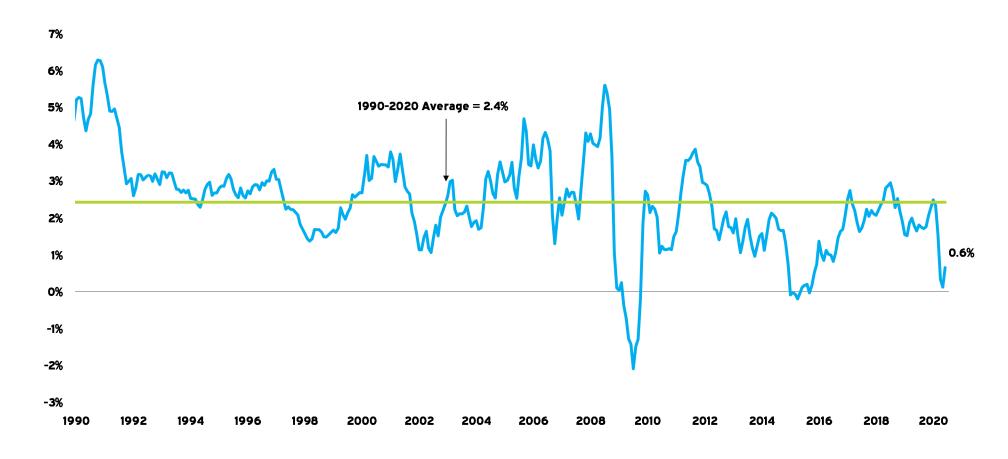
### US Real Gross Domestic Product (GDP) Growth<sup>1</sup>



<sup>1</sup> Source: Bureau of Economic Analysis. Data is as of Q2 2020 and represents the first estimate.



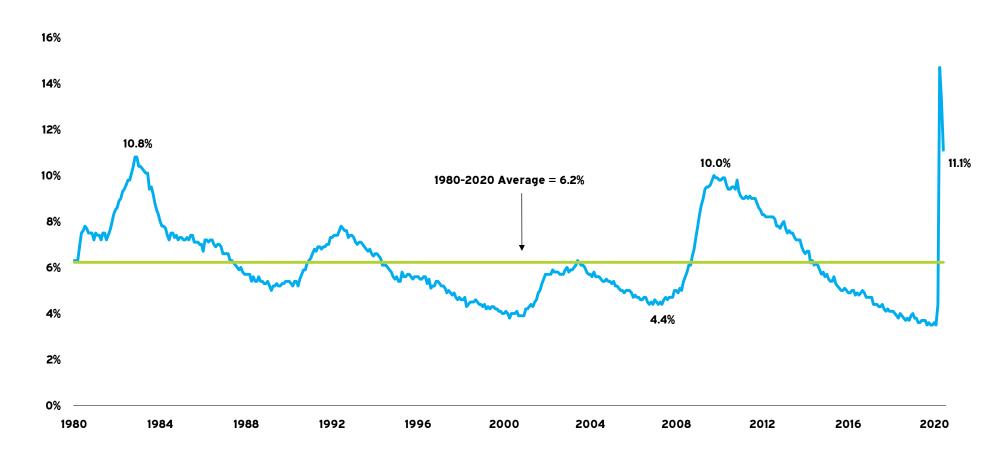
# US Inflation (CPI) Trailing Twelve Months<sup>1</sup>



Source: Bureau of Labor Statistics. Data is non-seasonally adjusted CPI, which may be volatile in the short-term. Data is as of June 30, 2020.



### US Unemployment<sup>1</sup>



<sup>1</sup> Source: Bureau of Labor Statistics. Data is as of June 30, 2020.

Executive Summary As of June 30, 2020



**Aggregate Plan Overview** 

The value of the San Jose Federated City Employees' Retirement System assets was \$2.18 billion on June 30, 2020, an increase of approximately \$210.8 million from the end of the prior quarter. The System had net cash outflows of \$13.1 million during the quarter.

- The Retirement System's net of fees performance for the quarter was +11.1%, compared to the Policy Benchmark (+10.9%) and Investable Benchmark Portfolio (+10.1%) returns while outperforming the peer median return of +10.1%.
- The Retirement System returned +3.6% over the trailing one-year period, compared to the Policy Benchmark (+3.9%) and Investable Benchmark Portfolio (+3.1%) returns, while outperforming the peer median return of +1.3%. The Retirement System's standard deviation of returns was 11.2% over the trailing one-year period, exhibiting lower volatility than the peer median (+12.1%).
  - Growth returned +14.6% for the quarter and +1.2% over the trailing one-year period, versus +14.4% and +1.6% for the Growth Benchmark over the same periods, respectively.
  - Low Beta returned +1.7% for the quarter and +2.6% over the trailing one-year period versus +0.2% and +2.8% for the Low Beta Benchmark over the same periods, respectively.
  - Other returned +0.8% for the quarter and +1.2% over the trailing one-year period, versus +0.7% and -4.7% for the Other Benchmark over the same periods, respectively.
- During the quarter, the System added seven new investments: Arbour Lane Credit Opportunity Fund II, LP (Private Debt), BlackRock Long Term Gov Bonds (Long-Term Gov Bonds), Eagle Point Defensive Income Fund (Private Debt), Mellon High Yield Beta (High Yield Bonds), Rockpoint Real Estate Fund VI, LP (Private Real Estate), Voya Securitized Credit (Investment Grade Bonds), and Voya TALF (Investment Grade Bonds). Additionally, the Retirement System terminated BlackRock 1-3 Yr Gov/Credit (Short-Term Investment Grade Bonds), Credit Suisse Risk Parity (Commodities), Keynes Lev Quant Strat (Macro Hedge Fund), Pharo Management (Macro Hedge Fund), Senator Global Opportunity (Event Driven Hedge Fund), and Systematica (Macro Hedge Fund).



**Manager Highlights** 

#### Artisan

 Artisan Global Opportunities returned +27.8% for the quarter, outperforming the MSCI ACWI Growth NR USD benchmark by 270 basis points. Compared to peers, Artisan ranks in the 14th and 10th percentiles for the quarter and since inception periods, respectively.

#### Oberweis

• Oberweis International Opportunities returned +47.4% for the quarter and +16.0% over the trailing one-year period, compared to the MSCI World ex USA Small Cap Growth benchmark returns of +26.4% and +4.8% over the same time periods. Compared to peers, Oberweis ranks in the 1st and 11th percentiles for the quarter and since inception periods, respectively.

#### **RWC**

• RWC Emerging Markets Equity returned +27.1% for the quarter, outperforming the MSCI EM benchmark by 900 basis points. Compared to peers, RWC ranks in the 15th and 36th percentiles for the quarter and since inception periods, respectively.

#### Wellington

• Wellington Iguazu Partners returned +6.6% for the quarter and +14.7% over the trailing one-year period, versus the blended benchmark returns of +11.0% and -1.1% over the same periods. Compared to peers, Wellington ranks in the 98th and 1st percentiles for the quarter and since inception periods, respectively.



### Second Quarter Manager Summary

| Investment Manager           | Asset Class             | Changes/<br>Announcements | Meketa<br>Recommendation <sup>1</sup> | Comments                     |
|------------------------------|-------------------------|---------------------------|---------------------------------------|------------------------------|
| Artisan Global Value         | Global Equity           |                           |                                       |                              |
| Artisan Global Opportunities | Global Equity           |                           |                                       |                              |
| Cove Street Small Cap Value  | US Equity               |                           | Hold                                  | Watch List                   |
| Oberweis International Opps. | International Equity    |                           |                                       |                              |
| Dimensional EM Value         | Emerging Markets Equity | Yes                       | Hold                                  | Personnel Change, Watch List |
| GQG Partners Global EM       | Emerging Markets Equity |                           |                                       |                              |
| RWC Emerging Markets Equity  | Emerging Markets Equity | Yes                       |                                       | Ownership Change             |
| Wellington EM Systematic     | Emerging Markets Equity |                           |                                       |                              |
| BlueBay EM Select Debt       | Emerging Markets Debt   |                           | Hold                                  | Watch List                   |
| Iguazu Partners LP Fund      | Emerging Markets Debt   |                           |                                       |                              |
| Voya TALF                    | Investment Grade Bonds  |                           |                                       | <del></del>                  |
| Voya Securitized Credit      | Investment Grade Bonds  |                           |                                       |                              |

<sup>&</sup>lt;sup>1</sup> The Meketa Investment Group recommendations are based on the noted organizational or resource changes at each manager.



**Watch List** 

### Watch List<sup>1,2</sup>

| Investment Manager            | Asset Class               | Watch List Status | Comments              |
|-------------------------------|---------------------------|-------------------|-----------------------|
| Cove Street Small Cap Value   | US Equity                 | Monitoring        | Underperformance      |
| Dimensional Fund Adv EM Value | Emerging Markets Equity   | Monitoring        | Underperformance      |
| BlueBay EM Select Debt        | Emerging Markets Debt     | Monitoring        | Underperformance      |
| DE Shaw                       | Market Neutral Strategies | Monitoring        | Transparency Concerns |

<sup>&</sup>lt;sup>1</sup> Watch List excludes Private Markets and Passive Funds.

<sup>&</sup>lt;sup>2</sup> Placement on the Watch List includes qualitative reasons and manager underperformance versus the appropriate benchmark over a three and or five year period as outlined in the Investment Policy Statement.



**Second Quarter Manager Summary** 

#### **Cove Street**

• Over the three-year period, Cover Street (-4.7%) has underperformed the Russell 2000 Value by 40 basis points. Since inception in May 2014, Cove Street has underperformed the benchmark by 100 basis points per year, on average, and ranked in the 72nd percentile compared to peers.

#### **Dimensional**

- During the quarter, Dimensional had one addition (Analyst) and one departure (Portfolio Manager) to its investment team.
- Over the three-year period, Dimensional (-3.9%) has underperformed the MSCI Emerging Markets Value by 130 basis points. Since inception in November 2016, Dimensional has underperformed the benchmark by 20 basis points per year, on average, and ranked in the 87th percentile compared to peers.

#### **RWC**

 During the first quarter of 2020, RWC completed a shareholder transaction with a new long-term partner, Lincoln Peak Capital. The resulting structure increased internal ownership to 70% and the RWC board is now led by Peter Clark as Chairperson, with five Directors appointed by RWC and two by Lincoln Peak.

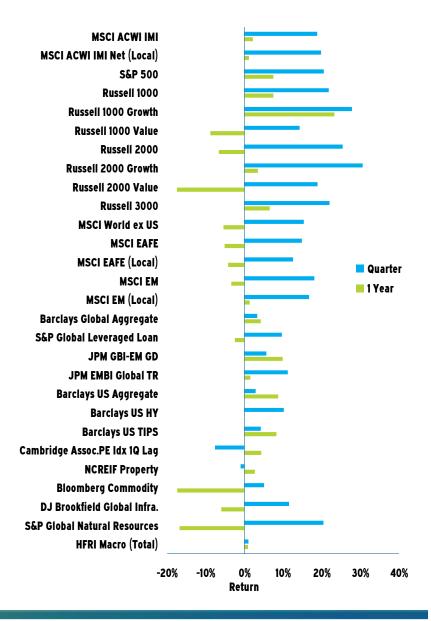
#### BlueBay

• Over the three-year period, BlueBay (+0.9%) has underperformed the JPM Blended Emerging Markets Index by 150 basis points. Since inception in July 2015, BlueBay (+2.0%) has underperformed the blended benchmark by 190 basis points per year, on average, and ranked in the 81st percentile compared to peers.



#### Market Environment - 2Q20 Overview

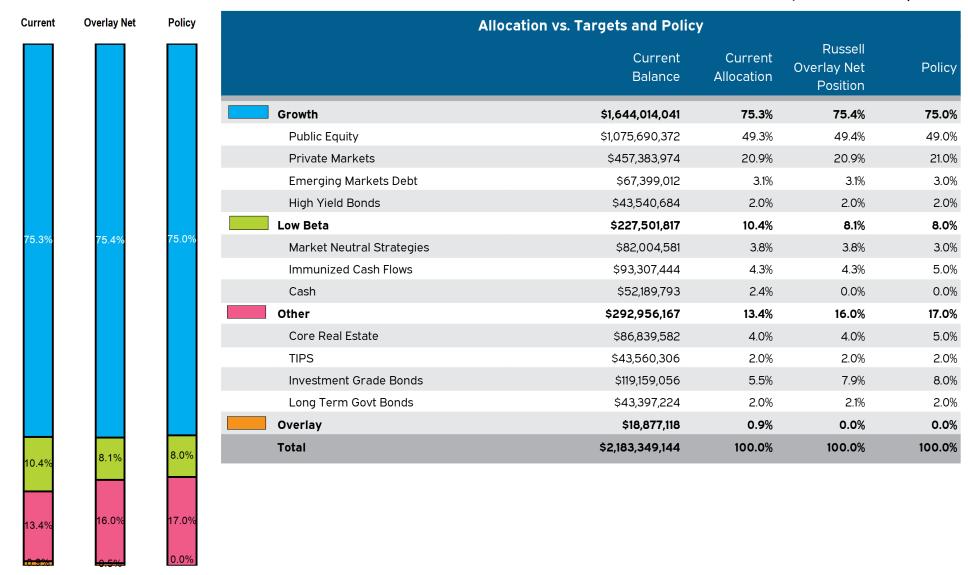
| Benchmark                              | Scope                                      | 2Q20<br>(%) | 1 YR<br>(%) | 3 YR<br>(%) | 5YR<br>(%) | 10 YR<br>(%) |
|----------------------------------------|--------------------------------------------|-------------|-------------|-------------|------------|--------------|
| Global Equity                          |                                            |             |             |             |            |              |
| MSCI ACWI IMI                          | World                                      | 19.8        | 1.2         | 5.5         | 6.1        | 9.1          |
| MSCI ACWI IMI Net (Local)              | World (Local Currency)                     | 18.9        | 2.2         | 6.1         | 6.6        | 9.8          |
| Domestic Equity                        |                                            |             |             |             |            |              |
| S&P 500                                | Large Core                                 | 20.5        | 7.5         | 10.7        | 10.7       | 14.0         |
| Russell 1000                           | Large Core                                 | 21.8        | 7.5         | 10.6        | 10.5       | 14.0         |
| Russell 1000 Growth                    | Large Growth                               | 27.8        | 23.3        | 19.0        | 15.9       | 17.2         |
| Russell 1000 Value                     | Large Value                                | 14.3        | -8.8        | 1.8         | 4.6        | 10.4         |
| Russell 2000                           | Small Core                                 | 25.4        | -6.6        | 2.0         | 4.3        | 10.5         |
| Russell 2000 Growth                    | Small Growth                               | 30.6        | 3.5         | 7.9         | 6.9        | 12.9         |
| Russell 2000 Value                     | Small Value                                | 18.9        | -17.5       | -4.3        | 1.3        | 7.8          |
| Russell 3000                           | All Cap Core                               | 22.0        | 6.5         | 10.0        | 10.0       | 13.7         |
| International Equity                   |                                            |             |             |             |            |              |
| MSCI World ex US                       | World ex-US                                | 15.3        | -5.4        | 0.8         | 2.0        | 5.4          |
| MSCI EAFE                              | International Developed                    | 14.9        | -5.1        | 0.8         | 2.1        | 5.7          |
| MSCI EAFE (Local)                      | International Developed (Local Currency)   | 12.6        | -4.2        | 1.3         | 2.6        | 6.9          |
| MSCI EM                                | Emerging Markets                           | 18.1        | -3.4        | 1.9         | 2.9        | 3.3          |
| MSCI EM (Local)                        | Emerging Markets<br>(Local Currency)       | 16.7        | 1.4         | 4.5         | 5.1        | 6.0          |
| Global Fixed Income                    |                                            |             |             |             |            |              |
| Barclays Global Aggregate              | Global Core Bonds                          | 3.3         | 4.2         | 3.8         | 3.6        | 2.8          |
| S&P Global Leveraged Loan              | Bank Loans                                 | 9.7         | -2.5        | 1.6         | 2.7        | 3.9          |
| JPM GBI-EM GD                          | Emerging Markets<br>Bonds (Local Currency) | 5.7         | 9.9         | 7.9         | 8.0        | 7.6          |
| JPM EMBI Global TR                     | Emerging Market Bonds                      | 11.2        | 1.5         | 3.3         | 5.1        | 5.8          |
| Domestic Fixed Income                  |                                            |             |             |             |            |              |
| Barclays US Aggregate                  | Core Bonds                                 | 2.9         | 8.7         | 5.3         | 4.3        | 3.8          |
| Barclays US HY                         | High Yield                                 | 10.2        | 0.0         | 3.3         | 4.8        | 6.7          |
| Barclays US TIPS                       | Inflation                                  | 4.2         | 8.3         | 5.0         | 3.7        | 3.5          |
| Other                                  |                                            |             |             |             |            |              |
| Cambridge Associates PE Index 1Qtr Lag | Private Equity                             | -7.6        | 4.4         | 13.4        | 12.5       | 13.9         |
| NCREIF Property                        | Real Estate                                | -1.0        | 2.7         | 5.4         | 6.8        | 9.7          |
| Bloomberg Commodity                    | Commodities                                | 5.1         | -17.4       | -6.1        | -7.7       | -5.8         |
| DJ Brookfield Global Infrastructure    | Infrastructure                             | 11.6        | -6.0        | 2.8         | 3.9        | 9.7          |
| S&P Global Natural Resources           | Natural Resources                          | 20.5        | -16.8       | -0.1        | 0.9        | 1.5          |
| HFRI Macro                             | Hedge Funds                                | 1.0         | 0.9         | 1.5         | 0.8        | 1.3          |



### **2Q20 Review**



#### Total Fund | As of June 30, 2020



<sup>1</sup> Data in the column titled "Russell Overlay Net Position" is based on physical exposures, adjusted for synthetic positions provided by Russell Investments.



