

Hedge Fund Portfolio Review for 2014 and Since Inception

Los Angeles • New York

Prepared for the Rhode Island State Investment Commission

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Role of Hedge Fund Allocation 2014 Performance Review Since Inception Performance Review Appendix: January 2015 Performance

Equity Hedge Fund Allocation

Description of Strategy

Managers investing primarily in equities making active security selection on long and short positions.

Sub-strategies:

- Equity long/short investing in equities
- Event Driven investing primarily in equities but also debt while anticipating a particular change or event to occur with a company (e.g. acquisition)

Role in the Total Fund

The equity hedge fund portfolio's role is to increase the Sharpe ratio of the total fund's equity exposure by:

- Over the long term, producing equity returns by combining some equity exposure and significant alpha generation
- Over the short/medium term, reduce the volatility of the equity portfolio by hedging the exposure

Real Return Hedge Fund Allocation

Description of Strategy

Managers generally investing in non-equity asset classes or investing with a low net exposure (i.e. low equity beta). Exposures include both long and short positions on interest rates, credit, currency, commodities, and to a limited degree equities.

Sub-strategies:

- Credit

 investing in corporate credit instruments taking both long and short positions
- Relative Value

 investing in fixed income, on a long and short basis, seeking price discrepancies of instruments with similar fixed income risk
- Macro investing across asset classes, on a long and short basis, based on fundamental or quantitative judgments
- Multi-strategy- investing across hedge fund strategies

Role in the Total Fund

The real return hedge fund portfolio's role is to increase the Sharpe ratio of the total fund and to provide an expected return with low volatility by:

- Over the long term, produce a significant return premium over the risk free rate (e.g. T-bills)
- Over the short/medium term, maintain a low beta or exposure to equity markets
- Over the long term, produce a level of volatility comparable to fixed income



Performance Update

All returns are net-of-fees and annualized, as are risk measures

Three hedge fund composites are evaluated:

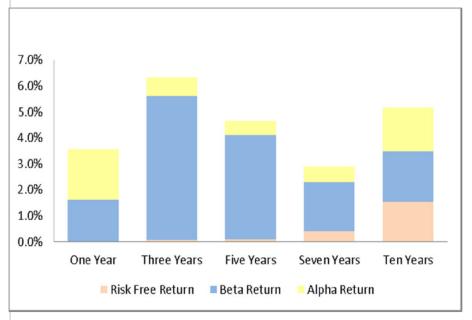
- Real Return Hedge Funds:
 - \$540 million invested in 9 hedge funds
 - Target 7% of total assets, within the 17% overall real return allocation
 - Benchmarks T-bills+4%; HFRI Fund-of-Funds Index
- Equity Hedge Funds:
 - \$602 million invested in 9 hedge funds
 - Target 8% of total assets, within the 60% overall global equity allocation
 - Benchmarks MSCI ACWI Index; HFRI Equity Hedged Index
- Combined Hedge Funds:
 - Combines the Real Return and Equity Hedge Funds into one composite

Hedge Fund Portfolio Return and Risk: Inception through Jan 31, 2015

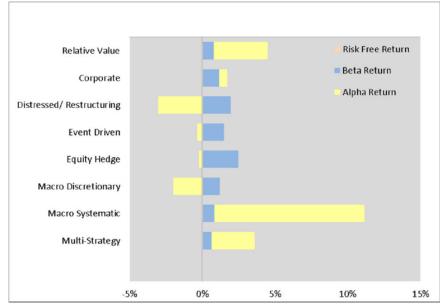
| | | ERSRI | | | | | | |
|---------------------|--------|--------|----------|--------------|--------------|--------|--------|----------|
| | ERSRI | Real | | | | | | |
| | Equity | Return | Combined | | | | | |
| | Hedge | Hedge | ERSRI | HFRI Fund of | HFRI Equity | | | |
| | Funds | Funds | Hedge | Funds Index | Hedged Index | ACWI | T-bill | Barc Agg |
| Total Return | 8.04% | 5.68% | 6.97% | 4.82% | 5.93% | 11.29% | 0.07% | 3.43% |
| Total Risk | 3.97% | 2.56% | 3.05% | 3.20% | 5.86% | 10.59% | 0.02% | 2.81% |

