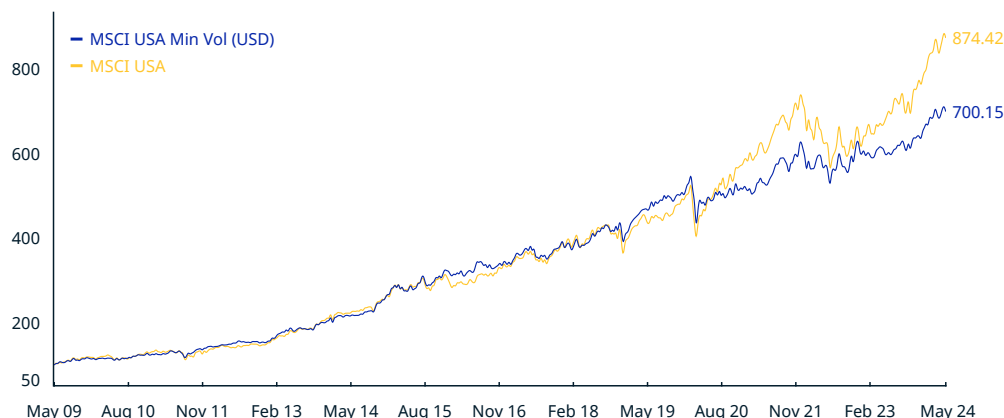


# MSCI USA Minimum Volatility (USD) Index (CAD)

The **MSCI USA Minimum Volatility (USD) Index** aims to reflect the performance characteristics of a minimum variance strategy applied to the large and mid cap USA equity universe. The index is calculated by optimizing the MSCI USA Index, its parent index, in USD for the lowest absolute risk (within a given set of constraints). Historically, the index has shown lower beta and volatility characteristics relative to the MSCI USA Index.

For a complete description of the index methodology, please see [Index methodology - MSCI](#).

## CUMULATIVE INDEX PERFORMANCE – NET RETURNS (CAD) (MAY 2009 – MAY 2024)



## ANNUAL PERFORMANCE (%)

| Year | MSCI USA Min Vol (USD) | MSCI USA |
|------|------------------------|----------|
| 2023 | 6.21                   | 23.10    |
| 2022 | -3.11                  | -14.02   |
| 2021 | 19.40                  | 25.38    |
| 2020 | 3.25                   | 18.61    |
| 2019 | 20.67                  | 24.26    |
| 2018 | 9.95                   | 3.51     |
| 2017 | 10.63                  | 13.23    |
| 2016 | 6.04                   | 7.06     |
| 2015 | 25.83                  | 20.75    |
| 2014 | 26.20                  | 22.85    |
| 2013 | 32.72                  | 40.63    |
| 2012 | 7.76                   | 12.78    |
| 2011 | 14.71                  | 3.87     |
| 2010 | 7.89                   | 8.78     |

## INDEX PERFORMANCE – NET RETURNS (%) (MAY 31, 2024)

|                        | 1 Mo | 3 Mo | 1 Yr  | YTD   | ANNUALIZED |       |       |       | Since May 31, 1988 |
|------------------------|------|------|-------|-------|------------|-------|-------|-------|--------------------|
|                        |      |      |       |       | 3 Yr       | 5 Yr  | 10 Yr |       |                    |
| MSCI USA Min Vol (USD) | 1.95 | 2.51 | 17.31 | 9.96  | 9.97       | 8.52  | 12.44 | 10.15 |                    |
| MSCI USA               | 3.92 | 4.06 | 28.17 | 14.46 | 12.81      | 15.36 | 14.57 | 10.71 |                    |

## FUNDAMENTALS (MAY 31, 2024)

| Div Yld (%) | P/E   | P/E Fwd | P/BV |
|-------------|-------|---------|------|
| 1.91        | 21.40 | 18.03   | 4.14 |
| 1.38        | 25.79 | 20.86   | 4.76 |

## INDEX RISK AND RETURN CHARACTERISTICS (MAY 31, 1988 – MAY 31, 2024)

|                        | Beta | Tracking Error (%) | Turnover (%) <sup>1</sup> | ANNUALIZED STD DEV (%) <sup>2</sup> |       |       | MAXIMUM DRAWDOWN |                       |
|------------------------|------|--------------------|---------------------------|-------------------------------------|-------|-------|------------------|-----------------------|
|                        |      |                    |                           | 3 Yr                                | 5 Yr  | 10 Yr | (%)              | Period YYYY-MM-DD     |
| MSCI USA Min Vol (USD) | 0.74 | 6.01               | 20.14                     | 11.17                               | 11.36 | 10.92 | 38.84            | 2007-02-07–2009-03-05 |
| MSCI USA               | 1.00 | 0.00               | 2.00                      | 14.65                               | 14.24 | 12.73 | 56.50            | 2000-08-31–2009-03-05 |

<sup>1</sup> Last 12 months

<sup>2</sup> Based on monthly net returns data

The MSCI USA Minimum Volatility (USD) Index was launched on Jun 02, 2008. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance – whether actual or back-tested – is no indication or guarantee of future performance.