Total Fund | As of June 30, 2020

|                                              | Asset Class N        | et Perforr        | nance      | Summ        | ary                  |             |              |              |               |                    |                  |
|----------------------------------------------|----------------------|-------------------|------------|-------------|----------------------|-------------|--------------|--------------|---------------|--------------------|------------------|
|                                              | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%)  | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception I<br>(%) | nception<br>Date |
| Total Fund Aggregate                         | 2,183,349,144        | 100.0             | 11.1       | -1.0        | 3.6                  | 3.6         | 4.6          | 4.1          | 5.5           | 6.5                | Jan-94           |
| Policy Benchmark                             |                      |                   | 10.9       | -1.0        | 3.9                  | 3.9         | 5.1          | 4.9          | 6.4           | 6.8                | Jan-94           |
| Investable Benchmark Portfolio               |                      |                   | 10.1       | -1.8        | 3.1                  | 3.1         | 4.5          | 4.1          | 5.4           |                    | Jan-94           |
| Low-Cost Passive Portfolio                   |                      |                   | 11.1       | -5.0        | 0.1                  | 0.1         |              |              |               |                    | Jan-94           |
| 60/40 MSCI ACWI IMI/BBgBarc Global Aggregate |                      |                   | 13.1       | -2.7        | 2.9                  | 2.9         | 5.2          | 5.3          | 6.8           |                    | Jan-94           |
| Liability Benchmark Portfolio                |                      |                   | 0.2        | 21.2        | 25.4                 | 25.4        |              |              |               |                    | Jan-94           |
| InvMetrics Public DB > \$1B Net Median       |                      |                   | 10.1       | -4.3        | 1.3                  | 1.3         | 5.0          | 5.4          | 7.8           | 7.1                | Jan-94           |
| InvMetrics Public DB > \$1B Net Rank         |                      |                   | 29         | 1           | 14                   | 14          | 69           | 97           | 99            | 82                 | Jan-94           |
| Growth                                       | 1,644,014,041        | 75.3              | 14.6       | -5.1        | 1.2                  | 1.2         | 4.9          | 5.2          |               | 5.2                | Jul-15           |
| Growth Benchmark                             |                      |                   | 14.4       | -5.4        | 1.6                  | 1.6         | 6.0          | 6.4          |               | 6.4                | Jul-15           |
| Public Equity                                | 1,075,690,372        | 49.3              | 21.0       | -7.4        | -1.0                 | -1.0        | 4.0          | 4.8          | 8.5           | 7.1                | May-10           |
| Public Equity Benchmark                      |                      |                   | 20.0       | -7.6        | 0.2                  | 0.2         | 5.4          | 6.1          | 9.1           | 7.5                | May-10           |
| Global Equity                                | 257,518,427          | 11.8              | 22.7       | -5.0        | 3.1                  | 3.1         | 6.5          | 7.8          |               | 7.8                | Jul-15           |
| MSCI ACWI IMI Index                          |                      |                   | 19.8       | -7.1        | 1.2                  | 1.2         | 5.5          | 6.1          |               | 6.1                | Jul-15           |
| eV All Global Equity Net Median              |                      |                   | 19.2       | -6.6        | 0.7                  | 0.7         | 5.2          | 5.5          | 9.2           | 5.5                | Jul-15           |
| eV All Global Equity Net Rank                |                      |                   | <i>2</i> 7 | 43          | 41                   | 41          | 42           | 30           |               | 30                 | Jul-15           |
| US Equity                                    | 390,453,209          | 17.9              | 21.9       | -6.5        | 2.3                  | 2.3         | 7.3          | 8.1          |               | 8.1                | Jul-15           |
| MSCI USA IMI GR USD                          |                      |                   | 22.3       | <i>-3.3</i> | 6.7                  | 6.7         | 10.2         | 10.1         |               | 10.1               | Jul-15           |
| eV All US Equity Net Median                  |                      |                   | 21.9       | -9.0        | -1.1                 | -1.1        | 5.7          | 6.6          | 11.6          | 6.6                | Jul-15           |
| eV All US Equity Net Rank                    |                      |                   | 50         | 44          | 42                   | 42          | 45           | 41           |               | 41                 | Jul-15           |

<sup>&</sup>lt;sup>1</sup> Fiscal Year begins July 1.

Please see the Appendix for composition of the Policy Benchmark, Low-Cost Passive Portfolio, Liability Benchmark Portfolio, Growth Benchmark, and Public Equity Benchmark.
 Returns for the Public Equity Aggregate are gross of fees through June 2015 and net of fees thereafter.



Total Fund | As of June 30, 2020

|                                          | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception I | nception<br>Date |
|------------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|-------------|------------------|
| International Equity                     | 204,898,573          | 9.4               | 20.3       | -7.5       | -2.3                 | -2.3        | 1.6          | 2.7          |               | 2.7         | Jul-15           |
| MSCI World ex USA IMI NR USD             |                      |                   | 16.2       | -11.7      | -5.1                 | -5.1        | 0.8          | 2.2          |               | 2.2         | Jul-15           |
| eV ACWI ex-US All Cap Equity Net Median  |                      |                   | 18.6       | -7.7       | 0.0                  | 0.0         | 3.8          | 3.9          | 7.3           | 3.9         | Jul-15           |
| eV ACWI ex-US All Cap Equity Net Rank    |                      |                   | 37         | 50         | 61                   | 61          | 67           | 66           |               | 66          | Jul-15           |
| Emerging Markets Equity                  | 222,820,163          | 10.2              | 20.1       | -10.6      | -6.2                 | -6.2        | -1.2         | 0.4          |               | 0.4         | Jul-15           |
| MSCI Emerging Market IMI Net             |                      |                   | 18.9       | -10.1      | -4.0                 | -4.0        | 1.3          | 2.3          |               | 2.3         | Jul-15           |
| eV Emg Mkts Equity Net Median            |                      |                   | 20.3       | -10.1      | <i>-3.7</i>          | -3.7        | 1.2          | 2.7          | 3.7           | 2.7         | Jul-15           |
| eV Emg Mkts Equity Net Rank              |                      |                   | 51         | 56         | 63                   | 63          | 74           | 78           |               | 78          | Jul-15           |
| Private Markets                          | 457,383,973          | 20.9              | 2.9        | -6.1       | -0.3                 | -0.3        | 5.1          | 5.0          |               | 5.0         | Jul-15           |
| Private Markets Benchmark                |                      |                   | 2.9        | -6.1       | -0.3                 | -0.3        | 7.1          | 7.2          |               | 7.2         | Jul-15           |
| MSCI ACWI IMI + 100bps                   |                      |                   | 20.1       | -6.6       | 2.2                  | 2.2         | 6.6          | 7.2          |               | 7.2         | Jul-15           |
| Private Markets ex Russell 3000          | 333,505,436          | 15.3              | -3.5       | -3.0       | -0.3                 | -0.3        | 4.9          | 4.9          |               | 4.9         | Jul-15           |
| Private Equity                           | 156,661,828          | 7.2               | -4.3       | -1.2       | 2.9                  | 2.9         | 8.8          | 7.8          | 10.8          |             | Jan-06           |
| San Jose Custom Private Equity Benchmark |                      |                   | -10.1      | -5.8       | -1.8                 | -1.8        | 8.6          | 8.9          | 11.5          |             | Jan-06           |
| Private Equity ex Russell 3000           | 156,661,828          | 7.2               | -4.3       | -1.2       | 2.9                  | 2.9         | 8.8          | 7.8          | 10.8          | 7.1         | Jan-06           |
| Northern Trust Russell 3000              | 123,878,537          | 5.7               | 22.0       | -3.4       | 6.7                  | 6.7         |              |              |               | 7.9         | Jun-18           |
| Russell 3000                             |                      |                   | 22.0       | -3.5       | 6.5                  | 6.5         |              |              |               | 7.8         | Jun-18           |
| Private Debt                             | 76,771,684           | 3.5               | 0.0        | -9.0       | -10.5                | -10.5       | -6.8         | -3.0         |               | 1.7         | Dec-10           |
| S&P Global Leveraged Loan Index +2%      |                      |                   | 10.1       | -3.2       | -O.1                 | -0.1        | <i>3.7</i>   | 4.9          |               | 5.6         | Dec-10           |

<sup>1</sup> Returns for the Fixed income, Private Debt, and Real Assets Aggregates are gross of fees through June 2015 and net of fees thereafter.
2 Prior to 7/1/2015, Fixed Income Custom Benchmark was 100% Barclays Global Aggregate. After 7/1/2015, Fixed Income Custom Benchmark consists of 80% Barclays Global Aggregate, 5% JPM GBI-EM GD, 5% JPM EMBI GD, 5% S&P Global Leveraged Loan, and 5% BAML Global HY Index.

<sup>&</sup>lt;sup>3</sup> Please see the Appendix for composition of the Private Markets Benchmark.

<sup>&</sup>lt;sup>4</sup> Private Equity composite includes Russell 3000 proxy performance history prior to October 1, 2018.



Total Fund | As of June 30, 2020

|                                      | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception I | nception<br>Date |
|--------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|-------------|------------------|
| Growth Real Estate                   | 79,993,478           | 3.7               | -1.1       | 2.5        | 7.2                  | 7.2         | 14.2         | 15.8         |               | 15.8        | Jul-15           |
| NCREIF Property Index                |                      |                   | -1.0       | -0.3       | 2.7                  | <i>2.7</i>  | 5.4          | 6.8          |               | 6.8         | Jul-15           |
| Private Real Assets                  | 20,078,448           | 0.9               | -15.5      | -14.1      | -12.4                | -12.4       | 3.3          | 3.1          |               | 3.1         | Jul-15           |
| Emerging Markets Debt                | 67,399,012           | 3.1               | 8.3        | 1.1        | 5.5                  | 5.5         | 3.4          | 3.6          |               | 3.6         | Jul-15           |
| 50% JPM EMBI GD / 50% JPM GBI-EM     |                      |                   | 11.0       | -4.8       | -1.1                 | -1.1        | 2.4          | 3.9          |               | 3.9         | Jul-15           |
| eV All Emg Mkts Fixed Inc Net Median |                      |                   | 12.5       | -4.2       | -1.2                 | -1.2        | 2.4          | 4.3          | 5.1           | 4.3         | Jul-15           |
| eV All Emg Mkts Fixed Inc Net Rank   |                      |                   | 96         | 7          | 5                    | 5           | 32           | 63           |               | 63          | Jul-15           |
| High Yield Bonds                     | 43,540,684           | 2.0               |            |            |                      |             |              |              |               | 0.0         | Jun-20           |
| BBgBarc US Corporate High Yield TR   |                      |                   |            |            |                      |             |              |              |               | 1.0         | Jun-20           |
| Low Beta                             | 227,501,818          | 10.4              | 1.7        | 1.2        | 2.6                  | 2.6         | 3.4          | 2.3          |               | 2.3         | Jul-15           |
| Low Beta Benchmark                   |                      |                   | 0.2        | 1.7        | 2.8                  | 2.8         | 2.0          | 1.1          |               | 1.1         | Jul-15           |
| Immunized Cash Flows                 | 93,307,444           | 4.3               | 0.2        | 2.7        | 3.9                  | 3.9         |              |              |               | 4.4         | Oct-18           |
| Immunized Cash Flows Benchmark       |                      |                   | 0.2        | 2.7        | 3.9                  | 3.9         |              |              |               | 4.4         | Oct-18           |
| Market Neutral Strategies            | 82,004,581           | 3.8               | 2.8        | -4.2       | -2.0                 | -2.0        | 3.4          | 2.3          |               | 3.2         | Nov-12           |
| Market Neutral Strategies Benchmark  |                      |                   | 0.2        | 0.5        | 1.6                  | 1.6         | 1.5          | 0.8          |               | 1.2         | Nov-12           |
| Macro                                | 17,381,104           | 8.0               | 0.9        | 2.5        | 2.9                  | 2.9         | 4.8          | 3.1          |               | 2.8         | Oct-14           |
| HFRI Macro (Total) Index             |                      |                   | 1.0        | -0.6       | 0.9                  | 0.9         | 1.5          | 0.8          |               | 1.0         | Oct-14           |
| Relative Value                       | 64,623,477           | 3.0               | 5.8        | -11.3      | -8.1                 | -8.1        | 1.6          | 1.7          |               | 2.4         | Oct-14           |
| HFRI Relative Value (Total) Index    |                      |                   | 6.3        | -4.6       | -2.8                 | -2.8        | 1.5          | 2.3          |               | 2.3         | Oct-14           |
| Cash                                 | 52,189,793           | 2.4               | 0.0        | 0.4        | 2.0                  | 2.0         | 1.7          | 1.3          |               |             | Jan-06           |
| ICE BofA 91 Days T-Bills TR          |                      |                   | 0.0        | 0.6        | 1.6                  | 1.6         | 1.8          | 1.2          |               |             | Jan-06           |

Cash composite includes the cash account, cash collateral in the Russell Investments Overlay program, and residuals from terminated manager assets.
 Please see the Appendix for composition of the Low Beta Benchmark, Immunized Cash Flows Benchmark, Market Neutral Strategies Benchmark, and Other Benchmark.



#### Total Fund | As of June 30, 2020

|                                  | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception I<br>(%) | Inception<br>Date |
|----------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|--------------------|-------------------|
| Other                            | 292,956,167          | 13.4              | 0.8        | -0.9       | 1.2                  | 1.2         | 2.7          | 1.8          | 2.4           | 2.0                | Jul-04            |
| Other Benchmark                  |                      |                   | 0.7        | -7.1       | -4.7                 | -4.7        | -0.3         | 0.5          |               |                    | Jul-04            |
| Investment Grade Bonds           | 119,159,056          | 5.5               | 3.1        | 6.4        |                      |             |              |              |               | 6.3                | Dec-19            |
| Custom IG Bonds Benchmark        |                      |                   | 2.1        | 5.3        |                      |             |              |              |               | 5.2                | Dec-19            |
| TIPS                             | 43,560,306           | 2.0               | 1.5        | 1.0        | 2.5                  | 2.5         | 2.4          | 1.8          |               | 1.2                | Jul-14            |
| BBgBarc U.S. TIPS 0-5 Years      |                      |                   | 2.6        | 1.9        | 3.4                  | 3.4         | 2.7          | 2.0          |               | 1.3                | Jul-14            |
| Core Private Real Estate         | 86,839,582           | 4.0               | -1.5       | 1.6        | 3.6                  | 3.6         | 6.1          | 7.7          | 10.4          | 6.9                | Jul-04            |
| NCREIF ODCE Equal Weighted (Net) |                      |                   | -1.5       | -0.8       | 1.7                  | 1.7         | 5.1          | 6.7          | 10.0          | 6.5                | Jul-04            |
| Long Term Government Bonds       | 43,397,224           | 2.0               |            |            |                      |             |              |              |               | 0.4                | May-20            |
| BBgBarc US Govt Long TR          |                      |                   |            |            |                      |             |              |              |               | -1.7               | May-20            |
| Overlay                          | 18,877,118           | 0.9               |            |            |                      |             |              |              |               |                    |                   |



Total Fund | As of June 30, 2020

|                                              | Trailir              | ng Net Per        | formar     | nce        |                      |             |              |              |               |               |                   |
|----------------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|---------------|-------------------|
|                                              | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception (%) | Inception<br>Date |
| Total Fund Aggregate                         | 2,183,349,144        | 100.0             | 11.1       | -1.0       | 3.6                  | 3.6         | 4.6          | 4.1          | 5.5           | 6.5           | Jan-94            |
| Policy Benchmark                             |                      |                   | 10.9       | -1.0       | 3.9                  | 3.9         | 5.1          | 4.9          | 6.4           | 6.8           | Jan-94            |
| Investable Benchmark Portfolio               |                      |                   | 10.1       | -1.8       | 3.1                  | 3.1         | 4.5          | 4.1          | 5.4           |               | Jan-94            |
| Low-Cost Passive Portfolio                   |                      |                   | 11.1       | -5.0       | 0.1                  | 0.1         |              |              |               |               | Jan-94            |
| 60/40 MSCI ACWI IMI/BBgBarc Global Aggregate |                      |                   | 13.1       | -2.7       | 2.9                  | 2.9         | 5.2          | <i>5.3</i>   | 6.8           |               | Jan-94            |
| Liability Benchmark Portfolio                |                      |                   | 0.2        | 21.2       | 25.4                 | 25.4        |              |              |               |               | Jan-94            |
| InvMetrics Public DB > \$1B Net Median       |                      |                   | 10.1       | -4.3       | 1.3                  | 1.3         | 5.0          | 5.4          | 7.8           | 7.1           | Jan-94            |
| InvMetrics Public DB > \$1B Net Rank         |                      |                   | 29         | 1          | 14                   | 14          | 69           | 97           | 99            | 82            | Jan-94            |
| Growth                                       | 1,644,014,041        | 75.3              | 14.6       | -5.1       | 1.2                  | 1.2         | 4.9          | 5.2          |               | 5.2           | Jul-15            |
| Growth Benchmark                             |                      |                   | 14.4       | -5.4       | 1.6                  | 1.6         | 6.0          | 6.4          |               | 6.4           | Jul-15            |
| Public Equity                                | 1,075,690,372        | 49.3              | 21.0       | -7.4       | -1.0                 | -1.0        | 4.0          | 4.8          | 8.5           | 7.1           | May-10            |
| Public Equity Benchmark                      |                      |                   | 20.0       | -7.6       | 0.2                  | 0.2         | 5.4          | 6.1          | 9.1           | 7.5           | May-10            |
| Global Equity                                | 257,518,427          | 11.8              | 22.7       | -5.0       | 3.1                  | 3.1         | 6.5          | 7.8          |               | 7.8           | Jul-15            |
| MSCI ACWI IMI Index                          |                      |                   | 19.8       | -7.1       | 1.2                  | 1.2         | 5.5          | 6.1          |               | 6.1           | Jul-15            |
| eV All Global Equity Net Median              |                      |                   | 19.2       | -6.6       | 0.7                  | 0.7         | 5.2          | 5.5          | 9.2           | 5.5           | Jul-15            |
| eV All Global Equity Net Rank                |                      |                   | 27         | 43         | 41                   | 41          | 42           | 30           |               | 30            | Jul-15            |
| Artisan Global Value                         | 119,794,477          | 5.5               | 17.4       | -16.5      | -9.9                 | -9.9        | 0.7          | 4.3          |               | 8.2           | Mar-11            |
| MSCI ACWI Value NR USD                       |                      |                   | 12.7       | -17.8      | -11.8                | -11.8       | -1.O         | 1.9          |               | 3.7           | Mar-11            |
| eV All Global Equity Net Median              |                      |                   | 19.2       | -6.6       | 0.7                  | 0.7         | 5.2          | 5.5          | 9.2           | 7.0           | Mar-11            |
| eV All Global Equity Net Rank                |                      |                   | 62         | 81         | 81                   | 81          | 76           | 65           |               | 31            | Mar-11            |

Returns for the Equity Aggregate are gross of fees through June 2015 and net of fees thereafter.
 Please see final page of the performance report for composition of the Policy Benchmark.