2014 Hedge Fund Market Environment

Sources of Return for HFRI Fund Weighted Index For Periods Ending December 2014

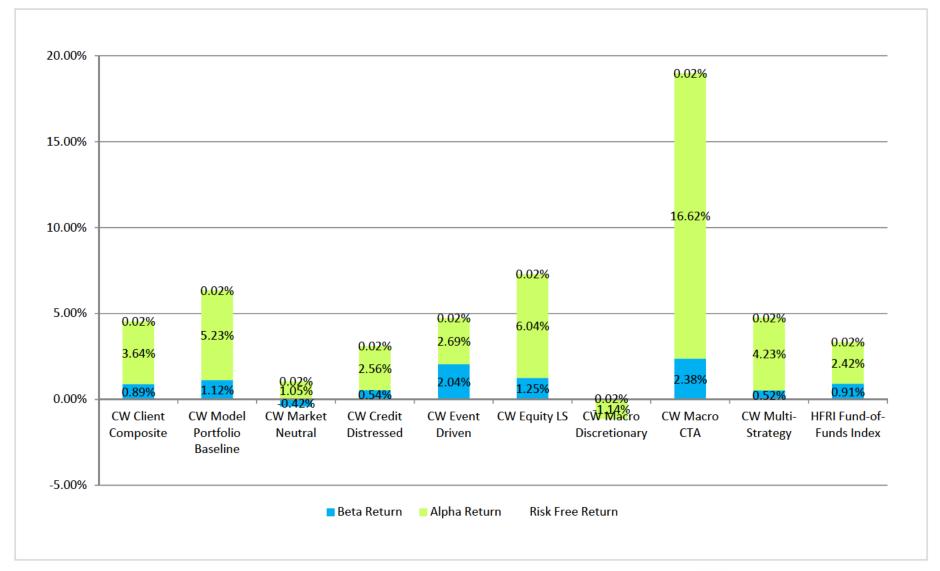


Strategy Returns for HFRI Fund Weighted Index Year Ending December 2014



- In 2014, alpha returns improved to long term average with lower correlations across assets and securities
- Relative Value and Macro Systematic were the best performers due to increased volatility
- · Macro Discretionary negatively impacted by short bond trades
- Event Driven negatively impacted by break up of tax inversion mergers

Cliffwater 2014 Hedge Fund Returns: Selection Matters



Cliffwater 2015 Long Term Forecast of Hedge Funds Returns and Risk

Hedge Fund Forecast

| Expected Sources of I | Hedge Fund | d Return a | and Risk | Jan 1, | , 2015 | | | | | | |
|-----------------------|------------|------------|----------|--------|--------|-------|--------|-------|-------|----------|----------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | | | В | eta | | | Alpha | | Libor+Be | ta+Alpha |
| | Model | | Equity | Credit | Beta | Beta | Alpha | Alpha | Info | Total | Total |
| Strategy | Weights | Libor | Beta* | Beta** | Return | Risk | Return | Risk | Ratio | Return | Risk |
| Market Neutral | 5% | 1.50% | 0.00 | 0.00 | 0.00% | 0.00% | 2.50% | 4.33% | 0.58 | 4.00% | 4.33% |
| Credit/Distressed | 20% | 1.50% | 0.00 | 0.35 | 1.54% | 2.80% | 4.20% | 6.26% | 0.67 | 7.24% | 6.86% |
| Event Driven | 20% | 1.50% | 0.20 | 0.15 | 1.77% | 5.00% | 4.80% | 7.16% | 0.67 | 8.07% | 8.73% |
| Equity Long/Short | 25% | 1.50% | 0.40 | 0.10 | 2.66% | 9.15% | 3.40% | 6.58% | 0.52 | 7.56% | 11.27% |
| Macro-Discretionary | 15% | 1.50% | 0.10 | 0.00 | 0.56% | 2.20% | 3.60% | 4.90% | 0.73 | 5.66% | 5.37% |
| Macro-Systematic | 5% | 1.50% | -0.10 | 0.00 | -0.56% | 2.20% | 3.00% | 9.35% | 0.32 | 3.95% | 9.61% |
| Multistrategy | 10% | 1.50% | 0.15 | 0.20 | 1.71% | 4.20% | 3.12% | 4.79% | 0.65 | 6.33% | 6.38% |
| Hedge Fund Portfolio | 100% | 1.50% | 0.17 | 0.22 | 1.55% | 4.62% | 3.78% | 4.62% | 0.82 | 6.83% | 6.56% |

Hedge fund expected return equals 6.83% for a diversified portfolio of approximately 20 hedge funds.

