

# Minnesota State Board of Investment Volunteer Firefighter Account

# As of September 30, 2023

CASH

4.65%

#### **HIGHLIGHTS**

### Objective

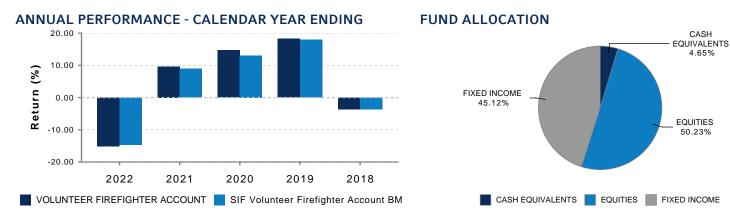
The Fund seeks to earn returns from both capital appreciation and income in the form of dividends from stocks and interest from bonds. The portfolio uses a mix of stocks and bonds to maximize the long-term growth of capital, while limiting short-run portfolio return volatility.

The target allocation is 35% U.S. Equity Index Fund (Russell 3000 Index), 15% Broad International Equity Fund (MSCI ACWI ex U.S. Index (net)), 45% Bond Fund (Bloomberg U.S. Aggregate Bond Index), and 5% Money Market Fund (ICE BofA 3-Month T-Bill Index).

Fund's custom benchmark is an aggregate return of the respective asset group benchmark performance weighted to the target allocation.

#### **Total Fund Expense**

The Total Fund Expense Ratio of 0.098 % includes the Investment Management Fee of 0.09% that is deducted out of the investment manager portfolio, and the Administrative Fee of 0.008% that is deducted out of the Fire Relief portfolio.



#### **ANNUALIZED PERFORMANCE AS OF 09/30/23**

|         | VOLUNTEER FIREFIGHTER<br>ACCOUNT | SIF Volunteer Firefighter Account BM | Excess |
|---------|----------------------------------|--------------------------------------|--------|
| QTR     | -3.02                            | -3.06                                | 0.04   |
| YTD     | 5.27                             | 4.73                                 | 0.54   |
| 1 Year  | 10.69                            | 10.62                                | 0.07   |
| 3 Year  | 2.01                             | 1.69                                 | 0.32   |
| 5 Year  | 4.47                             | 4.07                                 | 0.40   |
| 10 Year | 5.57                             | 5.21                                 | 0.35   |

# U.S. EQUITY SECTOR ALLOCATION (% of Net Assets)

|                    | <u>3ep-23</u> |           |
|--------------------|---------------|-----------|
|                    | Fund          | Benchmark |
| BASIC MATERIALS    | 2.58          | 2.57      |
| FINANCIALS         | 13.68         | 13.68     |
| HEALTH CARE        | 16.43         | 16.43     |
| INDUSTRIALS        | 16.66         | 16.63     |
| OIL & GAS          | 6.35          | 6.37      |
| TECHNOLOGY         | 38.05         | 38.06     |
| TELECOMMUNICATIONS | 2.91          | 2.91      |
| UTILITIES          | 3.35          | 3.35      |

# FIXED INCOME SECTOR ALLOCATION (% of Net Assets)

|                       | Se    | <u>Sep-23</u> |  |
|-----------------------|-------|---------------|--|
|                       | Fund  | Benchmark     |  |
| MORTGAGE PASS-THROUGH | 32.12 | 26.68         |  |
| CORPORATE             | 27.85 | 22.30         |  |
| US TREASURY           | 13.45 | 40.78         |  |
| СМО                   | 8.12  | 1.73          |  |
| ASSET BACKED          | 7.91  | 0.49          |  |
| YANKEE                | 6.83  | 5.85          |  |
| AGENCY                | 2.01  | 1.63          |  |
| MUNICIPAL             | 0.70  | 0.49          |  |
| FOREIGN               | 0.67  | 0.02          |  |
| SWAPS                 | 0.28  |               |  |
|                       |       |               |  |

# INTERNATIONAL EQUITY SECTOR ALLOCATION (% of **Net Assets)**

|                    | <u>Sep-23</u> |           |
|--------------------|---------------|-----------|
|                    | <u>Fund</u>   | Benchmark |
| BASIC MATERIALS    | 7.47          | 8.78      |
| CONSUMER GOODS     | 0.00          |           |
| CONSUMER SERVICES  | 0.01          |           |
| FINANCIALS         | 32.77         | 27.34     |
| FUTURES            | -0.00         |           |
| HEALTH CARE        | 11.91         | 12.71     |
| INDUSTRIALS        | 17.87         | 17.78     |
| OIL & GAS          | 7.93          | 8.35      |
| TECHNOLOGY         | 14.07         | 15.46     |
| TELECOMMUNICATIONS | 4.80          | 5.60      |

# Minnesota State Board of Investment

**GLOSSARY - Risk Definitions** 

### **Alpha**

Alpha, also known as excess return, is the portfolio's return less the benchmark return. If a portfolio's rate of return is higher than the benchmark return, the portfolio is considered to have a "positive alpha".

#### Reta

Beta measures a fund's sensitivity to market movements. A fund with a beta of 1, indicates that the fund's price has moved with the market. A beta greater than (less than) 1, indicates the fund's price will be more (less) volatile relative to the market.

#### Information Ratio

The information ratio (IR) is a measure of the portfolio's risk adjusted return. This ratio considers the portfolios return to its benchmark return. The higher the information ratio, the higher the positive alpha the portfolio has generated given a certain amount of risk. The information ratio is determined by taking the portfolio's excess return over the standard deviation of the excess return.

### **Standard Deviation**

Standard deviation is a measure of the portfolio's volatility in rate of return. A volatile portfolio will have a high standard deviation, while a more stable portfolio will have a lower standard deviation.

#### **Tracking Error**

Tracking error, also known as active risk, is a measure of how closely the portfolio performs to its benchmark. It is determined by taking the standard deviation of the excess return.