Minnesota State Board of Investment Balanced Fund

As of December 31, 2023

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.

Strateg

The Fund generally invests 60% of assets in stocks, 35% in bonds and 5% in cash. The stock portion seeks to replicate the performance of the Russell 3000 Index. The bond Fund is actively managed and seeks to outperform the Barclays Capital Aggregate Bond Index. The cash portion tracks the 90 day US T-bill.

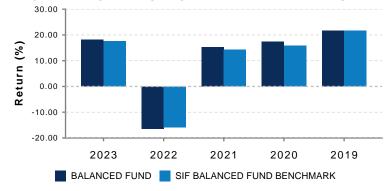
Benchmark

Balanced Fund Custom Benchmark is an aggregate return of the respective asset group benchmark performance weighted to the target allocation.

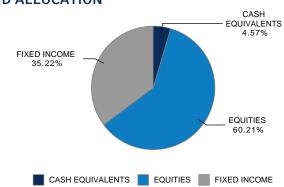
Total Fund Expense

The Total Fund Expense Ratio for this fund is 0.048%. This includes an Investment Management Fee of 0.04% that is deducted by the investment management companies prior to the calculation of performance and an Administrative Fee of 0.008% that is deducted after performance has been calculated.

ANNUAL PERFORMANCE - CALENDAR YEAR ENDING



FUND ALLOCATION



ANNUALIZED PERFORMANCE AS OF 12/31/23

	BALANCED FUND	SIF BALANCED FUND BENCHMARK	Excess
QTR	9.94	9.70	0.24
YTD	18.11	17.50	0.61
1 Year	18.11	17.50	0.61
3 Year	4.35	4.18	0.16
5 Year	10.16	9.77	0.39
10 Year	8.01	7.77	0.24

EQUITY TOP 10 HOLDINGS (% of Net Assets)

Security Name	Asset Weight
APPLE INC	6.10
MICROSOFT CORP	6.01
AMAZON.COM INC	2.94
NVIDIA CORP	2.53
ALPHABET INC CL A	1.78
META PLATFORMS INC CLASS A	1.68
ALPHABET INC CL C	1.52
TESLA INC	1.47
BERKSHIRE HATHAWAY INC CL B	1.40
ELI LILLY + CO	1.06

FIXED INCOME SECTOR ALLOCATION (% of Net Assets)

	Dec-23	
	Fund	Benchmark
MORTGAGE PASS-THROUGH	30.11	
CORPORATE	29.43	
US TREASURY	12.01	
СМО	9.69	
ASSET BACKED	8.58	
YANKEE	6.78	
AGENCY	1.76	
MUNICIPAL	0.72	
FOREIGN	0.69	
SWAPS	0.17	

EQUITY SECTOR ALLOCATION (% of Net Assets)

	De	<u>C-23</u>
	Fund	Benchmark
BASIC MATERIALS	2.57	2.56
FINANCIALS	14.06	14.06
HEALTH CARE	15.52	15.53
INDUSTRIALS	16.94	16.92
OIL & GAS	5.27	5.29
TECHNOLOGY	39.62	39.64
TELECOMMUNICATIONS	2.73	2.73
UTILITIES	3.28	3.27

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.