Hedge Fund Actual over Last 5 Years (Cliffwater Model Portfolio)

Cliffwater Hedge Fund Model Performance Attribution: 5 Years ending Sept 30, 2014*

Actual hedge fund performance for Cliffwater's model portfolio equals 8.85% over the last 5 years with a 1.07 information ratio.

| commutation reader and model renormance reconstructions of reads chainly sept 50, 2014 | | | | | | | | | | | | |
|--|---------|-------|--------|--------|--------|-------|--------|--------|-------|----------|----------|--|
| | 1 | 2 | 3 | | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| | | | | Ве | eta* | | | Alpha | | Libor+Be | ta+Alpha | |
| | Model | | Equity | Credit | Beta | Beta | Alpha | Alpha | Info | Total | Total | |
| Strategy | Weights | Libor | Beta* | Beta** | Return | Risk | Return | Risk | Ratio | Return | Risk | |
| Market Neutral | 5% | 0.32% | -0.12 | 0.14 | -0.31% | 1.48% | 2.42% | 1.66% | 1.45 | 2.34% | 2.22% | |
| Credit/Distressed | 15% | 0.32% | 0.03 | 0.65 | 4.29% | 2.75% | 3.84% | 2.24% | 1.71 | 8.68% | 3.54% | |
| Event Driven | 21% | 0.32% | 0.29 | 0.52 | 6.04% | 5.73% | 2.91% | 3.31% | 0.88 | 9.59% | 6.61% | |
| Equity Long/Short | 29% | 0.32% | 0.36 | 0.35 | 5.66% | 6.21% | 0.29% | 2.86% | 0.10 | 6.42% | 6.83% | |
| Macro-Discretionary | 11% | 0.32% | 0.12 | -0.08 | 0.70% | 1.64% | 3.72% | 3.84% | 0.97 | 4.86% | 4.17% | |
| Macro-Systematic | 5% | 0.32% | 0.22 | -0.58 | -1.45% | 2.42% | 4.71% | 10.07% | 0.47 | 3.30% | 10.35% | |
| Multistrategy | 15% | 0.32% | 0.11 | 0.41 | 3.63% | 2.91% | 2.62% | 1.92% | 1.36 | 6.74% | 3.48% | |
| CW Model Portfolio | 100% | 0.32% | 0.20 | 0.34 | 4.05% | 3.91% | 2.28% | 2.14% | 1.07 | 6.86% | 4.45% | |

^{*} MSCI World Equity Index

^{**} S&P/LSTA Leveraged Loan Index

2014 Performance: Global Equity Portfolio

Global Equity Portfolio Performance for 2014

| | 31-D | ec-14 | 2014 | |
|--|--------------|------------------|---------|----------------------|
| Fund | Market Value | Portfolio Weight | Return | |
| Viking Global Equities, LP | 94,488,426 | 14% | 13.69% | |
| Samlyn Onshore Fund, L.P. | 107,870,659 | 16% | 9.60% | |
| Elliott Associates, L.P. | 82,231,075 | 12% | 8.54% | |
| Ascend Partners Fund II LP | 71,686,873 | 11% | 5.00% | |
| Davidson Kempner Institutional Partners | 74,292,184 | 11% | 4.44% | |
| PFM Diversified Fund, L.P. | 38,506,138 | 6% | 2.86% | |
| PFM Diversified Offshore Fund A.I., Ltd. | 38,213,382 | 6% | 2.73% | |
| Total Global Equities | 658,752,833 | 100% | 2.60% | |
| HFRI Equity Hedge (Total) Index | | | 1.83% | |
| ESG Cross Border Equity Fund LP | 46,220,525 | 7% | -7.62% | * Partial Year (6/1) |
| Luxor Capital Partners, LP | 44,471,079 | 7% | -9.49% | * Partial Year (5/1) |
| Mason Capital Ltd. | 60,029,224 | 9% | -14.22% | |
| MSCI AC World Index Free - Net | | | 4.16% | |

Portfolio outperformed HFRI Equity Hedge Index (2.60% v. 1.83%)