Total Fund | As of June 30, 2020

|                                         | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%)   | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date |
|-----------------------------------------|----------------------|-------------------|------------|--------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------|
| Artisan Global Opportunities            | 137,723,951          | 6.3               | 27.8       | 11.7         | 22.9                 | 22.9        | 15.2         |              |               | 15.2             | Jul-17            |
| MSCI ACWI Growth NR USD                 |                      |                   | 25.1       | 5.5          | 16.6                 | 16.6        | 13.2         |              |               | 13.2             | Jul-17            |
| eV All Global Equity Net Median         |                      |                   | 19.2       | -6.6         | 0.7                  | 0.7         | 5.2          | 5.5          | 9.2           | 5.2              | Jul-17            |
| eV All Global Equity Net Rank           |                      |                   | 14         | 8            | 8                    | 8           | 10           |              |               | 10               | Jul-17            |
| US Equity                               | 390,453,209          | 17.9              | 21.9       | -6.5         | 2.3                  | 2.3         | 7.3          | 8.1          |               | 8.1              | Jul-15            |
| MSCI USA IMI GR USD                     |                      |                   | 22.3       | -3.3         | 6.7                  | 6.7         | 10.2         | 10.1         |               | 10.1             | Jul-15            |
| eV All US Equity Net Median             |                      |                   | 21.9       | -9.0         | -1.1                 | -1.1        | 5.7          | 6.6          | 11.6          | 6.6              | Jul-15            |
| eV All US Equity Net Rank               |                      |                   | 50         | 44           | 42                   | 42          | 45           | 41           |               | 41               | Jul-15            |
| Northern Trust Russell 3000             | 375,871,172          | 17.2              | 22.0       |              |                      |             |              |              |               | 22.0             | Mar-20            |
| Russell 3000                            |                      |                   | 22.0       |              |                      |             |              |              |               | 5.2              | Mar-20            |
| Cove Street Small Cap Value             | 14,582,037           | 0.7               | 20.1       | -26.2        | -22.9                | -22.9       | -4.7         | 0.1          |               | 1.0              | May-14            |
| Russell 2000 Value                      |                      |                   | 18.9       | <i>-23.5</i> | -17.5                | -17.5       | -4.3         | 1.3          |               | 2.0              | May-14            |
| eV US Small Cap Value Equity Net Median |                      |                   | 20.6       | -21.8        | -16.2                | -16.2       | -4.2         | 0.9          | 8.3           | 1.9              | May-14            |
| eV US Small Cap Value Equity Net Rank   |                      |                   | 54         | 86           | 90                   | 90          | 60           | 68           |               | 72               | May-14            |
| International Equity                    | 204,898,573          | 9.4               | 20.3       | -7.5         | -2.3                 | -2.3        | 1.6          | 2.7          |               | 2.7              | Jul-15            |
| MSCI World ex USA IMI NR USD            |                      |                   | 16.2       | -11.7        | -5.1                 | -5.1        | 0.8          | 2.2          |               | 2.2              | Jul-15            |
| eV ACWI ex-US All Cap Equity Net Median |                      |                   | 18.6       | -7.7         | 0.0                  | 0.0         | 3.8          | <i>3.9</i>   | 7.3           | 3.9              | Jul-15            |
| eV ACWI ex-US All Cap Equity Net Rank   |                      |                   | 37         | 50           | 61                   | 61          | 67           | 66           |               | 66               | Jul-15            |
| Northern Trust MSCI World ex US         | 167,833,039          | 7.7               | 15.4       | -11.0        | -4.9                 | -4.9        | 1.2          |              |               | 4.9              | Nov-16            |
| MSCI World ex USA                       |                      |                   | 15.3       | -11.5        | -5.4                 | -5.4        | 0.8          |              |               | 4.5              | Nov-16            |



Total Fund | As of June 30, 2020

|                                           | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date |
|-------------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------|
| Oberweis Intl Opportunities               | 37,065,534           | 1.7               | 47.4       | 11.7       | 16.0                 | 16.0        | 8.3          |              |               | 9.5              | Nov-15            |
| MSCI World ex USA Small Cap Growth NR USD |                      |                   | 26.4       | -5.3       | 4.8                  | 4.8         | 4.5          |              |               | 7.0              | Nov-15            |
| eV ACWI ex-US All Cap Equity Net Median   |                      |                   | 18.6       | -7.7       | 0.0                  | 0.0         | 3.8          | 3.9          | 7.3           | 5.6              | Nov-15            |
| eV ACWI ex-US All Cap Equity Net Rank     |                      |                   | 1          | 5          | 7                    | 7           | 13           |              |               | 11               | Nov-15            |
| Emerging Markets Equity                   | 222,820,163          | 10.2              | 20.1       | -10.6      | -6.2                 | -6.2        | -1.2         | 0.4          |               | 0.4              | Jul-15            |
| MSCI Emerging Market IMI Net              |                      |                   | 18.9       | -10.1      | -4.0                 | -4.0        | 1.3          | 2.3          |               | 2.3              | Jul-15            |
| eV Emg Mkts Equity Net Median             |                      |                   | 20.3       | -10.1      | -3.7                 | <i>-3.7</i> | 1.2          | 2.7          | 3.7           | 2.7              | Jul-15            |
| eV Emg Mkts Equity Net Rank               |                      |                   | 51         | 56         | 63                   | 63          | 74           | 78           |               | 78               | Jul-15            |
| Northern Trust MSCI EM IMI                | 71,843,684           | 3.3               | 19.8       | -10.0      | -4.0                 | -4.0        |              |              |               | -1.4             | Oct-18            |
| MSCI Emerging Market IMI Net              |                      |                   | 18.9       | -10.1      | -4.0                 | -4.0        |              |              |               | -1.2             | Oct-18            |
| Dimensional Fund Adv EM Value             | 33,189,245           | 1.5               | 19.0       | -18.9      | -17.3                | -17.3       | -3.9         |              |               | 0.4              | Nov-16            |
| MSCI Emerging Markets Value NR USD        |                      |                   | 13.8       | -18.0      | -15.7                | -15.7       | -2.6         |              |               | 0.6              | Nov-16            |
| eV Emg Mkts Equity Net Median             |                      |                   | 20.3       | -10.1      | -3.7                 | -3.7        | 1.2          | 2.7          | 3.7           | 4.6              | Nov-16            |
| eV Emg Mkts Equity Net Rank               |                      |                   | 58         | 92         | 96                   | 96          | 91           |              |               | 87               | Nov-16            |
| GQG Global Emerging Markets               | 42,486,102           | 1.9               | 22.5       | -1.4       | 0.7                  | 0.7         | 6.5          |              |               | 6.5              | Jul-17            |
| MSCI Emerging Markets                     |                      |                   | 18.1       | -9.8       | -3.4                 | -3.4        | 1.9          |              |               | 1.9              | Jul-17            |
| eV Emg Mkts Equity Net Median             |                      |                   | 20.3       | -10.1      | -3.7                 | -3.7        | 1.2          | 2.7          | 3.7           | 1.2              | Jul-17            |
| eV Emg Mkts Equity Net Rank               |                      |                   | 37         | 12         | 27                   | 27          | 11           |              |               | 11               | Jul-17            |



Total Fund | As of June 30, 2020

|                                               | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date |
|-----------------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------|
| RWC Emerging Markets Equity                   | 25,991,041           | 1.2               | 27.1       | -9.1       |                      |             |              |              |               | 4.0              | Sep-19            |
| MSCI Emerging Markets                         |                      |                   | 18.1       | -9.8       |                      |             |              |              |               | 2.8              | Sep-19            |
| eV Emg Mkts Equity Net Median                 |                      |                   | 20.3       | -10.1      | <i>-3.7</i>          | -3.7        | 1.2          | 2.7          | 3.7           | 2.1              | Sep-19            |
| eV Emg Mkts Equity Net Rank                   |                      |                   | 15         | 41         |                      |             |              |              |               | 36               | Sep-19            |
| Wellington Emerging Markets Systematic Equity | 49,310,090           | 2.3               | 16.7       | -12.6      |                      |             |              |              |               | -1.4             | Sep-19            |
| MSCI Emerging Markets                         |                      |                   | 18.1       | -9.8       |                      |             |              |              |               | 2.8              | Sep-19            |
| eV Emg Mkts Equity Net Median                 |                      |                   | 20.3       | -10.1      | <i>-3.7</i>          | -3.7        | 1.2          | 2.7          | 3.7           | 2.1              | Sep-19            |
| eV Emg Mkts Equity Net Rank                   |                      |                   | 81         | 72         |                      |             |              |              |               | 68               | Sep-19            |
| Private Markets                               | 457,383,973          | 20.9              | 2.9        | -6.1       | -0.3                 | -0.3        | 5.1          | 5.0          |               | 5.0              | Jul-15            |
| Private Markets Benchmark                     |                      |                   | 2.9        | -6.1       | -0.3                 | -0.3        | 7.1          | 7.2          |               | 7.2              | Jul-15            |
| MSCI ACWI IMI + 100bps                        |                      |                   | 20.1       | -6.6       | 2.2                  | 2.2         | 6.6          | 7.2          |               | 7.2              | Jul-15            |
| Private Markets ex Russell 3000               | 333,505,436          | 15.3              | -3.5       | -3.0       | -0.3                 | -0.3        | 4.9          | 4.9          |               | 4.9              | Jul-15            |
| Private Equity                                | 156,661,828          | 7.2               | -4.3       | -1.2       | 2.9                  | 2.9         | 8.8          | 7.8          | 10.8          |                  | Jan-06            |
| San Jose Custom Private Equity Benchmark      |                      |                   | -10.1      | -5.8       | -1.8                 | -1.8        | 8.6          | 8.9          | 11.5          |                  | Jan-06            |
| Private Equity ex Russell 3000                | 156,661,828          | 7.2               | -4.3       | -1.2       | 2.9                  | 2.9         | 8.8          | 7.8          | 10.8          | 7.1              | Jan-06            |
| PE Strategic Partnership, LP                  | 123,540,584          | 5.7               | -2.9       | 0.7        | 7.0                  | 7.0         |              |              |               | 6.4              | Aug-17            |
| Cambridge PE Composite BM                     |                      |                   | -8.8       | -3.2       | 8.7                  | 8.7         |              |              |               | 13.1             | Aug-17            |
| Pathway Private Eq Fund VIII                  | 1,915,440            | 0.1               | -12.5      | -19.2      | -21.7                | -21.7       | -10.0        | -6.5         | 4.4           | 5.4              | Jul-09            |
| Cambridge PE Composite BM                     |                      |                   | -8.8       | -3.2       | 8.7                  | 8.7         | 12.7         | 11.3         | 12.3          | 13.3             | Jul-09            |



#### Total Fund | As of June 30, 2020

|                               | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%)  | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date |
|-------------------------------|----------------------|-------------------|------------|-------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------|
| Pantheon USA Fund VII, LP     | 10,259,268           | 0.5               | -12.4      | -11.9       | -11.9                | -11.9       |              |              |               | -1.2             | Jun-18            |
| Cambridge PE Composite BM     |                      |                   | -8.8       | -3.2        | 8.7                  | 8.7         |              |              |               | 10.9             | Jun-18            |
| Pantheon Global Secondary III | 1,323,093            | 0.1               | -7.7       | -19.1       | -19.7                | -19.7       | -0.3         | -0.6         | 2.1           | 2.9              | Jul-09            |
| Cambridge PE Composite BM     |                      |                   | -8.8       | -3.2        | 8.7                  | 8.7         | 12.7         | 11.3         | 12.3          | 13.3             | Jul-09            |
| Great Hill Equity Partners IV | 2,138,030            | 0.1               | -10.2      | -7.0        | 2.6                  | 2.6         | 45.6         | 35.7         | 32.1          | 29.6             | Jul-09            |
| Cambridge PE Composite BM     |                      |                   | -8.8       | <i>-3.2</i> | 8.7                  | 8.7         | 12.7         | 11.3         | 12.3          | 13.3             | Jul-09            |
| Partners Group Secondary 2008 | 790,499              | 0.0               | -14.9      | -16.6       | -15.2                | -15.2       | -3.1         | -0.8         | 6.6           | 6.3              | Jul-09            |
| Cambridge PE Composite BM     |                      |                   | -8.8       | -3.2        | 8.7                  | 8.7         | 12.7         | 11.3         | 12.3          | 13.3             | Jul-09            |
| Partners Group Secondary 2011 | 4,490,924            | 0.2               | -18.6      | -18.6       | -23.7                | -23.7       | -2.4         | 2.1          |               | 12.8             | Nov-12            |
| Cambridge PE Composite BM     |                      |                   | -8.8       | -3.2        | 8.7                  | 8.7         | 12.7         | 11.3         |               | 12.4             | Nov-12            |
| Innovation Endeavors III      | 3,274,798            | 0.1               | 1.0        | 46.9        | 42.0                 | 42.0        |              |              |               | 1.8              | Jun-18            |
| Cambridge PE Composite BM     |                      |                   | -8.8       | -3.2        | 8.7                  | 8.7         |              |              |               | 10.9             | Jun-18            |
| Crestline Portfolio Financing | 8,929,192            | 0.4               | 1.2        | 6.8         | 12.4                 | 12.4        |              |              |               | 10.0             | Jun-18            |
| Cambridge PE Composite BM     |                      |                   | -8.8       | -3.2        | 8.7                  | 8.7         |              |              |               | 10.9             | Jun-18            |
| Northern Trust Russell 3000   | 123,878,537          | 5.7               | 22.0       | -3.4        | 6.7                  | 6.7         |              |              |               | 7.9              | Jun-18            |
| Russell 3000                  |                      |                   | 22.0       | -3.5        | 6.5                  | 6.5         |              |              |               | 7.8              | Jun-18            |



Total Fund | As of June 30, 2020

|                                              | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%)   | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date |
|----------------------------------------------|----------------------|-------------------|------------|--------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------|
| Private Debt                                 | 76,771,684           | 3.5               | 0.0        | -9.0         | -10.5                | -10.5       | -6.8         | -3.0         |               | 1.7              | Dec-10            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | -3.2         | -0.1                 | -0.1        | 3.7          | 4.9          |               | 5.6              | Dec-10            |
| White Oak Direct Lending                     | 10,599,336           | 0.5               | -6.4       | -14.0        | 3.6                  | 3.6         | -9.4         | -5.2         |               | -0.8             | Feb-11            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | -3.2         | -0.1                 | -0.1        | 3.7          | 4.9          |               | 5.3              | Feb-11            |
| Blackstone/GSO Cap Partners                  | 4,201,631            | 0.2               | -35.5      | -45.8        | -52.0                | -52.0       | -18.8        | -12.0        |               | -1.4             | Mar-11            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | <i>-3.2</i>  | -0.1                 | -0.1        | 3.7          | 4.9          |               | 5.3              | Mar-11            |
| Medley Opportunity Fund II LP                | 14,514,597           | 0.7               | -6.1       | -9.1         | -19.1                | -19.1       | -12.4        | -5.7         |               | 0.2              | Jun-11            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | -3.2         | -0.1                 | -0.1        | 3.7          | 4.9          |               | 5.3              | Jun-11            |
| Cross Ocean USD ESS Fund II LP               | 7,560,062            | 0.3               | -5.7       | -3.8         | 0.8                  | 0.8         | 3.9          |              |               | 7.8              | Aug-16            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | -3.2         | -0.1                 | -0.1        | 3.7          |              |               | 5.0              | Aug-16            |
| Octagon CLO Opp Fund III                     | 16,884,180           | 0.8               | 22.5       | -12.4        | -16.1                | -16.1       |              |              |               | -8.7             | Feb-19            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | -3.2         | -0.1                 | -0.1        |              |              |               | 2.3              | Feb-19            |
| Crestline Co-Investment                      | 1,727,839            | 0.1               | 2.2        | 3.1          | 11.3                 | 11.3        |              |              |               | 8.3              | Mar-19            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | -3.2         | -0.1                 | -0.1        |              |              |               | 1.4              | Mar-19            |
| Cross Ocean USD ESS Fund III, L.P.           | 9,762,248            | 0.4               | 0.1        | 1.6          | -0.3                 | -0.3        |              |              |               | -0.3             | Jun-19            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       | - <i>3.2</i> | -0.1                 | -0.1        |              |              |               | 0.7              | Jun-19            |
| Arbour Lane Credit Opportunity Fund II, L.P. | 6,721,790            | 0.3               | 48.2       |              |                      |             |              |              |               | 48.2             | Apr-20            |
| S&P Global Leveraged Loan Index +2%          |                      |                   | 10.1       |              |                      |             |              |              |               | 5.2              | Apr-20            |

<sup>1</sup> Returns for the Private Debt and Real Assets Aggregates are gross of fees through June 2015 and net of fees thereafter.



#### Total Fund | As of June 30, 2020

|                                                                        | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date       |
|------------------------------------------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------------|
| Eagle Point Defensive Income Fund  S&P Global Leveraged Loan Index +2% | 4,800,000            | 0.2               |            |            |                      |             |              |              | <br>          | 0.0<br>1.3       | Jun-20<br><i>Jun-20</i> |
| Growth Real Estate                                                     | 79,993,478           | 3.7               | -1.1       | 2.5        | 7.2                  | 7.2         | 14.2         | 15.8         |               | 15.8             | Jul-15                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         | 5.4          | 6.8          |               | 6.8              | Jul-15                  |
| DRA Growth & Income Fund VI                                            | 604,389              | 0.0               | 1.0        | 2.9        | 8.8                  | 8.8         | 5.1          | 7.6          | 13.2          | 8.6              | Jan-08                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         | 5.4          | 6.8          | 9.7           | 5.9              | Jan-08                  |
| DRA Growth & Income Fund VII                                           | 2,656,354            | 0.1               | 0.3        | 29.5       | 84.7                 | 84.7        | 50.7         | 39.4         |               | 29.6             | Apr-12                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         | 5.4          | 6.8          |               | 8.6              | Apr-12                  |
| DRA Growth & Income Fund VIII                                          | 10,471,557           | 0.5               | 0.8        | 5.3        | 7.0                  | 7.0         | 10.0         | 10.7         |               | 10.6             | Jan-15                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         | 5.4          | 6.8          |               | 7.4              | Jan-15                  |
| Tristan - EPISO IV                                                     | 12,010,286           | 0.6               | -2.5       | -0.8       | 0.3                  | 0.3         | 6.7          |              |               | 7.0              | Jan-16                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         | 5.4          |              |               | 6.1              | Jan-16                  |
| DRA Growth & Income Fund IX                                            | 17,586,846           | 0.8               | 1.8        | 4.0        | 7.8                  | 7.8         | 12.4         |              |               | 12.1             | Feb-17                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         | 5.4          |              |               | 5.8              | Feb-17                  |
| GEM Realty Fund VI                                                     | 3,326,359            | 0.2               | 0.0        | 2.8        | -5.2                 | -5.2        |              |              |               | -1.2             | Dec-17                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         |              |              |               | 5.7              | Dec-17                  |
| Torchlight Debt Opportunity VI                                         | 29,692,764           | 1.4               | -4.2       | -1.5       | 2.4                  | 2.4         |              |              |               | 0.6              | Apr-18                  |
| NCREIF Property Index                                                  |                      |                   | -1.0       | -0.3       | 2.7                  | 2.7         |              |              |               | 4.9              | Apr-18                  |



