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Robo-aDVISOR   
Monthly rEPORT

May 1st-May 31th, 2018

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# Account Overview

|  |  |
| --- | --- |
| Key Statistics | Portfolio |
| Beginning NAV (CAD) | 123,820 |
| Ending NAV (CAD) | 149,918 |
| Cumulative Period Return (2016/01 – 2018/05) | 21.07% |
| 1-year Return (2017/06 – 2018/05) | 8.44% |
| 3-Month Return (2013/03 – 2018/05) | 0.96% |
| 1-Month Return (2018/05) | 0.42% |
| Best Return (monthly) | 2.62% |
| Worst Return (monthly) | -1.48% |

## Portfolio Monthly Return

## Portfolio Net Asset Value

# Allocation

Allocation by Asset Class**:** Allocation by Region**:**

Allocation by Sector**:**

# Benchmark Comparison

|  |  |  |  |
| --- | --- | --- | --- |
| Portfolio | Return (annually) | Volatility (annually) | Sharpe-ratio (annually) |
| Mid-risk | 8.01% | 3.87% | **1.5514** |
| Benchmark | 5.48% | 4.02% | **0.8648** |

## Time Period Benchmark Comparison

## Cumulative Benchmark Comparison

# Risk Analysis

|  |  |
| --- | --- |
| Risk Analysis | Portfolio |
| Max Drawdown (1 year) | 3.44% |
| Annualized Sharpe Ratio | 1.5514 |
| Annualized Volatility | 0.0549 |
| Monthly 95% VaR | 0.0597 |
| Marginal VaR | 0.0113 |

**Portfolio Volatility**

**95% Value at Risk (VaR)**

# Scenario Analysis for Economic Factors

|  |  |  |  |
| --- | --- | --- | --- |
| U.S. Scenario | Baseline | Recession | Slower Growth |
| GDP (% change) | 2.5 | -0.5 | 3 |
| Unemployment Rate(%) | 4 | 6 | 3.8 |
| Inflation (% change) | 2.3 | 2 | 2.3 |
| Oil Price | 65.33 | 50.57 | 66.00 |
| IR Short | 2.09 | 1.98 | 2.17 |
| IR Long | 2.82 | 2.73 | 2.95 |
| Portfolio Return | 4.75% | 1.12% | 4.58% |

|  |  |  |  |
| --- | --- | --- | --- |
| Canada Scenario | Baseline | Recession | Slower Growth |
| GDP (% change) | 0.3 | -0.5 | 1.0 |
| Unemployment Rate(%) | 5.8 | 6 | 5.6 |
| Inflation (% change) | 0.4 | 0.38 | 0.5 |
| Oil Price | 65.33 | 50.57 | 66.00 |
| IR Short | 1.60 | 1.58 | 1.65 |
| IR Long | 2.26 | 2.19 | 2.30 |
| Portfolio Return | 5.36% | 5.92% | 5.3% |

# Stress Testing and Sensitivity Analysis

The return changes per economic factor is summarized below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | GDP (% change) | Unemployment Rate(%) | Inflation (% change) | Oil Price | IR Short | IR Long |
| Return changes | 0.000461 | 0.000681 | 0.002099 | 0.000100 | 0.001851 | -0.002361 |

# 

# Fee Summary

Note: Transaction Fee: $0.01 per share.

# Note

1.The Net Asset Value (NAV) consists of all positions by asset class (stock, bonds, commodity, cash, etc.). All non-base currency amounts are converted to the base currency at the close of period rate.

2. The base currency is Canadian dollar.

3. As of June 1, 2018 the US 3 Month Treasury Bill was 1.90%. This was the risk free rate used to calculate the Sharpe ratio.

4. Transaction Fee: $0.01 per share.

5. The benchmark is calculated by using S&P index, us core bond index and Canada aggregate bond index.

6. Price valuations are obtained from outside parties. Manager have no responsibility for the accuracy or timeliness of any such price valuation.