Good alpha generation from equity long/short funds (Viking, Samlyn, Ascend, PFM)

Diversified Event Driven managers (Elliott and Davidson Kempner) outperformed

Underperformance by more concentrated Event Driven managers (Mason and Luxor)

ESG (partial year) underperformed with security selection

2014 Performance: Real Return Portfolio

Real Return Portfolio Performance for 2014

| | 31-D | ec-14 | 2014 |
|--|--------------|------------------|--------|
| Fund | Market Value | Portfolio Weight | Return |
| DE Shaw Composite Fund LLC | 77,906,862 | 14.6% | 16.31% |
| Winton Futures Fund Limited | 36,520,034 | 6.8% | 13.87% |
| Capula Global Relative Value Fund Ltd. | 58,294,823 | 10.9% | 8.12% |
| OZ Domestic Partners II, L.P. | 102,531,939 | 19.2% | 5.86% |
| Total Real Return | 533,165,614 | 100.0% | 4.31% |
| HFRI Fund of Funds Composite Index | | | 3.38% |
| Graham Global Investment Fund I SPC Ltd | 55,516,516 | 10.4% | 3.18% |
| Brigade Leveraged Capital Structures Fun | 55,864,831 | 10.5% | 0.62% |
| BlueCrest Capital LP | 20,861,264 | 3.9% | 0.14% |
| Brevan Howard LP | 79,922,304 | 15.0% | -0.82% |
| Claren Road Credit Fund, Ltd. | 45,747,040 | 8.6% | -9.57% |
| ML 3-month T-Bills | | | 0.04% |

Portfolio outperformed HFRI Fund of Funds Index (4.31% v. 3.38%)

Good alpha generation from diversified multi-strategy funds (DE Shaw and OZ Domestic Partners)

Volatility focused strategies (Systematic-Winton Futures and Market Neutral- Capula) performed well with rising volatility

Macro Discretionary managers (BlueCrest and Brevan) underperformed with portfolios positioned for rising US interest rates

Credit managers (Brigade and Claren Road) underperformed with lower quality credits underperforming higher quality credits

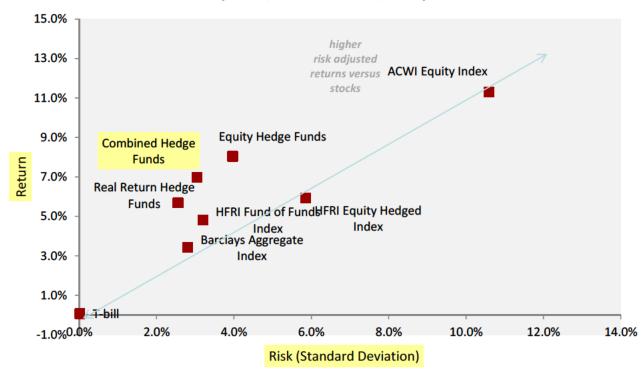
Claren Road was negatively impacted by GSE positions (FNMA and FMAC)

Rhode Island Hedge Fund Total Return & Risk Since Inception

Rhode Island hedge fund portfolios outperformed HFRI FOF Index over the 39 month period from inception (6.97% versus 4.82%, respectively) and had significantly better risk-adjusted returns

Both the RI Equity hedge funds (8.04% return) and the Real Return hedge funds (5.93% return) earned returns above their respective benchmarks (HFRI Equity Hedged Index and HFRI Fund of Funds Index, respectively) and at a lower level of risk.

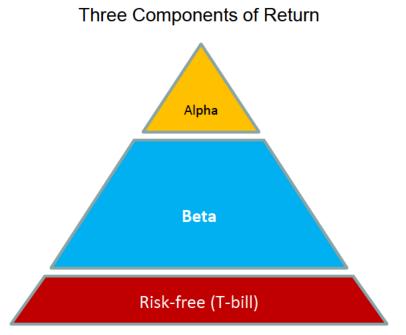
Return and Risk (Standard Deviation) (Nov 1, 2011 to Jan 31, 2015)



Understanding Performance

All assets have three return components:

- Risk-free return: all assets are priced to earn at least the risk free return (T-bill)
- Beta return: markets themselves generate investor returns to reward risk taking. These returns can be accessed at little to no fee through index funds and **ETFs**
- Alpha return: active managers try to produce excess return but often competition and fees get in their way



Rhode Island Hedge Fund Return Attribution into Alpha, Beta, and Risk Free

Rhode Island hedge funds combined earned alpha equal to 4.73%, which exceeds Cliffwater's expected combined alpha of 3.75%

The equity beta for the **Equity Hedge Fund** portfolio equaled 0.26 over the period, well below the 0.52 average beta for equity hedge funds. The Real Return Hedge Fund portfolio had a beta of 0.08 over this period.