#### Total Fund | As of June 30, 2020

|                                                | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date |
|------------------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------|
| Tristan - EPISO V                              | 990,294              | 0.0               |            |            |                      |             |              |              |               |                  | May-19            |
| DRA Growth & Income Fund X                     | 1,595,602            | 0.1               |            |            |                      |             |              |              |               |                  | Mar-20            |
| Rockpoint Real Estate Fund VI, L.P.            | 1,059,027            | 0.0               |            |            |                      |             |              |              |               |                  | May-20            |
| Private Real Assets                            | 20,078,448           | 0.9               | -15.5      | -14.1      | -12.4                | -12.4       | 3.3          | 3.1          |               | 3.1              | Jul-15            |
| Global Infra Part III-A/B, LP                  | 17,501,996           | 0.8               | -13.8      | -12.6      | -10.0                | -10.0       | -2.5         |              |               | -2.1             | Sep-16            |
| DJ Brookfield Global Infrastructure Net TR USD |                      |                   | 11.6       | -11.8      | -6.0                 | -6.0        | 2.8          |              |               | 4.4              | Sep-16            |
| Lime Rock Partners VIII                        | 1,704,945            | 0.1               | -30.2      | -25.0      | -27.1                | -27.1       |              |              |               | -17.1            | Dec-18            |
| DJ Brookfield Global Infrastructure Net TR USD |                      |                   | 11.6       | -11.8      | -6.0                 | -6.0        |              |              |               | 5.0              | Dec-18            |
| Kimmeridge Energy Fund V, L.P.                 | 858,585              | 0.0               |            |            |                      |             |              |              |               |                  | Aug-19            |
| Global Infra Partners IV                       | 12,922               | 0.0               |            |            |                      |             |              |              |               |                  | Aug-19            |
| Emerging Markets Debt                          | 67,399,012           | 3.1               | 8.3        | 1.1        | 5.5                  | 5.5         | 3.4          | 3.6          |               | 3.6              | Jul-15            |
| 50% JPM EMBI GD / 50% JPM GBI-EM               |                      |                   | 11.0       | -4.8       | -1.1                 | -1.1        | 2.4          | 3.9          |               | 3.9              | Jul-15            |
| eV All Emg Mkts Fixed Inc Net Median           |                      |                   | 12.5       | -4.2       | -1.2                 | -1.2        | 2.4          | 4.3          | 5.1           | 4.3              | Jul-15            |
| eV All Emg Mkts Fixed Inc Net Rank             |                      |                   | 96         | 7          | 5                    | 5           | 32           | 63           |               | 63               | Jul-15            |
| BlueBay EM Select Bond                         | 29,829,252           | 1.4               | 11.7       | -6.6       | -3.1                 | -3.1        | 0.9          | 2.0          |               | 2.0              | Jul-15            |
| 50% JPM EMBI GD / 50% JPM GBI-EM               |                      |                   | 11.0       | -4.8       | -1.1                 | -1.1        | 2.4          | 3.9          |               | 3.9              | Jul-15            |
| eV All Emg Mkts Fixed Inc Net Median           |                      |                   | 12.5       | -4.2       | -1.2                 | -1.2        | 2.4          | 4.3          | 5.1           | 4.3              | Jul-15            |
| eV All Emg Mkts Fixed Inc Net Rank             |                      |                   | 69         | 73         | 70                   | 70          | 72           | 81           |               | 81               | Jul-15            |

<sup>1</sup> Returns for the Private Debt and Real Assets Aggregates are gross of fees through June 2015 and net of fees thereafter.



Total Fund | As of June 30, 2020

|                                          | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception<br>(%) | Inception<br>Date |
|------------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|------------------|-------------------|
| Wellington Iguazu Partners LP Fund       | 37,569,760           | 1.7               | 6.6        | 9.2        | 14.7                 | 14.7        |              |              |               | 14.7             | May-19            |
| 50% JPM EMBI GD / 50% JPM GBI-EM         |                      |                   | 11.0       | -4.8       | -1.1                 | -1.1        |              |              |               | 3.1              | May-19            |
| eV All Emg Mkts Fixed Inc Net Median     |                      |                   | 12.5       | -4.2       | -1.2                 | -1.2        | 2.4          | 4.3          | 5.1           | 2.5              | May-19            |
| eV All Emg Mkts Fixed Inc Net Rank       |                      |                   | 98         | 1          | 1                    | 1           |              |              |               | 1                | May-19            |
| High Yield Bonds                         | 43,540,684           | 2.0               |            |            |                      |             |              |              |               | 0.0              | Jun-20            |
| BBgBarc US Corporate High Yield TR       |                      |                   |            |            |                      |             |              |              |               | 1.0              | Jun-20            |
| Mellon High Yield Beta                   | 43,540,684           | 2.0               |            |            |                      |             |              |              |               | 0.0              | Jun-20            |
| BBgBarc US Corporate High Yield TR       |                      |                   |            |            |                      |             |              |              |               | 1.0              | Jun-20            |
| Low Beta                                 | 227,501,818          | 10.4              | 1.7        | 1.2        | 2.6                  | 2.6         | 3.4          | 2.3          |               | 2.3              | Jul-15            |
| Low Beta Benchmark                       |                      |                   | 0.2        | 1.7        | 2.8                  | 2.8         | 2.0          | 1.1          |               | 1.1              | Jul-15            |
| Immunized Cash Flows                     | 93,307,444           | 4.3               | 0.2        | 2.7        | 3.9                  | 3.9         |              |              |               | 4.4              | Oct-18            |
| Immunized Cash Flows Benchmark           |                      |                   | 0.2        | 2.7        | 3.9                  | 3.9         |              |              |               | 4.4              | Oct-18            |
| Insight Immunized Cash Flow              | 93,307,444           | 4.3               | 0.2        | 2.7        | 3.9                  | 3.9         |              |              |               |                  | Jun-19            |
| Market Neutral Strategies                | 82,004,581           | 3.8               | 2.8        | -4.2       | -2.0                 | -2.0        | 3.4          | 2.3          |               | 3.2              | Nov-12            |
| Market Neutral Strategies Benchmark      |                      |                   | 0.2        | 0.5        | 1.6                  | 1.6         | 1.5          | 0.8          |               | 1.2              | Nov-12            |
| Macro                                    | 17,381,104           | 0.8               | 0.9        | 2.5        | 2.9                  | 2.9         | 4.8          | 3.1          |               | 2.8              | Oct-14            |
| HFRI Macro (Total) Index                 |                      |                   | 1.0        | -0.6       | 0.9                  | 0.9         | 1.5          | 0.8          |               | 1.0              | Oct-14            |
| Kepos Alpha Fund, Ltd                    | 17,381,104           | 0.8               | 13.6       | 12.1       | 19.2                 | 19.2        | 12.3         | 5.4          |               | 3.5              | Mar-13            |
| HFRI Macro: Systematic Diversified Index |                      |                   | -2.6       | -3.1       | -1.8                 | -1.8        | 0.5          | -0.6         |               | 0.5              | Mar-13            |



Total Fund | As of June 30, 2020

|                                     | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception (%) | nception<br>Date |
|-------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|---------------|------------------|
| Relative Value                      | 64,623,477           | 3.0               | 5.8        | -11.3      | -8.1                 | -8.1        | 1.6          | 1.7          |               | 2.4           | Oct-14           |
| HFRI Relative Value (Total) Index   |                      |                   | 6.3        | -4.6       | -2.8                 | -2.8        | 1.5          | 2.3          |               | 2.3           | Oct-14           |
| Pine River Fund, Ltd                | 625,028              | 0.0               | -4.8       | -0.6       | 10.2                 | 10.2        | 8.8          | 3.6          |               | 4.9           | Jan-13           |
| HFRI Relative Value (Total) Index   |                      |                   | 6.3        | -4.6       | -2.8                 | -2.8        | 1.5          | 2.3          |               | 3.4           | Jan-13           |
| DE Shaw Composite Fund, LLC         | 31,766,986           | 1.5               | 4.8        | 6.8        | 13.9                 | 13.9        | 11.9         | 9.8          |               | 11.5          | Apr-13           |
| HFRI Fund Weighted Composite Index  |                      |                   | 9.2        | -3.4       | -0.6                 | -0.6        | 2.1          | 2.3          |               | 3.1           | Apr-13           |
| JD Capital                          | 2,051,688            | 0.1               | -2.7       | -86.1      | -86.0                | -86.0       | -45.6        |              |               | -38.1         | Oct-16           |
| HFRI Relative Value (Total) Index   |                      |                   | 6.3        | -4.6       | -2.8                 | -2.8        | 1.5          |              |               | 2.4           | Oct-16           |
| Hudson Bay                          | 30,179,775           | 1.4               | 7.7        | 11.9       | 16.3                 | 16.3        |              |              |               | 9.5           | Aug-17           |
| HFRI Relative Value (Total) Index   |                      |                   | 6.3        | -4.6       | -2.8                 | -2.8        |              |              |               | 1.3           | Aug-17           |
| Cash                                | 52,189,793           | 2.4               | 0.0        | 0.4        | 2.0                  | 2.0         | 1.7          | 1.3          |               |               | Jan-06           |
| ICE BofA 91 Days T-Bills TR         |                      |                   | 0.0        | 0.6        | 1.6                  | 1.6         | 1.8          | 1.2          |               |               | Jan-06           |
| Other                               | 292,956,167          | 13.4              | 0.8        | -0.9       | 1.2                  | 1.2         | 2.7          | 1.8          | 2.4           | 2.0           | Jul-04           |
| Other Benchmark                     |                      |                   | 0.7        | -7.1       | -4.7                 | -4.7        | -0.3         | 0.5          |               |               | Jul-04           |
| Investment Grade Bonds              | 119,159,056          | 5.5               | 3.1        | 6.4        |                      |             |              |              |               | 6.3           | Dec-19           |
| Custom IG Bonds Benchmark           |                      |                   | 2.1        | 5.3        |                      |             |              |              |               | 5.2           | Dec-19           |
| Northern Trust Aggregate Bond Index | 87,068,539           | 4.0               | 2.8        | 6.2        |                      |             |              |              |               | 6.1           | Dec-19           |
| BBgBarc US Aggregate TR             |                      |                   | 2.9        | 6.1        |                      |             |              |              |               | 6.1           | Dec-19           |

<sup>1</sup> Cash composite includes the cash account, cash collateral in the Russell Investments Overlay program, and residuals from terminated manager assets.



Total Fund | As of June 30, 2020

|                                    | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception I | nception<br>Date |
|------------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|-------------|------------------|
| Voya TALF                          | 500,000              | 0.0               |            |            |                      |             |              |              |               | 0.0         | Jun-20           |
| BBgBarc US ABS TR                  |                      |                   |            |            |                      |             |              |              |               | 1.1         | Jun-20           |
| Voya Securitized Credit            | 31,590,517           | 1.4               |            |            |                      |             |              |              |               | 1.7         | May-20           |
| BBgBarc US ABS TR                  |                      |                   |            |            |                      |             |              |              |               | 2.2         | May-20           |
| TIPS                               | 43,560,306           | 2.0               | 1.5        | 1.0        | 2.5                  | 2.5         | 2.4          | 1.8          |               | 1.2         | Jul-14           |
| BBgBarc U.S. TIPS 0-5 Years        |                      |                   | 2.6        | 1.9        | 3.4                  | 3.4         | 2.7          | 2.0          |               | 1.3         | Jul-14           |
| Northern Trust 0-5 Year TIPS       | 43,560,306           | 2.0               | 1.5        | 2.5        | 4.0                  | 4.0         | 2.9          | 2.1          |               | 1.5         | Jul-14           |
| BBgBarc US Treasury TIPS 0-5 Yr TR |                      |                   | 2.6        | 1.9        | 3.4                  | 3.4         | 2.7          | 2.0          |               | 1.3         | Jul-14           |
| Core Private Real Estate           | 86,839,582           | 4.0               | -1.5       | 1.6        | 3.6                  | 3.6         | 6.1          | 7.7          | 10.4          | 6.9         | Jul-04           |
| NCREIF ODCE Equal Weighted (Net)   |                      |                   | -1.5       | -0.8       | 1.7                  | 1.7         | 5.1          | 6.7          | 10.0          | 6.5         | Jul-04           |
| BlackRock Core Property Fund       | 40,603,553           | 1.9               | -0.6       | 2.5        | 3.7                  | 3.7         |              |              |               | 4.3         | Feb-19           |
| NCREIF ODCE Equal-Weighted         |                      |                   | -1.5       | -0.8       | 1.7                  | 1.7         |              |              |               | 2.7         | Feb-19           |
| NCREIF ODCE Value-Weighted         |                      |                   | -1.8       | -1.0       | 1.3                  | 1.3         |              |              |               | 2.1         | Feb-19           |
| Clarion Lion Properties Fund       | 46,236,029           | 2.1               | -2.2       | 0.7        | 2.2                  | 2.2         |              |              |               | 3.1         | Apr-19           |
| NCREIF ODCE Equal Weighted (Net)   |                      |                   | -1.5       | -0.8       | 1.7                  | 1.7         |              |              |               | 2.4         | Apr-19           |
| NCREIF ODCE Value-Weighted         |                      |                   | -1.8       | -1.0       | 1.3                  | 1.3         |              |              |               | 1.8         | Apr-19           |



Total Fund | As of June 30, 2020

|                               | Market Value<br>(\$) | % of<br>Portfolio | QTD<br>(%) | YTD<br>(%) | Fiscal<br>YTD<br>(%) | 1 Yr<br>(%) | 3 Yrs<br>(%) | 5 Yrs<br>(%) | 10 Yrs<br>(%) | Inception I<br>(%) | nception<br>Date |
|-------------------------------|----------------------|-------------------|------------|------------|----------------------|-------------|--------------|--------------|---------------|--------------------|------------------|
| Long Term Government Bonds    | 43,397,224           | 2.0               |            |            |                      |             |              |              |               | 0.4                | May-20           |
| BBgBarc US Govt Long TR       |                      |                   |            |            |                      |             |              |              |               | -1.7               | May-20           |
| BlackRock Long Term Gov Bonds | 43,397,224           | 2.0               |            |            |                      |             |              |              |               | 0.4                | May-20           |
| BBgBarc US Govt TR            |                      |                   |            |            |                      |             |              |              |               | -0.1               | May-20           |
| Overlay                       | 18,877,118           | 0.9               |            |            |                      |             |              |              |               |                    |                  |
| Russell Investments Overlay   | 18,868,614           | 0.9               |            |            |                      |             |              |              |               |                    |                  |



Total Fund | As of June 30, 2020

|                                              |                           | h Flow Summar<br>Ending June 30, |                |                |                          |                        |
|----------------------------------------------|---------------------------|----------------------------------|----------------|----------------|--------------------------|------------------------|
|                                              | Beginning<br>Market Value | Contributions                    | Withdrawals    | Net Cash Flow  | Net Investment<br>Change | Ending<br>Market Value |
| AHL Partners LLP                             | \$10,572,905              | \$0                              | -\$10,572,905  | -\$10,572,905  | \$0                      | \$0                    |
| Arbour Lane Credit Opportunity Fund II, L.P. | \$0                       | \$4,747,384                      | -\$167,779     | \$4,579,605    | \$2,142,184              | \$6,721,790            |
| Artisan Global Opportunities                 | \$107,806,388             | \$0                              | \$0            | \$0            | \$29,917,562             | \$137,723,951          |
| Artisan Global Value                         | \$102,061,758             | \$21,378,960                     | -\$21,378,960  | \$0            | \$17,732,719             | \$119,794,477          |
| Blackrock 1-3 Year Gov/Credit                | \$169,745,027             | \$0                              | -\$170,597,193 | -\$170,597,193 | \$852,166                | \$0                    |
| BlackRock 3-Month T-Bill                     | \$64                      | \$0                              | -\$64          | -\$64          | \$0                      | \$0                    |
| BlackRock Core Property Fund                 | \$41,275,074              | \$0                              | -\$453,081     | -\$453,081     | -\$218,441               | \$40,603,553           |
| BlackRock Long Term Gov Bonds                |                           | \$43,249,146                     | \$0            | \$43,249,146   | \$148,078                | \$43,397,224           |
| Blackstone/GSO Cap Partners                  | \$6,513,035               | \$0                              | \$0            | \$0            | -\$2,311,404             | \$4,201,631            |
| BlueBay EM Select Bond                       | \$17,725,875              | \$10,000,000                     | \$0            | \$10,000,000   | \$2,103,377              | \$29,829,252           |
| Cash Account                                 | \$53,126,950              | \$449,821,064                    | -\$450,768,918 | -\$947,854     | \$10,697                 | \$52,189,793           |
| Clarion Lion Properties Fund                 | \$47,624,328              | \$0                              | -\$433,998     | -\$433,998     | -\$954,301               | \$46,236,029           |
| Cove Street Small Cap Value                  | \$12,144,734              | \$581,514                        | -\$581,514     | \$0            | \$2,437,303              | \$14,582,037           |
| Credit Suisse Risk Parity                    | \$31,100,507              | \$0                              | -\$31,379,091  | -\$31,379,091  | \$278,583                |                        |
| Crestline Co-Investment                      | \$1,690,139               | \$0                              | -\$3,883       | -\$3,883       | \$41,584                 | \$1,727,839            |
| Crestline Portfolio Financing                | \$7,908,659               | \$1,082,290                      | -\$153,345     | \$928,945      | \$91,588                 | \$8,929,192            |
| Cross Ocean USD ESS Fund II LP               | \$8,497,549               | \$0                              | -\$477,871     | -\$477,871     | -\$459,616               | \$7,560,062            |
| Cross Ocean USD ESS Fund III, L.P.           | \$6,217,734               | \$3,573,837                      | -\$66,451      | \$3,507,386    | \$37,128                 | \$9,762,248            |
| DE Shaw Composite Fund, LLC                  | \$30,317,264              | \$0                              | -\$233,083     | -\$233,083     | \$1,682,805              | \$31,766,986           |
| Dimensional Fund Adv EM Value                | \$27,880,094              | \$0                              | \$0            | \$0            | \$5,309,151              | \$33,189,245           |
| DRA Growth & Income Fund IX                  | \$17,714,234              | \$0                              | -\$545,069     | -\$545,069     | \$417,681                | \$17,586,846           |
| DRA Growth & Income Fund VI                  | \$648,859                 | \$0                              | -\$51,000      | -\$51,000      | \$6,530                  | \$604,389              |