**INDEX CHARACTERISTICS**

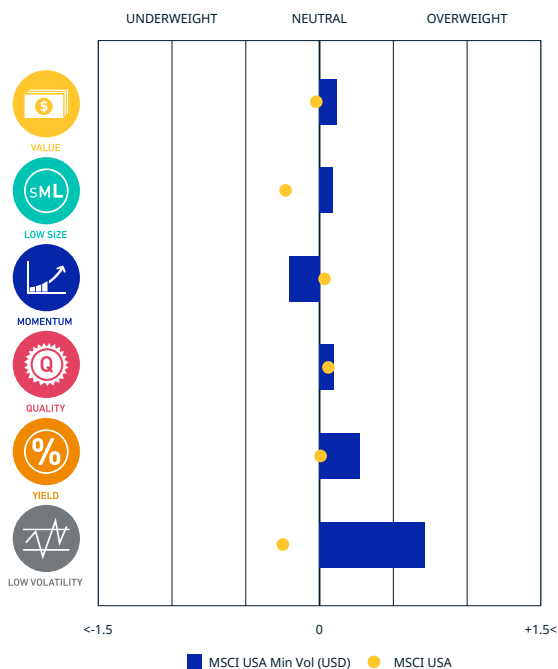
|                               | MSCI USA Min Vol (USD) | MSCI USA |
|-------------------------------|------------------------|----------|
| <b>Number of Constituents</b> | 165                    | 611      |
|                               | Weight (%)             |          |
| <b>Largest</b>                | 2.18                   | 6.35     |
| <b>Smallest</b>               | 0.04                   | 0.00     |
| <b>Average</b>                | 0.61                   | 0.16     |
| <b>Median</b>                 | 0.46                   | 0.06     |

**TOP 10 CONSTITUENTS**

|                      | Index Wt. (%) | Parent Index Wt. (%) | Sector      |
|----------------------|---------------|----------------------|-------------|
| BROADCOM             | 2.18          | 1.28                 | Info Tech   |
| AMPHENOL CORP        | 1.87          | 0.17                 | Info Tech   |
| WASTE MANAGEMENT     | 1.70          | 0.18                 | Industrials |
| MERCK & CO           | 1.68          | 0.69                 | Health Care |
| PROGRESSIVE CORP     | 1.62          | 0.27                 | Financials  |
| T-MOBILE US          | 1.62          | 0.20                 | Comm Srvcs  |
| WASTE CONNECTIONS    | 1.61          | 0.09                 | Industrials |
| REPUBLIC SERVICES    | 1.60          | 0.09                 | Industrials |
| BERKSHIRE HATHAWAY B | 1.58          | 1.18                 | Financials  |
| MOTOROLA SOLUTIONS   | 1.57          | 0.13                 | Info Tech   |
| <b>Total</b>         | <b>17.04</b>  | <b>4.28</b>          |             |

**FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN**

**MSCI FACTOR BOX**



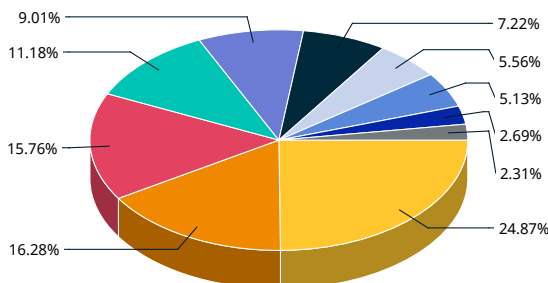
**MSCI FaCS**

- VALUE**  
Relatively Inexpensive Stocks
- LOW SIZE**  
Smaller Companies
- MOMENTUM**  
Rising Stocks
- QUALITY**  
Sound Balance Sheet Stocks
- YIELD**  
Cash Flow Paid Out
- LOW VOLATILITY**  
Lower Risk Stocks

MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

**SECTOR WEIGHTS**



- Information Technology 24.87%
- Health Care 16.28%
- Financials 15.76%
- Consumer Staples 11.18%
- Industrials 9.01%
- Utilities 7.22%
- Consumer Discretionary 5.56%
- Communication Services 5.13%
- Materials 2.69%
- Energy 2.31%

**MSCI FACTOR BOX AND FaCS FRAMEWORK (Please refer to complete description of the MSCI FaCS methodology [here](#))**

MSCI FaCS is a standard method for evaluating and reporting the Factor characteristics of equity portfolios. MSCI FaCS consists of Factor Groups (e.g. Value, Size, Momentum, Quality, Yield, and Volatility) that have been extensively documented in academic literature and validated by MSCI Research as key drivers of risk and return in equity portfolios. These Factor Groups are constructed by aggregating 16 factors (e.g. Book-to-Price, Earnings/Dividend Yields, LT Reversal, Leverage, Earnings Variability/Quality, Beta) from the latest Barra global equity factor risk model, GEMLT, designed to make fund comparisons transparent and intuitive for use. The MSCI Factor Box, which is powered by MSCI FaCS, provides a visualization designed to easily compare absolute exposures of funds/indexes and their benchmarks along 6 Factor Groups that have historically demonstrated excess market returns over the long run.

**ABOUT MSCI**

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