Both the Equity and Real Return portfolios produced strong alpha of 4.53% and 4.78%, respectively.

Annualized Returns: Nov 2011 to Jan 2015



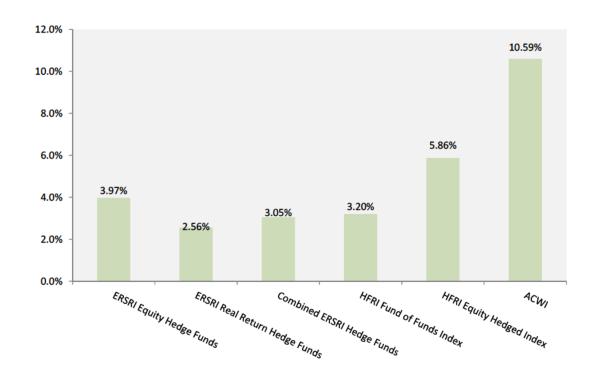
Rhode Island Hedge Fund Risk

Rhode Island hedge funds combined have generated an annualized risk (standard deviation) 3.05% since inception versus 3.20% for the HFRI Fund of Funds Index

The Equity Hedge Fund portfolio's risk has been 3.97% versus 5.86% for the HFRI Equity Hedge Index and 10.59% for ACWI.

The Real Return portfolio's risk has been 2.56%.