Total Fund | As of June 30, 2020

|                                     | Beginning<br>Market Value | Contributions | Withdrawals   | Net Cash Flow | Net Investment<br>Change | Ending<br>Market Value |
|-------------------------------------|---------------------------|---------------|---------------|---------------|--------------------------|------------------------|
| DRA Growth & Income Fund VII        | \$2,777,053               | \$0           | -\$145,054    | -\$145,054    | \$24,355                 | \$2,656,354            |
| DRA Growth & Income Fund VIII       | \$10,388,322              | \$0           | -\$50,353     | -\$50,353     | \$133,588                | \$10,471,557           |
| DRA Growth & Income Fund X          | \$1,544,737               | \$0           | -\$45,648     | -\$45,648     | \$96,513                 | \$1,595,602            |
| Eagle Point Defensive Income Fund   |                           | \$4,800,000   | \$0           | \$4,800,000   | \$0                      | \$4,800,000            |
| GEM Realty Fund VI                  | \$2,827,622               | \$500,000     | -\$39,375     | \$460,625     | \$38,112                 | \$3,326,359            |
| Global Infra Part III-A/B, LP       | \$20,709,842              | \$0           | -\$490,601    | -\$490,601    | -\$2,717,246             | \$17,501,996           |
| Global Infra Partners IV            | \$12,502                  | \$14,002      | -\$13,544     | \$457         | -\$38                    | \$12,922               |
| GQG Global Emerging Markets         | \$34,689,110              | \$0           | -\$55,911     | -\$55,911     | \$7,852,903              | \$42,486,102           |
| Great Hill Equity Partners IV       | \$2,379,912               | \$0           | \$0           | \$0           | -\$241,882               | \$2,138,030            |
| Hudson Bay                          | \$28,017,144              | \$0           | \$0           | \$0           | \$2,162,631              | \$30,179,775           |
| Innovation Endeavors III            | \$2,534,178               | \$720,000     | -\$52,560     | \$667,440     | \$73,180                 | \$3,274,798            |
| Insight Immunized Cash Flow         | \$100,957,725             | \$0           | -\$7,851,964  | -\$7,851,964  | \$201,683                | \$93,307,444           |
| JD Capital                          | \$2,107,602               | \$0           | -\$7,860      | -\$7,860      | -\$48,053                | \$2,051,688            |
| Kepos Alpha Fund, Ltd               | \$15,295,914              | \$0           | -\$36,328     | -\$36,328     | \$2,121,517              | \$17,381,104           |
| Keynes Lev Quant Strat, Ltd         | \$11,027,295              | \$0           | -\$11,003,017 | -\$11,003,017 | -\$24,278                | \$0                    |
| Kimmeridge Energy Fund V, L.P.      | \$1,013,492               | \$0           | -\$13,828     | -\$13,828     | -\$141,078               | \$858,585              |
| Lime Rock Partners VIII             | \$2,452,095               | \$0           | -\$23,579     | -\$23,579     | -\$723,571               | \$1,704,945            |
| Medley Opportunity Fund II LP       | \$16,901,047              | \$0           | -\$1,414,003  | -\$1,414,003  | -\$972,447               | \$14,514,597           |
| Mellon High Yield Beta              |                           | \$44,000,000  | \$0           | \$44,000,000  | -\$459,316               | \$43,540,684           |
| Northern Tr Russell 2000 Value      | \$7,836                   | \$0           | -\$1,063      | -\$1,063      | -\$6,772                 | \$0                    |
| Northern Trust 0-5 Year TIPS        | \$47                      | \$43,000,000  | \$0           | \$43,000,000  | \$560,260                | \$43,560,306           |
| Northern Trust Aggregate Bond Index | \$67,070,850              | \$18,000,000  | \$0           | \$18,000,000  | \$1,997,689              | \$87,068,539           |



Total Fund | As of June 30, 2020

|                                     | Beginning<br>Market Value | Contributions | Withdrawals   | Net Cash Flow | Net Investment<br>Change | Ending<br>Market Value |
|-------------------------------------|---------------------------|---------------|---------------|---------------|--------------------------|------------------------|
| Northern Trust MSCI EM IMI          | \$102,606,600             | \$0           | -\$47,000,000 | -\$47,000,000 | \$16,237,085             | \$71,843,684           |
| Northern Trust MSCI World ex US     | \$123,836,977             | \$23,000,000  | \$0           | \$23,000,000  | \$20,996,062             | \$167,833,039          |
| Northern Trust Russell 3000         | \$118,655,534             | \$4,000,000   | -\$22,516,009 | -\$18,516,009 | \$23,739,012             | \$123,878,537          |
| Northern Trust Russell 3000         | \$159,639,037             | \$160,423,092 | -\$3,523,167  | \$156,899,925 | \$59,332,209             | \$375,871,172          |
| Oberweis Intl Opportunities         | \$25,144,085              | \$13,504,798  | -\$13,504,798 | \$0           | \$11,921,449             | \$37,065,534           |
| Octagon CLO Opp Fund III            | \$11,999,202              | \$2,500,000   | -\$353,856    | \$2,146,144   | \$2,738,833              | \$16,884,180           |
| Pantheon Global Secondary III       | \$2,884,221               | \$0           | -\$1,399,640  | -\$1,399,640  | -\$161,488               | \$1,323,093            |
| Pantheon USA Fund VII, LP           | \$12,816,940              | \$0           | -\$1,048,939  | -\$1,048,939  | -\$1,508,732             | \$10,259,268           |
| Partners Group Secondary 2008       | \$929,250                 | \$0           | \$0           | \$0           | -\$138,752               | \$790,499              |
| Partners Group Secondary 2011       | \$5,863,334               | \$0           | -\$281,314    | -\$281,314    | -\$1,091,096             | \$4,490,924            |
| Pathway Private Eq Fund VIII        | \$2,412,614               | \$18,859      | -\$228,123    | -\$209,264    | -\$287,909               | \$1,915,440            |
| PE Strategic Partnership, LP        | \$119,300,256             | \$7,800,000   | -\$136,500    | \$7,663,500   | -\$3,423,172             | \$123,540,584          |
| Pharo Management, Ltd.              | \$23,599,374              | \$0           | -\$21,959,500 | -\$21,959,500 | -\$1,639,874             | \$0                    |
| Pine River Fund, Ltd                | \$656,659                 | \$0           | -\$785        | -\$785        | -\$30,845                | \$625,028              |
| Rockpoint Real Estate Fund VI, L.P. |                           | \$1,059,027   | \$0           | \$1,059,027   | \$0                      | \$1,059,027            |
| Russell Investments Overlay         | \$64,808,953              | \$0           | -\$60,000,000 | -\$60,000,000 | \$14,059,661             | \$18,868,614           |
| RWC Emerging Markets Equity         | \$20,449,546              | \$0           | -\$42,373     | -\$42,373     | \$5,583,868              | \$25,991,041           |
| Senator Global Opportunity, LP      | \$13,229,060              | \$0           | -\$14,208,812 | -\$14,208,812 | \$979,752                | \$0                    |
| State Street Terminated Managers    | \$10,510                  | \$0           | \$0           | \$0           | -\$2,005                 | \$8,504                |
| Systematica                         | \$20,774,186              | \$0           | -\$20,040,081 | -\$20,040,081 | -\$734,104               |                        |
| Torchlight Debt Opportunity VI      | \$17,157,282              | \$13,500,000  | -\$101,250    | \$13,398,750  | -\$863,267               | \$29,692,764           |
| Tristan - EPISO IV                  | \$13,011,924              | \$0           | -\$725,826    | -\$725,826    | -\$275,812               | \$12,010,286           |

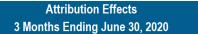


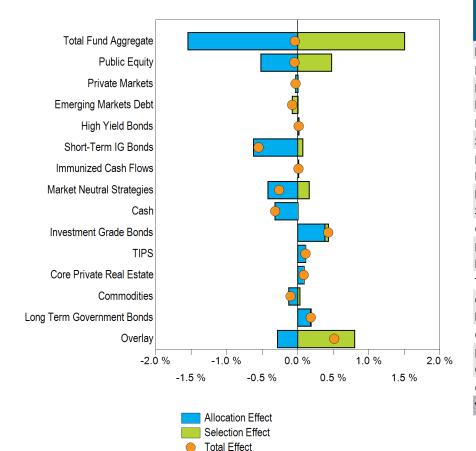
Total Fund | As of June 30, 2020

|                                               | Beginning<br>Market Value | Contributions | Withdrawals    | Net Cash Flow | Net Investment<br>Change | Ending<br>Market Value |
|-----------------------------------------------|---------------------------|---------------|----------------|---------------|--------------------------|------------------------|
| Tristan - EPISO V                             | \$667,100                 | \$366,697     | -\$41,070      | \$325,627     | -\$2,433                 | \$990,294              |
| Voya Securitized Credit                       |                           | \$31,068,724  | \$0            | \$31,068,724  | \$521,793                | \$31,590,517           |
| Voya TALF                                     |                           | \$500,000     | \$0            | \$500,000     | \$0                      | \$500,000              |
| Wellington Emerging Markets Systematic Equity | \$42,263,720              | \$0           | -\$30,563      | -\$30,563     | \$7,076,933              | \$49,310,090           |
| Wellington Iguazu Partners LP Fund            | \$35,241,440              | \$0           | \$0            | \$0           | \$2,328,320              | \$37,569,760           |
| White Oak Direct Lending                      | \$11,333,419              | \$0           | -\$40,991      | -\$40,991     | -\$693,092               | \$10,599,336           |
| Total                                         | \$1,972,576,722           | \$903,209,394 | -\$916,292,491 | -\$13,083,096 | \$223,855,518            | \$2,183,349,144        |



Total Fund | As of June 30, 2020



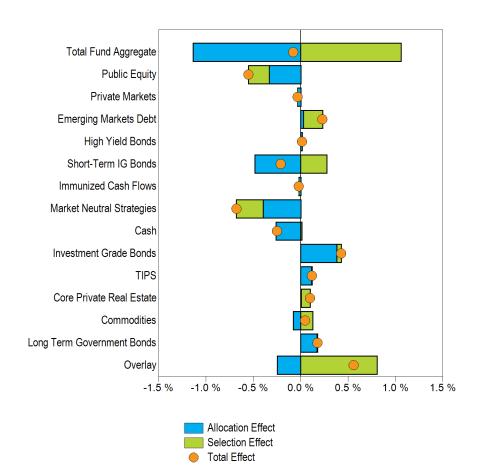


|                               | At                       | tribution            | Summary          |                     |                      |                  |
|-------------------------------|--------------------------|----------------------|------------------|---------------------|----------------------|------------------|
|                               |                          |                      | June 30, 2       | 2020                |                      |                  |
|                               | Wtd.<br>Actual<br>Return | /td. Index<br>Return | Excess<br>Return | Selection<br>Effect | Allocation<br>Effect | Total<br>Effects |
| Public Equity                 | 21.0%                    | 20.0%                | 1.0%             | 0.5%                | -0.5%                | 0.0%             |
| Private Markets               | 2.9%                     | 2.9%                 | 0.0%             | 0.0%                | 0.0%                 | 0.0%             |
| Emerging Markets<br>Debt      | 8.3%                     | 11.0%                | -2.8%            | -0.1%               | 0.0%                 | -0.1%            |
| High Yield Bonds              | 0.0%                     | 10.2%                | -10.2%           | 0.0%                | 0.0%                 | 0.0%             |
| Short-Term IG Bonds           | 1.1%                     | 0.0%                 | 1.1%             | 0.1%                | -0.6%                | -0.6%            |
| Immunized Cash<br>Flows       | 0.2%                     | 0.2%                 | 0.0%             | 0.0%                | 0.0%                 | 0.0%             |
| Market Neutral<br>Strategies  | 2.8%                     | 0.2%                 | 2.7%             | 0.2%                | -0.4%                | -0.3%            |
| Cash                          | 0.0%                     | 0.0%                 | 0.0%             | 0.0%                | -0.3%                | -0.3%            |
| Investment Grade<br>Bonds     | 3.1%                     | 2.1%                 | 1.0%             | 0.0%                | 0.4%                 | 0.4%             |
| TIPS                          | 1.5%                     | 2.6%                 | -1.2%            | 0.0%                | 0.1%                 | 0.1%             |
| Core Private Real<br>Estate   | -1.5%                    | -1.5%                | 0.0%             | 0.0%                | 0.1%                 | 0.1%             |
| Commodities                   | 0.0%                     | 5.1%                 | -5.1%            | 0.0%                | -0.1%                | -0.1%            |
| Long Term<br>Government Bonds | 0.4%                     | 0.3%                 | 0.1%             | 0.0%                | 0.2%                 | 0.2%             |
| Overlay                       | 26.5%                    | 0.0%                 | 26.5%            | 0.8%                | -0.3%                | 0.5%             |
| Total                         | 10.9%                    | 10.9%                | 0.0%             | 1.5%                | -1.5%                | 0.0%             |

<sup>1</sup> Difference in attribution returns and returns in the performance summary may occur as a result of the different calculation methodologies that are applied by InvestorForce.





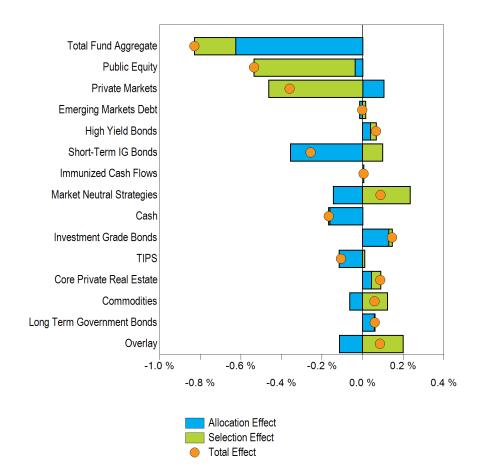


|                               |                          | ttribution<br>or Ending J |       |       |                      |                  |
|-------------------------------|--------------------------|---------------------------|-------|-------|----------------------|------------------|
|                               | Wtd.<br>Actual<br>Return | Wtd.<br>Index<br>Return   |       |       | Allocation<br>Effect | Total<br>Effects |
| Public Equity                 | -1.0%                    | 0.2%                      | -1.2% | -0.2% | -0.3%                | -0.6%            |
| Private Markets               | -0.3%                    | -0.3%                     | 0.0%  | 0.0%  | 0.0%                 | 0.0%             |
| Emerging Markets<br>Debt      | 5.5%                     | -1.1%                     | 6.6%  | 0.2%  | 0.0%                 | 0.2%             |
| High Yield Bonds              | 0.0%                     | 0.0%                      | 0.0%  | 0.0%  | 0.0%                 | 0.0%             |
| Short-Term IG<br>Bonds        | 3.7%                     | 1.3%                      | 2.4%  | 0.3%  | -0.5%                | -0.2%            |
| Immunized Cash<br>Flows       | 3.9%                     | 3.9%                      | 0.0%  | 0.0%  | 0.0%                 | 0.0%             |
| Market Neutral<br>Strategies  | -2.0%                    | 1.6%                      | -3.6% | -0.3% | -0.4%                | -0.7%            |
| Cash                          | 2.0%                     | 1.6%                      | 0.3%  | 0.0%  | -0.3%                | -0.3%            |
| Investment Grade<br>Bonds     | 6.3%                     | 5.2%                      | 1.1%  | 0.0%  | 0.4%                 | 0.4%             |
| TIPS                          | 2.5%                     | 3.4%                      | -1.0% | 0.0%  | 0.1%                 | 0.1%             |
| Core Private Real<br>Estate   | 3.6%                     | 1.7%                      | 1.9%  | 0.1%  | 0.0%                 | 0.1%             |
| Commodities                   | -18.1%                   | -17.4%                    | -0.8% | 0.1%  | -0.1%                | 0.0%             |
| Long Term<br>Government Bonds | 0.4%                     | 0.3%                      | 0.1%  | 0.0%  | 0.2%                 | 0.2%             |
| Overlay                       | 40.2%                    | 1.3%                      | 38.9% | 0.8%  | -0.2%                | 0.6%             |
| Total                         | 3.5%                     | 3.6%                      | -0.1% | 1.1%  | -1.1%                | -0.1%            |



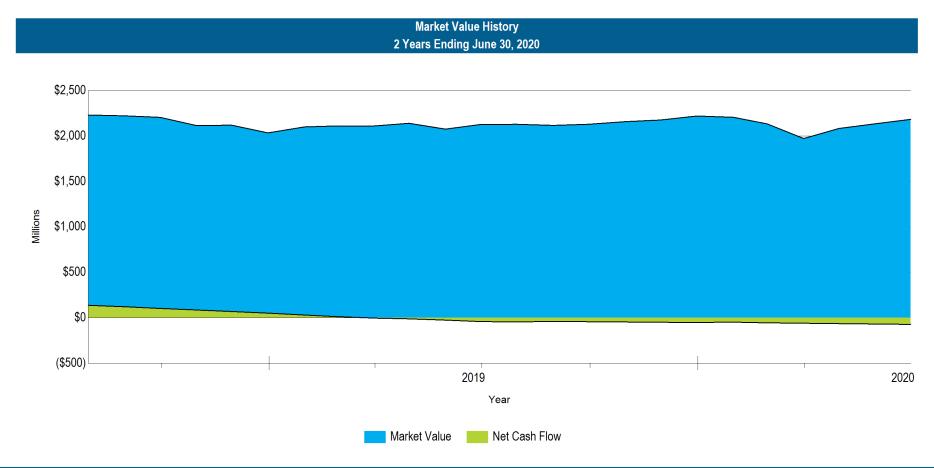
#### Total Fund | As of June 30, 2020





|                               |                          |                         | Summary<br>June 30, 2 |                     |                      |                  |
|-------------------------------|--------------------------|-------------------------|-----------------------|---------------------|----------------------|------------------|
|                               | Wtd.<br>Actual<br>Return | Wtd.<br>Index<br>Return | Excess<br>Return      | Selection<br>Effect | Allocation<br>Effect | Total<br>Effects |
| Public Equity                 | 4.0%                     | 5.4%                    | -1.5%                 | -0.5%               | 0.0%                 | -0.5%            |
| Private Markets               | 5.1%                     | 7.1%                    | -2.0%                 | -0.5%               | 0.1%                 | -0.4%            |
| Emerging Markets<br>Debt      | 3.4%                     | 2.4%                    | 1.0%                  | 0.0%                | 0.0%                 | 0.0%             |
| High Yield Bonds              | 1.5%                     | 3.3%                    | -1.8%                 | 0.0%                | 0.0%                 | 0.1%             |
| Short-Term IG<br>Bonds        | 1.8%                     | 1.0%                    | 0.8%                  | 0.1%                | -0.4%                | -0.3%            |
| Immunized Cash<br>Flows       | 2.5%                     | 2.5%                    | 0.0%                  | 0.0%                | 0.0%                 | 0.0%             |
| Market Neutral<br>Strategies  | 3.4%                     | 1.5%                    | 1.9%                  | 0.2%                | -0.1%                | 0.1%             |
| Cash                          | 1.7%                     | 1.8%                    | 0.0%                  | 0.0%                | -0.2%                | -0.2%            |
| Investment Grade<br>Bonds     | 2.1%                     | 1.7%                    | 0.4%                  | 0.0%                | 0.1%                 | 0.1%             |
| TIPS                          | 2.4%                     | 2.7%                    | -0.2%                 | 0.0%                | -0.1%                | -0.1%            |
| Core Private Real<br>Estate   | 6.1%                     | 5.1%                    | 1.0%                  | 0.0%                | 0.0%                 | 0.1%             |
| Commodities                   | -5.0%                    | -6.1%                   | 1.1%                  | 0.1%                | -0.1%                | 0.1%             |
| Long Term<br>Government Bonds | 0.1%                     | 0.1%                    | 0.0%                  | 0.0%                | 0.1%                 | 0.1%             |
| Overlay                       | 4.5%                     | 1.7%                    | 2.8%                  | 0.2%                | -0.1%                | 0.1%             |
| Total                         | 4.8%                     | 5.0%                    | -0.2%                 | -0.2%               | -0.6%                | -0.8%            |

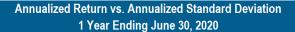


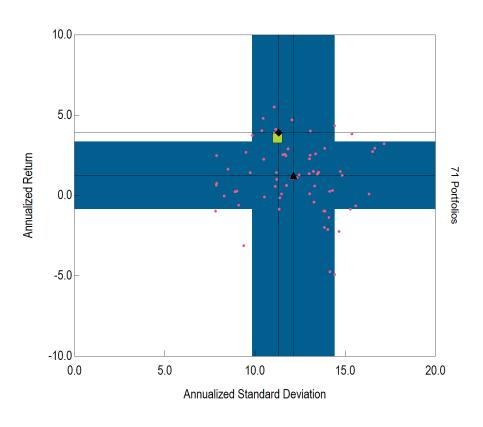


|                        | Second Quarter  | Fiscal Year-To-Date | One Year        | Two Years       |
|------------------------|-----------------|---------------------|-----------------|-----------------|
| Beginning Market Value | \$1,972,576,722 | \$2,127,219,653     | \$2,127,219,653 | \$2,071,707,543 |
| Net Cash Flow          | -\$12,429,982   | -\$30,625,084       | -\$30,625,084   | -\$73,214,326   |
| Net Investment Change  | \$223,202,404   | \$86,754,575        | \$86,754,575    | \$184,855,927   |
| Ending Market Value    | \$2,183,349,144 | \$2,183,349,144     | \$2,183,349,144 | \$2,183,349,144 |



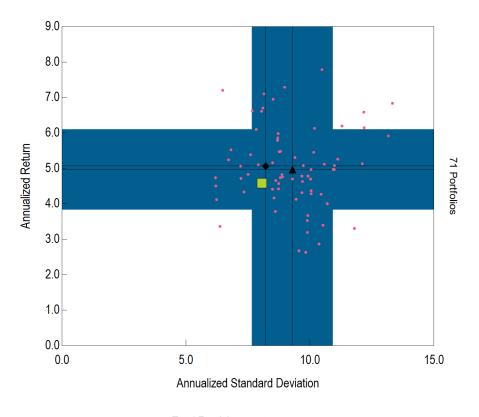
#### Total Fund | As of June 30, 2020





- Total Fund Aggregate
- Policy Benchmark
- ▲ Universe Median
- 68% Confidence Interval
- InvMetrics Public DB > \$1B Net

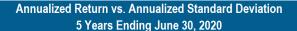
# Annualized Return vs. Annualized Standard Deviation 3 Years Ending June 30, 2020

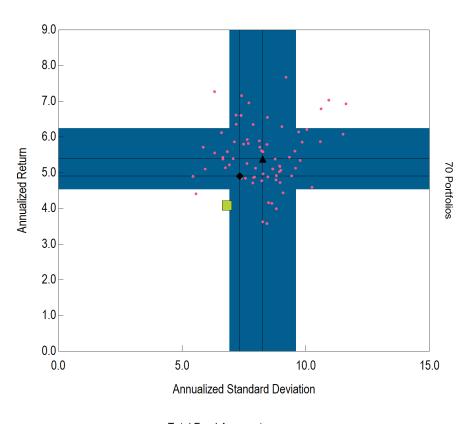


- Total Fund Aggregate
- Policy Benchmark
- ▲ Universe Median
- 68% Confidence Interval
- InvMetrics Public DB > \$1B Net



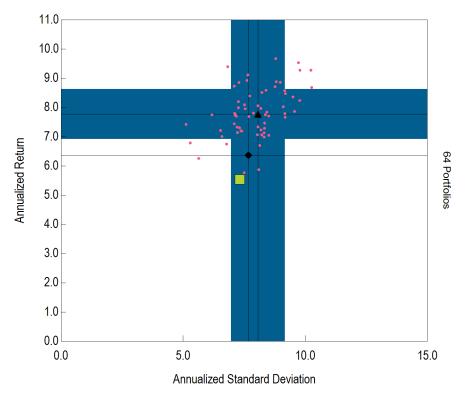
#### Total Fund | As of June 30, 2020





- Total Fund Aggregate
- Policy Benchmark
- ▲ Universe Median
- 68% Confidence Interval
- InvMetrics Public DB > \$1B Net

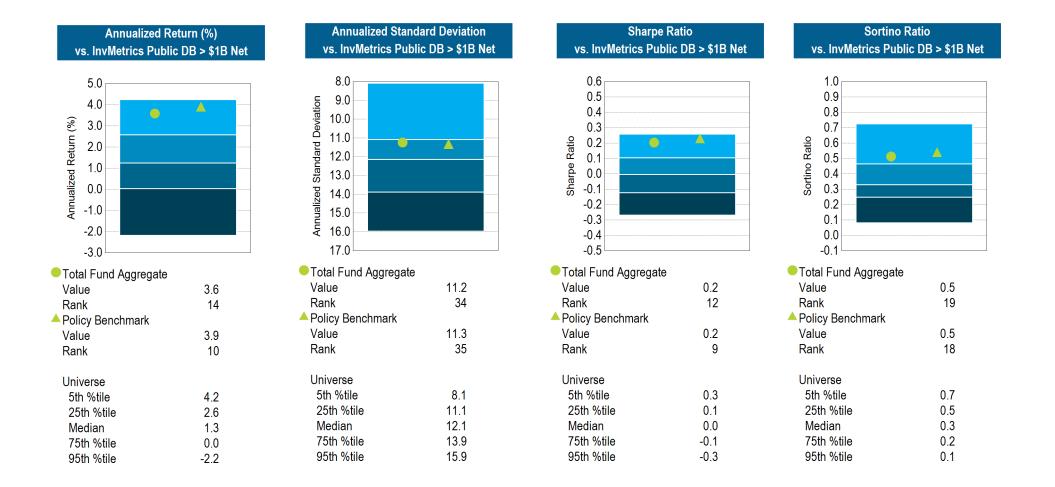
#### Annualized Return vs. Annualized Standard Deviation 10 Years Ending June 30, 2020



- Total Fund Aggregate
- Policy Benchmark
- ▲ Universe Median
- 68% Confidence Interval
- InvMetrics Public DB > \$1B Net

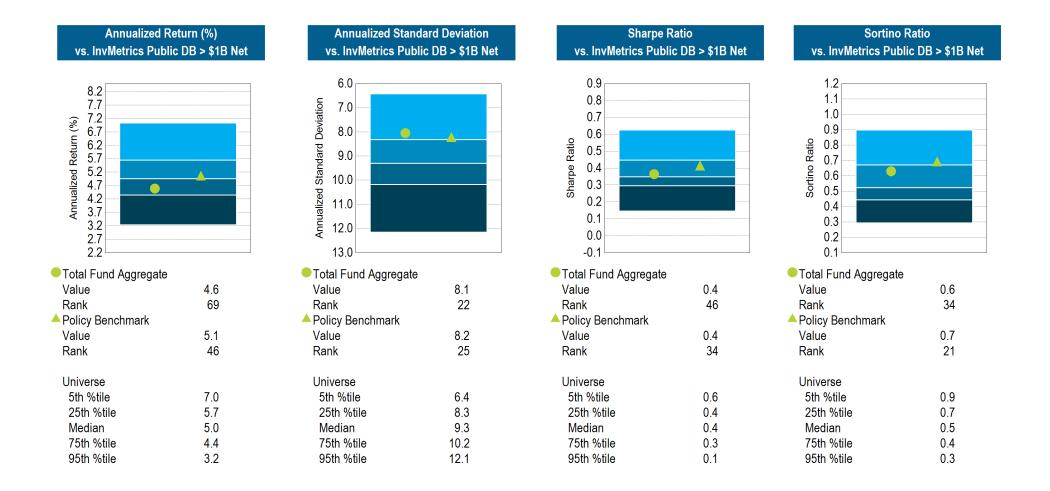


#### Total Fund | One Year As of June 30, 2020



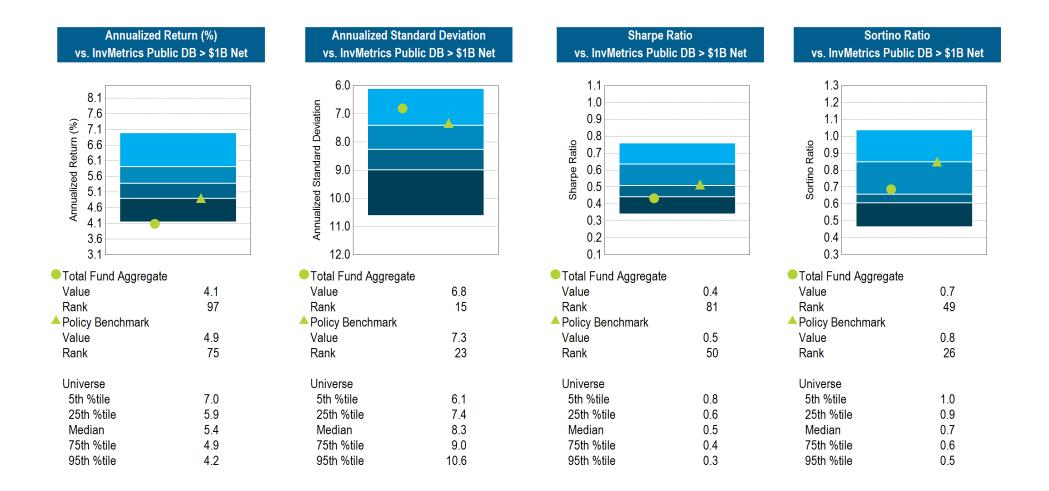


#### Total Fund | Three Years As of June 30, 2020



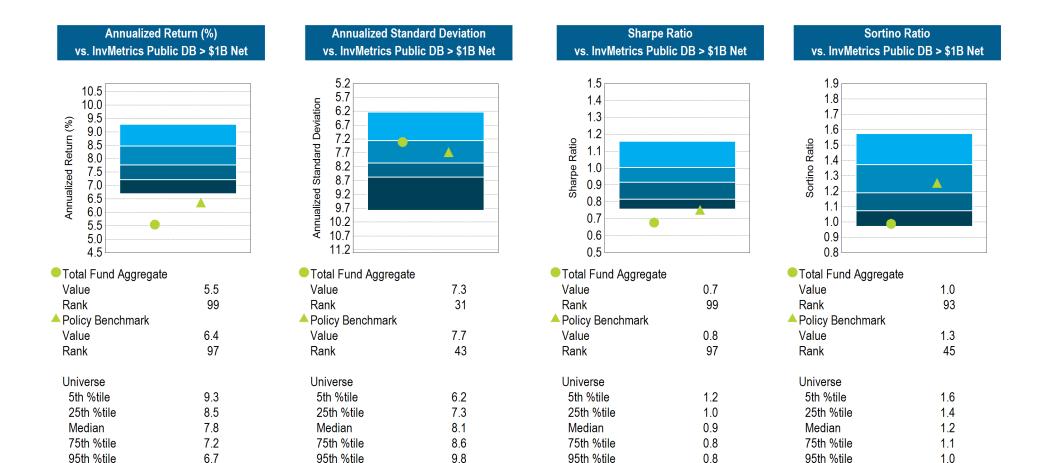


#### Total Fund | Five Years As of June 30, 2020

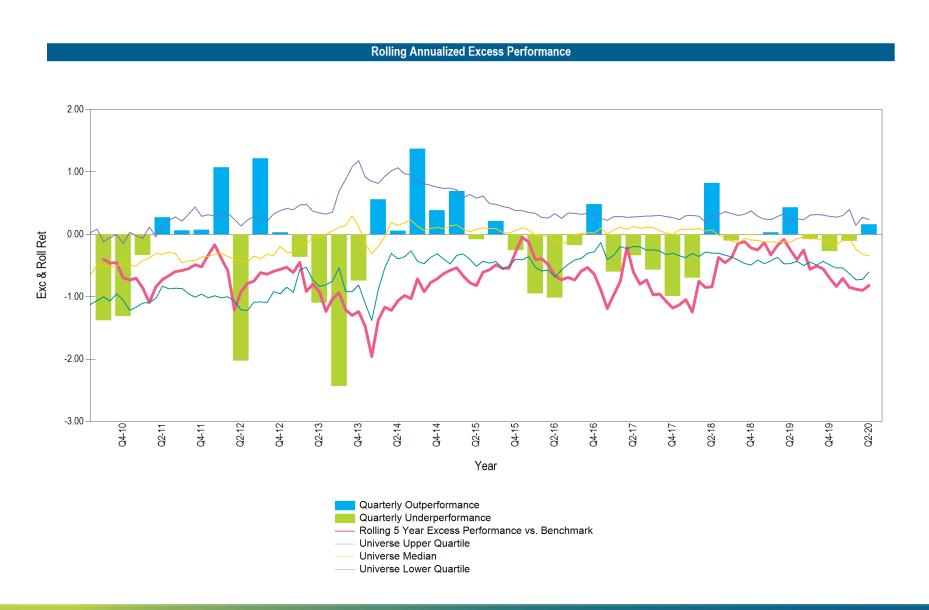




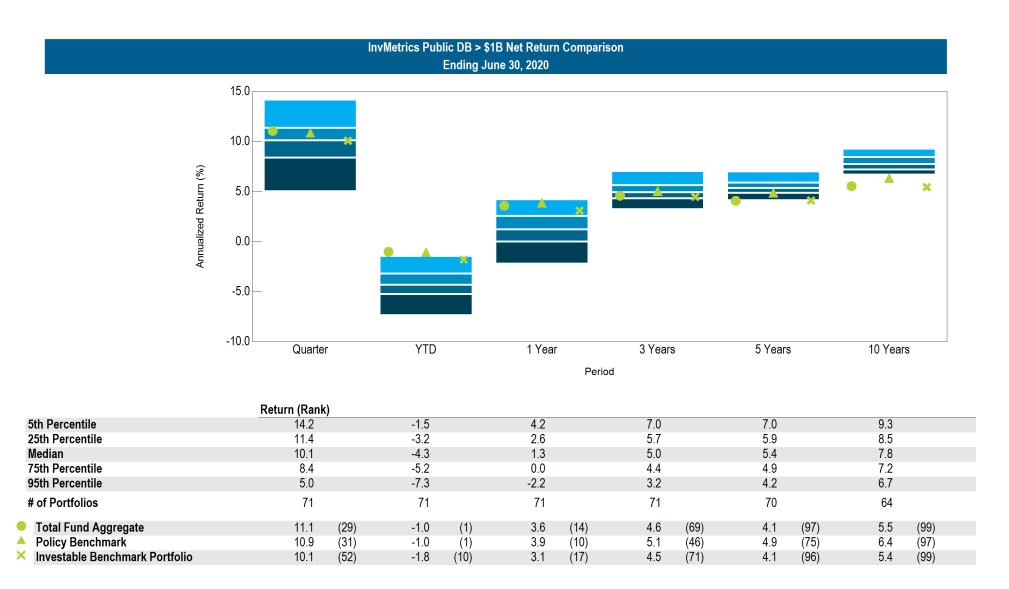
#### Total Fund | Ten Years As of June 30, 2020



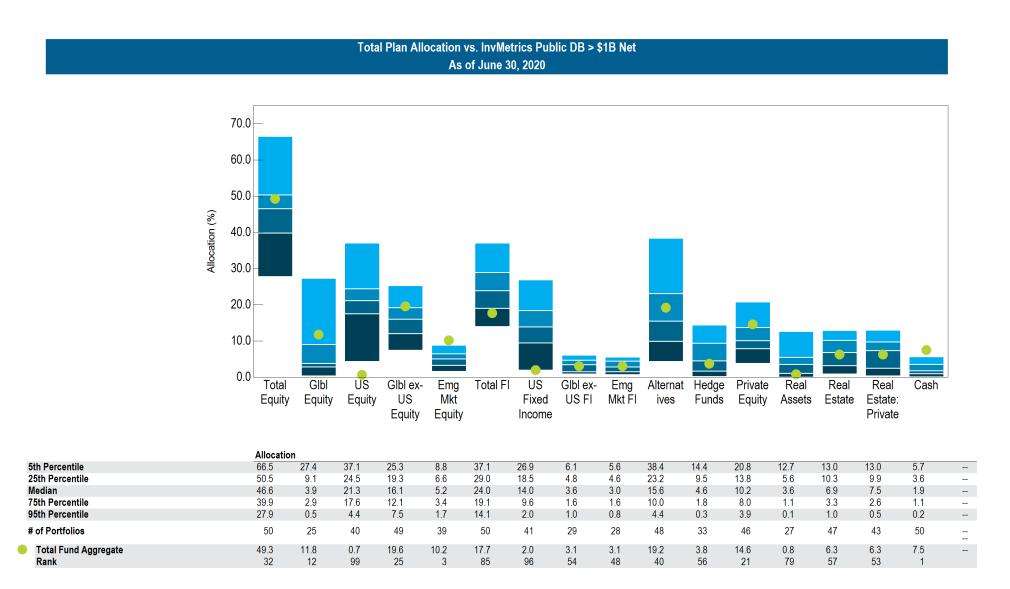














### Total Fund | As of June 30, 2020

|                                    | Major Benchmark R     | eturns  |       |       |        |
|------------------------------------|-----------------------|---------|-------|-------|--------|
|                                    | Periods Ending June 3 | 0, 2020 |       |       |        |
| Name                               | Q2-20                 | 1 Yr    | 3 Yrs | 5 Yrs | 10 Yrs |
| US Equity                          |                       |         |       |       |        |
| Russell 3000                       | 22.0                  | 6.5     | 10.0  | 10.0  | 13.7   |
| S&P 500                            | 20.5                  | 7.5     | 10.7  | 10.7  | 14.0   |
| Russell 1000                       | 21.8                  | 7.5     | 10.6  | 10.5  | 14.0   |
| Russell 1000 Growth                | 27.8                  | 23.3    | 19.0  | 15.9  | 17.2   |
| Russell 1000 Value                 | 14.3                  | -8.8    | 1.8   | 4.6   | 10.4   |
| Russell MidCap                     | 24.6                  | -2.2    | 5.8   | 6.8   | 12.3   |
| Russell 2000                       | 25.4                  | -6.6    | 2.0   | 4.3   | 10.5   |
| Russell 2000 Growth                | 30.6                  | 3.5     | 7.9   | 6.9   | 12.9   |
| Russell 2000 Value                 | 18.9                  | -17.5   | -4.3  | 1.3   | 7.8    |
| International Equity               |                       |         |       |       |        |
| MSCI ACWI                          | 19.2                  | 2.1     | 6.1   | 6.5   | 9.2    |
| MSCI World ex USA                  | 15.3                  | -5.4    | 0.8   | 2.0   | 5.4    |
| MSCI EAFE                          | 14.9                  | -5.1    | 0.8   | 2.1   | 5.7    |
| MSCI Emerging Markets              | 18.1                  | -3.4    | 1.9   | 2.9   | 3.3    |
| Fixed Income                       |                       |         |       |       |        |
| 91 Day T-Bills                     | 0.0                   | 1.3     | 1.7   | 1.1   | 0.6    |
| BBgBarc US Aggregate TR            | 2.9                   | 8.7     | 5.3   | 4.3   | 3.8    |
| BBgBarc US Govt/Credit TR          | 3.7                   | 10.0    | 5.9   | 4.7   | 4.1    |
| BBgBarc US Municipal TR            | 2.7                   | 4.4     | 4.2   | 3.9   | 4.2    |
| BBgBarc US High Yield TR           | 10.2                  | 0.0     | 3.3   | 4.8   | 6.7    |
| FTSE WGBI TR                       | 2.0                   | 4.6     | 4.0   | 3.7   | 2.4    |
| FTSE WGBI ex US TR                 | 3.0                   | 0.9     | 2.9   | 3.3   | 1.8    |
| Real Estate                        |                       |         |       |       |        |
| FTSE NAREIT All REIT               | 14.0                  | -8.4    | 2.7   | 6.1   | 10.1   |
| NCREIF Property Index              | -1.0                  | 2.7     | 5.4   | 6.8   | 9.7    |
| Alternatives                       |                       |         |       |       |        |
| HFRI Fund of Funds Composite Index | 7.9                   | 0.5     | 2.3   | 1.5   | 2.8    |
| Inflation                          |                       |         |       |       |        |
| Consumer Price Index               | -0.1                  | 0.6     | 1.7   | 1.6   | 1.7    |