Annualized Standard Deviation: Nov 2011 to Jan 2015



Hedge Fund Portfolio Performance as of January 31, 2015

| | | | | | | Retu | urns | | | | | Sharpe | Incep |
|--|---------------|----------|--------|--------|--------|---------|---------|--------|--------|---------|---------|--------|--------|
| Fund | Market Value | Actual % | Jan | QID | YTD | FYTD | 1 Year | 3 Year | 5 Year | Incep | Std Dev | Ratio | Date |
| Global Equities | | | | | | | | | | | | | |
| Ascend Partners Fund II LP | 71,865,865 | 6.3% | 0.24% | 0.24% | 0.24% | 2.14% | 5.18% | - | - | 5.71% | 2.63% | 2.01 | Nov-1 |
| Davidson Kempner Institutional Partners, L.P. | 74,301,075 | 6.5% | -0.05% | -0.05% | -0.05% | -135% | 4.00% | - | - | 6.80% | 2.21% | 2.86 | Nov-1 |
| Elliott Associates, LP. | 81,408,764 | 7.1% | -1.00% | -100% | -1.00% | 2.50% | 5 55% | - | - | 9.84% | 3.55% | 258 | Nov-1 |
| ESG Cross Border Equity Fund LP | 45,644,458 | 4.0% | -1.30% | - | - | - | - | - | - | -8.65% | - | - | Jun-14 |
| Indus Asia Pacific Fund, LP | 755,671 | 0.1% | 1.67% | 167% | 1.67% | -11.37% | -11.54% | - | - | -1.49% | 7.02% | -0.22 | Jan-12 |
| Luxor Capital Partners, LP | 42,437,631 | 3.7% | -4.62% | - | - | - | - | - | - | -15.12% | - | - | May-1 |
| Mason Capital Ltd. | 3,001,818 | 0.3% | 0.00% | 0.00% | 0.00% | -13.27% | -12.39% | - | - | 0.02% | 7.84% | 0.00 | Jan-12 |
| PFM Diversified Fund, L.P. | 38,898,375 | 3.4% | 100% | 1.00% | 100% | 4.07% | 132% | - | - | 9.31% | 9.25% | 0.98 | Mar-1 |
| PFM Diversified Offshore Fund A.I., Ltd. | 38,610,549 | 3.4% | 103% | 1.03% | 1.03% | 4.06% | 1.11% | - | - | 9.04% | 9.20% | 0.96 | Mar-1 |
| Santlyn Onshore Fund, L.P. | 109,574,156 | 9.6% | 1.58% | 1.58% | 1.58% | 7.92% | 11.52% | - | - | 12.94% | 5.65% | 2.14 | Jan-12 |
| Viking Global Equities, LP | 95,592,044 | 8.4% | 1.20% | 1.20% | 1.20% | 8.01% | 13.97% | - | - | 15.84% | 5.59% | 2.62 | Dec-1 |
| Total Global Equities | 602,090,406 | 52.7% | 0.05% | 0.05% | 0.05% | 0.04% | 2.66% | - | - | 8.04% | 3.97% | 1.89 | Nov-1 |
| MSCI AC World Index Free - Net | | | -1.56% | -156% | -156% | -3.44% | 6.80% | - | - | 11.29% | 10.59% | 1.04 | Nov-1 |
| Russell 3000 Index (DRI) | | | -2.78% | -2.78% | -2.78% | 2 32% | 12.99% | - | - | 17.97% | 9.42% | 178 | Nov-1 |
| HFRI Equity Hedge (Total) Index | | | -0.62% | -0.62% | -0.62% | -199% | 2.19% | - | - | 5.93% | 5.86% | 0.96 | Nov-1 |
| Real Return | | | | | | | | | | | | | |
| BlueCrest Capital LP | 19,602,208 | 1.7% | -5.99% | -5.99% | -5.99% | -657% | -6 54% | - | - | -0.65% | 4.18% | -0.21 | Jan-12 |
| Brevan Howard LP | 82,606,033 | 7.2% | 3.32% | 3.32% | 3 32% | 7.22% | 3.91% | - | - | 3.02% | 5.39% | 0.52 | Nov-1 |
| Brigade Leveraged Capital Structures Fund LP | 56,078,483 | 4.9% | 0.39% | 0.39% | 0.39% | -3.98% | 1.15% | - | - | 4.01% | 3.22% | 1.15 | Mar-1 |
| Capula Global Relative Value Fund Ltd. | 59,430,063 | 5.2% | 1.91% | 1.91% | 1.91% | 6.52% | 9.03% | - | - | 5.61% | 2.14% | 2.42 | Dec-1 |
| Claren Road Credit Fund, Ltd. | 45,979,170 | 4.0% | 0.66% | 0.66% | 0.66% | -11.35% | - | - | - | -8.04% | 8.23% | - | Apr-13 |
| DE Shaw Composite Fund LLC | 78,445,755 | 6.9% | 0.60% | 0.60% | 0.60% | 6.81% | 15.53% | - | - | 14.86% | 4.24% | 3.23 | Nov-1 |
| Graham Global Investment Fund I SPC Ltd Discretionary Segregated I | 56,609,748 | 5.0% | 1.98% | 1.98% | 1.98% | 9.03% | 5.94% | - | - | 4.11% | 4.15% | 0.92 | Jan-12 |
| OZ Domestic Partners II, L.P. | 103,396,985 | 9.1% | 0.80% | 0.80% | 0.80% | 4 53% | 6.95% | - | - | 10.38% | 3.65% | 2.65 | Nov-1 |
| Winton Futures Fund Limited | 37,415,643 | 3.3% | 2.45% | 2.45% | 2.45% | 15.21% | 19.50% | - | - | 7.22% | 8.24% | 0.85 | Dec-1 |
| Total Real Return | 539,564,089 | 47 3% | 1.19% | 1.19% | 1.19% | 3 59% | 5.48% | - | - | 5.68% | 2.56% | 2.05 | Nov-1 |
| ML 3-month T-Bills | , , , , , , | | 0.00% | 0.00% | 0.00% | 0.02% | 0.03% | - | - | 0.07% | 0.02% | - | Nov-1 |
| HFRI Fund of Funds Composite Index | | | 0.25% | 0.25% | 0.25% | 149% | 4.04% | - | - | 4.82% | 3.20% | 139 | Nov-1 |
| Total Hedge Fund Portfolio | 1,141,654,494 | 100.0% | 0.58% | 0.58% | 0.58% | 164% | 3.95% | - | - | 6.97% | 3.05% | 2.13 | Nov-1 |
| HFRI Fund of Funds Composite Index | | | 0.25% | 0.25% | 0.25% | 1.49% | 4.04% | - | - | 4.82% | 3.20% | 139 | Nov-1 |

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