Total Fund | As of June 30, 2020

|                                             |                  |                 |                         | S                              | Statistics Su                          | ımmary           |                       |                   |                      |                           |      |                 |
|---------------------------------------------|------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|------------------|-----------------------|-------------------|----------------------|---------------------------|------|-----------------|
|                                             |                  |                 |                         | 3 Yea                          | ars Ending Ju                          | ine 30, 2020     |                       |                   |                      |                           |      |                 |
|                                             | % of Total<br>MV | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Anlzd Alpha<br>J | Anlzd Alpha<br>J Rank | Tracking<br>Error | Information<br>Ratio | Information<br>Ratio Rank | Beta | Sharpe<br>Ratio |
| Total Fund Aggregate                        | 100.00%          | 4.59%           | 69                      | 8.05%                          | 22                                     | -0.39%           | 51                    | 1.09%             | -0.44                | 61                        | 0.97 | 0.36            |
| Policy Benchmark                            |                  | 5.07%           | 46                      | 8.21%                          | 25                                     | 0.00%            | 42                    | 0.00%             |                      |                           | 1.00 | 0.42            |
| Growth                                      | 75.30%           | 4.89%           |                         | 12.43%                         |                                        | -0.99%           |                       | 1.65%             | -0.68                |                           | 0.97 | 0.26            |
| Growth Benchmark                            |                  | 6.00%           |                         | 12.71%                         |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00 | 0.34            |
| Public Equity                               | 49.27%           | 3.98%           |                         | 16.36%                         |                                        | -1.35%           |                       | 1.66%             | -0.88                |                           | 0.97 | 0.14            |
| Public Equity Benchmark                     |                  | 5.45%           |                         | 16.80%                         |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00 | 0.23            |
| Global Equity                               | 11.79%           | 6.46%           | 42                      | 17.31%                         | 62                                     | 0.81%            | 44                    | 2.26%             | 0.40                 | 38                        | 1.03 | 0.28            |
| MSCI ACWI IMI Index                         |                  | 5.55%           | 47                      | 16.72%                         | 51                                     | 0.00%            | 49                    | 0.00%             |                      |                           | 1.00 | 0.23            |
| US Equity                                   | 17.88%           | 7.34%           | 45                      | 18.36%                         | 38                                     | -3.07%           | 46                    | 1.77%             | -1.59                | 87                        | 1.03 | 0.31            |
| MSCI USA IMI GR USD                         |                  | 10.15%          | 32                      | 17.73%                         | 32                                     | 0.00%            | 32                    | 0.00%             |                      |                           | 1.00 | 0.48            |
| International Equity                        | 9.38%            | 1.56%           | 67                      | 16.67%                         | 52                                     | 0.79%            | 67                    | 2.67%             | 0.29                 | 67                        | 1.04 | -0.01           |
| MSCI World ex USA IMI NR USD                |                  | 0.80%           | 72                      | 15.88%                         | 34                                     | 0.00%            | 72                    | 0.00%             |                      |                           | 1.00 | -0.05           |
| Emerging Markets Equity                     | 10.21%           | -1.19%          | 74                      | 18.52%                         | 37                                     | -2.55%           | 74                    | 2.65%             | -0.96                | 94                        | 0.98 | -0.15           |
| MSCI Emerging Market IMI Net                |                  | 1.35%           | 49                      | 18.68%                         | 41                                     | 0.00%            | 49                    | 0.00%             |                      |                           | 1.00 | -0.02           |
| Marketable Alternative Equity               | 0.00%            | 4.79%           |                         | 6.58%                          |                                        | 2.53%            |                       | 7.26%             | 0.25                 |                           | 0.46 | 0.48            |
| HFRI Equity Hedge (Total) Index             |                  | 2.97%           |                         | 10.43%                         |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00 | 0.13            |
| Private Markets                             | 20.95%           | 5.12%           |                         | 8.62%                          |                                        | -1.01%           |                       | 5.05%             | -0.39                |                           | 0.83 | 0.40            |
| Private Markets Benchmark                   |                  | 7.09%           |                         | 8.66%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00 | 0.63            |
| Private Equity                              | 7.18%            | 8.80%           | 59                      | 4.90%                          | 4                                      | 6.29%            | 38                    | 9.37%             | 0.02                 | 52                        | 0.12 | 1.46            |
| San Jose Custom Private Equity<br>Benchmark |                  | 8.65%           | 62                      | 9.20%                          | 70                                     | 0.00%            | 79                    | 0.00%             |                      |                           | 1.00 | 0.76            |
| Private Equity ex Russell 3000              | 7.18%            | 8.80%           |                         | 4.90%                          |                                        | 6.22%            |                       | 10.29%            | -0.38                |                           | 0.08 | 1.46            |
| Cambridge PE Composite BM                   |                  | 12.67%          |                         | 9.92%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00 | 1.11            |



### Total Fund | As of June 30, 2020

|                                        | % of Total<br>MV | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Anlzd Alpha<br>J | Anlzd Alpha<br>J Rank | Tracking<br>Error | Information<br>Ratio | Information<br>Ratio Rank | Beta  | Sharpe<br>Ratio |
|----------------------------------------|------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|------------------|-----------------------|-------------------|----------------------|---------------------------|-------|-----------------|
| Private Debt                           | 3.52%            | -6.84%          |                         | 9.20%                          |                                        | -9.51%           |                       | 9.24%             | -1.14                |                           | 0.49  | -0.92           |
| S&P Global Leveraged Loan Index<br>+2% |                  | 3.73%           |                         | 8.29%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | 0.25            |
| Growth Real Estate                     | 3.66%            | 14.22%          | 1                       | 6.44%                          | 95                                     | 15.63%           | 1                     | 7.78%             | 1.13                 | 1                         | -0.81 | 1.95            |
| NCREIF Property Index                  |                  | 5.44%           | 52                      | 2.70%                          | 64                                     | 0.00%            | 68                    | 0.00%             |                      |                           | 1.00  | 1.40            |
| Emerging Markets Debt                  | 3.09%            | 3.41%           | 32                      | 9.01%                          | 13                                     | 1.15%            | 31                    | 4.56%             | 0.21                 | 34                        | 0.77  | 0.19            |
| 50% JPM EMBI GD / 50% JPM GBI-<br>EM   |                  | 2.43%           | 47                      | 10.63%                         | 29                                     | 0.00%            | 46                    | 0.00%             |                      |                           | 1.00  | 0.07            |
| Low Beta                               | 10.42%           | 3.43%           |                         | 1.97%                          |                                        | 1.68%            |                       | 2.95%             | 0.48                 |                           | 0.25  | 0.90            |
| Low Beta Benchmark                     |                  | 2.01%           |                         | 3.13%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | 0.11            |
| Market Neutral Strategies              | 3.76%            | 3.39%           |                         | 5.65%                          |                                        | 1.77%            |                       | 5.88%             | 0.31                 |                           | 0.36  | 0.31            |
| Market Neutral Strategies<br>Benchmark |                  | 1.54%           |                         | 3.11%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | -0.04           |
| Macro                                  | 0.80%            | 4.83%           |                         | 5.80%                          |                                        | 3.29%            |                       | 4.83%             | 0.69                 |                           | 0.76  | 0.55            |
| HFRI Macro (Total) Index               |                  | 1.50%           |                         | 4.41%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | -0.03           |
| Relative Value                         | 2.96%            | 1.60%           |                         | 10.08%                         |                                        | 0.22%            |                       | 4.84%             | 0.03                 |                           | 1.38  | -0.01           |
| HFRI Relative Value (Total) Index      |                  | 1.46%           |                         | 6.67%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | -0.03           |
| Cash                                   | 2.39%            | 1.73%           |                         | 0.29%                          |                                        | 0.00%            |                       | 0.26%             | -0.13                |                           | 0.69  | 0.27            |
| ICE BofA 91 Days T-Bills TR            |                  | 1.77%           |                         | 0.22%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | 0.50            |
| Other                                  | 13.42%           | 2.66%           |                         | 2.43%                          |                                        | 1.70%            |                       | 3.34%             | 0.88                 |                           | 0.36  | 0.41            |
| Other Benchmark                        |                  | -0.28%          |                         | 4.36%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | -0.44           |
| TIPS                                   | 2.00%            | 2.43%           |                         | 1.49%                          |                                        | -0.06%           |                       | 0.70%             | -0.35                |                           | 0.82  | 0.52            |
| BBgBarc U.S. TIPS 0-5 Years            |                  | 2.67%           |                         | 1.66%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00  | 0.61            |
| Core Private Real Estate               | 3.98%            | 6.09%           |                         | 2.40%                          |                                        | 3.88%            |                       | 3.31%             | 0.30                 |                           | 0.16  | 1.85            |



### Total Fund | As of June 30, 2020

|                                     | % of Total<br>MV | Anlzd<br>Return | Anlzd<br>Return<br>Rank | Anlzd<br>Standard<br>Deviation | Anlzd<br>Standard<br>Deviation<br>Rank | Anizd Alpha<br>J | Anlzd Alpha<br>J Rank | Tracking<br>Error | Information<br>Ratio | Information<br>Ratio Rank | Beta   | Sharpe<br>Ratio |
|-------------------------------------|------------------|-----------------|-------------------------|--------------------------------|----------------------------------------|------------------|-----------------------|-------------------|----------------------|---------------------------|--------|-----------------|
| NCREIF ODCE Equal Weighted (Net)    |                  | 5.10%           |                         | 2.77%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00   | 1.24            |
| Commodities                         | 0.00%            | -5.02%          |                         | 10.92%                         |                                        | -0.53%           |                       | 5.19%             | 0.21                 |                           | 0.79   | -0.61           |
| Bloomberg Commodity Index TR<br>USD |                  | -6.14%          |                         | 12.64%                         |                                        | 0.00%            | <del></del>           | 0.00%             |                      | <del></del>               | 1.00   | -0.62           |
| Core Bonds                          |                  |                 |                         |                                |                                        |                  |                       |                   |                      |                           |        |                 |
| BBgBarc Global Aggregate TR         |                  | 3.79%           |                         | 3.93%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00   | 0.54            |
| Overlay                             | 0.86%            | 4.49%           |                         | 37.05%                         |                                        | 2.83%            |                       | 37.08%            | 0.08                 |                           | -30.99 | 0.08            |
| 91 Day T-Bills                      |                  | 1.66%           |                         | 0.18%                          |                                        | 0.00%            |                       | 0.00%             |                      |                           | 1.00   | 0.00            |



Total Fund | As of June 30, 2020

|                |                 | Benchmark History                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |                 | As of June 30, 2020                                                                                                                                                                                                                                                                                                                                                                                                |
| Total Fund Agg | regate          |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4/1/2020       | Present         | 25% MSCI USA IMI NR USD / 12% MSCI World ex USA IMI NR USD / 12% MSCI Emerging Market IMI Net / 21% Private Markets Benchmark / 3% 50% JPM EMBI GD / 50% JPM GBI-EM / 2% BBgBarc US Corporate High Yield TR / 5% Immunized Cash Flows Benchmark / 3% Market Neutral Strategies Benchmark / 5% NCREIF-ODCE / 2% BBgBarc US Govt Long TR / 2% BBgBarc US Treasury TIPS 0-5 Yr TR / 8% BBgBarc Global Aggregate TR    |
| 12/1/2019      | 3/31/2020       | 13% MSCI USA IMI NR USD / 10% MSCI World ex USA IMI NR USD / 12% MSCI Emerging Market IMI Net / 23% Private Markets Benchmark / 3% 50% JPM EMBI GD / 50% JPM GBI-EM / 15% ICE BofA 91 Days T-Bills TR / 5% Immunized Cash Flows Benchmark / 7% Market Neutral Strategies Benchmark / 5% NCREIF-ODCE / 2% Bloomberg Commodity Index TR USD / 2% BBgBarc US Treasury TIPS 0-5 Yr TR / 3% BBgBarc Global Aggregate TR |
| 11/1/2019      | 11/30/2019      | 13% MSCI USA IMI NR USD / 10% MSCI World ex USA IMI NR USD / 12% MSCI Emerging Market IMI Net / 23% Private Markets Benchmark / 3% 50% JPM EMBI GD / 50% JPM GBI-EM / 18% ICE BofA 91 Days T-Bills TR / 5% Immunized Cash Flows Benchmark / 7% Market Neutral Strategies Benchmark / 5% NCREIF-ODCE / 2% Bloomberg Commodity Index TR USD / 2% BBgBarc US Treasury TIPS 0-5 Yr TR                                  |
| 10/1/2019      | 10/31/2019      | 13% MSCI USA IMI NR USD / 7% MSCI World ex USA IMI NR USD / 10% MSCI Emerging Market IMI Net / 25% Private Markets Benchmark / 5% 50% JPM EMBI GD / 50% JPM GBI-EM / 18% ICE BofA 91 Days T-Bills TR / 5% Immunized Cash Flows Benchmark / 7% Market Neutral Strategies Benchmark / 5% NCREIF-ODCE / 3% Bloomberg Commodity Index TR USD / 2% BBgBarc US Treasury TIPS 0-5 Yr TR                                   |
| 10/1/2018      | 9/30/2019       | 13% MSCI USA IMI NR USD / 7% MSCI World ex USA IMI NR USD / 10% MSCI Emerging Market IMI Net / 25% Private Markets Benchmark / 3% 50% JPM EMBI GD / 50% JPM GBI-EM / 20% ICE BofA 91 Days T-Bills TR / 5% Immunized Cash Flows Benchmark / 7% Market Neutral Strategies Benchmark / 5% NCREIF-ODCE / 3% Bloomberg Commodity Index TR USD / 2% BBgBarc US Treasury TIPS 0-5 Yr TR                                   |
| 11/1/2017      | 9/30/2018       | 28% MSCI ACWI IMI Net USD / 9% Cambridge PE Composite BM / 33% Fixed Income Custom Benchmark / 6% S&P Global Leveraged Loan Index +2% / 8% NCREIF Property Index / 4% Bloomberg Commodity Index TR USD / 1% DJ Brookfield Global Infrastructure Net TR USD / 11% HFRI Macro (Total) Index                                                                                                                          |
| 7/1/2015       | 10/31/2017      | 28% MSCI ACWI IMI Net USD / 9% Cambridge Associates Private Equity Composite / 19% Fixed Income Custom Benchmark / 5% S&P Global Leveraged Loan Index +2% / 7% NCREIF Property Index / 6% Bloomberg Commodity Index TR USD / 5% DJ Brookfield Global Infrastructure Net TR USD / 5% S&P Global LargeMidCap Commodity and Resources GR USD / 11% HFRI Macro (Total) Index / 5% 60/40 MSCI ACWI IMI/BC Global        |
| Liability Benc | hmark Portfolio |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 10/1/2018      | Present         | 100% BBgBarc US Treasury Long TR                                                                                                                                                                                                                                                                                                                                                                                   |



Total Fund | As of June 30, 2020

| Low Cost Passiv | e Benchmark |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/1/2020        | Present     | 25% MSCI USA IMI NR USD / 12% MSCI World ex USA IMI NR USD / 12% MSCI Emerging Market IMI Net / 10% Russell 3000 / 11% BBgBarc US Aggregate TR / 2% BBgBarc US Corporate High Yield TR 8% / 3% FTSE EPRA/NAREIT Global NR USD / 2% BBgBarc US Govt Long TR / 5% ICE BofAML 91 Days T-Bills TR / 3% 3-Month Libor +1% / 2% BBgBarc US Treasury TIPS 0-5 Yr TR                                                                                                            |
| 12/1/2019       | 3/31/2020   | 13% MSCI USA IMI NR USD / 10% MSCI World ex USA IMI NR USD / 12% MSCI Emerging Market IMI Net / 13% Russell 3000 / 7% BBgBarc US Aggregate TR / 8% FTSE EPRA/NAREIT Global NR USD / 3% S&P Global Natural Resources Net USD / 5% 50% JPM EMBI GD / 50% JPM GBI-EM / 5% ICE BofAML 91 Days T-Bills TR / 7% 3-Month Libor +1% / 2% BBgBarc US Treasury TIPS 0-5 Yr TR / 2% Bloomberg Commodity Index TR USD / 15% BBgBarc US Govt/Credit 1-3 Yr. TR                       |
| 11/1/2019       | 11/30/2019  | 13% MSCI USA IMI NR USD / 10% MSCI World ex USA IMI NR USD / 12% MSCI Emerging Market IMI Net / 13% Russell 3000 / 7% BBgBarc US Aggregate TR / 8% FTSE EPRA/NAREIT Global NR USD / 3% S&P Global Natural Resources Net USD / 5% 50% JPM EMBI GD / 50% JPM GBI-EM / 5% ICE BofAML 91 Days T-Bills TR / 7% 3-Month Libor +1% / 2% BBgBarc US Treasury TIPS 0-5 Yr TR / 2% Bloomberg Commodity Index TR USD / 18% BBgBarc US Govt/Credit 1-3 Yr. TR                       |
| 10/1/2019       | 10/31/2019  | 13% MSCI USA IMI NR USD / 7% MSCI World ex USA IMI NR USD / 10% MSCI Emerging Market IMI Net / 15% Russell 3000 / 4% BBgBarc US Aggregate TR / 8% FTSE EPRA/NAREIT Global NR USD / 3% S&P Global Natural Resources Net USD / 5% 50% JPM EMBI GD / 50% JPM GBI-EM / 5% ICE BofAML 91 Days T-Bills TR / 7% 3-Month Libor +1% / 2% BBgBarc US Treasury TIPS 0-5 Yr TR / 3% Bloomberg Commodity Index TR USD / 18% BBgBarc US Govt/Credit 1-3 Yr. TR                        |
| 10/1/2018       | 9/30/2019   | 13% MSCI USA IMI NR USD / 10% MSCI World ex USA IMI NR USD / 13% MSCI Emerging Market IMI Net / 12% Russell 3000 / 4% BBgBarc US Aggregate TR / 8% FTSE EPRA/NAREIT Global NR USD / 3% S&P Global Natural Resources Net USD / 3% 50% JPM EMBI GD / 50% JPM GBI-EM / 5% ICE BofAML 91 Days T-Bills TR / 5% 3-Month Libor +1% / 2% BBgBarc US Treasury TIPS 0-5 Yr TR / 2% Bloomberg Commodity Index TR USD / 3% FTSE WGBI ex US TR/17% BBgBarc US Govt/Credit 1-3 Yr. TR |



Total Fund | As of June 30, 2020

| Growth      |                 |                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/1/2020    | Present         | 65.33% Public Equity Benchmark / 28% Private Markets Benchmark / 6.67% 50% JPM EMBI GD / 50% JPM GBI-EM / 4.08% BBgBarc US Corporate High Yield TR                                                                                                                                                                                                              |
| 11/1/2019   | 3/31/2020       | 57.38% Public Equity Benchmark / 37.7% Private Markets Benchmark / 4.92% 50% JPM EMBI GD / 50% JPM GBI-EM                                                                                                                                                                                                                                                       |
| 10/1/2019   | 10/31/2019      | 50% Public Equity Benchmark / 41.67% Private Markets Benchmark / 8.33% 50% JPM EMBI GD / 50% JPM GBI-EM                                                                                                                                                                                                                                                         |
| 10/1/2018   | 9/30/2019       | 51.73% Public Equity Benchmark / 43.1% Private Markets Benchmark / 5.17% 50% JPM EMBI GD / 50% JPM GBI-EM                                                                                                                                                                                                                                                       |
| 11/1/2017   | 9/30/2018       | 51.29% MSCI ACWI IMI Net USD / 16.48% Cambridge PE Composite BM / 10.99% S&P Global Leveraged Loan Index +2% / 7.33% NCREIF Property Index / 60.4% 50% JPM EMBI GD (US)/ 50% JPM GBIEM GD (Lcl) / 60.4% 50% BAML Global HY / 50% S&P Global Leveraged Loan / 1.83% DJ Brookfield Global Infrastructure Net TR USD                                               |
| 7/1/2015    | 10/31/2017      | 47.23% MSCI ACWI IMI Net USD / 15.18% Cambridge PE Composite BM / 8.43% S&P Global Leveraged Loan Index +2% / 8.43% DJ Brookfield Global Infrastructure Net TR USD / 8.43% S&P Global Natural Resources Index TR USD / 5.9% NCREIF Property Index / 3.2% 50% JPM EMBI GD (US)/ 50% JPM GBIEM GD (Lcl) / 3.2% 50% BAML Global HY / 50% S&P Global Leveraged Loan |
| Public Equi | ty              |                                                                                                                                                                                                                                                                                                                                                                 |
| 4/1/2020    | Present         | 51.02% MSCI USA IMI NR USD / 24.49% MSCI World ex USA IMI NR USD / 24.49% MSCI Emerging Market IMI Net                                                                                                                                                                                                                                                          |
| 11/1/2019   | 3/31/2020       | 37.14% MSCI USA IMI NR USD / 28.57% MSCI World ex USA IMI NR USD / 34.29% MSCI Emerging Market IMI Net                                                                                                                                                                                                                                                          |
| 10/1/2018   | 10/31/2019      | 43.33% MSCI USA IMI NR USD / 23.33% MSCI World ex USA IMI NR USD / 33.33% MSCI Emerging Market IMI Net                                                                                                                                                                                                                                                          |
| 5/1/2010    | 9/30/2018       | MSCI ACWI IMI Net USD                                                                                                                                                                                                                                                                                                                                           |
| Global Eq   | juity           |                                                                                                                                                                                                                                                                                                                                                                 |
| 7/1/2015    | Present         | MSCI ACWI IMI Index                                                                                                                                                                                                                                                                                                                                             |
| US Equity   | /               |                                                                                                                                                                                                                                                                                                                                                                 |
| 7/1/2015    | Present         | MSCI USA IMI GR USD                                                                                                                                                                                                                                                                                                                                             |
| Internatio  | onal Equity     |                                                                                                                                                                                                                                                                                                                                                                 |
| 7/1/2015    | Present         | MSCI World ex USA IMI NR USD                                                                                                                                                                                                                                                                                                                                    |
| Emerging    | g Markets Equit | у                                                                                                                                                                                                                                                                                                                                                               |
| 7/1/2015    | Present         | MSCI Emerging Market IMI Net                                                                                                                                                                                                                                                                                                                                    |



Total Fund | As of June 30, 2020

| Marketab     | le Alternative I | Equity                                                                                                                  |
|--------------|------------------|-------------------------------------------------------------------------------------------------------------------------|
| 10/1/2014    | Present          | HFRI Equity Hedge (Total) Index                                                                                         |
| Private Mar  | kets             |                                                                                                                         |
| 7/1/2015     | Present          | Private Markets                                                                                                         |
| Private M    | arkets ex Russ   | sell 3000                                                                                                               |
|              |                  | No Benchmark Selected                                                                                                   |
| Private      | Equity           |                                                                                                                         |
| 1/1/2006     | Present          | San Jose Custom Private Equity Benchmark                                                                                |
| Priva        | te Equity ex Rı  | ussell 3000                                                                                                             |
| 7/1/2018     | Present          | Cambridge Associates Global Private Equity Index                                                                        |
| North        | nern Trust Rus   | sell 3000                                                                                                               |
| 6/1/2018     | Present          | Russell 3000                                                                                                            |
| Private      | Debt             |                                                                                                                         |
| 12/1/2010    | Present          | S&P Global Leveraged Loan Index +2%                                                                                     |
| Growth       | Real Estate      |                                                                                                                         |
| 7/1/2015     | Present          | NCREIF Property Index                                                                                                   |
| Private      | Real Assets      |                                                                                                                         |
|              |                  | No Benchmark Selected                                                                                                   |
| Emerging M   | Markets Debt     |                                                                                                                         |
| 7/1/2015     | Present          | 50% JP Morgan GBI EM Global Diversified TR USD / 50% JP Morgan EMBI Global Diversified                                  |
| High Yield E | Bonds            |                                                                                                                         |
| 6/1/2020     | Present          | BBgBarc US Corporate High Yield TR                                                                                      |
| Low Beta     |                  |                                                                                                                         |
| 4/1/2020     | Present          | 62.5% Immunized Cash Flows Benchmark / 37.5% Market Neutral Strategies Benchmark                                        |
| 12/1/2019    | 3/31/2020        | 55.56% ICE BofA 91 Days T-Bills TR / 25.93% Immunized Cash Flows Benchmark / 18.52% Market Neutral Strategies Benchmark |
| 10/1/2019    | 11/30/2019       | 60% ICE BofA 91 Days T-Bills TR / 23.33% Immunized Cash Flows Benchmark / 6.67% Market Neutral Strategies Benchmark     |
| 10/1/2018    | 9/30/2019        | 62.5% ICE BofA 91 Days T-Bills TR / 15.62% Immunized Cash Flows Benchmark / 21.88% Market Neutral Strategies Benchmark  |
|              |                  |                                                                                                                         |



Total Fund | As of June 30, 2020

| 7/1/2015   | 9/30/2018       | HFRI Macro (Total) Index                                                                                                                                     |
|------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Short-Term | IG Bonds        |                                                                                                                                                              |
| 10/1/2018  | Present         | 91 Day T-Bills                                                                                                                                               |
| Immunized  | Cash Flows      |                                                                                                                                                              |
| 10/1/2018  | Present         | Immunized Cash Flows                                                                                                                                         |
| Market Neu | tral Strategies |                                                                                                                                                              |
| 10/1/2018  | Present         | 3-Month Libor Total Return USD                                                                                                                               |
| 11/1/2012  | 9/30/2018       | HFRI Macro (Total) Index                                                                                                                                     |
| Macro      |                 |                                                                                                                                                              |
| 10/1/2014  | Present         | HFRI Macro (Total) Index                                                                                                                                     |
| Relative \ | 'alue           |                                                                                                                                                              |
| 10/1/2014  | Present         | HFRI Relative Value (Total) Index                                                                                                                            |
| Cash       |                 |                                                                                                                                                              |
| 1/1/2006   | Present         | ICE BofA 91 Days T-Bills TR                                                                                                                                  |
| Other      |                 |                                                                                                                                                              |
| 4/1/2020   | Present         | 29.41% NCREIF-ODCE / 11.76% BBgBarc US Govt Long TR / 11.77% BBgBarc U.S. TIPS 0-5 Years / 47.06% Custom IG Bonds Benchmark                                  |
| 12/1/2019  | 3/31/2020       | 41.67% NCREIF-ODCE / 16.67% Bloomberg Commodity Index TR USD / 16.67% BBgBarc U.S. TIPS 0-5 Years / 25% BBgBarc Global Aggregate TR                          |
| 11/1/2019  | 11/30/2019      | 55.55% NCREIF-ODCE / 22.22% Bloomberg Commodity Index TR USD / 22.22% BBgBarc U.S. TIPS 0-5 Years                                                            |
| 10/1/2018  | 10/31/2019      | 50% NCREIF-ODCE / 30% Bloomberg Commodity Index TR USD / 20% BBgBarc U.S. TIPS 0-5 Years                                                                     |
| 11/1/2017  | 9/30/2018       | 76.74% BBgBarc Global Aggregate TR / 11.63% NCREIF Property Index / 11.63% Bloomberg Commodity Index TR USD                                                  |
| 7/1/2015   | 10/31/2017      | 51.18% BBgBarc Global Aggregate TR / 11.78% NCREIF Property Index / 20.2% Bloomberg Commodity Index TR USD / 16.84% 60/40 MSCI ACWI/BBgBarc Global Aggregate |
| Investment | Grade Bonds     |                                                                                                                                                              |
| 12/1/2019  | Present         | Custom IG Bonds Benchmark                                                                                                                                    |
| TIPS       |                 |                                                                                                                                                              |
| 3/1/2017   | Present         | 100% BBgBarc US Treasury TIPS 0-5 Yr TR                                                                                                                      |



Total Fund | As of June 30, 2020

| Core Private | Real Estate |                                  |
|--------------|-------------|----------------------------------|
| 7/1/2004     | Present     | NCREIF ODCE Equal Weighted (Net) |
| Commodities  |             |                                  |
| 5/1/2010     | Present     | Bloomberg Commodity Index TR USD |
| Long Term G  | overnment B | Bonds                            |
| 5/1/2020     | Present     | BBgBarc US Govt Long TR          |
| Core Bonds   |             |                                  |
| 7/1/2015     | Present     | BBgBarc Global Aggregate TR      |
| Overlay      |             |                                  |
| 11/1/2011    | Present     | 91 Day T-Bills                   |
|              |             |                                  |



Credit Risk: Refers to the risk that the issuer of a fixed income security may default (i.e., the issuer will be unable to make timely principal and/or interest payments on the security.)

**Duration:** Measure of the sensitivity of the price of a bond to a change in its yield to maturity. Duration summarizes, in a single number, the characteristics that cause bond prices to change in response to a change in interest rates. For example, the price of a bond with a duration of three years will rise by approximately 3% for each 1% decrease in its yield to maturity. Conversely, the price will decrease 3% for each 1% increase in the bond's yield. Price changes for two different bonds can be compared using duration. A bond with a duration of six years will exhibit twice the percentage price change of a bond with a three-year duration. The actual calculation of a bond's duration is somewhat complicated, but the idea behind the calculation is straightforward. The first step is to measure the time interval until receipt for each cash flow (coupon and principal payments) from a bond. The second step is to compute a weighted average of these time intervals. Each time interval is measured by the present value of that cash flow. This weighted average is the duration of the bond measured in years.

**Information Ratio:** This statistic is a measure of the consistency of a portfolio's performance relative to a benchmark. It is calculated by subtracting the benchmark return from the portfolio return (excess return), and dividing the resulting excess return by the standard deviation (volatility) of this excess return. A positive information ratio indicates outperformance versus the benchmark, and the higher the information ratio, the more consistent the outperformance.

Jensen's Alpha: A measure of the average return of a portfolio or investment in excess of what is predicted by its beta or "market" risk. Portfolio Return- [Risk Free Rate+Beta\*(market return-Risk Free Rate)].

Market Capitalization: For a firm, market capitalization is the total market value of outstanding common stock. For a portfolio, market capitalization is the sum of the capitalization of each company weighted by the ratio of holdings in that company to total portfolio holdings; thus it is a weighted-average capitalization. Meketa Investment Group considers the largest 65% of the broad domestic equity market as large capitalization, the next 25% of the market as medium capitalization, and the smallest 10% of stocks as small capitalization.

**Market Weighted:** Stocks in many indices are weighted based on the total market capitalization of the issue. Thus, the individual returns of higher market-capitalization issues will more heavily influence an index's return than the returns of the smaller market-capitalization issues in the index.

Maturity: The date on which a loan, bond, mortgage, or other debt/security becomes due and is to be paid off.

**Prepayment Risk:** The risk that prepayments will increase (homeowners will prepay all or part of their mortgage) when mortgage interest rates decline; hence, investors' monies will be returned to them in a lower interest rate environment. Also, the risk that prepayments will slow down when mortgage interest rates rise; hence, investors will not have as much money as previously anticipated in a higher interest rate environment. A prepayment is any payment in excess of the scheduled mortgage payment.

**Price-Book Value (P/B) Ratio:** The current market price of a stock divided by its book value per share. Meketa Investment Group calculates P/B as the current price divided by Compustat's quarterly common equity. Common equity includes common stock, capital surplus, retained earnings, and treasury stock adjusted for both common and nonredeemable preferred stock. Similar to high P/E stocks, stocks with high P/B's tend to be riskier investments.



Price-Earnings (P/E) Ratio: A stock's market price divided by its current or estimated future earnings. Lower P/E ratios often characterize stocks in low growth or mature industries, stocks in groups that have fallen out of favor, or stocks of established blue chip companies with long records of stable earnings and regular dividends. Sometimes a company that has good fundamentals may be viewed unfavorably by the market if it is an industry that is temporarily out of favor. Or a business may have experienced financial problems causing investors to be skeptical about is future. Either of these situations would result in lower relative P/E ratios. Some stocks exhibit above-average sales and earnings growth or expectations for above average growth. Consequently, investors are willing to pay more for these companies' earnings, which results in elevated P/E ratios. In other words, investors will pay more for shares of companies whose profits, in their opinion, are expected to increase faster than average. Because future events are in no way assured, high P/E stocks tend to be riskier and more volatile investments. Meketa Investment Group calculates P/E as the current price divided by the I/B/E/S consensus of twelve-month forecast earnings per share.

Quality Rating: The rank assigned a security by such rating services as Fitch, Moody's, and Standard & Poor's. The rating may be determined by such factors as (1) the likelihood of fulfillment of dividend, income, and principal payment of obligations; (2) the nature and provisions of the issue; and (3) the security's relative position in the event of liquidation of the company. Bonds assigned the top four grades (AAA, AA, A, BBB) are considered investment grade because they are eligible bank investments as determined by the controller of the currency.

Sharpe Ratio: A commonly used measure of risk-adjusted return. It is calculated by subtracting the risk free return (usually three-month Treasury bill) from the portfolio return and dividing the resulting excess return by the portfolio's total risk level (standard deviation). The result is a measure of return per unit of total risk taken. The higher the Sharpe ratio, the better the fund's historical risk adjusted performance.

**STIF Account**: Short-term investment fund at a custodian bank that invests in cash-equivalent instruments. It is generally used to safely invest the excess cash held by portfolio managers.

**Standard Deviation:** A measure of the total risk of an asset or a portfolio. Standard deviation measures the dispersion of a set of numbers around a central point (e.g., the average return). If the standard deviation is small, the distribution is concentrated within a narrow range of values. For a normal distribution, about two thirds of the observations will fall within one standard deviation of the mean, and 95% of the observations will fall within two standard deviations of the mean.

**Style:** The description of the type of approach and strategy utilized by an investment manager to manage funds. For example, the style for equities is determined by portfolio characteristics such as price-to-book value, price-to-earnings ratio, and dividend yield. Equity styles include growth, value, and core.

Tracking Error: A divergence between the price behavior of a position or a portfolio and the price behavior of a benchmark, as defined by the difference in standard deviation.



Yield to Maturity: The yield, or return, provided by a bond to its maturity date; determined by a mathematical process, usually requiring the use of a "basis book." For example, a 5% bond pays \$5 a year interest on each \$100 par value. To figure its current yield, divide \$5 by \$95—the market price of the bond—and you get 5.26%. Assume that the same bond is due to mature in five years. On the maturity date, the issuer is pledged to pay \$100 for the bond that can be bought now for \$95. In other words, the bond is selling at a discount of 5% below par value. To figure yield to maturity, a simple and approximate method is to divide 5% by the five years to maturity, which equals 1% pro rata yearly. Add that 1% to the 5.26% current yield, and the yield to maturity is roughly 6.26%.

Yield to Worst: The lowest potential yield that can be received on a bond without the issuer actually defaulting. The yield to worst is calculated by making worst-case scenario assumptions on the issue by calculating the returns that would be received if provisions, including prepayment, call, or sinking fund, are used by the issuer.

**NCREIF Property Index (NPI)**: Measures unleveraged investment performance of a very large pool of individual commercial real estate properties acquired in the private market by tax-exempt institutional investors for investment purposes only. The NPI index is capitalization-weighted for a quarterly time series composite total rate of return.

NCREIF Fund Index - Open End Diversified Core Equity (NFI-ODCE): Measures the investment performance of 28 open-end commingled funds pursuing a core investment strategy that reflects funds' leverage and cash positions. The NFI-ODCE index is equal-weighted and is reported gross and net of fees for a quarterly time series composite total rate of return.

Sources: Investment Terminology, International Foundation of Employee Benefit Plans, 1999.

The Handbook of Fixed Income Securities, Fabozzi, Frank J., 1991

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Throughout this report, numbers may not sum due to rounding.

Returns for periods greater than one year are annualized throughout this report.

Values shown are in millions of dollars, unless noted otherwise.